



THE OIL SHALE CORPORATION
ROCKY FLATS RESEARCH CENTER

Oil Shale Assay Report

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Core Utah Shell Core Hole 14x-34

Date December 13, 1974

Source _____

Core Depth	Fischer Assay No.	Oil Yield		Water Yield		Residue lbs/ton	Gas + Loss lbs/ton	Na wt. %	Al ₂ O ₃ wt. %	
		gal/ton	S.G.	gal/ton	S.G.					
1921.0 - 1922.0	2827	7.1	.929	6.0	(1)	1726	169			
1922.0 - 1923.0	2828	6.0	.933	8.4		1691	192			
1923.0 - 1924.0	2829	9.3	.926	3.4		1810	90			
1924.0 - 1925.0	2830	8.9	.925	4.5		1782	112			
1925.0 - 1926.0	2831	10.7	.927	2.2		1841	58			
1926.0 - 1927.0	2832	8.5	.933	5.1		1748	144			
1927.0 - 1928.0	2833	9.6	.929	1.8		1858	53			
1928.0 - 1929.0	2834	11.1	.925	0.5		1892	18			
1929.0 - 1930.0	2835	8.9	.923	7.0		1698	175			
1930.0 - 1931.0 ⁽²⁾	2836	9.5	.922	1.1		1893	24			
1931.0 - 1932.0	2837	8.2	.920	0.9		1905	24			
1932.0 - 1933.0	2838	9.0	.928	3.8		1796	103			
1933.0 - 1934.0	2839	7.7	.947	7.2		1682	197			
1934.0 - 1935.0	2840	10.6	.921	1.2		1853	55			
1935.0 - 1936.0	2841	9.5	.925	3.1		1791	109			
1936.0 - 1937.0	2842	13.7	.922	0.7		1863	26			
1937.0 - 1938.0	2843	13.1	.919	0.4		1888	8			
1938.0 - 1939.0	2844	24.4	.922	1.2		1755	47			
1939.0 - 1940.0	3019	7.0	.922	16.7		1415	392			
1940.0 - 1941.0	3213	8.0	.927	3.4		1786	124			

Remarks: (1) Assumed as one.

(2) From 1930 to 2058 feet, approximately two inches was missing from each running
foot of core. The assay was run on the ten-inch sample and data were reported
on a twelve-inch basis.

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Core Depth	Fischer Assay No.	Oil Yield		Water Yield		Residue lbs/ton	Gas + Loss lbs/ton	Na wt. %	Al ₂ O ₃ wt. %	
		gal/ton	S.G.	gal/ton	S.G.					
1941.0 - 1942.0	3214	8.7	.918	0.6	(1)	1910	19			
1942.0 - 1943.0	3215	7.0	.919	4.4		1774	136			
1943.0 - 1944.0	1539	7.1	.923	1.9		1880	50			
1944.0 - 1945.0	1540	8.9	.917	1.4		1875	44			
1945.0 - 1961.0	MISSING CORE			See CSM p.5						
1961.0 - 1962.0	1541	12.3	.924	0.4		1880	22			
1962.0 - 1963.0	1542	9.7	.924	0.4		1904	18			
1963.0 - 1964.0	1543	7.6	.923	0.5		1922	16			
1964.0 - 1965.0	1544	7.5	.923	0.6		1920	17			
1965.0 - 1966.0	1545	6.8	.922	0.7		1925	17			
1966.0 - 1967.0	1569	6.4	.920	0.7		1928	17			
1967.0 - 1968.0	1547	6.9	.920	0.7		1924	17			
1968.0 - 1969.0	1548	6.3	.920	0.6		1935	13			
1969.0 - 1970.0	1549	8.3	.919	0.6		1911	20			
1970.0 - 1971.0	1550	7.0	.920	0.5		1930	13			
1971.0 - 1972.0	1551	6.1	.920	0.7		1921	26			
1972.0 - 1973.0	1552	6.6	.921	0.5		1933	13			
1973.0 - 1974.0	1553	6.8	.921	0.5		1932	12			
1974.0 - 1975.0	1554	6.2	.926	0.7		1931	16			
1975.0 - 1976.0	1555	6.5	.926	0.6		1929	16			

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Core Depth	Fischer Assay No.	Oil Yield		Water Yield		Residue lbs/ton	Gas + Loss lbs/ton	Na wt. %	Al ₂ O ₃ wt. %	
		gal/ton	S.G.	gal/ton	S.G.					
1976.0 - 1977.0	1556	7.0	.924	0.6	(1)	1928	14			
1977.0 - 1978.0	1557	6.8	.923	0.7		1926	16			
1978.0 - 1979.0	1558	6.0	.923	0.7		1933	15			
1979.0 - 1980.0	1559	5.2	.922	0.7		1937	17			
1980.0 - 1981.0	1560	7.0	.922	0.5		1927	15			
1981.0 - 1982.0	1561	7.7	.922	0.5		1922	15			
1982.0 - 1983.0	1562	13.6	.922	0.5		1872	19			
1983.0 - 1984.0	1563	23.7	.923	0.9		1777	32			
1984.0 - 1985.0	1564	8.9	.919	0.6		1910	16			
1985.0 - 1986.0	1565	6.1	.919	0.6		1929	19			
1986.0 - 1987.0	1566	6.9	.922	0.8		1920	20			
1987.0 - 1988.0	1567	6.1	.922	0.7		1931	17			
1988.0 - 1989.0	1568	6.6	.920	0.6		1924	20			
1989.0 - 1990.0	1572	11.8	.913	0.7		1884	20			
1990.0 - 1991.0	1573	23.9	.919	0.8		1777	33			
1991.0 - 1992.0	1574	10.1	.926	0.5		1903	15			
1992.0 - 1993.0	1575	11.6	.922	0.5		1891	16			
1993.0 - 1994.0	1576	9.9	.922	0.4		1906	14			
1994.0 - 1995.0	1577	7.8	.930	0.5		1922	13			
1995.0 - 1996.0	1578	8.1	.924	0.7		1913	18			

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Core Utah Shell Core Hole 14x-34

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Core Depth	Fischer Assay No.	Oil Yield		Water Yield		Residue lbs/ton	Gas + Loss lbs/ton	Na wt. %	Al ₂ O ₃ wt. %	
		gal/ton	S.G.	gal/ton	S.G.					
1996.0 - 1997.0	1579	8.5	.920	0.6	(1)	1914	16			
1997.0 - 1998.0	1580	9.1	.917	0.5		1912	14			
1998.0 - 1999.0	1581	11.1	.919	0.7		1892	17			
1999.0 - 2000.0	1582	8.8	.928	0.5		1915	13			
2000.0 - 2001.0	1622	10.5	.926	0.7		1897	15			
2001.0 - 2002.0	1584	10.1	.926	0.5		1904	14			
2002.0 - 2003.0	1585	10.0	.925	0.5		1904	15			
2003.0 - 2004.0	1586	13.0	.914	1.7		1862	25			
2004.0 - 2005.0	1587	7.5	.918	0.7		1921	15			
2005.0 - 2006.0	1588	7.1	.920	0.8		1921	18			
2006.0 - 2007.0	1589	7.0	.919	0.9		1920	19			
2007.0 - 2008.0	1590	7.6	.919	0.9		1915	19			
2008.0 - 2009.0	1591	8.2	.925	0.7		1914	17			
2009.0 - 2010.0	1592	7.9	.926	0.7		1918	16			
2010.0 - 2011.0	1593	9.9	.929	0.5		1902	18			
2011.0 - 2012.0	1641	16.5	.927	0.9		1848	24			
2012.0 - 2013.0	1595	13.7	.931	0.6		1865	23			
2013.0 - 2014.0	1596	8.0	.927	0.5		1918	16			
2014.0 - 2015.0	1597	7.5	.928	0.5		1924	14			
2015.0 - 2016.0	1598	6.6	.928	0.5		1930	14			

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Core Depth	Fischer Assay No.	Oil Yield		Water Yield		Residue lbs/ton	Gas + Loss lbs/ton	Na wt. %	Al ₂ O ₃ wt. %	
		gal/ton	S.G.	gal/ton	S.G.					
2016.0 - 2017.0	1599	7.7	.922	0.3	(1)	1923	15			
2017.0 - 2018.0	1600	10.5	.928	0.5		1895	20			
2018.0 - 2019.0	1601	8.6	.925	0.5		1914	15			
2019.0 - 2020.0	1602	8.7	.920	0.5		1916	14			
2020.0 - 2021.0	1603	14.4	.918	0.7		1859	25			
2021.0 - 2022.0	1604	13.3	.909	0.7		1874	19			
2022.0 - 2023.0	1605	9.5	.918	0.8		1902	18			
2023.0 - 2024.0	1606	8.5	.917	0.8		1910	18			
2024.0 - 2025.0	1607	6.5	.915	0.7		1929	16			
2025.0 - 2026.0	1608	9.3	.916	0.8		1904	18			
2026.0 - 2027.0	1609	31.7	.918	1.2		1702	44			
2027.0 - 2028.0	1610	12.4	.925	0.9		1876	21			
2028.0 - 2029.0	1611	8.5	.923	0.7		1912	17			
2029.0 - 2030.0	1612	8.0	.922	1.0		1914	17			
2030.0 - 2031.0	1642	19.4	.922	1.0		1818	25			
2031.0 - 2032.0	1643	8.7	.913	0.9		1913	13			
2032.0 - 2033.0	1644	8.2	.914	1.3		1906	21			
2033.0 - 2034.0	1645	10.0	.918	0.8		1907	11			
2034.0 - 2035.0	1646	14.9	.923	0.8		1857	22			
2035.0 - 2036.0	1647	9.9	.916	1.0		1899	17			

