

480

Core samples from ERDA/LERC Southern Uta Basin

Core hole 12 drilled in the NW 1/4 SE 1/4 (1597 feet FSL, 2471.13 feet FEL)
of sec. 19, T12S, R24E, S.1. B. & M., Uintah County, Utah

Surface elevation: 6,261 feet

| Sample Numbers | Weight | | Percent | | Gals/Ton | | Specific Gravity | Tendency to Coke | Remarks |
|----------------|---|-----------|---------|-----|----------|--------------------------|------------------|------------------|---------|
| | Laramie | Thick | Run No. | Oil | Water | Spr. + Shale Loss + Loss | Oil | Water | |
| 1 | 1813 | 910-920 | 63648 | 2.1 | 1.8 | 952 | 0.7 | 5.4 | 4.7 |
| 2 | 1819 | 920-930 | 63649 | 2.1 | 1.7 | 953 | 0.7 | 5.6 | 4.1 |
| 3 | 1815 | 930-944 | 63650 | 1.9 | 1.2 | 958 | 1.6 | 3.7a | 2.9 |
| 4 | 1816 | 944-950 | 63651 | 1.5 | 2.0 | 958 | 0.7 | 3.9a | 4.8 |
| 5 | 1817 | 950-960 | 63652 | 1.9 | 1.6 | 961 | 0.7 | 3.6a | 3.8 |
| 6 | 1818 | 960-970 | 63653 | 1.6 | 1.2 | 968 | 0.7 | 4.2a | 2.9 |
| 7 | 1819 | 970-980 | 63654 | 1.0 | 1.5 | 966 | 0.7 | 2.6a | 3.6 |
| 8 | 1820 | 980-994 | 63655 | 1.2 | 1.8 | 966 | 0.4 | 3.0a | 4.3 |
| 9 | 1821 | 994-1000 | 63656 | 0.7 | 1.9 | 972 | 0.2 | 1.9a | 4.6 |
| 10 | 1822 | 1000-1007 | 63657 | 0.6 | 1.7 | 973 | 0.7 | 1.5a | 4.1 |
| 11 | 1823 | 1007-1017 | 63658 | 0.9 | 1.6 | 973 | 0.2 | 2.2a | 3.8 |
| 12 | 1824 | 1017-1030 | 63659 | 1.0 | 1.6 | 971 | 0.3 | 2.2a | 3.8 |
| 13 | 1825 | 1030-1040 | 63660 | 0.8 | 1.8 | 972 | 0.2 | 2.1a | 4.5 |
| 14 | 1826 | 1040-1050 | 63661 | 1.0 | 1.6 | 970 | 0.4 | 2.7a | 3.8 |
| 15 | 1827 | 1050-1060 | 63662 | 0.7 | 1.8 | 970 | 0.7 | 2.5a | 3.4 |
| 16 | 1828 | 1060-1070 | 63663 | 1.0 | 1.8 | 969 | 0.3 | 2.6a | 4.3 |
| 17 | 1829 | 1070-1080 | 63664 | 0.8 | 1.9 | 970 | 0.3 | 2.1a | 4.6 |
| 18 | 1830 | 1080-1090 | 63665 | 0.9 | 1.4 | 966 | 1.1 | 2.2a | 3.9 |
| 19 | 1831 | 1090-1100 | 63666 | 0.8 | 0.9 | 964 | 1.3 | 2.0a | 2.2 |
| 20 | 1832 | 1100-1110 | 63667 | 1.8 | 1.5 | 956 | 1.1 | 2.6a | 3.6 |
| 21 | 1833 | 1110-1120 | 63668 | 2.3 | 1.5 | 940 | 1.2 | 6.0 | 3.6 |
| 22 | 1831 | 1120-1130 | 63669 | 2.1 | 1.5 | 943 | 1.1 | 5.3 | 3.6 |
| 23 | 1835 | 1130-1140 | 63670 | 1.6 | 1.5 | 959 | 1.0 | 4.2a | 3.6 |
| 24 | 1836 | 1140-1150 | 63671 | 1.9 | 1.6 | 965 | 1.0 | 4.9a | 3.8 |
| 25 | 1837 | 1150-1160 | 63672 | 2.6 | 1.3 | 948 | 1.3 | 6.7 | 3.1 |
| 26 | 1838 | 1160-1170 | 63673 | 2.2 | 1.6 | 952 | 1.0 | 5.6 | 3.8 |
