



THE OIL SHALE CORPORATION
ROCKY FLATS RESEARCH CENTER

Oil Shale Assay Report

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Sample Utah State No. 1
Date June 17, 1974
Source _____

Sample	Fischer Assay No.	Oil Yield		Water Yield		Residue lbs/ton	Gas + Loss lbs/ton	Na (2) wt. %	Al ₂ O ₃ wt. %	
		gal/ton	S.G.	gal/ton	S.G.					
1570 - 1572	2059	6.2	.9399	0.7	(1)	1932	14	0.06		
1572 - 1574	2060	5.9	.9370	0.7		1934	13	0.06		
1574 - 1576	2061	3.5	.9108	0.8		1934	33	0.08		
1576 - 1578	2062	6.5	.9411	0.9		1927	15	0.06		
1578 - 1580	2063	6.5	.9415	0.7		1928	14	0.05		
1580 - 1582	2064	6.0	.9448	0.7		1933	14	0.06		
1582 - 1584	2065	6.5	.9448	0.8		1927	15	0.05		
1584 - 1586	2066	6.5	.9534	1.0		1925	15	0.06		
1586 - 1588	2143	6.5	.9122	0.8		1930	14	0.06		
1588 - 1590	2144	3.9	.9100	0.9		1942	15	0.26		
1590 - 1592	2071	4.4	.9163	0.6		1951	10	0.14		
1592 - 1594	2056	6.4	.9198	0.8		1930	14	0.08		
1594 - 1596	2057	5.8	.9361	1.0		1933	14	0.06		
1596 - 1598	2058	5.8	.9361	1.0		1933	14	0.07		
1598 - 1600	2067	7.3	.9139	0.7		1926	12	0.07		
1600 - 1602	2068	8.4	.8959	0.8		1917	14	0.11		
1602 - 1604	2069	7.3	.8959	0.9		1925	13	0.10		
1604 - 1606	2070	4.7	.9050	0.8		1948	11	0.12		
1606 - 1608	2145	7.2	.9040	0.5		1930	12	0.09		
1608 - 1610	2146	2.6	.9100	0.6		1962	10	0.09		

Remarks: (1) Assumed as one.

(2) Water soluble.

Signed

Date

RC Haas
(Signature)
June 20, 1974



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Date June 17, 1974
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Sample	Fischer Assay No.	Oil Yield		Water Yield		Residue lbs/ton	Gas + Loss lbs/ton	Na (2) wt. %	Al ₂ O ₃ wt. %	
		gal/ton	S.G.	gal/ton	S.G.					
1610 - 1612	2147	2.7	.9284	0.9	(1)	1961	11	0.18		
1612 - 1614	2148	3.2	.9100	0.7		1951	15	0.17		
1614 - 1616	2149	2.2	.9100	1.0		1957	15	0.20		
1616 - 1618	2150	2.3	.9100	0.9		1956	16	0.17		
1618 - 1620	2151	5.2	.9373	0.7		1941	12	0.18		
1620 - 1622	2152	5.2	.9100	0.8		1924	22	0.34		
1622 - 1624	2153	6.5	.9347	0.7		1929	14	0.07		
1624 - 1626	2154	5.5	.9100	0.6		1930	15	0.12		
1626 - 1628	2155	5.7	.9414	1.0		1928	18	0.41		
1628 - 1630	2156	3.4	.9100	0.8		1949	19	0.22		
1630 - 1632	2157	3.4	.9100	0.7		1951	18	0.20		
1632 - 1634	2158	2.7	.9100	0.9		1959	14	0.34		
1634 - 1636	2159	2.4	.9235	1.0		1947	27	0.22		
1636 - 1638	2160	3.0	.9100	0.8		1948	22	0.55		
1638 - 1640	2161	6.5	.9100	0.7		1931	13	0.15		
1640 - 1642	2162	8.0	.9003	0.8		1918	16	0.19		
1642 - 1644	2163	6.9	.9263	0.9		1924	16	0.32		
1644 - 1646	2164	5.9	.9291	0.8		1924	24	0.60		
1646 - 1648	2165	4.1	.9344	0.7		1952	10	0.13		
1648 - 1650	2166	5.4	.9100	1.3		1925	23	0.54		

Remarks: (1) Assumed as one.

(2) Water soluble.

Signed

Date

J. J. Hays
John Hays
June 20, 1974



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Date June 17, 1974
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Sample	Fischer Assay No.	Oil Yield		Water Yield		Residue lbs/ton	Gas + Loss lbs/ton	Na (2) wt. %	Al ₂ O ₃ wt. %	
		gal/ton	S.G.	gal/ton	S.G.					
1650 - 1652	2167	4.2	.9414	0.8	(1)	1949	12	0.12		
1652 - 1654	2168	4.7	.9100	0.8		1944	14	0.14		
1654 - 1656	2169	6.5	.9383	0.9		1926	15	0.05		
1656 - 1658	2170	7.3	.9344	0.7		1921	16	0.10		
1658 - 1660	2171	6.3	.9383	1.0		1927	15	0.06		
1660 - 1661	2172	4.8	.9230	0.6		1945	13	0.09		
1661 - 1662	2173	6.0	.9100	6.0		1864	41	6.32		
1662 - 1663	2174	7.6	.9116	1.9		1878	49	1.50		
1663 - 1664	2175	7.2	.9137	1.2		1915	20	0.28		
1664 - 1665	2176	4.7	.9355	0.7		1945	12	0.08		
1665 - 1666	2177	4.9	.9100	0.7		1943	13	0.12		
1666 - 1667	2178	6.2	.9100	0.8		1931	15	0.12		
1667 - 1668	2179	7.3	.9380	0.7		1925	12	0.08		
1668 - 1669	2180	5.4	.9266	3.1		1919	13	0.10		
1669 - 1670	2181	11.1	.9100	1.6		1794	108	3.69		
1670 - 1671	2182	7.3	.9100	0.7		1926	12	0.14		
1671 - 1672	2183	6.4	.9228	1.4		1911	28	0.89		
1672 - 1673	2184	5.7	.9100	2.4		1881	56	2.17		
1673 - 1674	2227	5.3	.9342	0.7		1939	14	0.21		
1674 - 1675	2186	5.7	.9317	0.8		1935	14	0.09		

Remarks: (1) Assumed as one.

(2) Water soluble.

Signed

Date

[Signature]
[Signature]
June 30, 1974



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Sample Utah State No. 1
Date June 17, 1974
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Sample	Fischer Assay No.	Oil Yield		Water Yield		Residue lbs/ton	Gas + Loss lbs/ton	Na (2) wt. %	Al ₂ O ₃ wt. %	
		gal/ton	S.G.	gal/ton	S.G.					
1675 - 1676	2187	6.1	.9100	0.6	(1)	1937	13	0.07		
1676 - 1677	2188	7.3	.9100	1.9		1874	55	1.70		
1677 - 1678	2189	3.9	.9100	0.7		1929	35	0.13		
1678 - 1679	2190	7.0	.9141	0.7		1919	21	0.36		
1679 - 1680	2191	12.0	.9157	3.1		1746	137	3.76		
1680 - 1681	2192	5.8	.9157	0.7		1932	18	0.22		
1681 - 1682	2193	4.7	.9157	0.7		1941	16	0.34		
1682 - 1683	2194	4.2	.9340	0.7		1946	15	0.26		
1683 - 1684	2195	5.7	.9340	0.9		1927	21	0.80		
1684 - 1685	2196	5.9	.9350	0.8		1924	23	0.66		
1685 - 1686	2197	6.6	.9466	8.5		1673	204	7.44		
1686 - 1687	2198	7.2	.9351	4.2		1813	96	3.11		
1687 - 1688	2199	8.6	.9342	0.7		1907	21	0.39		
1688 - 1689	2200	7.9	.9663	2.4		1856	60	2.04		
1689 - 1690	2201	7.9	.9195	0.9		1910	22	0.79		
1690 - 1691	2228	6.4	.9100	1.9		1889	46	1.89		
1691 - 1692	2229	7.8	.9332	3.2		1832	80	1.89		
1692 - 1693	2230	7.1	.9290	0.7		1922	17	0.07		
1693 - 1694	2231	6.4	.9304	0.7		1929	16	0.05		
1694 - 1695	2232	5.3	.9247	0.7		1937	16	0.10		

Remarks: (1) Assumed as one.

(2) Water soluble.