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Core Depth	Fischer Assay No.	Oil Yield		Water Yield		Residue lbs/ton	Gas + Loss lbs/ton	Na wt. %	Al ₂ O ₃ wt. %	
		gal/ton	S.G.	gal/ton	S.G.					
2036.0 - 2037.0	1648	8.7	.917	0.9	(1)	1909	17			
2037.0 - 2038.0	1673	9.3	.918	0.9		1902	19			
2038.0 - 2039.0	1650	18.6	.913	0.8		1828	24			
2039.0 - 2040.0	1651	24.4	.921	1.1		1771	31			
2040.0 - 2041.0	1652	10.7	.924	0.7		1886	25			
2041.0 - 2042.0	1653	10.6	.922	0.8		1897	15			
2042.0 - 2043.0	1654	10.4	.925	0.8		1898	15			
2043.0 - 2044.0	1655	11.5	.928	0.7		1891	15			
2044.0 - 2045.0	1657	13.1	.929	0.5		1874	20			
2045.0 - 2046.0	1658	13.2	.928	0.5		1874	20			
2046.0 - 2047.0	1659	13.6	.924	0.9		1863	25			
2047.0 - 2048.0	1660	18.1	.920	0.9		1824	30			
2048.0 - 2049.0	1661	14.0	.925	0.6		1863	24			
2049.0 - 2050.0	1662	13.9	.929	0.8		1863	23			
2050.0 - 2051.0	1663	15.3	.929	0.7		1850	26			
2051.0 - 2052.0	1664	12.6	.925	0.7		1874	23			
2052.0 - 2053.0	1665	13.9	.930	0.7		1865	22			
2053.0 - 2054.0	1666	11.5	.925	0.6		1887	19			
2054.0 - 2055.0	1667	15.0	.926	0.7		1855	23			
2055.0 - 2056.0	1668	13.6	.928	0.6		1867	22			

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Core Depth	Fischer Assay No.	Oil Yield		Water Yield		Residue lbs/ton	Gas + Loss lbs/ton	Na wt. %	Al ₂ O ₃ wt. %	
		gal/ton	S.G.	gal/ton	S.G.					
2056.0 - 2057.0	1669	13.4	.924	0.6	(1)	1871	21			
2057.0 - 2058.0 ⁽²⁾	1670	13.0	.919	0.9		1866	27			
2058.0 - 2059.0	1671	15.0	.907	1.0		1860	19			
2059.0 - 2060.0	1672	14.6	.909	0.8		1852	30			
2060.0 - 2061.0	1674	13.2	.907	1.1		1864	27			
2061.0 - 2062.0	1675	13.5	.906	1.0		1865	25			
2062.0 - 2063.0	1676	13.4	.906	1.0		1865	26			
2063.0 - 2064.0	1677	14.2	.907	0.8		1862	23			
2064.0 - 2065.0	1678	15.3	.907	1.0		1847	29			
2065.0 - 2066.0	3216	18.3	.907	1.2		1823	28			
2066.0 - 2067.0	1680	16.9	.907	1.2		1830	32			
2067.0 - 2070.0	MISSING CORE		DEPTH		CORRECTION					
2070.0 - 2071.0	1681	18.1	.909	1.0		1828	27			
2071.0 - 2072.0	1682	35.5	.908	1.3		1670	50			
2072.0 - 2073.0	1683	26.0	.909	1.2		1754	38			
2073.0 - 2074.0	1684	25.8	.906	1.2		1756	38			
2074.0 - 2075.0	1685	27.5	.907	1.2		1737	45			
2075.0 - 2076.0	1686	19.5	.903	1.2		1812	32			
2076.0 - 2077.0	1687	16.2	.906	1.1		1839	29			
2077.0 - 2078.0	1688	11.7	.910	1.1		1878	23			

Remarks: (1) Assumed as one.

(2) From 1930 to 2058 feet, approximately two inches was missing from each running foot of core. The assay was run on the ten-inch sample and data were reported on a twelve-inch basis.

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		gal/ton	S.G.	gal/ton	S.G.					
2078.0 - 2079.0	1689	12.5	.911	1.0	(1)	1879	18			
2079.0 - 2080.0	1690	18.3	.908	1.3		1823	28			
2080.0 - 2081.0	1691	14.3	.911	1.0		1860	23			
2081.0 - 2082.0	1692	11.9	.914	1.2		1872	27			
2082.0 - 2083.0	1693	9.6	.914	1.3		1892	24			
2083.0 - 2084.0	1694	7.4	.915	1.1		1903	31			
2084.0 - 2085.0	1695	15.6	.912	1.0		1847	26			
2085.0 - 2086.0	1696	28.7	.915	1.3		1725	45			
2086.0 - 2087.0	MISSING CORE									
2087.0 - 2088.0	1698	10.8	.913	1.3		1883	24			
2088.0 - 2089.0	1699	8.0	.918	1.1		1910	19			
2089.0 - 2090.0	1700	10.1	.914	1.0		1897	19			
2090.0 - 2091.0	1701	16.2	.910	1.0		1845	24			
2091.0 - 2092.0	1702	11.4	.913	1.2		1875	28			
2092.0 - 2093.0	1703	6.5	.913	1.5		1915	22			
2093.0 - 2094.0	1704	5.8	.913	1.9		1920	20			
2094.0 - 2095.0	1724	8.8	.922	1.0		1897	27			
2095.0 - 2096.0	1706	10.2	.913	1.3		1888	23			
2096.0 - 2097.0	1707	7.2	.918	1.4		1909	23			
2097.0 - 2098.0	1708	7.0	.918	1.0		1928	10			

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Core Depth	Fischer Assay No.	Oil Yield		Water Yield		Residue lbs/ton	Gas + Loss lbs/ton	Na wt. %	Al ₂ O ₃ wt. %	
		gal/ton	S.G.	gal/ton	S.G.					
2098.0 - 2099.0	1709	24.9	.912	1.4	(1)	1760	39			
2099.0 - 2100.0	1710	14.9	.919	0.8		1847	33			
2100.0 - 2101.0	1711	9.7	.917	1.1		1897	20			
2101.0 - 2102.0	1712	8.5	.916	1.6		1900	22			
2102.0 - 2103.0	1713	9.1	.918	1.4		1898	21			
2103.0 - 2104.0	1756	9.8	.915	1.2		1893	23			
2104.0 - 2105.0	1715	10.9	.916	1.3		1885	21			
2105.0 - 2106.0	1716	7.9	.917	1.3		1909	20			
2106.0 - 2107.0	1717	13.9	.915	1.2		1859	24			
2107.0 - 2108.0	1718	29.6	.913	1.3		1726	38			
2108.0 - 2109.0	1719	12.5	.922	1.0		1874	22			
2109.0 - 2110.0	1720	11.9	.910	1.0		1883	20			
2110.0 - 2111.0	1721	9.6	.924	1.1		1895	22			
2111.0 - 2112.0	1792	7.6	.923	1.4		1907	22			
2112.0 - 2113.0	1723	7.6	.924	1.3		1908	23			
2113.0 - 2114.0	1725	20.2	.916	1.3		1801	33			
2114.0 - 2115.0	1726	26.5	.925	1.3		1743	41			
2115.0 - 2116.0	1727	12.3	.922	0.9		1874	23			
2116.0 - 2117.0	1728	9.2	.919	1.0		1898	23			
2117.0 - 2118.0	1729	8.9	.920	1.2		1896	25			

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		gal/ton	S.G.	gal/ton	S.G.					
2118.0 - 2119.0	1730	13.4	.928	0.8	(1)	1847	42			
2119.0 - 2120.0	1731	47.2	.917	1.4		1565	62			
2120.0 - 2121.0	1732	22.1	.917	1.0		1793	29			
2121.0 - 2122.0	1772	11.1	.925	0.9		1888	19			
2122.0 - 2124.0	MISSING CORE									
2124.0 - 2125.0	1734	9.2	.923	1.1		1900	20			
2125.0 - 2126.0	1789	9.7	.924	1.2		1897	19			
2126.0 - 2127.0	1773	9.1	.919	1.0		1905	18			
2127.0 - 2128.0	1790	8.5	.916	1.2		1903	22			
2128.0 - 2129.0	1791	8.0	.923	1.2		1907	21			
2129.0 - 2130.0	1740	12.0	.918	1.1		1877	22			
2130.0 - 2131.0	1741	16.6	.917	1.0		1838	27			
2131.0 - 2132.0	1742	15.8	.910	0.9		1851	22			
2132.0 - 2133.0	1743	12.2	.918	0.9		1879	20			
2133.0 - 2134.0	1744	12.0	.916	0.9		1881	20			
2134.0 - 2135.0	1745	13.5	.917	1.0		1865	23			
2135.0 - 2136.0	1746	14.9	.918	1.0		1851	26			
2136.0 - 2137.0	1889	32.2	.916	1.3		1698	46			
2137.0 - 2138.0	2890	17.5	.914	1.1		1832	26			
2138.0 - 2139.0	1892	12.0	.914	1.0		1879	21			

