

Table 1

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SHALE ASSAY REPORT
UTAH STATE CORE 22X-12

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<u>TOSCO</u> <u>Assay</u> <u>No.</u>	<u>Sample Depth</u>		<u>Oil</u>	<u>Oil</u>	<u>Water</u>	<u>Residue</u>	<u>Gas+Loss</u> <u>(lbs/ton)</u>
	<u>Start</u> <u>(Feet)</u>	<u>Finish</u> <u>(Feet)</u>	<u>Yield</u> <u>(GPT)</u>	<u>Specific</u> <u>Gravity</u>	<u>Yield</u> <u>(GPT)</u>	<u>Weight</u> <u>(lbs/ton)</u>	
2611	1551.00	1553.00	5.9	0.918	0.6	1938	12
2612	1553.00	1555.00	6.3	0.918	0.8	1935	10
2613	1555.00	1557.00	7.1	0.927	0.8	1927	11
2614	1557.00	1559.00	5.3	0.927	0.9	1943	9
2615	1559.00	1561.00	7.1	0.927	0.7	1929	11
2616	1561.00	1563.00	17.8	0.922	1.0	1829	25
2617	1563.00	1565.00	5.8	0.923	0.4	1922	30
2618	1565.00	1567.00	7.8	0.923	0.8	1919	15
2619	1567.00	1569.00	12.7	0.922	0.6	1883	15
2620	1569.00	1571.00	13.1	0.935	0.8	1870	21
2621	1571.00	1573.00	8.3	0.940	0.9	1912	15
2622	1573.00	1575.00	7.5	0.919	0.7	1922	15
2623	1575.00	1577.00	8.8	0.880	0.7	1919	11
2624	1577.00	1579.00	10.7	0.931	0.6	1902	9
2625	1579.00	1581.00	9.4	0.930	0.9	1901	19
2626	1581.00	1583.00	7.4	0.922	0.9	1925	10
2627	1583.00	1585.00	6.3	0.922	0.9	1932	12
2628	1585.00	1587.00	6.3	0.922	1.0	1928	15
2629	1587.00	1589.00	8.6	0.922	1.0	1908	18
2630	1589.00	1591.00	10.1	0.923	0.9	1898	16
2631	1591.00	1593.00	5.8	0.932	1.2	1932	13
2632	1593.00	1595.00	9.3	0.932	0.6	1899	24
2633	1595.00	1597.00	14.6	0.929	0.7	1849	32
2634	1597.00	1599.00	8.3	0.929	0.7	1914	16
2635	1599.00	1601.00	13.8	0.915	0.9	1863	24
2636	1601.00	1603.00	7.7	0.922	0.9	1916	17
2647	1603.00	1605.00	10.6	0.909	1.3	1887	22
2638	1605.00	1607.00	17.0	0.926	1.2	1808	51
2639	1607.00	1609.00	6.9	0.932	1.2	1919	17
2640	1609.00	1611.00	7.4	0.921	0.9	1920	15
2641	1611.00	1613.00	14.2	0.920	0.9	1865	18
2642	1613.00	1615.00	12.5	0.924	1.2	1877	17
2643	1615.00	1617.00	8.8	0.921	1.0	1908	16
2644	1617.00	1619.00	21.9	0.918	1.3	1791	31
2645	1619.00	1621.00	10.3	0.927	1.0	1896	16
2646	1621.00	1623.00	10.1	0.928	1.0	1895	18
2648	1623.00	1625.00	12.4	0.929	0.8	1879	17
2649	1625.00	1627.00	15.2	0.920	1.3	1847	25
2650	1627.00	1629.00	13.6	0.922	1.0	1866	21
2651	1629.00	1631.00	14.8	0.926	0.8	1857	21
2652	1631.00	1633.00	12.4	0.927	0.8	1878	19
2653	1633.00	1635.00	14.8	0.927	0.9	1859	20
2654	1635.00	1637.00	13.7	0.924	1.0	1871	16
2655	1637.00	1639.00	14.5	0.907	1.3	1860	19
2656	1639.00	1641.00	13.6	0.908	1.6	1856	28