Signed J. S. Hays
Date June 30, 1974



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Sample	Fischer Assay No.	Oil Yield		Water Yield		Residue lbs/ton	Gas + Loss lbs/ton	Na (2) wt. %	Al ₂ O ₃ wt. %	
		gal/ton	S.G.	gal/ton	S.G.					
1695 - 1696	2233	5.4	.9100	0.7	(1)	1939	14	0.10		
1696 - 1697	2234	5.3	.9100	0.6		1939	15	0.08		
1697 - 1698	2235	5.6	.9257	1.0		1923	25	0.47		
1698 - 1699	2236	6.2	.9100	5.7		1766	139	4.00		
1699 - 1700	2237	6.3	.9256	5.4		1778	128	5.52		
1700 - 1701	2238	2.6	(3).9100	1.2		1959	21	1.60		
1701 - 1702	2239	7.7	.9100	0.6		1920	16	0.17		
1702 - 1703	2240	8.3	.9195	0.5		1915	17	0.09		
1703 - 1704	2241	7.8	.9315	6.0		1731	158	6.79		
1704 - 1705	2242	8.2	.9156	0.5		1913	20	0.22		
1705 - 1706	2243	7.2	.9101	0.5		1924	17	0.24		
1706 - 1707	2244	4.6	.9100	7.9		1718	181	8.74		
1707 - 1708	2245	6.0	.9041	1.0		1922	25	0.82		
1708 - 1709	2246	4.8	.9100	8.0		1698	199	9.58		
1709 - 1710	2247	5.6	.9100	2.0		1894	48	2.91		
1710 - 1711	2248	5.5	.8949	2.9		1866	69	3.26		
1711 - 1712	2249	6.5	.9100	1.4		1899	40	2.55		
1712 - 1713	2250	6.7	.9098	1.5		1897	40	2.27		
1713 - 1714	2251	6.8	.8891	0.9		1923	19	1.15		
1714 - 1715	2252	7.1	.8932	0.7		1919	22	0.91		

Remarks: (1) Assumed as one.

(2) Water soluble.

(3) Estimated gravity.

Signed [Signature]
Date June 30, 1974



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Date June 18, 1974
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Sample	Fischer Assay No.	Oil Yield		Water Yield		Residue lbs/ton	Gas + Loss lbs/ton	Na (2) wt. %	Al ₂ O ₃ wt. %	
		gal/ton	S.G.	gal/ton	S.G.					
1715 - 1716	2253	6.7	.8938	1.2	(1)	1909	32	0.70		
1716 - 1717	2254	6.5	.9026	1.7		1890	46	2.27		
1717 - 1718	2255	7.3	.8934	3.3		1837	77	3.35		
1718 - 1719	2256	6.6	.9004	3.0		1857	68	2.64		
1719 - 1720	2257	7.0	.9083	0.7		1917	24	1.41		
1720 - 1721	2258	6.8	.9050	5.7		1773	129	6.09		
1721 - 1722	2259	7.6	.9124	2.3		1863	59	2.26		
1722 - 1723	2260	4.7	.9124	11.2		1606	265	12.7		
1723 - 1724	2261	1.3	.9100	15.8		1544	314	15.2		
1724 - 1725	2265	8.0	.9164	2.6		1843	74	3.25		
1725 - 1726	2266	6.0	.9028	6.9		1739	158	2.20		
1726 - 1727	2267	6.8	.8968	4.1		1811	103	1.41		
1727 - 1728	2268	7.3	.8955	4.1		1806	106	1.21		
1728 - 1729	2269	9.0	.8872	1.1		1902	22	0.37		
1729 - 1730	2270	8.7	.8886	2.0		1869	50	0.84		
1730 - 1731	2682	9.0	.8915	0.7		1906	22	0.46		
1731 - 1732	2683	6.7	.9113	5.0		1777	130	1.86		
1732 - 1733	2684	6.2	.9283	5.0		1775	135	1.00		
1733 - 1734	2274	6.9	.9289	0.5		1923	20	0.62		
1734 - 1735	2275	7.3	.9205	0.7		1919	20	0.71		

Remarks: (1) Assumed as one.

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Signed [Signature]
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Date June 18, 1974
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Sample	Fischer Assay No.	Oil Yield		Water Yield		Residue lbs/ton	Gas + Loss lbs/ton	Na (2) wt. %	Al ₂ O ₃ wt. %	
		gal/ton	S.G.	gal/ton	S.G.					
1735 - 1736	2276	8.2	.9323	0.7	(1)	1910	20	0.58		
1736 - 1737	2277	8.6	.9316	0.6		1907	20	0.34		
1737 - 1738	2278	7.1	.9319	0.9		1917	20	0.31		
1738 - 1739	2279	8.8	.9178	1.1		1902	22	0.58		
1739 - 1740	2280	5.5	.9197	0.8		1927	24	0.64		
1740 - 1740.4	MISSING CORE									
1740.4 - 1741	2281	3.0	.9100	0.7		1956	15	0.71		
1741 - 1742	2282	3.9	.9100	1.0		1944	18	0.52		
1742 - 1743	2283	9.6	.8723	0.9		1907	16	0.27		
1743 - 1744	2284	11.2	.8860	1.1		1889	19	0.39		
1744 - 1745	2285	4.9	.9190	0.8		1939	16	0.66		
1745 - 1746	2286	4.6	.9100	0.9		1944	14	0.71		
1746 - 1747	2287	4.3	.9188	0.8		1945	16	0.93		
1747 - 1748	2288	4.0	.9100	0.8		1949	14	0.98		
1748 - 1749	2289	4.8	.9148	1.5		1927	24	1.07		
1749 - 1750	2290	4.5	.9100	1.4		1931	23	1.00		
1750 - 1751	2291	6.5	.9328	1.2		1918	22	0.24		
1751 - 1752	2292	5.4	.9328	1.2		1925	23	0.40		
1752 - 1753	2293	6.6	.9100	1.2		1919	21	0.34		
1753 - 1754	2294	8.4	.9272	1.2		1901	24	0.88		

Remarks: (1) Assumed as one.

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Signed

Date



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Oil Shale Assay Report

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Sample	Fischer Assay No.	Oil Yield		Water Yield		Residue lbs/ton	Gas + Loss lbs/ton	Na (2) wt. %	Al ₂ O ₃ wt. %	
		gal/ton	S.G.	gal/ton	S.G.					
1754 - 1755	2295	8.8	.9115	1.4	(1)	1897	25	0.65		
1755 - 1756	2296	8.9	.9274	1.1		1897	25	0.69		
1756 - 1757	2310	6.8	.9335	0.9		1918	22	0.65		
1757 - 1758	2311	5.8	.9253	0.9		1928	19	0.71		
1758 - 1759	2312	5.2	.9303	0.9		1934	19	0.83		
1759 - 1760	2313	5.3	.9303	0.8		1934	18	1.05		
1760 - 1761	2314	5.9	.9249	0.9		1928	18	1.14		
1761 - 1762	2315	6.3	.9249	1.2		1915	26	0.48		
1762 - 1763	2316	7.3	.9333	1.4		1898	34	0.45		
1763 - 1764	2317	7.8	.9274	1.3		1908	20	0.12		
1764 - 1765	2318	7.6	.9273	1.3		1908	23	0.15		
1765 - 1766	2319	7.4	.9250	1.3		1911	22	0.13		
1766 - 1767	2320	6.7	.9073	1.4		1911	27	0.37		
1767 - 1768	2321	6.4	.9100	1.2		1922	19	0.24		
1768 - 1769	2322	6.0	.9158	1.0		1928	19	0.52		
1769 - 1770	2323	5.3	.9100	1.0		1934	17	0.85		
1770 - 1771	2324	5.6	.9100	1.3		1926	20	0.54		
1771 - 1772	2325	5.6	.9268	1.4		1924	21	0.35		
1772 - 1773	2326	5.9	.9100	0.7		1930	20	0.40		
1773 - 1774	2327	6.1	.9100	1.0		1926	19	0.26		

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		gal/ton	S. G.	gal/ton	S. G.					
1774 - 1775	2328	7.5	.9268	0.8	(1)	1916	19	0.14		
1775 - 1776	2329	9.2	.9267	1.0		1901	20	0.10		
1776 - 1777	2330	9.3	.9291	1.2		1897	21	0.12		
1777 - 1778	2331	7.9	.9100	1.2		1911	18	0.11		
1778 - 1779	2332	7.0	.9100	1.2		1918	19	0.09		
1779 - 1780	2333	6.3	.9168	1.2		1925	17	0.06		
1780 - 1781	2334	6.7	.9236	1.1		1923	16	0.06		
1781 - 1782	2335	7.3	.9209	1.1		1919	16	0.09		
1782 - 1783	2336	7.0	.9247	1.2		1919	17	0.08		
1783 - 1784	2337	8.3	.9275	1.2		1900	26	0.64		
1784 - 1785	2338	7.6	.9244	1.1		1906	27	1.26		
1785 - 1786	2339	7.4	.9233	1.3		1902	29	0.53		
1786 - 1787	2340	7.6	.9231	1.3		1906	25	0.39		
1787 - 1788	2341	6.9	.9226	1.0		1922	16	0.06		
1788 - 1789	2342	7.7	.9285	1.1		1913	18	0.06		
1789 - 1790	2343	8.4	.9258	1.1		1908	19	0.07		
1790 - 1791	2344	7.9	.9295	1.1		1908	21	0.24		
1791 - 1792	2345	5.2	.9147	1.0		1938	14	0.11		
1792 - 1793	2346	5.1	.9147	0.8		1943	12	0.09		
1793 - 1794	2347	5.9	.9052	0.8		1937	12	0.07		

Remarks: (1) Assumed as one.