| 27 | 1839 | 1170-1180 | 63674 | 1.3 | 1.8 | 957 | 1.2 | 3.5a | 4.3 |
| 28 | 1840 | 1180-1190 | 63675 | 1.2 | 1.8 | 961 | 0.9 | 3.1a | 4.3 |
| 29 | 1841 | 1190-1200 | 63676 | 1.5 | 1.7 | 960 | 0.8 | 3.9a | 4.1 |
| 30 | 1842 | 1200-1210 | 63677 | 1.2 | 1.1 | 973 | 0.4 | 3.0a | 2.6 |
| 31 | See footnote at end of table | | | | | | | | |
| 32 | | | | | | | | | |
| 33 | Core Samples received: October 29, 1977; assays made on air-dried samples | | | | | | | | |
| 34 | Assay Completed: December 23, 1980 | | | | | | | | |
| 35 | Laramie Energy Technology Center, Laramie, Wyoming | | | | | | | | |
| 36 | If a--specific gravity estimated as 0.920 | | | | | | | | |
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SITE 12

| 1 | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | 9 | 10 | 11 | 12 |
|----|----------------|------|-------------|-------|---------|-------------|------------|-----|--------|----|-------|--|------------------|-------------------|---------|----|----|
| | Sample Numbers | | Weight | | Percent | | Gals/TON | | Oil L' | | Water | | Specific Gravity | Tenacity 10 Cokes | Remarks | | |
| | Laraine | Ther | Run No. | Oil | Water | Spent Shale | Gas & Loss | | | | | | | | | | |
| 1 | SB880 | 1843 | 121.0-122.0 | 63678 | 1.0 | 1.0 | 97.2 | 0.8 | 27a | 24 | | | .925 | NONE | | | |
| 2 | | 1849 | 122.0-123.0 | 63679 | 1.8 | 1.3 | 96.9 | 0.5 | 34a | 31 | | | | | | | |
| 3 | | 1845 | 123.0-124.0 | 63680 | 1.5 | 1.5 | 96.5 | 0.5 | 38a | 36 | | | | | | | |
| 4 | | 1846 | 124.0-125.0 | 63681 | 1.5 | 1.6 | 96.3 | 0.6 | 38a | 38 | | | | | | | |
| 5 | | 1847 | 126.0-126.0 | 63682 | 1.6 | 1.5 | 96.3 | 0.6 | 42a | 36 | | | | | | | |
| 6 | | 1848 | 126.0-127.0 | 63683 | 1.6 | 1.7 | 96.0 | 0.7 | 43a | 41 | | | | | | | |
| 7 | | 1849 | 127.0-128.0 | 63684 | 2.2 | 1.4 | 95.6 | 0.6 | 56 | 38 | | | .917 | | | | |
| 8 | | 1850 | 128.0-129.0 | 63685 | 1.9 | 1.5 | 95.9 | 0.7 | 57a | 36 | | | .920 | | | | |
| 9 | | 1851 | 129.0-129.7 | 63686 | 0.7 | 0.7 | 96.6 | 1.6 | 23a | 22 | | | | | | | |
| 10 | | 1852 | 130.0-131.2 | 63687 | 1.5 | 1.7 | 96.3 | 0.5 | 38a | 41 | | | | | | | |
| 11 | | 1853 | 131.7-132.0 | 63688 | 2.0 | 1.4 | 95.9 | 0.7 | 51 | 34 | | | .931 | | | | |
| 12 | | 1854 | 132.0-133.6 | 63689 | 2.3 | 1.3 | 95.1 | 1.4 | 40 | 29 | | | .926 | | | | |
| 13 | | 1855 | 133.6-134.0 | 63690 | 2.1 | 1.3 | 95.4 | 1.2 | 54 | 31 | | | .931 | | | | |