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<u>TOSCO</u> <u>Assay</u> <u>No.</u>	<u>Sample Depth</u>		<u>Oil</u> <u>Yield</u> <u>(GPT)</u>	<u>Oil</u> <u>Specific</u> <u>Gravity</u>	<u>Water</u> <u>Yield</u> <u>(GPT)</u>	<u>Residue</u> <u>Weight</u> <u>(lbs/ton)</u>	<u>Gas+Loss</u> <u>(lbs/ton)</u>
	<u>Start</u> <u>(Feet)</u>	<u>Finish</u> <u>(Feet)</u>					
2657	1641.00	1643.00	13.7	0.908	1.3	1863	23
2658	1643.00	1645.00	15.4	0.907	1.2	1851	23
2659	1645.00	1647.00	17.7	0.907	1.2	1827	29
2660	1647.00	1649.00	25.4	0.906	1.4	1757	38
2661	1649.00	1651.00	24.7	0.904	1.4	1767	36
2662	1651.00	1653.00	20.8	0.904	1.7	1797	33
2663	1653.00	1655.00	12.8	0.910	1.6	1868	22
2664	1655.00	1657.00	14.5	0.910	1.4	1853	24
2665	1657.00	1659.00	12.6	0.910	1.7	1873	18
2666	1659.00	1661.00	20.0	0.910	1.7	1813	21
	1661.00	1664.00	MISSING CORE				
2667	1664.00	1665.00	10.9	0.912	1.8	1887	15
2668	1665.00	1667.00	8.4	0.917	1.3	1913	12
2669	1667.00	1669.00	13.7	0.908	1.3	1871	15
2670	1669.00	1671.00	6.9	0.911	1.8	1921	11
2671	1671.00	1673.00	9.1	0.913	1.9	1857	58
2672	1673.00	1675.00	11.2	0.915	1.3	1883	20
2673	1675.00	1677.00	18.3	0.910	1.7	1820	27
2674	1677.00	1679.00	9.5	0.916	1.6	1894	20
2675	1679.00	1681.00	9.4	0.914	1.8	1896	17
2676	1681.00	1683.00	19.8	0.914	1.7	1807	28
2677	1683.00	1685.00	11.6	0.925	1.6	1877	21
2678	1685.00	1687.00	8.1	0.919	1.7	1907	17
2679	1687.00	1689.00	9.2	0.924	1.7	1898	18
2680	1689.00	1691.00	22.3	0.921	1.9	1778	35
2681	1691.00	1693.00	8.7	0.916	1.7	1904	15
2682	1693.00	1695.00	11.1	0.916	2.2	1873	25
2683	1695.00	1697.00	31.6	0.913	2.0	1700	42
2684	1697.00	1699.00	10.9	0.918	1.2	1890	17
2685	1699.00	1701.00	8.3	0.922	1.4	1910	14
2686	1701.00	1703.00	12.0	0.917	1.6	1876	20
2687	1703.00	1705.00	13.0	0.917	1.2	1872	19
2688	1705.00	1707.00	11.1	0.917	1.3	1884	20
2689	1707.00	1709.00	28.1	0.914	1.9	1725	44
2690	1709.00	1711.00	14.0	0.920	1.3	1858	24
2691	1711.00	1713.00	8.6	0.908	1.3	1909	15
2692	1713.00	1715.00	10.1	0.919	1.3	1893	19
2693	1715.00	1716.00	18.1	0.918	1.5	1821	28
	1716.00	1719.00	MISSING CORE				
2694	1719.00	1721.00	10.2	0.916	1.0	1898	16
2695	1721.00	1723.00	15.9	0.917	1.0	1850	21
2696	1723.00	1725.00	11.9	0.922	1.1	1885	14
2697	1725.00	1727.00	8.2	0.924	1.1	1911	16
2698	1727.00	1729.00	10.7	0.926	1.2	1892	15
2699	1729.00	1731.00	15.5	0.922	1.0	1851	21