(2) Water soluble.

Signed [Signature]
Date July 1974



THE OIL SHALE CORPORATION
ROCKY FLATS RESEARCH CENTER

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Date June 20, 1974
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Sample	Fischer Assay No.	Oil Yield		Water Yield		Residue lbs/ton	Gas + Loss lbs/ton	Na (2) wt. %	Al ₂ O ₃ wt. %	
		gal/ton	S.G.	gal/ton	S.G.					
1794 - 1795	2348	6.0	.9052	0.7	(1)	1936	12	0.10		
1795 - 1796	2349	4.7	.8978	1.0		1943	14	0.16		
1796 - 1797	2350	4.1	.8978	1.0		1948	12	0.10		
1797 - 1798	2351	6.4	.8994	0.8		1931	14	0.08		
1798 - 1799	2352	14.6	.9094	1.0		1855	26	0.18		
1799 - 1800	2353	11.0	.9193	0.8		1883	26	0.85		
1800 - 1801	2354	7.2	.9194	1.0		1913	23	1.31		
1801 - 1802	2355	7.9	.9084	0.9		1915	17	0.18		
1802 - 1803	2356	8.0	.9022	1.0		1911	20	0.15		
1803 - 1804	2357	8.0	.9088	0.7		1915	18	0.08		
1804 - 1805	2358	21.5	.9086	1.0		1795	34	0.36		
1805 - 1806	2359	22.7	.9095	1.2		1780	38	2.03		
1806 - 1807	2360	22.5	.9070	1.2		1780	40	1.61		
1807 - 1808	2361	15.1	.9197	0.7		1843	35	1.54		
1808 - 1809	2685	9.0	.9160	0.8		1904	20	0.64		
1809 - 1810	2363	8.7	.9187	0.9		1904	22	0.40		
1810 - 1811	2364	7.2	.9231	1.2		1923	11	0.58		
1811 - 1812	2365	5.5	.9232	0.9		1860	90	0.88		
1812 - 1813	2366	9.2	.9158	0.8		1908	14	1.04		
1813 - 1814	2367	30.1	.9126	1.3		1722	38	0.31		

Remarks: (1) Assumed as one.

(2) Water soluble.

Signed [Signature]
Date July 5, 1974



THE OIL SHALE CORPORATION
ROCKY FLATS RESEARCH CENTER

Oil Shale Assay Report

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Sample Utah State No. 1
Date June 20, 1974
Source _____

Sample	Fischer Assay No.	Oil Yield		Water Yield		Residue lbs/ton	Gas + Loss lbs/ton	Na (2) wt. %	Al ₂ O ₃ wt. %	
		gal/ton	S.G.	gal/ton	S.G.					
1814 - 1815	2368	15.4	.9201	0.9	(1)	1831	35	1.74		
1815 - 1816	2369	10.0	.9279	0.6		1890	27	1.52		
1816 - 1817	2370	7.7	.9249	0.7		1916	19	0.98		
1817 - 1818	2371	6.5	.9247	0.9		1922	20	1.14		
1818 - 1819	2372	7.1	.9204	0.4		1923	19	0.96		
1819 - 1820	2373	10.8	.9164	0.9		1882	28	1.09		
1820 - 1821	2374	7.1	.9205	0.9		1916	23	1.42		
1821 - 1822	2375	15.6	.9184	1.0		1830	42	2.27		
1822 - 1823	2376	16.4	.9194	0.7		1831	37	1.80		
1823 - 1824	2377	15.8	.9186	1.0		1839	32	1.44		
1824 - 1825	2378	8.7	.9253	0.8		1904	22	1.04		
1825 - 1826	2379	5.7	.9324	11.8		1575	282	9.14		
1826 - 1827	2380	8.3	.9324	4.3		1780	120	3.00		
1827 - 1828	2381	9.4	.9098	1.0		1900	21	0.47		
1828 - 1829	2382	6.8	.9179	2.7		1870	55	1.66		
1829 - 1830	2383	4.8	.9100	11.8		1594	272	9.35		
1830 - 1831	2384	8.6	.9022	0.9		1904	23	0.78		
1831 - 1832	2385	9.2	.9031	0.7		1906	19	0.64		
1832 - 1833	2386	20.1	.9082	0.9		1805	35	1.64		
1833 - 1834	2387	14.1	.9119	8.2		1636	188	8.39		

Remarks: (1) Assumed as one.

(2) Water soluble.

Signed

Date

John Hays
July 15, 1974



THE OIL SHALE CORPORATION
ROCKY FLATS RESEARCH CENTER

Oil Shale Assay Report

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Sample Utah State No. 1
Date June 20, 1974
Source _____

Sample	Fischer Assay No.	Oil Yield		Water Yield		Residue lbs/ton	Gas + Loss lbs/ton	Na (2) wt. %	Al ₂ O ₃ wt. %	
		gal/ton	S.G.	gal/ton	S.G.					
1834 - 1835	2388	14.8	.9118	8.4	(1)	1627	190	9.07		
1835 - 1836	2389	11.7	.9113	13.0		1506	297	13.70		
1836 - 1837	2390	20.1	.9101	1.7		1780	53	2.45		
1837 - 1838	2391	20.5	.9094	1.0		1799	37	1.80		
1838 - 1839	2392	15.7	.8594	0.8		1850	31	2.00		
1839 - 1840	2393	8.6	.9116	0.7		1896	32	1.45		
1840 - 1841	2394	7.2	.9122	0.6		1922	18	1.22		
1841 - 1842	2395	6.8	.9100	0.8		1917	24	1.17		
1842 - 1843	2396	6.2	.9169	0.7		1927	19	0.91		
1843 - 1844	2397	5.1	.9119	0.9		1931	24	0.94		
1844 - 1845	2398	5.1	.9119	0.9		1931	23	0.73		
1845 - 1846	2399	4.6	.9146	0.8		1933	25	0.89		
1846 - 1847	2400	4.6	.9146	1.1		1924	31	0.84		
1847 - 1848	2401	5.0	.9158	0.9		1932	22	0.87		
1848 - 1849	2402	5.7	.9158	0.8		1916	34	0.84		
1849 - 1850	2403	5.9	.9096	0.7		1928	22	1.31		
1850 - 1851	2404	14.7	.9096	0.9		1852	30	0.82		
1851 - 1852	2405	17.3	.9160	1.1		1815	43	2.00		
1852 - 1853	2406	8.1	.9258	0.7		1901	30	2.24		
1853 - 1854	2407	6.0	.9223	0.7		1916	32	1.06		

Remarks: (1) Assumed as one.

(2) Water soluble.