| 14 | | 1856 | 134.0-135.0 | 63691 | 2.8 | 1.2 | 94.7 | 1.3 | 71 | 29 | | | .923 | | | | |
| 15 | | 1857 | 135.0-136.0 | 63692 | 2.3 | 1.5 | 95.0 | 1.2 | 60 | 36 | | | .927 | | | | |
| 16 | | 1858 | 136.0-137.0 | 63693 | 1.5 | 1.5 | 95.4 | 1.3 | 40a | 43 | | | .920 | | | | |
| 17 | | 1859 | 137.0-138.0 | 63694 | 1.5 | 1.9 | 95.4 | 1.2 | 40a | 46 | | | | | | | |
| 18 | | 1860 | 138.0-139.0 | 63695 | 1.6 | 1.7 | 95.7 | 1.0 | 42a | 41 | | | | | | | |
| 19 | | 1861 | 139.0-140.0 | 63696 | 1.3 | 1.5 | 94.4 | 0.8 | 33a | 34 | | | | | | | |
| 20 | | 1862 | 140.0-141.0 | 63697 | 1.4 | 1.6 | 94.0 | 1.0 | 37a | 38 | | | | | | | |
| 21 | | 1863 | 141.0-142.0 | 63698 | 1.3 | 1.0 | 95.7 | 2.0 | 33a | 24 | | | | | | | |
| 22 | | 1864 | 142.0-143.0 | 63699 | 1.7 | 1.1 | 96.2 | 0.9 | 43a | 26 | | | | | | | |
| 23 | | 1865 | 143.0-143.6 | 63700 | 1.8 | 1.3 | 95.2 | 1.7 | 47a | 31 | | | | | | | |
| 24 | | 1866 | 143.6-145.0 | 63701 | 2.2 | 1.5 | 95.8 | 0.5 | 56 | 36 | | | .933 | | | | |
| 25 | | 1867 | 145.0-146.0 | 63702 | 2.4 | 1.2 | 95.2 | 1.2 | 62 | 29 | | | .936 | | | | |
| 26 | | 1868 | 146.0-147.0 | 63703 | 2.0 | 1.7 | 95.7 | 0.6 | 52 | 41 | | | .934 | | | | |
| 27 | | 1869 | 147.0-148.0 | 63704 | 1.9 | 1.9 | 95.8 | 0.4 | 49a | 46 | | | .920 | | | | |
| 28 | | 1870 | 148.0-149.0 | 63705 | 1.8 | 1.8 | 96.1 | 0.3 | 47a | 43 | | | | | | | |
| 29 | | 1871 | 149.0-150.0 | 63706 | 1.9 | 1.5 | 96.3 | 0.3 | 49a | 36 | | | | | | | |
| 30 | | 1872 | 150.0-151.0 | 63707 | 2.5 | 1.1 | 95.9 | 0.5 | 65 | 26 | | | .937 | | | | |
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| WELDON JONES NUMBER | Sample Numbers | | W. & G. Wt | | PERCENT | | CALCULATED | | SPECIFIC GRAVITY | Tendency TO COKE | Remarks |
|------------------------|----------------|------------------|------------|-----|---------|--------------------|------------|-------|---------------------|---------------------|---------|
| | Lithology | Thick | Run No. | Oil | Water | Spent Solvent Loss | Oil L | Water | | | |
| 1 | SDR 80 | 1823 151.0-152.0 | 63708 | 1.2 | 1.5 | 95.7 | 0.6 | 5.8 | 3.6 | 1.928 | None |
| 2 | | 1824 152.0-153.0 | 63709 | 2.3 | 1.7 | 95.4 | 0.6 | 5.7 | 4.1 | 1.928 | |
| 3 | | 1825 153.0-154.0 | 63710 | 1.6 | 1.5 | 95.7 | 1.2 | 4.2a | 3.6 | 1.920 | |
| 4 | | 1826 154.0-155.0 | 63711 | 1.7 | 1.9 | 95.9 | 0.5 | 4.5a | 4.6 | | |