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Core Depth	Fischer Assay No.	Oil Yield		Water Yield		Residue lbs/ton	Gas + Loss lbs/ton	Na wt. %	Al ₂ O ₃ wt. %	
		gal/ton	S.G.	gal/ton	S.G.					
2139.0 - 2140.0	1893	11.7	.916	1.0	(1)	1878	24			
2140.0 - 2141.0	1894	9.4	.914	1.0		1890	30			
2141.0 - 2142.0	1895	3.5	.905	1.0		1940	26			
2142.0 - 2143.0	1896	3.8	.910	1.0		1940	23			
2143.0 - 2144.0	1897	9.4	.915	1.0		1903	17			
2144.0 - 2145.0 (2)	1898	12.0	.920	0.8		1879	22			
45.0 - 46.0 2146.0 - 2147.0	1942	14.8 Average 17.7	.918	1.2		1826	28			
2147.0 - 2148.0	1901	14.1	.908	0.8		1883	4			
2148.0 - 2149.0	1902	10.5	.914	0.8		1891	22			
2149.0 - 2150.0	1903	11.8	.912	0.8		1886	18			
2150.0 - 2151.0	1904	17.0	.916	0.8		1839	24			
2151.0 - 2152.0	1905	21.1	.906	0.8		1809	25			
2152.0 - 2153.0	1906	16.8	.920	0.9		1836	28			
2153.0 - 2154.0	1909	12.1	.927	0.7		1882	19			
2154.0 - 2155.0	1910	9.7	.911	0.6		1906	15			
2155.0 - 2185.0	← MISSING CORE USE AVERAGE VALUE					12.9 GPT	from other holes			
2185.0 - 2186.0	1911	16.0	.921	0.7		1848	23			
2186.0 - 2187.0	1912	13.2	.923	0.7		1871	21			
2187.0 - 2188.0	1913	11.0	.927	0.5		1894	17			
2188.0 - 2189.0	1914	10.5	.925	0.5		1900	15			

Remarks: (1) Assumed as one.

(2) 2145.0 - 2146.0 Missing Core.

Signed

Date

THE OIL SHALE CORPORATION
ROCKY FLATS RESEARCH CENTER

Core Utah Shell Core Hole 14x-34
Date December 13, 1974
Source _____

Oil Shale Assay Report

Core Depth	Fischer Assay No.	Oil Yield		Water Yield		Residue lbs/ton	Gas + Loss lbs/ton	Na wt. %	Al ₂ O ₃ wt. %	
		gal/ton	S.G.	gal/ton	S.G.					
2189.0 - 2190.0	1915	9.9	.923	0.6	(1)	1904	15			
2190.0 - 2191.0	1916	19.2	.921	0.6		1823	24			
2191.0 - 2192.0	1917	18.3	.915	0.7		1828	26			
2192.0 - 2193.0	1918	17.6	.906	0.4		1846	18			
2193.0 - 2194.0	1919	17.1	.904	0.7		1842	23			
2194.0 - 2195.0	1920	16.9	.914	0.6		1842	23			
2195.0 - 2196.0	1921	13.0	.922	0.7		1873	22			
2196.0 - 2197.0	1922	12.4	.922	0.5		1883	17			
2197.0 - 2198.0	1923	14.0	.923	0.7		1866	20			
2198.0 - 2199.0	1924	16.3	.922	0.7		1846	22			
2199.0 - 2200.0	1925	20.2	.916	0.7		1806	33			
2200.0 - 2201.0	1926	19.0	.917	0.8		1819	29			
2201.0 - 2202.0	1927	18.6	.917	0.8		1825	26			
2202.0 - 2203.0	1928	25.1	.911	0.7		1769	34			
2203.0 - 2204.0	1929	29.4	.914	1.1		1725	42			
2204.0 - 2205.0	1930	17.5	.916	0.7		1835	25			
2205.0 - 2206.0	1931	14.4	.918	0.6		1865	20			
2206.0 - 2207.0	1932	12.4	.922	0.6		1876	24			
2207.0 - 2208.0	1933	12.1	.915	0.6		1882	21			
2208.0 - 2209.0	1934	10.4	.918	0.8		1894	20			

Remarks: (1) Assumed as one.

Signed _____

Date 12-18-74



THE OIL SHALE CORPORATION
ROCKY FLATS RESEARCH CENTER

Core Utah Shell Core Hole 14x-34Date December 13, 1974

Source _____

Oil Shale Assay Report

Core Depth	Fischer Assay No.	Oil Yield		Water Yield		Residue lbs/ton	Gas + Loss lbs/ton	Na wt. %	Al ₂ O ₃ wt. %	
		gal/ton	S.G.	gal/ton	S.G.					
2209.0 - 2210.0	1935	9.4	.912	0.5	(1)	1908	16			
2210.0 - 2211.0	1936	11.6	.910	0.5		1889	19			
2211.0 - 2212.0	1937	14.4	.919	0.5		1864	21			
2212.0 - 2213.0	1938	16.8	.918	0.7		1840	25			
2213.0 - 2214.0	1939	14.6	.917	0.7		1859	23			
2214.0 - 2215.0	1940	8.9	.920	1.1		1892	31			
2215.0 - 2216.0	1941	8.7	.919	0.8		1900	27			
2216.0 - 2217.0	1944	9.7	.919	1.0		1901	17			
2217.0 - 2218.0	1945	9.4	.921	0.8		1899	22			
2218.0 - 2219.0	1946	7.2	.915	0.7		1922	18			
2219.0 - 2220.0	1947	15.3	.916	0.6		1854	23			
2220.0 - 2221.0	1948	19.4	.916	0.7		1818	27			
2221.0 - 2222.0	1949	16.1	.917	0.7		1847	23			
2222.0 - 2223.0	1950	11.6	.914	0.7		1873	33			
2223.0 - 2224.0	1951	12.0	.916	0.7		1892	11			
2224.0 - 2225.0	1952	14.2	.911	0.7		1863	23			
2225.0 - 2226.0	1953	39.9	.915	1.2		1631	55			
2226.0 - 2227.0	1976	28.6	.918	1.0		1731	42			
2227.0 - 2228.0	1955	15.3	.918	0.8		1843	33			
2228.0 - 2229.0	1956	14.3	.915	0.6		1861	25			

Remarks: (1) Assumed as one.

Signed _____

Date 12-18-74



THE OIL SHALE CORPORATION
ROCKY FLATS RESEARCH CENTER

Oil Shale Assay Report

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Core Utah Shell Core Hole 14x-34

Date December 13, 1974

Source _____

Core Depth	Fischer Assay No.	Oil Yield		Water Yield		Residue lbs/ton	Gas + Loss lbs/ton	Na wt. %	Al ₂ O ₃ wt. %	
		gal/ton	S.G.	gal/ton	S.G.					
2229.0 - 2230.0	1957	14.9	.915	1.2	(1)	1853	23			
2230.0 - 2231.0	1958	16.9	.915	0.7		1836	29			
2231.0 - 2232.0	1959	16.9	.915	0.7		1840	25			
2232.0 - 2233.0	1960	22.3	.910	1.0		1790	32			
2233.0 - 2234.0	1961	24.4	.908	1.0		1778	29			
2234.0 - 2235.0	1962	36.7	.913	1.7		1655	52			
2235.0 - 2236.0	1963	19.8	.908	0.7		1816	28			
2236.0 - 2237.0	1964	23.3	.906	1.4		1773	39			
2237.0 - 2238.0	1965	37.2	.908	1.6		1655	49			
2238.0 - 2239.0	1966	17.5	.910	1.0		1836	23			
2239.0 - 2240.0	1967	9.7	.912	0.7		1905	15			
2240.0 - 2361.0	MISSING CORE See CSM, p. 13									
2361.0 - 2362.0	1968	5.0	.910*	2.9		1927	11			
2362.0 - 2363.0	1969	3.0	.910*	2.2		1949	9			
2363.0 - 2364.0	1970	2.4	.910*	2.9		1945	13			
2364.0 - 2365.0	1971	1.5	.910*	2.4		1951	18			
2365.0 - 2366.0	1972	1.6	.910*	1.9		1961	11			
2366.0 - 2367.0	1973	1.2	.910*	2.4		1961	10			
2367.0 - 2368.0	1974	1.4	.910*	2.5		1958	10			
2368.0 - 2369.0	1975	1.2	.910*	1.7		1966	10			

Remarks: (1) Assumed as one.

*

Insufficient oil for analysis; computer automatically inserts .910.