Signed [Signature]
Date July 15, 1974



THE OIL SHALE CORPORATION
ROCKY FLATS RESEARCH CENTER

Oil Shale Assay Report

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Sample Utah State No. 1
Date June 20, 1974
Source _____

Sample	Fischer Assay No.	Oil Yield		Water Yield		Residue lbs/ton	Gas + Loss lbs/ton	Na (2) wt. %	Al ₂ O ₃ wt. %	
		gal/ton	S.G.	gal/ton	S.G.					
1854 - 1855	2408	5.5	.9135	0.8	(1)	1924	28	1.06		
1855 - 1856	2409	4.1	.9156	1.2		1917	42	0.91		
1856 - 1857	2410	3.3	.9100	1.3		1917	46	0.64		
1857 - 1858	2411	3.6	.9100	1.3		1903	58	0.63		
1858 - 1859	2412	3.6	.9100	1.4		1893	68	0.93		
1859 - 1860	2413	4.4	.9100	1.2		1917	40	0.88		
1860 - 1861	2414	4.9	.9100	2.7		1854	86	2.44		
1861 - 1862	2415	3.7	.9100	3.5		1863	79	3.11		
1862 - 1863	2416	2.9	.9100	6.2		1781	146	4.92		
1863 - 1864	2417	3.6	.9100	3.3		1862	83	2.39		
1864 - 1865	2418	2.3	.9100	6.7		1769	158	5.00		
1865 - 1866	2419	1.0	.9100	3.6		1866	96	2.27		
1866 - 1867	2420	1.7	.9100	2.1		1866	104	0.84		
1867 - 1868	2421	4.1	.9100	2.2		1888	63	1.92		
1868 - 1869	2422	5.4	.9100	0.6		1936	19	1.07		
1869 - 1870.3	2423	7.6	.9206	0.7		1912	24	1.26		
1870.3 - 1870	MISSING CORE									
1870 - 1871	2424	7.8	.9189	0.7		1912	22	1.28		
1871 - 1872	2425	5.7	.9100	1.0		1926	23	0.78		
1872 - 1873	2426	4.8	.9100	0.9		1935	21	0.70		

Remarks: (1) Assumed as one.

(2) Water soluble

Signed [Signature]
Date July 8, 1974



THE OIL SHALE CORPORATION
ROCKY FLATS RESEARCH CENTER

Oil Shale Assay Report

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Sample Utah State No. 1
Date June 20, 1974
Source _____

Sample	Fischer Assay No.	Oil Yield		Water Yield		Residue lbs/ton	Gas + Loss lbs/ton	Na (2) wt. %	Al ₂ O ₃ wt. %	
		gal/ton	S.G.	gal/ton	S.G.					
1873 - 1874	2427	5.2	.9100	1.1	(1)	1926	25	0.74		
1874 - 1875	2428	5.5	.9100	0.9		1920	31	0.92		
1875 - 1876	2429	5.5	.9194	0.9		1918	32	0.58		
1876 - 1877	2430	5.2	.9100	0.8		1938	16	0.56		
1877 - 1878	2431	7.7	.9138	0.9		1913	21	0.63		
1878 - 1879	2432	16.3	.9019	0.7		1845	27	0.55		
1879 - 1880	2433	27.8	.9153	2.6		1684	82	0.93		
1880 - 1882	2434	8.7	.9100	0.6		1911	17	0.29		
1882 - 1884	2435	6.8	.9138	1.0		1917	23	0.29		
1884 - 1886	2436	7.6	.9100	0.9		1916	18	0.20		
1886 - 1888	2437	8.6	.9170	1.1		1897	28	0.22		
1888 - 1890	2438	8.1	.9255	0.5		1918	15	0.07		
1890 - 1892	2439	7.8	.9239	1.2		1901	29	0.57		
1892 - 1894	2440	8.1	.9208	0.6		1917	15	0.05		
1894 - 1896	2441	9.8	.9225	0.6		1904	16	0.03		
1896 - 1898	2442	9.5	.9267	1.0		1893	25	0.30		
1898 - 1900	2443	8.6	.9285	4.6		1781	114	2.91		
1900 - 1902	2444	8.7	.9281	2.4		1851	62	2.00		
1902 - 1904	2445	11.3	.9274	0.6		1890	18	0.03		
1904 - 1906	2446	8.0	.9208	0.9		1910	22	0.08		

Remarks: (1) Assumed as one.

(2) Water soluble.

Signed _____

Date _____



THE OIL SHALE CORPORATION
ROCKY FLATS RESEARCH CENTER

Oil Shale Assay Report

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Sample Utah State No. 1

Date June 20, 1974

Source _____

Sample	Fischer Assay No.	Oil Yield		Water Yield		Residue lbs/ton	Gas + Loss lbs/ton	Na (2) wt. %	Al ₂ O ₃ wt. %	
		gal/ton	S.G.	gal/ton	S.G.					
1906 - 1908	2447	6.4	.9240	1.1	(1)	1922	10	0.18		
1908 - 1910	2448	8.1	.9162	0.9		1911	19	0.20		
1910 - 1912	2449	10.4	.9259	0.7		1896	17	0.05		
1912 - 1914	2450	16.8	.9220	0.7		1840	25	0.22		
1914 - 1915	2451	6.3	.9252	15.9		1437	382	13.60		
1915 - 1916	2452	10.2	.9252	0.7		1889	27	0.34		
1916 - 1917	2453	7.0	.9285	1.1		1916	20	0.22		
1917 - 1918	2454	3.4	.9252	1.9		1932	26	0.44		
1918 - 1919	2455	5.0	.9252	1.8		1884	63	0.54		
1919 - 1920	2456	6.2	.9212	1.4		1920	22	0.30		
1920 - 1921	2457	6.9	.9211	1.4		1907	28	0.39		
1921 - 1922	2458	9.2	.9198	0.8		1899	24	0.30		
1922 - 1923	2459	9.4	.9324	2.8		1833	71	1.61		
1923 - 1924	2460	9.7	.9226	0.7		1894	25	0.05		
1924 - 1925	2461	10.6	.9268	0.6		1896	17	0.32		
1925 - 1926	2462	11.3	.9281	0.6		1890	18	0.03		
1926 - 1927	2463	11.1	.9266	0.4		1892	18	0.03		
1927 - 1928	2464	10.8	.9228	0.7		1887	24	0.10		
1928 - 1929	2465	7.3	.9322	8.4		1667	205	5.90		
1929 - 1930	2466	10.6	.9195	2.6		1832	65	1.85		

Remarks: (1) Assumed as one.

(2) Water soluble.

Signed _____

Date _____



THE OIL SHALE CORPORATION
ROCKY FLATS RESEARCH CENTER

Oil Shale Assay Report

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Sample Utah State No. 1
Date June 20, 1974
Source _____

Sample	Fischer Assay No.	Oil Yield		Water Yield		Residue lbs/ton	Gas + Loss lbs/ton	Na (2) wt. %	Al ₂ O ₃ wt. %	
		gal/ton	S.G.	gal/ton	S.G.					
1930 - 1931	2467	9.2	.9229	4.1	(1)	1797	98	2.79		
1931 - 1932	2468	9.3	.9617	2.2		1850	57	1.78		
1932 - 1933	2469	18.6	.9242	2.4		1803	33	3.08		
1933 - 1934	2470	9.3	.9303	6.9		1697	173	6.72		
1934 - 1935	2471	3.7	.9100	19.7		1315	493	14.11		
1935 - 1936	2472	4.6	.9100	16.9		1425	399	16.90		
1936 - 1937	2473	3.4	.9265	17.8		1413	413	16.20		
1937 - 1938	2474	7.0	.9265	7.2		1711	175	6.13		
1938 - 1939	2475	8.2	.9209	4.4		1791	109	3.00		
1939 - 1940	2476	8.1	.9293	5.8		1741	149	4.22		
1940 - 1941	2477	6.6	.9330	10.2		1601	262	7.45		
1941 - 1942	2478	4.5	.9330	8.3		1762	133	3.66		
1942 - 1943	2479	7.1	.9194	11.0		1582	272	11.30		
1943 - 1944	2480	9.6	.9256	1.4		1876	38	0.49		
1944 - 1945	2481	10.8	.9216	1.0		1884	26	0.18		
1945 - 1946	2482	9.3	.9310	2.1		1864	47	0.98		
1946 - 1947	2483	9.1	.9230	0.8		1903	21	0.15		
1947 - 1948	2484	9.9	.9130	0.7		1896	23	0.23		
1948 - 1949	2485	4.9	.9333	9.9		1692	187	5.37		
1949 - 1950	2486	7.8	.9239	5.4		1767	128	3.87		

Remarks: (1) Assumed as one.

(2) Water soluble.