| 5 | | 1827 155.0-156.0 | 63712 | 1.7 | 1.9 | 96.0 | 0.4 | 4.3a | 4.6 | | |
| 6 | | 1828 156.0-157.0 | 63713 | 1.8 | 1.8 | 95.8 | 0.6 | 4.6a | 4.3 | | |
| 7 | | 1829 157.0-158.3 | 63714 | 1.0 | 0.9 | 96.4 | 1.2 | 2.7a | 2.2 | | |
| 8 | | 1830 160.0-161.0 | 63715 | 2.6 | 1.4 | 95.1 | 0.9 | 4.6 | 3.4 | 1.927 | |
| 9 | | 1831 161.0-162.0 | 63716 | 2.4 | 1.8 | 95.0 | 0.8 | 4.2 | 4.3 | 1.925 | |
| 10 | | 1832 162.0-163.0 | 63717 | 2.3 | 1.8 | 95.4 | 0.6 | 5.6 | 4.3 | 1.929 | |
| 11 | | 1833 163.0-164.0 | 63718 | 1.7 | 1.8 | 95.9 | 0.6 | 4.4a | 4.3 | 1.920 | |
| 12 | | 1834 164.0-165.0 | 63719 | 2.3 | 1.6 | 95.3 | 0.5 | 6.0 | 3.8 | 1.923 | |
| 13 | | 1835 165.0-166.0 | 63720 | 2.2 | 1.4 | 95.7 | 0.7 | 5.8 | 3.4 | 1.925 | |
| 14 | | 1836 166.0-167.0 | 63721 | 2.6 | 1.5 | 95.1 | 0.8 | 6.8 | 3.6 | 1.927 | |
| 15 | | 1837 167.0-168.0 | 63722 | 2.3 | 1.6 | 95.5 | 0.6 | 6.0 | 3.8 | 1.925 | |
| 16 | | 1838 168.0-169.0 | 63723 | 2.2 | 1.8 | 95.3 | 0.7 | 5.8 | 4.3 | 1.924 | |
| 17 | | 1839 169.0-170.0 | 63724 | 2.2 | 1.7 | 95.4 | 0.7 | 5.6 | 4.1 | 1.926 | |
| 18 | | 1840 170.0-171.0 | 63725 | 2.6 | 1.6 | 95.1 | 0.7 | 6.8 | 3.8 | 1.931 | |
| 19 | | 1841 171.0-172.0 | 63726 | 2.3 | 1.4 | 95.7 | 0.6 | 6.0 | 3.4 | 1.929 | |
| 20 | | 1842 172.0-173.0 | 63727 | 1.8 | 1.7 | 95.8 | 0.7 | 4.8a | 4.1 | 1.920 | |
| 21 | | 1843 173.0-174.0 | 63728 | 1.3 | 1.8 | 96.3 | 0.6 | 3.4a | 4.3 | | |
| 22 | | 1844 174.0-175.0 | 63729 | 1.5 | 1.7 | 96.2 | 0.6 | 3.8a | 4.1 | | |
| 23 | | 1845 175.0-176.0 | 63730 | 1.0 | 1.5 | 97.1 | 0.4 | 2.2a | 3.6 | | |
| 24 | | 1846 176.0-177.2 | 63731 | 1.6 | 1.3 | 96.7 | 0.4 | 4.3a | 3.1 | | |
| 25 | | 1847 177.2-178.3 | 63732 | 5.8 | 1.1 | 94.7 | 1.1 | 15.2 | 2.6 | 1.918 | |
| 26 | | 1848 178.3-179.5 | 63733 | 2.2 | 1.7 | 95.5 | 0.6 | 5.6 | 4.1 | 1.931 | |
| 27 | | 1849 179.5-180.5 | 63734 | 1.3 | 1.4 | 96.0 | 1.3 | 3.4a | 3.4 | 1.920 | |
| 28 | | 1850 180.5-182.0 | 63735 | 1.7 | 2.2 | 95.9 | 0.7 | 4.5a | 5.3 | 1.920 | |
| 29 | | 1851 182.0-183.1 | 63736 | 2.7 | 1.5 | 94.7 | 0.9 | 1.7 | 3.6 | 1.919 | |
| 30 | | 1852 183.1-184.2 | 63737 | 6.3 | 1.1 | 94.7 | 1.7 | 16.7 | 2.6 | 1.909 | |
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3.0.3.12

| WILSON JONES MADE IN USA | Sample Numbers | | Weight | | Percent | | Gals/Ton | | Specific Gravity | Tendency to Coke | Remarks |
|-----------------------------|----------------|------|-----------|-------|---------|-------------|----------|-------|---------------------|---------------------|---------|