Signed

Date

[Signature]
12-18-74



THE OIL SHALE CORPORATION
ROCKY FLATS RESEARCH CENTER

Oil Shale Assay Report

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Core Utah Shell Core Hole 14x-34

Date December 13, 1974

Source _____

Core Depth	Fischer Assay No.	Oil Yield		Water Yield		Residue lbs/ton	Gas + Loss lbs/ton	Na wt. %	Al ₂ O ₃ wt. %	
		gal/ton	S.G.*	gal/ton	S.G.					
2369.0 - 2370.0	1977	0.7	.910	3.0	(1)	1960	10			
2370.0 - 2371.0	1978	1.3	.910	3.2		1952	12			
2371.0 - 2372.0	1979	1.0	.910	3.7		1952	10			
2372.0 - 2373.0	1980	0.7	.910	2.7		1960	12			
2373.0 - 2374.0	1981	0.5	.910	1.0		1979	10			
2374.0 - 2375.0	1982	0.7	.910	1.2		1972	13			
2375.0 - 2376.0	1983	0.8	.910	1.2		1971	14			
2376.0 - 2377.0	1984	0.5	.910	0.5		1983	9			
2377.0 - 2378.0	1985	0.9	.910	0.7		1984	3			
2378.0 - 2379.0	1986	0.8	.910	0.9		1971	15			
2379.0 - 2380.0	1987	0.6	.910	0.6		1981	10			
2380.0 - 2381.0	1988	0.5	.910	1.2		1978	9			
2381.0 - 2382.0	1989	0.7	.910	3.1		1908	61			
2382.0 - 2383.0	1990	0.7	.910	2.4		1965	10			
2383.0 - 2384.0	1991	1.0	.910	0.7		1974	13			
2384.0 - 2385.0	1992	0.3	.910	1.9		1970	12			
2385.0 - 2386.0	1993	0.6	.910	2.4		1961	15			
2386.0 - 2387.0	1994	0.4	.910	2.8		1961	13			
2387.0 - 2388.0	1995	0.3	.910	2.9		1955	19			
2388.0 - 2389.0	1996	0.2	.910	1.1		1989	0			

Remarks: (1) Assumed as one.

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Insufficient oil for analysis; computer automatically inserts .910.

Signed

Date



THE OIL SHALE CORPORATION
ROCKY FLATS RESEARCH CENTER

Oil Shale Assay Report

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Core Utah Shell Core Hole 14x-34

Date December 13, 1974

Source _____

Core Depth	Fischer Assay No.	Oil Yield		Water Yield		Residue lbs/ton	Gas + Loss lbs/ton	Na wt. %	Al ₂ O ₃ wt. %	
		gal/ton	S.G.*	gal/ton	S.G.					
2389.0 - 2390.0	1997	0.4	.910	1.9	(1)	1970	11			
2390.0 - 2391.0	1998	0.4	.910	1.1		1978	10			
2391.0 - 2392.0	1999	0.4	.910	1.2		1976	11			
2392.0 - 2393.0	2000	0.4	.910	1.2		1973	14			
2393.0 - 2394.0	2001	1.2	.910	0.5		1980	8			
2394.0 - 2395.0	2002	2.0	.910	0.6		1975	4			
2395.0 - 2396.0	2003	1.7	.910	0.2		1978	7			
2396.0 - 2397.0	2004	0.5	.910	0.5		1979	13			
2397.0 - 2398.0	2005	0.7	.910	0.5		1976	14			
2398.0 - 2399.0	2006	0.5	.910	1.2		1969	18			
2399.0 - 2400.0	2007	0.6	.910	1.4		1971	13			
2400.0 - 2401.0	2008	0.5	.910	1.2		1968	19			
2401.0 - 2402.0	2009	0.5	.910	2.0		1969	10			
2402.0 - 2403.0	2010	0.6	.910	2.4		1961	15			
2403.0 - 2404.0	2011	0.6	.910	2.5		1963	12			
2404.0 - 2405.0	2012	0.4	.910	2.3		1967	11			
2405.0 - 2406.0	2013	0.4	.910	2.2		1971	8			
2406.0 - 2407.0	2014	0.5	.910	2.4		1964	12			
2407.0 - 2408.0	2015	0.6	.910	3.1		1959	10			
2408.0 - 2409.0	2016	0.4	.910	3.1		1962	10			

Remarks: (1) Assumed as one.

* Insufficient oil for analysis; computer automatically inserts .910.

Signed _____

Date 12-18-74

THE OIL SHALE CORPORATION
ROCKY FLATS RESEARCH CENTER

Core Utah Shell Core Hole 14x-34Date December 13, 1974

Source _____

Oil Shale Assay Report

Core Depth	Fischer Assay No.	Oil Yield		Water Yield		Residue lbs/ton	Gas + Loss lbs/ton	Na wt. %	Al ₂ O ₃ wt. %	
		gal/ton	S.G. *	gal/ton	S.G.					
2409.0 - 2410.0	2017	0.8	.910	2.3	(1)	1962	13			
2410.0 - 2411.0	2018	0.6	.910	2.0		1968	11			
2411.0 - 2412.0	2019	0.4	.910	2.7		1965	9			
2412.0 - 2413.0	2064	0.5	.910	2.6		1963	11			
2413.0 - 2415.0	MISSING CORE									
2415.0 - 2416.0	2021	0.4	.910	3.5		1955	13			
2416.0 - 2417.0	2022	0.5	.910	3.3		1955	13			
2417.0 - 2418.0	2023	0.6	.910	3.4		1952	15			
2418.0 - 2419.0	2024	0.7	.910	3.9		1948	14			
2419.0 - 2420.0	2025	0.6	.910	4.3		1946	14			
2420.0 - 2421.0	2026	0.5	.910	4.1		1950	12			
2421.0 - 2422.0	2065	0.7	.910	3.8		1948	14			
2422.0 - 2423.0	2066	1.0	.910	3.5		1949	14			
2423.0 - 2424.0	2067	1.1	.910	2.9		1954	13			
2424.0 - 2425.0	2068	2.0	.893	2.5		1951	13			
2425.0 - 2426.0	MISSING CORE									
2426.0 - 2427.0	2070	1.3	.910	2.8		1956	10			
2427.0 - 2428.0	2071	0.8	.910	2.9		1961	9			
2428.0 - 2429.0	2072	1.0	.910	2.9		1956	12			
2429.0 - 2430.0	2073	1.8	.910	2.5		1952	13			

Remarks: (1) Assumed as one.

* Insufficient oil for analysis; computer automatically inserts .910.

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Date 12-18-74

THE OIL SHALE CORPORATION
ROCKY FLATS RESEARCH CENTER

Core Utah Shell Core Hole 14x-34Date December 13, 1974

Source _____

Oil Shale Assay Report

Core Depth	Fischer Assay No.	Oil Yield		Water Yield		Residue lbs/ton	Gas + Loss lbs/ton	Na wt. %	Al ₂ O ₃ wt. %	
		gal/ton	S.G.	gal/ton	S.G.					
2430.0 - 2453.0	MISSING CORE			See CSMRF		p. 9				
2453.0 - 2454.0	2074	22.0	.908	2.2	(1)	1762	54			
2454.0 - 2455.0	2075	9.1	.905	1.4		1892	27			
2455.0 - 2456.0	2076	14.0	.892	1.7		1851	31			
2456.0 - 2457.0	2077	11.6	.893	1.3		1876	27			
2457.0 - 2458.0	2078	10.8	.904	1.4		1875	31			
2458.0 - 2459.0	2079	10.9	.895	1.2		1886	22			
2459.0 - 2460.0	2080	12.3	.897	1.4		1867	30			
2460.0 - 2461.0	2081	32.3	.898	2.1		1688	52			
2461.0 - 2462.0	2082	10.9	.890	1.0		1895	16			
2462.0 - 2463.0	2083	9.2	.903	1.2		1898	22			
2463.0 - 2464.0	2084	8.3	.905	1.2		1905	22			
2464.0 - 2465.0	2085	11.0	.908	1.5		1878	26			
2465.0 - 2466.0	2086	21.1	.903	1.7		1790	37			
2466.0 - 2467.0	2087	29.2	.900	1.4		1726	43			
2467.0 - 2468.0	2088	22.2	.901	1.7		1780	39			
2468.0 - 2469.0	2089	26.5	.908	1.8		1735	49			
2469.0 - 2470.0	2090	36.2	.909	2.0		1649	60			
2470.0 - 2471.0	2091	7.1	.910*	2.0		1901	28			
2471.0 - 2472.0	2130	3.9	.910*	1.9		1939	16			

Remarks: (1) Assumed as one.

* Insufficient oil for analysis; computer automatically inserts .910.

Signed

Date

Oil Shale Assay Report

Date December 13, 1974

Source _____

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Insufficient oil for analysis; computer automatically inserts .910.

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Date _____

THE OIL SHALE CORPORATION
ROCKY FLATS RESEARCH CENTER

Core Utah Shell Core Hole 14x-34Date December 13, 1974Source Duplicate Assays

Oil Shale Assay Report

Core Depth	Fischer Assay No.	Oil Yield		Water Yield		Residue lbs/ton	Gas + Loss lbs/ton	Na wt. %	Al ₂ O ₃ wt. %	
		gal/ton	S. G.	gal/ton	S. G.					
1939.0 - 1940.0	1529	4.0	.910*	19.2	(1)	1376	433			
" "	3019	7.0	.922	16.7		1415	392			
1940.0 - 1941.0	1530	27.2	.915	3.0		1851	-83			
" "	3213	8.0	.927	3.4		1786	124			
1941.0 - 1942.0	1571	8.6	.921	0.7		1909	19			
" "	3214	8.7	.918	0.6		1910	19			
1942.0 - 1943.0	1538	7.9	.923	4.5		1784	116			
" "	3215	7.0	.919	4.4		1774	136			
2065.0 - 2066.0	1679	23.2	.909	1.2		1824	-9			
" "	3216	18.3	.907	1.2		1823	28			
2147.0 - 2148.0	1943	10.6	.917	1.0		1891	28			
" "	1901	14.1	.908	0.8		1883	4			
2419.0 - 2420.0	2025	2.5	.910*	3.8		1949	-0			
" "	3217	0.6	.910*	4.3		1946	14			
2471.0 - 2472.0	2092	3.6	.910*	1.6		1938	22			
" "	2130	3.9	.910*	1.9		1939	16			

Remarks: (1) Assumed as one.