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<u>TOSCO</u>	<u>Sample Depth</u>		<u>Oil</u>	<u>Oil</u>	<u>Water</u>	<u>Residue</u>	<u>Gas+Loss</u>
<u>Assay</u>	<u>Start</u>	<u>Finish</u>	<u>Yield</u>	<u>Yield</u>	<u>Yield</u>	<u>Weight</u>	
<u>No.</u>	<u>(Feet)</u>	<u>(Feet)</u>	<u>(GPT)</u>	<u>Gravity</u>	<u>(GPT)</u>	<u>(lbs/ton)</u>	<u>(lbs/ton)</u>
2700	1731.00	1733.00	11.8	0.933	0.9	1883	17
2701	1733.00	1735.00	11.7	0.927	0.9	1885	16
2702	1735.00	1737.00	12.5	0.927	0.8	1878	19
2703	1737.00	1739.00	10.4	0.920	1.0	1897	15
2704	1739.00	1741.00	12.3	0.919	1.0	1876	22
2705	1741.00	1743.00	13.5	0.923	0.8	1870	19
2706	1743.00	1745.00	9.4	0.918	1.0	1904	16
2707	1745.00	1747.00	17.2	0.914	1.2	1832	27
2708	1747.00	1749.00	10.2	0.921	1.1	1896	17
2709	1749.00	1751.00	9.2	0.909	0.7	1911	13
2710	1751.00	1753.00	14.9	0.919	0.9	1853	26
2711	1753.00	1755.00	14.5	0.919	1.0	1854	27
2712	1755.00	1757.00	10.3	0.925	0.9	1893	19
2713	1757.00	1759.00	11.9	0.922	1.0	1882	19
2714	1759.00	1761.00	14.2	0.917	0.9	1860	24
2715	1761.00	1763.00	13.1	0.907	0.8	1876	18
2716	1763.00	1765.00	12.4	0.919	0.7	1882	16
2717	1765.00	1767.00	15.5	0.926	0.8	1850	23
2718	1767.00	1769.00	17.4	0.922	1.0	1833	25
2719	1769.00	1771.00	22.4	0.915	1.0	1789	33
2720	1771.00	1773.00	13.4	0.922	0.7	1868	22
2721	1773.00	1775.00	11.0	0.925	0.9	1886	21
2722	1775.00	1776.00	11.5	0.924	0.8	1888	17
	1776.00	1779.00	MISSING CORE				
2723	1779.00	1781.00	11.3	0.924	0.7	1887	20
2724	1781.00	1783.00	8.1	0.921	1.0	1910	20
2725	1783.00	1785.00	7.5	0.929	0.8	1914	20
2726	1785.00	1787.00	16.1	0.921	0.7	1846	24
2727	1787.00	1789.00	13.9	0.915	1.0	1864	21
2728	1789.00	1791.00	11.2	0.916	0.7	1887	21
2729	1791.00	1793.00	35.8	0.915	1.7	1674	39
2730	1793.00	1795.00	15.5	0.915	0.8	1855	20
2731	1795.00	1797.00	15.4	0.914	0.8	1866	9
2732	1797.00	1799.00	15.9	0.918	0.9	1846	25
2733	1799.00	1801.00	33.4	0.907	1.0	1692	46
2734	1801.00	1803.00	17.7	0.907	1.0	1834	24
2735	1803.00	1805.00	28.7	0.905	1.8	1720	48
2736	1805.00	1807.00	16.2	0.913	1.2	1843	24
2737	1807.00	1809.00	7.4	0.915	0.5	1923	17
2738	1809.00	1811.00	4.6	0.915	1.0	1938	20
2739	1811.00	1813.00	10.1	0.913	0.7	1905	12
2754	1813.00	1814.00	5.1	0.926	0.8	1942	11