| | Laramie | Thin | Run No. | Oil | Water | Spent Shale | Gas Loss | Oil L | Water | | |
| 1 | SR80 | 1403 | 1842-1848 | 63738 | 78 | 1.0 | 89.2 | 20 | 20.4 | 24 | 914 |
| 2 | | 1409 | 1848-1855 | 63739 | 72 | 1.8 | 95.2 | 08 | 5.7 | 43 | 917 |
| 3 | | 1905 | 1855-1861 | 63740 | 27 | 1.5 | 96.6 | 1.2 | 7.0 | 36 | 920 |
| 4 | | 1906 | 1861-1870 | 63741 | 18 | 1.4 | 95.7 | 1.1 | 4.8a | 34 | 920 |
| 5 | | 1907 | 1870-1880 | 63742 | 29 | 1.0 | 95.0 | 1.1 | 7.5 | 24 | 922 |
| 6 | | 1908 | 1880-1892 | 63743 | 39 | 1.3 | 94.6 | 1.2 | 7.6 | 3.1 | 922 |
| 7 | | 1909 | 1892-1902 | 63744 | 28 | 0.8 | 96.3 | 3.1 | 25.7 | 1.9 | 911 |
| 8 | | 1910 | 1902-1910 | 63745 | 32 | 0.8 | 96.6 | 1.4 | 8.4 | 1.9 | 928 |
| 9 | | 1911 | 1910-1920 | 63746 | 1.6 | 0.8 | 96.2 | 1.4 | 4.1a | 1.9 | 920 |
| 10 | | 1912 | 1920-1928 | 63747 | 22 | 1.0 | 95.9 | 0.9 | 5.7 | 2.4 | 925 |
| 11 | | 1913 | 1928-1938 | 63748 | 30 | 0.7 | 95.4 | 0.9 | 7.9 | 1.7 | 923 |
| 12 | | 1914 | 1938-1953 | 63749 | 2.5 | 0.6 | 96.3 | 0.6 | 6.4 | 1.4 | 927 |
| 13 | | 1915 | 1953-1965 | 63750 | 28 | 0.7 | 99.6 | 1.9 | 70.2 | 1.7 | 923 |
| 14 | | 1916 | 1965-1975 | 63751 | 2.9 | 0.6 | 95.8 | 0.7 | 7.6 | 1.4 | 928 |
| 15 | | 1917 | 1975-1982 | 63752 | 1.9 | 0.5 | 97.1 | 0.5 | 6.0a | 1.3 | 920 |
| 16 | | 1918 | 1982-1993 | 63753 | 1.6 | 0.5 | 96.8 | 1.1 | 4.3a | 1.3 | 920 |
| 17 | | 1919 | 1993-1997 | 63754 | 3.9 | 0.3 | 95.4 | 0.9 | 10.5 | 0.7 | 8.5 |
| 18 | | 1920 | 1997-2002 | 63755 | 1.7 | 0.4 | 96.8 | 1.1 | 8.4a | 1.0 | 920 |
| 19 | | 1921 | 2002-2005 | 63756 | 8.2 | 0.8 | 88.8 | 2.2 | 2.14 | 1.9 | 921 |
| 20 | | 1923 | 2000-2030 | 63757 | 5.8 | 0.7 | 96.7 | 1.8 | 1.52 | 1.7 | 919 |
| 21 | | 1924 | 2030-2040 | 63758 | 7.2 | 0.8 | 96.7 | 2.1 | 1.88 | 1.9 | 917 |
| 22 | | 1925 | 2040-2050 | 63759 | 2.5 | 0.6 | 95.6 | 1.3 | 6.5 | 1.4 | 918 |
| 23 | | 1926 | 2050-2058 | 63760 | 2.1 | 0.6 | 96.2 | 1.1 | 5.3 | 1.4 | 932 |
| 24 | | 1927 | 2058-2070 | 63761 | 1.9 | 0.6 | 96.9 | 0.6 | 8.9a | 1.4 | 920 |
| 25 | | 1928 | 2070-2080 | 63762 | 0.9 | 0.4 | 97.6 | 1.1 | 2.3a | 1.0 | |
| 26 | | 1929 | 2080-2090 | 63763 | 1.2 | 0.6 | 97.6 | 0.6 | 3.0a | 1.4 | |
| 27 | | 1930 | 2090-2100 | 63764 | 1.1 | 0.6 | 97.9 | 0.4 | 2.9a | 1.4 | |
| 28 | | 1931 | 2100-2110 | 63765 | 1.3 | 0.7 | 97.5 | 0.5 | 3.3a | 1.7 | |