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Insufficient oil for analysis; computer automatically inserts .910.

Signed

Date



THE OIL SHALE CORPORATION
ROCKY FLATS RESEARCH CENTER

Oil Shale Assay Report

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Sample Shell 14X-34
Date June 12, 1974
Source _____

TABLE 3

Page 1 of 7

Sample	Fischer Assay No.	Oil Yield		Water Yield		Residue lbs/ton	Gas + Loss lbs/ton	Na wt. %	Al ₂ O ₃ wt. %	
		gal/ton	S.G.	gal/ton	S.G.					
2250 - 2251	1731	4.4	.9084	1.4	(1)	1940	16			
2251 - 2252	1732	5.0	.9015	1.5		1934	16			
2252 - 2253	1733	12.4	.9029	1.5		1872	22			
2253 - 2254	1734	15.2	.9002	1.2		1852	24			
2254 - 2255	1735	29.2	.8998	1.9		1717	47			
2255 - 2256	1736	31.7	.8996	1.4		1708	42			
2256 - 2257	1737	21.2	.8973	1.0		1806	27			
2257 - 2258	1738	15.8	.8996	1.0		1849	24			
2258 - 2259	1739	13.6	.9051	0.9		1868	21			
2259 - 2260	1740	20.6	.9010	0.9		1811	26			
2260 - 2261	1741	25.5	.9050	1.4		1756	39			
2261 - 2262	1742	29.7	.9060	1.2		1727	39			
2262 - 2263	(2)	41.3	.8429	1.4		1632	49			
2263 - 2264	(2)	39.7	.9024	2.0		1627	59			
2264 - 2265	(2)	37.8	.8897	1.0		1675	37			
2265 - 2266	1746	27.5	.8893	0.7		1756	34			
2266 - 2267	1748	20.0	.8946	1.2		1813	29			
2267 - 2268	1749	20.7	.9015	1.2		1806	28			
2268 - 2269	1750	11.7	.9055	0.7		1883	23			
2269 - 2270	1751	16.3	.9054	0.9		1844	25			

Remarks: (1) Assumed as one.

(2) Average of duplicate analyses.

Signed

Date

[Signature]
6-16-74

THE OIL SHALE CORPORATION
ROCKY FLATS RESEARCH CENTERSample Shell 14X-34Date June 12, 1974

Source _____

Oil Shale Assay Report

TABLE 3

Page 2 of 7

Sample	Fischer Assay No.	Oil Yield		Water Yield		Residue lbs/ton	Gas + Loss lbs/ton	Na wt. %	Al ₂ O ₃ wt. %	
		gal/ton	S.G.	gal/ton	S.G.					
2270 - 2271	1752	23.3	.9010	1.1	(1)	1785	30			
2271 - 2272	1753	15.9	.9036	0.9		1850	23			
2272 - 2273	1754	10.1	.9068	0.7		1896	22			
2273 - 2274	1755	11.4	.9073	0.9		1885	21			
2274 - 2275	1756	11.9	.8954	0.8		1882	22			
2275 - 2276	1757	9.7	.8954	0.9		1900	19			
2276 - 2277	1758	9.1	.8904	0.9		1906	19			
2277 - 2278	1759	10.0	.8904	0.5		1905	16			
2278 - 2279	1784	12.1	.8986	0.7		1883	20			
2279 - 2280	MISSING	} See ^M CSRF								
2280 - 2281	MISSING									
2281 - 2282	MISSING									
2282 - 2283	MISSING									
2283 - 2284	MISSING				P. 15					
2284 - 2285	MISSING									
2285 - 2286	MISSING									
2286 - 2287	MISSING									
2287 - 2288	MISSING									
2288 - 2289	MISSING									
2289 - 2290	(2)	27.0	.9056	1.3		1752	34			

Remarks: (1) Assumed as one.

(2) Average of duplicate analyses.

Signed [Signature]Date 6-26-74



THE OIL SHALE CORPORATION
ROCKY FLATS RESEARCH CENTER

Sample Shell 14X-34
Date June 12, 1974
Source _____

PAGE 23

Oil Shale Assay Report

TABLE 3

Page 3 of 7

Sample	Fischer Assay No.	Oil Yield		Water Yield		Residue lbs/ton	Gas + Loss lbs/ton	Na wt. %	Al ₂ O ₃ wt. %	
		gal/ton	S.G.	gal/ton	S.G.					
2290 - 2291	MISSING									
2291 - 2292	MISSING									
2292 - 2293	1932	28.5	.9119	1.0	(1)	1738	36			
2293 - 2294	1786	36.6	.9052	1.3		1667	46			(
2294 - 2295	1787	31.6	.8928	1.7		1707	44			
2295 - 2296	1788	42.9	.8960	1.3		1614	54			
2296 - 2297	(2)	27.5	.8881	1.2		1755	33			
2297 - 2298	1790	28.9	.8856	1.0		1738	40			
2298 - 2299	1791	35.4	.8930	1.2		1681	45			
2299 - 2300	(2)	26.8	.8934	0.9		1714	80			
2300 - 2301	1793	19.3	.8991	1.1		1820	27			
2301 - 2302	1794	17.6	.8995	0.9		1834	26			
2302 - 2303	1795	28.4	.9017	1.1		1740	38			
2303 - 2304	1796	22.0	.9011	0.8		1796	32			
2304 - 2305	1797	13.7	.8988	0.7		1868	24			(
2305 - 2306	1798	16.9	.8972	0.5		1847	22			
2306 - 2307	(2)	45.4	.8973	1.4		1593	56			
2307 - 2308	1800	35.7	.8883	1.2		1680	45			
2308 - 2309	1801	17.8	.8921	0.7		1839	23			
2309 - 2310	(2)	39.5	.9045	1.3		1644	49			

Remarks: (1) Assumed as one.

(2) Average of duplicate analyses.

Signed

Date

[Signature]
6-16-74



THE OIL SHALE CORPORATION
ROCKY FLATS RESEARCH CENTER

PAGE 24
Sample Shell 14X-34
Date June 12, 1974
Source _____

Oil Shale Assay Report

TABLE 3

Page 4 of 7

Sample	Fischer Assay No.	Oil Yield		Water Yield		Residue lbs/ton	Gas + Loss lbs/ton	Na wt. %	Al ₂ O ₃ wt. %	
		gal/ton	S.G.	gal/ton	S.G.					
2310 - 2311	(2)	40.1	.8827	1.2	(1)	1646	48			
2311 - 2312	1804	28.7	.8893	0.7		1748	33			
2312 - 2313	1805	26.8	.8929	1.0		1758	34			
2313 - 2314	1806	19.3	.9028	0.8		1820	28			(—
2314 - 2315	1807	15.1	.9034	0.8		1858	21			
2315 - 2316	1808	13.9	.9144	0.9		1863	23			
2316 - 2317	1809	24.7	.9087	1.1		1772	32			
2317 - 2318	1810	13.3	.9162	1.0		1861	30			
2318 - 2319	1811	10.7	.9050	1.0		1893	18			
2319 - 2320	1812	6.7	.9144	0.8		1930	12			
2320 - 2321	1813	8.2	.9144	0.7		1920	12			
2321 - 2322	1814	12.9	.8959	1.0		1876	20			
2322 - 2323	1815	5.5	.8960	1.2		1934	15			
2323 - 2324	1816	7.2	.9011	1.3		1920	15			
2324 - 2325	1817	24.9	.9107	1.4		1766	33			(—
2325 - 2326	1818	11.4	.9114	1.2		1880	24			
2326 - 2327	1819	8.4	.9113	1.0		1911	17			
2327 - 2328	2262	7.0	.8906	1.2		1924	14			
2328 - 2329	1821	13.1	.9019	1.0		1871	21			
2329 - 2330	1822	36.7	.9089	1.5		1661	49			

Remarks: (1) Assumed as one.

(2) Average of duplicate analyses.