Signed

Date

J. C. Hays
J. C. Hays
July 15, 1974



THE OIL SHALE CORPORATION
ROCKY FLATS RESEARCH CENTER

Oil Shale Assay Report

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Sample Utah State No. 1
Date June 20, 1974
Source _____

Sample	Fischer Assay No.	Oil Yield		Water Yield		Residue lbs/ton	Gas + Loss lbs/ton	Na (2) wt. %	Al ₂ O ₃ wt. %	
		gal/ton	S. G.	gal/ton	S. G.					
1950 - 1951	2487	10.1	.9172	1.0	(1)	1898	17	0.12		
1951 - 1952	2488	7.1	.9207	7.2		1713	172	6.49		
1952 - 1953	2489	9.7	.9145	0.5		1906	16	0.06		
1953 - 1954	2490	16.3	.9119	0.7		1846	24	0.03		
1954 - 1955	2491	29.5	.8652	0.8		1738	43	0.06		
1955 - 1956	2492	6.7	.9199	19.3		1326	461	17.00		
1956 - 1957	2493	7.5	.9209	9.0		1645	222	6.00		
1957 - 1958	2494	8.6	.9133	0.6		1911	18	0.14		
1958 - 1959	2495	5.8	.9212	8.1		1668	219	6.00		
1959 - 1960	2496	4.6	.9100	1.1		1921	35	0.31		
1960 - 1961	2497	5.8	.9188	7.3		1716	178	5.98		
1961 - 1962	2498	5.7	.9185	7.8		1723	169	5.59		
1962 - 1963	2499	10.4	.9106	0.5		1902	15	0.04		
1963 - 1964	2500	12.0	.9178	0.6		1887	17	0.02		
1964 - 1965	2501	14.9	.9208	1.0		1859	18	0.03		
1965 - 1967	2502	8.8	.9221	0.7		1912	15			
1967 - 1969	2503	7.4	.9177	0.7		1924	13			
1969 - 1971	2504	7.5	.9191	0.7		1921	15			
1971 - 1973	2505	7.4	.9173	0.4		1926	14			
1973 - 1975	2506	13.0	.9197	0.6		1876	19			

Remarks: (1) Assumed as one.

(2) Water soluble.

Signed

Date



THE OIL SHALE CORPORATION
ROCKY FLATS RESEARCH CENTER

Oil Shale Assay Report

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Sample Utah State No. 1
Date June 20, 1974
Source _____

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.					
1975 - 1977	2507	10.7	.9234	0.6	(1)	1896	17			
1977 - 1979	2508	7.1	.9251	0.7		1924	16			
1979 - 1981	2509	6.4	.9230	0.7		1930	15			
1981 - 1983	2510	6.1	.9195	0.7		1927	20			
1983 - 1985	2511	6.2	.9097	0.7		1933	14			
1985 - 1987	2512	6.3	.9208	0.7		1931	15			
1987 - 1989	2556	6.1	.9232	0.6		1932	16			
1989 - 1991	2557	6.4	.9221	0.6		1931	15			
1991 - 1993	2558	6.1	.9221	0.7		1932	15			
1993 - 1995	2559	6.5	.9166	0.5		1932	14			
1995 - 1997	2560	10.6	.9168	0.5		1898	17			
1997 - 1998	2561	13.0	.9176	0.4		1877	21			
1998 - 1999	MISSING CORE									
1999 - 2001	2562	7.5	.9165	0.6		1923	15			
2001 - 2003	2563	7.0	.9176	0.5		1927	15			
2003 - 2005	2564	16.9	.9186	0.6		1840	25			
2005 - 2007	2565	8.7	.9286	0.5		1915	13			
2007 - 2009	2566	7.3	.9278	0.7		1925	12			
2009 - 2011	2567	7.8	.9271	0.6		1919	16			
2011 - 2013	2568	14.8	.9129	0.5		1864	19			

Remarks: (1) Assumed as one.

Signed

Date

[Signature]
July 15, 1974



THE OIL SHALE CORPORATION
ROCKY FLATS RESEARCH CENTER

Oil Shale Assay Report

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Sample Utah State No. 1
Date June 20, 1974
Source _____

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.					
2013 - 2015	2569	10.2	.9281	0.5	(1)	1902	15			
2015 - 2017	2570	8.8	.9229	0.5		1914	15			
2017 - 2019	2571	6.0	.9200	0.7		1933	15			
2019 - 2021	2572	6.5	.9175	0.7		1928	16			
2021 - 2023	2573	8.5	.9175	0.6		1914	16			
2023 - 2026	1548	17.3	.9182	0.5		1837	26			
2026 - 2029	1549	7.6	.9160	0.5		1925	13			
2029 - 2032	1550	8.9	.9255	0.5		1912	15			
2032 - 2035	1551	12.5	.9108	0.5		1883	18			
2035 - 2038	1552	9.4	.8974	0.7		1908	16			
2038 - 2041	1553	16.5	.9153	0.7		1844	24			
2041 - 2044	1554	8.9	.9218	0.5		1910	17			
2044 - 2047	1555	8.9	.9153	0.6		1913	14			
2047 - 2050	1556	16.0	.9173	0.7		1850	21			
2050 - 2051	MISSING CORE									
2051 - 2052	MISSING CORE									
2052 - 2053	MISSING CORE									
2053 - 2054	MISSING CORE									
2054 - 2055	MISSING CORE									
2055 - 2056	1557	10.4	.9201	0.6		1898	17			

Remarks: (1) Assumed as one.

Signed

Date



THE OIL SHALE CORPORATION
ROCKY FLATS RESEARCH CENTER

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Sample Utah State No. 1
Date June 20, 1974
Source _____

Oil Shale Assay Report

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.					
2056 - 2059	1558	12.0	.9210	0.7	(1)	1888	15			
2059 - 2062	1559	15.2	.9164	0.9		1853	23			
2062 - 2065	1560	14.3	.9228	0.7		1866	18			
2065 - 2068	1561	13.4	.9192	0.5		1875	19			
2068 - 2071	1562	14.4	.9183	0.7		1864	19			
2071 - 2074	1563	14.5	.9014	0.9		1862	21			
2074 - 2077	1564	13.7	.9042	1.1		1863	25			
2077 - 2080	1565	15.9	.9063	1.0		1850	23			
2080 - 2083	1566	20.5	.9052	1.1		1808	28			
2083 - 2086	1567	28.1	.9031	1.2		1741	37			
2086 - 2089	1568	18.3	.9020	1.1		1827	26			
2089 - 2092	1569	14.5	.9060	1.2		1858	23			
2092 - 2095	1570	10.1	.9069	1.0		1897	19			
2095 - 2098	1571	20.5	.9084	1.1		1804	32			
2098 - 2101	1572	11.2	.9070	1.1		1885	21			
2101 - 2104	1573	11.8	.9076	0.9		1883	20			
2104 - 2107	1574	8.5	.9046	1.4		1906	18			
2107 - 2110	1575	9.5	.9083	1.1		1901	17			
2110 - 2113	1576	20.4	.9096	1.1		1805	31			
2113 - 2116	1577	9.8	.9137	0.9		1897	21			

Remarks: (1) Assumed as one.

Signed _____

Date _____



THE OIL SHALE CORPORATION
ROCKY FLATS RESEARCH CENTER

Oil Shale Assay Report

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Sample Utah State No. 1

Date June 26, 1974

Source _____

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.					
2116 - 2119	1578	9.7	.9124	1.1	(1)	1901	16			
2119 - 2122	1579	18.7	.9098	0.9		1324	27			
2122 - 2125	1580	10.1	.9172	0.9		1876	36			
2125 - 2128	1581	7.7	.9167	0.9		1917	16			
2128 - 2131	1582	19.5	.9132	1.1		1814	28			
2131 - 2134	1583	10.0	.9119	1.0		1896	20			
2134 - 2137	1584	28.6	.9093	1.4		1732	39			
2137 - 2140	1585	11.0	.9166	0.7		1893	17			
2140 - 2143	1586	9.2	.9129	0.7		1908	15			
2143 - 2146	1587	14.2	.9073	0.8		1866	20			
2146 - 2149	1588	12.9	.9112	0.7		1879	17			
2149 - 2152	1589	16.4	.9092	0.8		1845	24			
2152 - 2155	1590	17.9	.9077	0.9		1830	26			
2155 - 2158	1591	10.8	.8925	0.7		1898	16			
2158 - 2161	1592	20.1	.9123	0.9		1810	29			
2161 - 2164	1593	13.6	.9055	0.7		1874	18			
2164 - 2167	1606	15.2	.9071	0.7		1861	17			
2167 - 2170	1607	13.9	.9185	0.8		1870	17			
2170 - 2172.7	1608	12.6	.9141	0.7		1882	16			
2172.7 - 2173	MISSING CORE									

Remarks:

Signed

Date



THE OIL SHALE CORPORATION
ROCKY FLATS RESEARCH CENTER

Oil Shale Assay Report

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Sample Utah State No. 1

Date June 26, 1974

Source _____

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.					
2173 - 2174	MISSING CORE									
2174 - 2175	MISSING CORE									
2175 - 2176	MISSING CORE									
2176 - 2179	1609	12.0	.9254	0.7	(1)	1885	17			
2179 - 2182	1610	12.6	.9207	0.6		1881	17			
2182 - 2185	1611	13.0	.9176	0.6		1880	16			
2185 - 2188	1612	12.8	.9139	0.5		1882	16			
2188 - 2191	1613	13.7	.9192	0.6		1871	19			
2191 - 2194	1614	13.8	.9116	0.6		1866	24			
2194 - 2197	1615	14.4	.9162	0.7		1863	21			
2197 - 2200	1616	10.9	.9088	0.7		1897	14			
2200 - 2203	1617	19.9	.9147	0.7		1816	27			
2203 - 2206	1618	12.1	.9168	0.7		1885	17			
2206 - 2209	1619	13.6	.9151	0.7		1872	18			
2209 - 2212	1620	15.6	.9056	0.8		1857	18			
2212 - 2215	1621	14.5	.9131	0.7		1866	18			
2215 - 2218	1622	15.2	.9173	0.8		1856	21			
2218 - 2221	1623	20.0	.9137	0.9		1812	28			
2221 - 2222	MISSING CORE									
2222 - 2223	MISSING CORE									

Remarks: (1) Assumed as one.