Signed

Date

L. J. McIlwain
6-26-74



THE OIL SHALE CORPORATION
ROCKY FLATS RESEARCH CENTER

PAGE 28

Sample Shell 14X-34 Duplicate

Date June 12, 1974

Source _____

Oil Shale Assay Report

TABLE 3

Page 6 of 7

Sample	Fischer Assay No.	Oil Yield		Water Yield		Residue lbs/ton	Gas + Loss lbs/ton	Na wt. %	Al ₂ O ₃ wt. %	
		gal/ton	S.G.	gal/ton	S.G.					
2262 - 2263	1743	41.5	.8922	1.4	(1)	1631	48			
" "	2123	41.1	.8936	1.4		1632	50			
2263 - 2264	1744	39.9	.8989	1.6		1625	62			
" "	1929	39.5	.9058	2.4		1629	55			(
2264 - 2265	1745	38.1	.8836	1.0		1674	37			
" "	1930	37.4	.8958	1.0		1676	36			
2289 - 2290	1785	27.2	.9018	1.2		1751	35			
" "	1931	26.9	.9093	1.3		1752	33			
2293 - 2294	1786	36.6	.9052	1.3		1667	46			
" " (2)	1960	36.2	.9179	0.9		1666	49			
2296 - 2297	1789	27.2	.8821	1.3		1754	35			
" "	1935	27.7	.8941	1.0		1755	31			
" " (2)	1961	25.7	.8935	0.9		1753	48			
2299 - 2300	1792	26.6	.8921	1.0		1666	128			
" "	2130	26.9	.8946	0.8		1762	31			(
2306 - 2307	1799	45.6	.8915	1.5		1592	56			
" "	2011	45.2	.9031	1.2		1593	56			
2309 - 2310	1802	39.5	.9082	1.1		1643	49			
" "	1936	39.5	.9008	1.4		1644	48			
" " (2)	1962	39.7	.9004	1.2		1645	48			

Remarks: (1) Assumed as one.

(2) Resampled core.

Signed 

Date 7-9-74

ANALYTICAL LABORATORY REPORT

6412- PRIVATE AND CONFIDENTIAL

Lab. No.	Depth-Ft. Mark	Description	G/T Oil		G/T Water		Specific Gravity		Bulk Density gm/cc											
			Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd
2052	1750	2700		6.26		0.48		0.920				2.55								
2053	1751	2701		4.85		0.64		0.922				2.56								
2054	1752	2702		6.41		0.71		0.917				2.54								
2055	1753	2703		6.74		0.69		0.924				2.54								
2056	1754	2704		8.19		0.88		0.924				2.49								
2057	1755	2705		7.63		0.78		0.918				2.53								
2058	1756	2706		6.09		0.23		0.924				2.53								
2059	1757	2707		6.36		0.86		0.924				2.55								
2060	1758	2708		6.10		0.97		0.920				2.54								
2061	1759	2709		5.76		0.50		0.919				2.54								
2062	1760	2710		5.97		0.75		0.916				2.55								
2063	1761	2711		8.53		1.03		0.922				2.51								
2064	1762	2712		6.86		1.06		0.925				2.52								
2065	1763	2713		7.30		0.56		0.921				2.53								
2066	1764	2714		6.56		0.69		0.920				2.54								
2067	1765	2715		7.15		0.77		0.921				2.54								
2068	1766	2716		8.04		0.68		0.928				2.53								
2069	1767	2717		7.94		0.70		0.922				2.52								
2070	1768	2718		7.93		0.89		0.926				2.54								
2071	1769	2719		5.86		0.65		0.925				2.56								
2072	1770	2720		5.26		0.58		0.918				2.57								
2073	1771	2721		6.22		0.35		0.917				2.53								
2074	1772	2722		4.79		0.51		0.919				2.52								
2075	1773	2723		4.11		0.82		0.911 *				2.55								
2076	1774	2724		3.23		0.84		0.911 *				2.55								

marks * Specific gravity calculated from average of group.

ANALYTICAL LABORATORY REPORT

6412- PRIVATE AND CONFIDENTIAL

Lab. No.	Box	Description	G/T		G/T Water		Specific Gravity		Bulk Density gm/cc											
			Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	F
2077	1775	2725		4.01		0.23		0.911	*		2.58									
2078	1776	2726		17.7		0.82		0.905			2.31									
2079	1777	2727		15.6		1.03		0.907			2.30									
2080	1778	2728		8.53		0.58		0.930			2.51									
2081	1779	2729		6.44		0.83		0.921			2.52									
2082	1780	2730		6.56		0.98		0.917			2.50									
2083	1781	2731		6.77		0.66		0.911			2.50									
2084	1782	2732		6.87		0.55		0.912			2.49									
2085	1783	2733		8.05		0.85		0.920			2.51									
2086	1784	2734		25.9		0.76		0.899			2.17									
2087	1785	2735		24.0		0.72		0.904			2.19									
2088	1786	2736		15.0		0.91		0.912			2.37									
2089	1787	2737		9.11		0.83		0.914			2.49									
2090	1788	2738		14.1		1.01		0.905			2.33									
2091	1789	2739		7.16		0.82		0.920			2.54									
2092	1790	2740		4.63		0.65		0.919			2.58									
2093	1791	2741		5.73		1.04		0.911	*		2.47									
2094	1792	2742		26.9		1.07		0.914			2.19									
2095	1793	2743		23.3		0.82		0.907			2.29									
2096	1794	2744		12.8		0.78		0.919			2.43									
2097	1795	2745		8.48		0.69		0.920			2.51									
2098	1796	2746		6.89		0.50		0.917			2.53									
2099	1797	2747		6.81		0.52		0.915			2.54									
2100	1798	2748		11.6		0.60		0.907			2.55									
2101	1799	2749		15.4		0.80		0.901			2.22									

Specific gravity calculated from average of group.

ANALYTICAL LABORATORY REPORT
PRIVATE AND CONFIDENTIAL

Sponsor: Shell Oil Company

Core Hole 14X-34, U.S.

Lab. No.	Depth - Ft.	Sample No.	Description	G/T Oil		G/T Water		Specific Gravity		Bulk Density gm/cc									
				Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	F
2102		1800	2750		15.5		0.64		0.908			2.34	Dawsonite						
2103		1801	2751		21.7		1.00		0.910			2.25							
2104		1802	2752		13.3		0.83		0.906			2.36							
2105		1803	2753		4.63		14.7		0.911 *			2.26							
2106		1804	2754		14.6		2.26		0.899			2.33							
2107		1805	2755		13.7		3.19		0.917			2.32							
2108		1806	2756		9.67		0.46		0.912			2.51							
2109		1807	2757		3.55		14.5		0.911 *			2.27							
2110		1809	2759		13.9		4.93		0.907			2.21							
2111		1810	2760		7.09		0.52		0.911 *			2.53							
2112		1811	2761		6.93		0.21		0.904			2.52							
2113		1812	2762		21.0		0.43		0.907			2.25							
2114		1813	2763		18.1		4.14		0.902			2.19							
2115		1814	2764		22.8		0.72		0.895			2.21							
2116		1815	2765		21.3		0.76		0.898			2.22							
2117		1816	2766		20.2		0.57		0.904			2.30							
2118		1817	2767		10.2		10.7		0.909			2.23							
2119		1818	2768		8.00		0.77		0.920			2.52							
2120		1819	2769		7.72		0.67		0.916			2.51							
2121		1820	2770		7.18		0.43		0.909			2.47							
2122		1821	2771		6.74		0.59		0.912			2.54							
2123		1822	2772		7.33		0.60		0.907			2.46							
2124		1823	2773		6.14		0.47		0.913			2.49							
2125		1824	2774		6.02		0.40		0.909			2.46							
2126		1825	2775		5.29		0.53		0.908			2.44							

Specific gravity calculated from average of group.

COLORADO SCHOOL OF MINES RESEARCH FOUNDATION

Lab Group Num' 649-64 Project Engineer: W. H. Rees

PAGE NO. 4 Golden, Colorado

Project Number: 840704 Date Submitted: December 16, 1964

ANALYTICAL LABORATORY REPORT
PRIVATE AND CONFIDENTIAL

Sponsor: Shell Oil Company Core Hole 14X-34, Utah

Lab No	Depth-Ft Sample No	Description	G/T Oil		G/T Water		Specific Gravity		Bulk Density gm/cc											
			Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd
2127	1826	2776		4.40		0.55		0.903			2.44									
2128	1827	2777		7.06		0.59		0.905			2.49									
2129	1828	2778		6.35		0.47		0.904			2.48									
2130	1829	2779		8.94		0.22		0.903			2.48									
2131	1830	2780		42.6		0.95		0.903			1.93									
2132	1890	2840		8.19		0.54		0.916			2.38									
2133	1891	2841		8.09		0.42		0.917			2.46									
2134	1892	2842		10.5		0.39		0.924			2.47									
2135	1893	2843		10.2		0.39		0.914			2.48									
2136	1894	2844		13.7		0.56		0.920			2.40									
2137	1895	2845		16.2		0.48		0.920			2.36									
2138	1896	2846		4.31		18.0		0.911 *			2.21									
2139	1897	2847		10.9		0.33		0.919			2.45									
2140	1898	2848		5.92		1.18		0.923			2.34									
2141	1899	2849		1.28		1.42		0.923 *			2.31									
2142	1900	2850		3.56		0.91		0.923 *			2.27									
2143	1901	2851		7.26		0.59		0.920			2.50									
2144	1902	2852		3.53		1.84		0.923 *			2.44									
2145	1903	2853		11.0		0.31		0.915			2.47									
2146	1904	2854		13.2		2.15		0.909			2.41									
2147	1905	2855		12.4		1.02		0.919			2.44									
2148	1906	2856		11.7		0.41		0.919			2.45									
2149	1907	2857		11.9		0.47		0.921			2.45									
2150	1908	2858		11.5		0.60		0.918			2.45									
2151	1909	2859		10.4		0.68		0.918			2.45									

* Specific gravity calculated from average of group.