Signed _____

Date _____



THE OIL SHALE CORPORATION
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Sample Utah State No. 1
Date June 26, 1974
Source _____

Oil Shale Assay Report

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.					
2223 - 2226	1625	30.4	.9146	1.2	(1)	1717	41			
2226 - 2229	1626	10.6	.9162	0.6		1896	18			
2229 - 2230	1396	12.9	.9157	0.7		1878	17			
2230 - 2231	1397	14.7	.9175	0.7		1861	20			
2231 - 2232	1398	16.7	.9116	0.7		1846	21			
2232 - 2233	1399	6.0	.9186	0.7		1934	14			
2233 - 2234	1400	15.9	.9128	0.9		1851	20			
2234 - 2235	1401	9.7	.9144	1.0		1894	24			
2235 - 2236	1402	8.6	.9164	1.0		1906	20			
2236 - 2237	1403	8.8	.9163	0.7		1903	25			
2237 - 2238	1404	9.8	.9278	0.9		1897	19			
2238 - 2239	1405	13.0	.9076	0.5		1832	24			
2239 - 2240	1406	17.9	.9082	0.9		1832	24			
2240 - 2241	1407	17.2	.9129	0.7		1841	23			
2241 - 2242	1408	12.9	.9100	0.8		1873	22			
2242 - 2243	1409	10.1	.9155	0.9		1895	21			
2243 - 2244	1410	12.6	.9150	0.8		1868	29			
2244 - 2245	1411	14.4	.9112	0.5		1860	26			
2245 - 2246	1412	31.1	.9097	0.9		1718	39			
2246 - 2247	1413	37.5	.9171	0.9		1653	53			

Remarks: (1) Assumed as one.

Signed

Date

[Signature]
July 15, 1974



THE OIL SHALE CORPORATION
ROCKY FLATS RESEARCH CENTER

Oil Shale Assay Report

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Sample Utah State No. 1

Date June 26, 1974

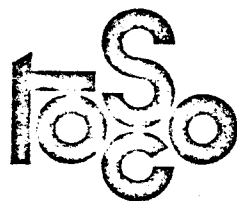
Source _____

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.					
2247 - 2248	1414	16.5	.9161	0.7	(1)	1842	26			
2248 - 2249	1415	13.5	.9141	0.7		1870	21			
2249 - 2250	1417	16.9	.9136	0.7		1840	25			
2250 - 2251	1418	13.5	.9104	0.6		1873	19			
2251 - 2252	1419	16.4	.9138	0.6		1848	22			
2252 - 2253	1420	16.0	.9115	0.6		1852	21			
2253 - 2254	1421	18.4	.9043	0.5		1834	23			
2254 - 2255	1422	43.8	.9100	1.1		1596	62			
2255 - 2256	1423	22.0	.9060	0.7		1801	27			
2256 - 2257	1424	16.0	.9084	0.8		1845	28			
2257 - 2258	1425	19.5	.9051	0.8		1820	26			
2258 - 2259	1426	26.6	.9012	1.0		1751	41			
2259 - 2260	1427	35.5	.9025	1.1		1678	45			
2260 - 2261	1428	17.3	.9097	0.7		1837	25			
2261 - 2262	1429	6.6	.9143	0.5		1932	13			
2262 - 2263	1430	5.9	.9127	0.5		1937	13			
2263 - 2264	1431	6.8	.9068	0.6		1927	17			
2264 - 2265	1432	8.4	.8985	0.5		1924	8			
2265 - 2266	1433	9.0	.8989	0.4		1918	10			
2266 - 2267	1434	9.8	.9087	0.5		1908	14			

Remarks: (1) Assumed as one.

Signed _____

Date _____



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Sample Utah State No. 1
Date June 26, 1974
Source _____

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.					
2267 - 2268	1435	5.6	.9157	0.5		1943	10			
2268 - 2269	1436	5.0	.9081	0.5		1947	11			
2269 - 2270	1437	5.0	.9081	0.6		1946	12			
2270 - 2271	1438	6.4	.9021	0.5		1924	24			
2271 - 2272	1439	6.3	.8865	0.9		1932	14			
2272 - 2273	1440	6.3	.8867	0.7		1934	14			
2273 - 2274	1441	6.8	.8956	3.4		1834	88			
2274 - 2275	1442	12.1	.9018	1.1		1870	30			
2275 - 2276	1443	14.6	.8953	0.9		1862	21			
2276 - 2277	1444	36.9	.8961	1.2		1667	47			
2277 - 2278	1445	18.8	.9054	0.8		1827	24			
2278 - 2279	1446 ✓	17.6	.9033	0.9		1829	30			
2279 - 2280	1447	13.7	.9010	1.1		1867	21			
2280 - 2281	1448	15.3	.8965	0.7		1861	19			
2281 - 2282	1449	22.3	.9088	0.8		1787	38			
2282 - 2282.9	MISSING CORE				Start					
2282.9 - 2283.7	(2) 28.5	32.4	.9034	1.4		1696	48			
2283.7 - 2284	1450	24.6	.9043	1.0		1764	42			
2284 - 2285	(2)	27.4	.9055	1.3		1744	39			
2285 - 2286	(2)	50.5	.8884	1.0		1562	56			

Remarks: (1) Assumed as one.

(2) Average of duplicate analyses.

Signed

Date



THE OIL SHALE CORPORATION
ROCKY FLATS RESEARCH CENTER

Oil Shale Assay Report

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Sample Utah State No. 1
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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.					
2286 - 2287	1603	42.2	.8965	1.2	(1)	1617	58			
2287 - 2288	(2)	31.4	.8878	0.8		1726	36			
2288 - 2288.6	(2)	29.8	.8862	1.0		1736	35			
2288.6 - 2289.4	(2)	25.7	.8918	1.1		1766	33			
2289.4 - 2290	(2)	21.5	.8936	1.1		1798	33			
2290 - 2291	(2)	24.7	.8946	1.0		1775	32			
2291 - 2292	(2)	16.4	.9066	1.0		1840	28			
2292 - 2293	(2)	12.7	.9094	1.0		1870	24			
2293 - 2293.6	(2)	12.7	.9100	0.7		1875	22			
2293.6 - 2294.5	(2)	25.3	.9000	1.0		1764	38			
2294.5 - 2295	1461	20.2	.9029	0.8		1810	31			
2295 - 2296	(2)	14.7	.9050	0.8		1860	22			
2296 - 2296.6	(2)	8.9	.9022	0.6		1914	14			
2296.6 - 2298.6	MISSING CORE 10.0									
2298.6 - 2299	1464	10.2	.9059	0.7		1901	15			
2299 - 2300	1465	10.1	.9050	0.7		1900	18			
2300 - 2301	1466	8.4	.9050	0.8		1915	15			
2301 - 2302.1	1467	9.9	.8982	0.6		1904	16			
2302.1 - 2302.7	1763	13.0	.8951	0.7		1881	16			
2302.7 - 2303	1468	12.4	.8998	0.7		1882	19			

Remarks: (1) Assumed as one.