COLORADO SCHOOL OF MINES RESEARCH FOUNDATION
 PAGE NO. 5 Golden, Colorado
 ANALYTICAL LABORATORY REPORT
 6412- PRIVATE AND CONFIDENTIAL

Lab Group Num 649-64 Project Engineer: W. H. Rees
 Project Number: 840704 Date Submitted: December 16, 1964
 Sponsor: Shell Oil Company Core Hole 14X-34, Utah

Lab. No.	Depth-Ft Samp. No.	Description	G/T Oil		G/T Water		Specific Gravity		Bulk Density gm/cc											
			Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd
2152	1910	2860		11.3		0.88		0.923			2.45									
2153	1911	2861		8.60		3.57		0.925			2.41									
2154	1912	2862		9.85		1.01		0.924			2.38									
2155	1913	2863		8.79		0.45		0.913			2.45									
2156	1914	2864		Trace		20.9		0.923	*		2.23									
2157	1915	2865		9.92		7.28		0.944			2.32		Some Dawsonite							
2158	1916	2866		Trace		22.2		0.923	*		2.21		Dawsonite							
2159	1920	2867		7.66		9.45		0.950			2.30		See Tosco p 2-1							
2160	1947	2897		6.81		0.52		0.923	*		2.52									
2161	1948	2898		7.92		0.38		0.921			2.53									
2162	1949	2899		9.27		0.65		0.916			2.48									
2163	1950	2900		8.06		0.48		0.924			2.53									
2164	1951	2901		11.2		0.53		0.911			2.42									
2165	1952	2902		14.6		0.39		0.898			2.35									
2166	1953	2903		7.63		0.46		0.909			2.53									
2167	1954	2904		8.17		0.39		0.907			2.47									
2168	1955	2905		7.69		0.46		0.906			2.46									
2169	1956	2906		8.71		0.63		0.911			2.49									
2170	1957	2907		6.92		0.47		0.919			2.54									
2171	1958	2908		6.90		2.19		0.927			2.48									
2172	1959	2909		6.62		0.62		0.913			2.54									
2173	1960	2910		16.5		0.72		0.913			2.36		See Tosco p. 2-14							
2174	2355	2116		1.70		0.66		0.913	*		2.51									
2175	2356	2117		1.90		0.63		0.913	*		2.54									
2176	2357	2118		2.97		0.71		0.913	*		2.55									

Remarks * Specific gravity calculated from average of group. 23 of 27

COLORADO SCHOOL OF MINES RESEARCH FOUNDATION

Lab Group Number: 343-64

Core Hole 14X-34, Utah

PAGE NO. 1 GOLDEN, COLORADO

Project Number: 840704

Project Engineer: W. H. Reeves

ANALYTICAL LABORATORY REPORT

Sponsor: Shell Oil Company

Date Submitted: September 10, 1964

649-

Lab. No.	Depth-Ft Sample No.	Description	G/T Oil		G/T Water		Specific Gravity		Bulk Density gm/cc											
			Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd
239	2320	2081		7.87		0.20		0.878				2.48								
240	2321	2082		14.0		0.86		0.882				2.40								
241	2322	2083		4.44		1.04		0.886 *				2.43								
242	2323	2084		6.18		1.12		0.871				2.49								
243	2324	2085		29.2		0.71		0.893				2.13								
244	2325	2086		12.4		0.80		0.899				2.40								
245	2326	2087		7.04		0.77		0.878				2.47								
246	2327	2088		7.45		0.40		0.866				2.49								
247	2328	2089		10.5		0.61		0.912				2.43								
248	2329	2090		34.2		0.80		0.900				2.08								
249	2330	2091		24.0		0.71		0.904				2.23								
250	2331	2092	/	7.86		0.36		0.886				2.53								
251	2332	2093		2.48		2.22		0.886 *				2.57								
252	2333	2094		2.01		1.42		0.886 *				2.63								
253	2334	2095		1.85		1.64		0.886 *				2.65								
254	2335	2096		2.88		3.67		0.886 *				2.54								
255	2336	2097		3.37		1.70		0.886 *				2.59								
256	2337	2098		19.2		0.88		0.907				2.28								
257	2338	2099		26.9		1.47		0.904				2.12								
258	2339	2100		16.3		1.02		0.908				2.31								
259	2340	2101		11.7		0.91		0.901				2.41								
260	2341	2102		13.6		1.03		0.911				2.39								
261	2342	2103		5.75		1.58		0.907				2.48								
262	2343	2104		7.15		0.83		0.891				2.50								
263	2344	2105		6.20		5.32		0.890				2.54								

* Specific gravity calculated from average of group.

COLORADO SCHOOL OF MINES RESEARCH FOUNDATION

Lab Group Number: 343-64

Core Hole 14X-34, Utah

PAGE NO. 2 GOLDEN, COLORADO

Project Number: 840704

Project Engineer: W. H. Reeves

ANALYTICAL LABORATORY REPORT

Sponsor: Shell Oil Company

Date Submitted: September 10, 1964

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[illegible]

* Specific gravity calculated from average of group.

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September 11, 1964

COLORADO SCHOOL OF MINES RESEARCH FOUNDATION

Lab Group Number: 350-64

Core Hole 14X-34, Utah

PAGE NO. 1 GOLDEN, COLORADO

Project Number: 840704

Project Engineer: W. H. Reeves

ANALYTICAL LABORATORY REPORT

Sponsor: Shell Oil Company

Date Submitted: September 14, 1964

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[illegible]

See CGMRF p.5

* Specific gravity calculated from average of group.

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September 14, 1964

COLORADO SCHOOL OF MINES RESEARCH FOUNDATION
PAGE NO. 6 Golden, Colorado

Lab Group Number: 649-64
Project Number: 840704
Sponsor: Shell Oil Company
Project Engineer: W. H. Reeves
Date Submitted: December 10, 1964
Core Hole 14X-34, Utah

ANALYTICAL LABORATORY REPORT
6412- PRIVATE AND CONFIDENTIAL

CONFIDENTIAL AND PROPRIETARY																					
Lab. No.	Depth-Ft Sample No.	Description	G/T Oil		G/T Water		Specific Gravity		Bulk Density gm/cc												
			Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd			
2177	2358	2119		6.90		2.22		0.914				2.50									
2178	2359	2120		5.16		2.21		0.912				2.51									
2179	2360	2121		4.76		2.45		0.909				2.53			See Test p. 14-17						
2179A	2430	2191		2.39		2.03		0.913	*			2.54									
2180	2431	2192		3.59		1.64		0.913	*			2.53									
2181	2432	2193		4.90		1.36		0.913	*			2.56									
2182	2433	2194		2.68		1.88		0.900	*			2.59									
2183	2434	2195		2.05		1.84		0.900	*			2.62									
2184	2435	2196		8.26		1.64		0.909				2.52									
2185	2436	2197		21.0		1.80		0.904				2.27									
2186	2437	2198		48.4		2.12		0.909				1.86									
2187	2438	2199		14.2		0.75		0.900				2.38									
2188	2439	2200		11.3		1.11		0.903				2.34									
2189	2440	2201		23.2		1.60		0.896				2.22									
2190	2441	2202		46.6		1.04		0.896				1.92									
2191	2442	2203		22.0		0.93		0.891				2.27									
2192	2443	2204		12.1		0.91		0.888				2.35									
2193	2444	2205		12.4		1.06		0.899				2.44									
2194	2445	2206		20.9		1.08		0.898				2.56									
2195	2446	2207		13.0		1.41		0.899				2.41									
2196	2447	2208		2.56		0.96		0.900	*			2.59									
2197	2448	2209		2.02		1.32		0.900	*			2.58									
2198	2449	2210		5.25		1.19		0.908				2.55									
2199	2450	2211		11.6		1.19		0.902				2.44									
2200	2451	2212		13.5		1.27		0.900				2.41									
2201	2452	2213		10.8		0.96		0.905				2.45									

See Tesco p. 14-17

See Tesco p. 18-19

Remarks * Specific gravity calculated from average of group.

COLORADO SCHOOL OF MINES RESEARCH FOUNDATION

Lab Group Number 649-64

Project Engineer: W. H. Reeves

PAGE NO. 7 Golden, Colorado

Project Number: 840704

Date Submitted: December 10, 1964

ANALYTICAL LABORATORY REPORT

Sponsor: Shell Oil Company

Core Hole 14X-34, Utah

6412- PRIVATE AND CONFIDENTIAL

Lab. No.	Depth-Ft Samp. No.	Description	G/T Oil		G/T Water		Specific Gravity		Bulk Density gm/cc											
			Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd
2202	2453	2214		18.5		1.44		0.904			2.31									
2203	2454	2215		22.1		1.59		0.895			2.21									
2204	2455	2216		10.4		1.30		0.904			2.48									
2205	2456	2217		13.8		1.25		0.902			2.38									
2206	2457	2218		12.1		1.41		0.897			2.42									
2207	2458	2219		11.7		1.51		0.905			2.41									
2208	2459	2220		9.08		1.39		0.903			2.47									
2209	2460	2221		12.7		1.32		0.894			2.41									
2210	2461	2222		31.9		1.79		0.899			2.10									
2211	2462	2223		6.93		0.78		0.891			2.34									
2212	2463	2224		9.04		1.26		0.906			2.48									
2213	2464	2225		7.72		1.24		0.907			2.49									
2214	2465	2226		12.1		1.56		0.908			2.42									
2215	2466	2227		23.8		1.34		0.902			2.22									
2216	2467	2228		41.3		0.86		0.901			1.99									
2217	2468	2229		22.2		1.48		0.901			2.24									
2218	2469	2230		29.6		1.21		0.913			2.13									
2219	2470	2231		28.6		2.62		0.915			2.01									
2220	2471	2232		6.27		1.50		0.908			2.46									
2221	2472	2233		2.69		2.22		0.905 *			2.55									
2222	2473	2234		4.37		1.78		0.912			2.49									
2223	2474	2235		4.23		1.91		0.905 *			2.47									
2224	2475	2236		5.55		1.31		0.911			2.46									
2225	2476	2237		15.2		1.43		0.918			2.36									
2226	2477	2238		29.6		2.28		0.919			2.10									

No Poor

CORRELATION

BETWEEN

TOSCO + CSMRF SHALE

GIL DATA FOR INTERVAL

2453-2474.5

See Tosco p. 19

Remarks * Specific gravity calculated from average of group.