(2) Average of duplicate analyses. 2300.6 220.6

Signed

Date



THE OIL SHALE CORPORATION
ROCKY FLATS RESEARCH CENTER

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Sample Utah State No. 1
Date June 26, 1974
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Oil Shale Assay Report

148739

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.					
2303 - 2304	1469 <i>start</i>	28.4	.9087	0.8	(1)	1742	36			
2304 - 2304.6	1470	48.2	.9084	1.3		1556	68			
2304.6 - 2305.4	(2)	38.0	.9020	1.6		1646	54			
2305.4 - 2306	1471	24.3	.9047	1.1		1769	38			
2306 - 2306.9	1472	23.7	.8978	1.0		1780	35			
2306.9 - 2307.7	(2)	23.3	.8921	0.9		1788	30			
2307.7 - 2308	1473	27.7	.8959	0.9		1752	34			
2308 - 2309	1474	27.1	.8968	0.9		1756	33			
2309 - 2310	1475	18.0	.8935	0.7		1837	23			
2310 - 2311	1476	33.6	.8880	0.9		1708	35			
2311 - 2311.3	1477	40.2	.8887	0.8		1653	42			
2311.3 - 2312.1	(2)	35.7	.8987	0.8		1679	46			
2312.1 - 2313	1478	50.5	.8942	1.2		1539	74			
2313 - 2314.1	1479	84.5	.8922	2.4		1252	100			
2314.1 - 2314.9	1767	73.9	.8982	3.0		1298	123			
2314.9 - 2315.9	1480	63.4	.8866	2.0		1424	90			
2315.9 - 2317	1481	43.4	.8894	1.1		1617	51			
2317 - 2318	1482	59.8	.8914	1.6		1468	75			
2318 - 2318.9	(2)	44.7	.9070	1.2		1594	58			
2318.9 - 2320	1483	21.0	.9114	1.0		1799	33			

Remarks: (1) Assumed as one.

(2) Average of duplicate analyses.

Signed

Date



THE OIL SHALE CORPORATION
ROCKY FLATS RESEARCH CENTER

Oil Shale Assay Report

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Sample Utah State No. 1

Date June 26, 1974

Source _____

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.					
2320 - 2321	1484	28.8	.9565	1.3	(1)	1718	41			
2321 - 2322	1485	16.2	.9221	9.3		1686	112			
2322 - 2324.1	1487	58.7	.8995	1.0		1484	67			
2324.1 - 2324.9	1776	74.8	.8935	2.6		1294	127			
2324.9 - 2325.9	MISSING CORE									
2325.9 - 2326.7	1770	33.4	.8882	1.0		1692	52			
2326.7 - 2328	1489	25.6	.8726	0.8		1777	30			
2328 - 2329	1490	36.1	.8656	0.7		1694	38			
2329 - 2329.9	1491	34.3	.8875	0.9		1696	42			
2329.9 - 2330.8	1771	21.5	.8962	0.7		1807	26			
2330.8 - 2332	1492	21.1	.8867	0.7		1814	25			
2332 - 2333	1493	30.9	.8958	1.0		1721	40			
2333 - 2333.9	1772	29.7	.9058	1.2		1728	38			
2333.9 - 2335	1495	17.7	.8932	0.7		1838	23			
2335 - 2335.6	MISSING CORE									
2335.6 - 2336.2	1773	17.2	.8901	0.7		1851	16			
2336.2 - 2337	1496	30.7	.8796	0.6		1737	33			
2337 - 2338	1497	42.7	.8803	0.9		1629	50			
2338 - 2339	1498	39.6	.8783	0.8		1662	41			
2339 - 2340	1499	30.5	.8845	0.8		1736	32			

Remarks: (1) Assumed as one.

34 = 12380 = 364 g/s

Signed _____

Date _____



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Sample Utah State No. 1

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Source _____

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.					
2340 - 2341	1500	26.6	.8974	1.0	(1)	1759	34			
2341 - 2341.7	1501	45.5	.8862	1.2		1601	52			
2341.7 - 2342.4	1774	43.8	.8911	1.2		1613	52			
2342.4 - 2343	1502	26.6	.8908	0.7		1766	31			
2343 - 2344	1503	24.7	.8923	1.0		1775	33			
2344 - 2345	1504	20.3	.9029	0.9		1810	29			
2345 - 2346	1505	16.8	.9029	0.7		1848	20			
2346 - 2347	1506	12.7	.9056	0.7		1880	18			
2347 - 2348	1507	19.2	.9034	1.0		1822	26			
2348 - 2349	1510	22.5	.9106	1.0		1787	35			
2349 - 2350	1511	12.2	.9049	0.7		1884	18			
2350 - 2351	1512	9.1	.8927	0.7		1912	14			
2351 - 2352	1513	6.6	.8984	0.7		1932	13			
2352 - 2353	1514	12.7	.8930	0.7		1882	17			
2353 - 2354	1515	11.1	.8867	0.7		1896	16			
2354 - 2355	1516	3.9	.8990	1.2		1946	14			
2355 - 2356	1517	5.9	.8990	1.0		1933	14			
2356 - 2357	1518	15.1	.9019	1.0		1859	20			
2357 - 2358	1519	28.3	.9096	1.1		1740	36			
2358 - 2359	1520	11.2	.9029	0.8		1891	19			

Remarks: (1) Assumed as one.

40' - 14 = 35.1 GT.

Signed

Date



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ROCKY FLATS RESEARCH CENTER

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Sample Utah State No. 1

Date June 26, 1974

Source _____

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.					
2359 - 2360	1521	8.7	.9032	0.8		1912	16			
2360 - 2361	1522	7.9	.8864	0.7		1922	14			
2361 - 2362	1523	16.7	.9016	0.8		1844	24			
2362 - 2363	1524	41.5	.9100	1.1		1623	52			
2363 - 2364	1545	20.8	.8848	0.7		1815	26			
2364 - 2365	1526	13.1	.9026	0.5		1881	16			
2365 - 2366	1527	10.3	.9037	0.5		1905	14			
2366 - 2367	1528	3.6	.9153	1.1		1955	8			
2367 - 2368	1529	3.0	.9153	2.3		1949	9			
2368 - 2369	1530	1.7	.9115	2.1		1940	30			
2369 - 2370	1531	13.2	.9117	0.5		1876	19			
2370 - 2371	1532	21.5	.9023	1.8		1798	25			
2371 - 2372	1533	21.7	.9011	1.7		1796	26			
2372 - 2373	1534	15.7	.8968	2.1		1850	15			
2373 - 2374	1535	14.3	.9068	0.9		1867	17			
2374 - 2375	1536	19.7	.9047	1.5		1789	51			
2375 - 2376	1537	8.6	.9120	1.3		1905	19			
2376 - 2377	1538	7.7	.9114	1.2		1918	13			
2377 - 2378	1539	7.9	.9077	1.0		1919	12			
2378 - 2379	1540	7.4	.9166	0.7		1924	14			

Remarks: (1) Assumed as one.

Signed _____

Date July 15, 1974



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Sample Utah State No. 1
Date June 26, 1974
Source _____

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.					
2379 - 2380	1541	5.1	.9069	0.8		1944	10			
2380 - 2381	1542	2.7	.9028	1.3		1961	8			
2381 - 2382	1543	2.3	.8904	1.6		1963	7			
2382 - 2383	1544	1.7	.8857	1.2		1970	8			
2383 - 2384	1546	4.4	.9167	0.4		1953	10			
2384 - 2385	1547	5.9	.9167	0.4		1939	12			
2385 - 2388	1628	4.6	.9213	1.6		1940	12			
2388 - 2391	1629	5.4	.9213	1.1		1935	14			
2391 - 2394	1630	5.8	.9112	2.2		1923	14			
2394 - 2397	1631	4.2	.9112	1.9		1942	10			
2397 - 2400	1632	2.3	.9112	1.7		1959	9			
2400 - 2403	1633	2.4	.9112	1.3		1963	8			
2403 - 2406	1634	1.9	.9112	2.0		1960	9			
2406 - 2409	1635	1.4	.9112	1.7		1967	8			
2409 - 2412	1636	1.7	.9100	0.7		1972	8			
2412 - 2415	1637	1.7	.9112	1.2		1968	9			
2415 - 2418	1638	2.5	.9112	0.7		1967	8			
2418 - 2421	1639	1.1	.9112	2.7		1963	7			
2421 - 2424	1640	1.7	.9112	1.6		1960	14			
2424 - 2427	1641	.7	.9112	1.0		1974	13			

Remarks: (1) Assumed as one.

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Date

[Signature]
July 15, 1974



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ROCKY FLATS RESEARCH CENTER

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Sample Utah State No. 1
Date June 26, 1974
Source _____

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.					
2427 - 2430	1642	1.8	.9100	0.5	(1)	1975	5			
2430 - 2433	1643	1.2	.9100	0.4		1980	6			
2433 - 2434	1644	1.2	.9100	0.7		1976	7			
2434 - 2438	MISSING CORE									
2438 - 2442	1921	1.3	.9049	1.8		1965	10			
2442 - 2446	1922	1.1	.9049	2.3		1961	11			
2446 - 2450	1923	1.4	.9049	2.2		1962	9			
2450 - 2454	2686	1.2	.9100	2.5		1961	9			
2454 - 2458	1925	1.8	.9049	2.4		1959	8			
2458 - 2462	1926	3.6	.9049	2.0		1947	9			
2462 - 2463	1964	3.2	.9088	2.3		1948	8			
2463 - 2464	1965	16.7	.9081	2.2		1828	27			
2464 - 2465	1966	25.0	.9073	1.8		1760	36			
2465 - 2467	1967	30.4	.9084	1.5		1710	47			
2467 - 2469	1968	13.6	.9033	1.2		1861	27			
2469 - 2471	1969	43.2	.8967	2.0		1601	60			
2471 - 2473	1970	13.2	.8957	1.2		1868	24			
2473 - 2475	1971	14.1	.9075	1.3		1855	26			
2475 - 2477	1972	11.9	.9073	1.4		1873	26			
2477 - 2479	1973	4.0	.9083	1.2		1947	12			

Remarks: (1) Assumed as one.

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July 28, 1974



THE OIL SHALE CORPORATION
ROCKY FLATS RESEARCH CENTER

Oil Shale Assay Report

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Sample Utah State No. 1
Date June 26, 1974
Source _____

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.					
2479 - 2481	1974	8.2	.9106	1.3	(1)	1908	18			
2481 - 2483	1975	12.2	.9061	1.0		1875	24			
2483 - 2485	1976	17.0	.9095	1.0		1833	30			
2485 - 2587	1977	21.5	.9011	1.0		1818	12			
2487 - 2489	1978	12.4	.8946	1.2		1874	24			
2489 - 2491	1979	13.1	.9007	0.8		1870	26			
2491 - 2493	1980	13.6	.8925	1.1		1861	28			
2493 - 2495	1981	19.5	.8967	1.2		1805	39			
2495 - 2496	1982	10.5	.9023	1.0		1889	24			
2496 - 2497	1983	8.6	.9035	0.9		1907	20			
2497 - 2498	1984	12.9	.9044	1.0		1870	24			
2498 - 2499	1985	39.9	.8944	1.2		1638	54			
2499 - 2500	1986	35.4	.9006	1.5		1667	55			
2500 - 2501	1987	29.4	.9040	1.6		1718	46			
2501 - 2502	1988	15.8	.9102	1.4		1834	34			
2502 - 2503	1989	23.4	.9124	1.7		1762	45			
2503 - 2504	1990	10.4	.9152	1.7		1886	20			
2504 - 2505	1991	4.0	.9077	1.8		1934	20			
2505 - 2506	1992	3.9	.9132	2.5		1929	21			
2506 - 2507	1993	5.5	.9020	0.9		1934	17			

Remarks: (1) Assumed as one.

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Sample Utah State No. 1
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Oil Shale Assay Report

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.					
2507 - 2508	1994	6.1	.9095	1.2	(1)	1926	18			
2508 - 2509	1995	13.5	.9168	1.2		1860	27			
2509 - 2510	1996	22.0	.9189	1.6		1782	36			
2510 - 2511	1997	24.8	.9169	1.7		1762	34			
2511 - 2512	1998	10.6	.8883	4.3		1862	24			
2512 - 2513	1999	20.3	.9031	2.6		1791	35			
2513 - 2514	2000	19.3	.8985	2.5		1801	34			
2514 - 2515	2001	12.8	.8937	2.1		1863	23			
2515 - 2516	2002	13.6	.9008	1.2		1866	22			
2516 - 2517	2003	18.7	.9052	1.4		1812	35			
2517 - 2518	2004	24.7	.9158	2.2		1764	29			
2518 - 2519	2005	11.4	.8941	0.9		1891	16			
2519 - 2520	2006	11.2	.9075	1.8		1878	22			
2520 - 2522	2007	6.4	.9055	1.0		1927	16			
2522 - 2524	2008	13.9	.9070	2.1		1854	23			
2524 - 2526	2009	19.4	.9050	2.4		1803	31			
2526 - 2528	2010	16.3	.9049	1.5		1837	27			
2528 - 2530	2015	13.6	.8519	2.3		1863	21			
2530 - 2532	2016	5.8	.9073	2.0		1928	11			
2532 - 2534	2017	2.9	.9099	4.6		1930	9			

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Sample Utah State No. 1
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Oil Shale Assay Report

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.					
2534 - 2536	2018	2.2	.9149	4.6	(1)	1936	9			
2536 - 2538	2019	2.3	.9054	4.5		1935	10			
2538 - 2540	2020	5.0	.9078	2.4		1930	12			
2540 - 2542	2021	2.6	.9113	1.9		1955	9			
2542 - 2544	2022	2.0	.9049	2.1		1958	9			
2544 - 2546	2024	4.8	.9125	2.4		1931	12			
2546 - 2548	2025	14.5	.9193	3.5		1833	27			
2548 - 2550	2026	14.0	.9162	4.4		1828	29			
2550 - 2552	2027	6.5	.9148	3.6		1904	16			
2552 - 2554	2028	3.5	.9129	1.6		1949	11			
2554 - 2556	2029	11.2	.9095	3.9		1863	20			
2556 - 2558	2030	16.0	.9135	3.8		1826	20			
2558 - 2560	2309	7.2	.8938	0.8		1928	11			
2560 - 2562	2032	18.7	.9342	4.3		1787	31			
2562 - 2564	2033	25.9	.8999	4.3		1728	41			
2564 - 2566	2034	7.3	.9131	4.2		1892	17			
2566 - 2570	2047	1.8	.9131	0.6		1976	5			
2570 - 2574	2048	2.8	.9131	4.2		1931	12			
2574 - 2578	2049	0.2	.9131	6.2		1938	9			
2578 - 2582	2050	1.0	.9131	6.5		1929	9			

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July 18, 1974

RERUNS REQUIRED BY
COMPUTER DATA ANALYSIS



THE OIL SHALE CORPORATION
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Oil Shale Assay Report

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Sample Duplicates
Date June 26, 1974
Source _____

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.					
2282.9 - 2283.7	1760	32.3	.9015	1.4	(1)	1697	48			
" "	1783	32.5	.9053	1.5		1696	47			
2284 - 2285	1451	27.1	.9073	1.1		1744	41			
" "	1605	27.6	.9037	1.5		1743	37			
2285 - 2286	1452	50.2	.8896	1.0		1564	54			
" "	1604	50.7	.8871	1.0		1560	57			
2287 - 2288	1454	31.1	.8884	0.9		1727	35			
" "	1602	31.6	.8873	0.8		1724	36			
2288 - 2288.6	1455	29.7	.8860	1.0		1738	34			
" "	1601	29.8	.8865	1.1		1735	36			
2289.4 - 2290	1456	21.7	.8860	1.2		1799	31			
" "	1600	21.3	.9012	1.0		1797	35			
2290 - 2291	1457	24.7	.8968	0.9		1775	33			
" "	1599	24.7	.8925	1.0		1775	32			
2291 - 2292	1458	16.3	.9083	1.0		1841	28			
" "	1598	16.5	.9049	1.0		1839	29			
2292 - 2293	1459	12.7	.9093	1.0		1871	24			
" "	1597	12.7	.9096	0.9		1870	25			
2293 - 2293.6	1460	12.8	.9122	0.7		1875	21			
" "	1596	12.6	.9077	0.7		1875	23			

Remarks: (1) Assumed as one.

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THE OIL SHALE CORPORATION
ROCKY FLATS RESEARCH CENTER

Oil Shale Assay Report

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Sample Duplicates
Date June 26, 1974
Source _____

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.					
2293.6 - 2294.5	1762	25.4	.8992	0.9	(1)	1766	36			
" "	1781	25.2	.9007	1.1		1761	40			
2295 - 2296	1462	14.7	.9066	0.9		1859	22			
" "	1595	14.7	.9035	0.8		1861	21			
2296 - 2296.6	1463	8.7	.9017	0.6		1915	14			
" "	1594	9.0	.9028	0.7		1913	14			
2304.6 - 2305.4	1764	37.8	.9019	1.6		1647	54			
" "	1779	38.2	.9022	1.5		1646	54			
2306.9 - 2307.7	1765	23.2	.8908	0.9		1790	30			
" "	1778	23.4	.8934	0.9		1787	31			
2311.3 - 2312.1	1766	35.5	.9013	0.7		1678	49			
" "	1777	35.9	.8961	1.0		1680	43			
2318 - 2318.9	1768	44.6	.9077	1.2		1594	58			
" "	1775	44.7	.9063	1.1		1595	57			

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July 15, 1974



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ROCKY FLATS RESEARCH CENTER

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Sample Utah State No. 1

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