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Supervisor

Date Reported

January 6, 1965

ANALYTICAL LABORATORY REPORT
6412- PRIVATE AND CONFIDENTIAL

Lab Group Number 649-64

Project Number: 840704

Sponsor: Shell Oil Company

Project Engineer: W. H. Reeves

Date Submitted: December 16, 1964

Core Hole 14X-34, Utah

Lab. No.	Depth-Ft Samp. No.	Description	G/T Oil		G/T Water		Specific Gravity		Bulk Density gm/cc									
			Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd
2227	2478	2239		23.5		2.33		0.908			2.17							
2228	2479	2240		19.0		2.70		0.890			2.28							
2229	2480	2241		22.4		2.19		0.892			2.22							
2230	2481	2242		10.3		1.90		0.887			2.40							
2231	2482	2243		13.1		0.77		0.892			2.38							
2232	2483	2244		17.7		1.38		0.905			2.31							
2233	2484	2245		24.2		1.67		0.911			2.17							
2234	2485	2246		4.68		0.60		0.901 *			2.41							
2235	2486	2247		8.60		2.17		0.906			2.39							
2236	2487	2248		4.59		0.30		0.901 *			2.32							
2237	2488	2249		7.20		0.24		0.905			2.34							
2238	2489	2250		13.7		1.33		0.900			2.32							
2239	2490	2251		27.5		2.90		0.906			2.10							
2240	2491	2252		13.8		2.88		0.897			2.31							
2241	2492	2253		11.8		3.11		0.903			2.34							
2242	2493	2254		31.2		1.80		0.901 *			2.08							
2243	2494	2255		8.49		2.71		0.901			2.44							
2244	2495	2256		5.42		2.71		0.901 *			2.50							
2245	2496	2257		3.89		2.41		0.901 *			2.49							
2246	2497	2258		1.53		4.19		0.901 *			2.49							
2247	2498	2259		1.95		4.00		0.901 *			2.46							
2248	2499	2260		2.21		4.97		0.901 *			2.45							
2249	2500	2261		1.97		3.95		0.901 *			2.47							
2250	2501	2262		2.18		3.92		0.901 *			2.49							
2251	2502	2263		2.88		3.54		0.901 *			2.45							

Remarks * Specific gravity calculated from average of group.

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COLORADO SCHOOL OF MINES RESEARCH FOUNDATION

Lab Group Number 649-64

Project Engineer: W. H. Reeves

PAGE NO. 9 Golden, Colorado

Project Number:.....840704

Date Submitted: December 10, 1964

ANALYTICAL LABORATORY REPORT

Sponsor: Shell Oil Company

Core Hole 14X-34, Utah

6412- ANALYTICAL LABORATORY
PRIVATE AND CONFIDENTIAL

[illegible]

Remarks * Specific gravity calculated from average of group.

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Date Reported: January 6, 1965

COLORADO SCHOOL OF MINES RESEARCH FOUNDATION
PAGE NO. 1 GOLDEN, COLORADO 27 PAGES

Lab Group Number: 335-64

Core Hole 14X-34 UC203
Section 34-9S-31E, Uintah County, Utah
Project Engineer: W. H. Reeves

Project Number: 840704

Date Submitted: September 8, 1964

ANALYTICAL LABORATORY REPORT
649- PRIVATE AND CONFIDENTIAL

Sponsor: Shell Oil Company

Lab. No.	Depth-Ft Sample No.	Description	G/T Oil		G/T Water		Specific Gravity		Bulk Density gm/cc											
			Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd
93	2240	2001		6.78		1.38		0.906				2.46								
94	2241	2002		8.38		0.33		0.900				2.42								
95	2242	2003		8.06		0.66		0.898				2.39								
96	2243	2004		7.74		0.44		0.896				2.38								
97	2244	2005		13.2		0.35		0.898				2.40								
98	2245	2006		7.47		0.22		0.904				2.48								
99	2246	2007		5.45		0.42		0.907				2.58								
100	2247	2008		5.02		0.50		0.899				2.54								
101	2248	2009		4.87		0.82		0.908				2.53								
102	2249	2010		4.70		0.60		0.905				2.51								
103	2250	2011		3.52		0.88		0.905				2.52								
104	2251	2012		3.40		0.58		0.903	*			2.54								
105	2252	2013		14.6		0.86		0.903				2.38								
106	2253	2014		16.5		0.66		0.900				2.38								
107	2254	2015		25.6		1.26		0.902				2.20								
108	2255	2016		35.1		0.81		0.895				2.09								
109	2256	2017		20.0		0.85		0.898				2.25								
110	2257	2018		15.8		0.69		0.904				2.36								
111	2258	2019		11.5		0.50		0.898				2.40								
112	2259	2020		20.6		0.53		0.895				2.22								
113	2260	2021		27.1		0.99		0.903				2.13								
114	2261	2022		29.4		0.73		0.902				2.13								
115	2262	2023		37.3		0.82		0.900				2.01								
116	2263	2024		44.8		0.90		0.893				1.91								
117	2264	2025		40.4		0.56		0.884				1.99								

See Toxco p 21-22

Raw oil bleeding

Raw oil bleeding

Tar

Remarks * Specific gravity calculated from average of group.

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September 9, 1964

COLORADO SCHOOL OF MINES RESEARCH FOUNDATION

Lab Group Number: 335-64

Core Hole 14X-34, Utah

PAGE NO. 2 GOLDEN, COLORADO

Project Number: 840704

Project Engineer: W. H. Reeves

ANALYTICAL LABORATORY REPORT

Sponsor: Shell Oil Company

Date Submitted: September 8, 1964

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[illegible]

Remarks

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September 9, 1964

COLORADO SCHOOL OF MINES RESEARCH FOUNDATION
PAGE NO. 1 GOLDEN, COLORADO

Lab Group Number: 339-64 Core Hole 14X-34, Utah
Project Number: 840704 Project Engineer: W. H. Reeves
Sponsor: Shell Oil Company Date Submitted: September 10, 1964

ANALYTICAL LABORATORY REPORT
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Lab. No.	Depth-Ft Sample No.	Description	G/T Oil		G/T Water		Specific Gravity		Bulk Density gm/cc											
			Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd
164	2277	2038		9.15		0.28		0.890			2.44									
165	2278	2039		11.2		0.42		0.893			2.39									
166	2279	2040		35.4		0.87		0.906			2.01									
167	2280	2041		44.5		1.20		0.905			1.82									
168	2281	2042		23.3		0.51		0.890			2.22									
169	2282	2043		24.4		0.69		0.888			2.19									
170	2283	2044		18.6		0.70		0.891			2.25									
171	2284	2045		20.0		0.77		0.896			2.24									
172	2285	2046		35.4		0.73		0.901			2.03									
173	2286	2047		45.8		0.69		0.900			2.19									
174	2287	2048		41.6		0.52		0.904			1.95									
175	2288	2049		73.4		1.46		0.900			1.60		See Tosco p. 22-25							
176	2289	2050		57.1		3.68		0.898			1.65									
183	2290	2051		50.1		1.67		0.885			1.87									
184	2291	2052		44.9		1.13		0.904			1.82									
185	2292	2053		5.09		1.90		0.931			2.23									
186	2293	2054		41.6		0.55		0.898			1.97									
187	2294	2055		47.3		0.60		0.898			1.92									
188	2295	2056		44.3		0.50		0.885			1.88									
189	2296	2057		34.0		1.09		0.886			2.06									
190	2297	2058		26.2		0.54		0.880			2.17									
191	2298	2059		36.2		0.86		0.889			2.06									
192	2299	2060		22.5		0.62		0.896			2.27									
193	2300	2061		16.4		0.52		0.890			2.32									
194	2301	2062		19.1		0.82		0.891			2.30									

Remarks

COLORADO SCHOOL OF MINES RESEARCH FOUNDATION

Lab Group Number: 339-64

Core Hole 14X-34, Utah

PAGE NO. 2 GOLDEN, COLORADO

Project Number: 840704

Project Engineer: W. H. Reeves

ANALYTICAL LABORATORY REPORT

Sponsor: Shell Oil Company

Date Submitted: September 10, 1964

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[illegible]

Remarks

September 11, 1964

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