| 29 | | 1932 | 2110-2120 | 63766 | 1.9 | 0.6 | 97.0 | 0.5 | 4.8a | 1.4 | |
| 30 | | 1933 | 2120-2128 | 63767 | 2.5 | 0.6 | 96.2 | 0.7 | 6.5 | 1.4 | 925 |
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| WILSON JONES MADE IN U.S.A. | Sample Numbers | | Wt 18 hr | | Report | | | Gals/TON | | Spec. Gravity | Tendency to Coke | Remarks |
|--------------------------------|----------------|-------------|----------|-----|--------|-----------|-------------|----------|-------|---------------|---------------------|---------|
| | Larminie | Thair | Run No. | Oil | Water | Spent Sls | Cons + Loss | Oil L' | Water | | | |
| 1 | 1934 | 2128-2134 | 63748 | 24 | 0.9 | 828 | 17 | 216 | 2.2 | 920 | None | |
| 2 | 1935 | 2134-2140 | 63749 | 25 | 0.7 | 961 | 27 | 6.5 | 1.7 | 931 | | |
| 3 | 1936 | 2140-2150 | 63750 | 27 | 0.6 | 971 | 26 | 43a | 1.4 | 920 | | |
| 4 | 1937 | 2150-2160 | 63751 | 10 | 0.9 | 982 | 24 | 27a | 1.0 | | | |
| 5 | 1938 | 2160-2170 | 63752 | 11 | 0.5 | 987 | 25 | 30a | 1.2 | | | |
| 6 | 1939 | 2170-2180 | 63753 | 12 | 0.5 | 989 | 19 | 31a | 1.2 | | | |
| 7 | 1940 | 2180-2190 | 63754 | 13 | 0.6 | 970 | 11 | 34a | 1.1 | | | |
| 8 | 1941 | 2190-2200 | 63755 | 14 | 0.7 | 971 | 25 | 36a | 1.7 | | | |
| 9 | 1942 | 2200-2213 | 63756 | 28 | 0.6 | 981 | 25 | 23a | 1.4 | | | |
| 10 | 1943 | 2213-2225 | 63757 | 16 | 0.8 | 948 | 28 | 42a | 1.9 | | | |
| 11 | 1944 | 2225-2235 | 63758 | 28 | 1.1 | 931 | 10 | 71 | 26 | 930 | | |
| 12 | 1945 | 2235-2242 | 63759 | 17 | 1.3 | 964 | 24 | 45a | 3.1 | 930 | | |
| 13 | 1946 | 2242-2250 | 63760 | 19 | 1.3 | 962 | 24 | 49a | 3.1 | 930 | | |
| 14 | 1947 | 2250-2264 | 63761 | 21 | 1.1 | 965 | 25 | 58 | 26 | 916 | | |
| 15 | 1948 | 2264-2270 | 63762 | 10 | 0.7 | 972 | 11 | 25a | 1.7 | 920 | | |
| 16 | 1949 | 2270-2280 | 63763 | 32 | 0.7 | 951 | 10 | 83 | 1.7 | 919 | | |
| 17 | 1950 | 2280-2291 | 63764 | 122 | 1.1 | 871 | 26 | 822 | 26 | 910 | | |
| 18 | 1951 | 2291-2300 | 63769 | 40 | 0.7 | 990 | 13 | 104 | 1.7 | 929 | | |
| 19 | 1952 | 2300-230.6 | 63790 | 29 | 0.9 | 951 | 11 | 76 | 2.3 | 928 | | |
| 20 | 1953 | 230.6-232.0 | 63791 | 23 | 0.7 | 960 | 10 | 61 | 1.7 | 920 | | |
| 21 | 1954 | 232.0-233.0 | 63792 | 24 | 0.8 | 957 | 11 | 63 | 1.9 | 921 | | |
| 22 | 1955 | 233.0-234.0 | 63793 | 30 | 0.8 | 952 | 10 | 77 | 1.9 | 927 | | |
| 23 | 1956 | 234.0-235.0 | 63794 | 24 | 0.7 | 953 | 16 | 62 | 1.7 | 930 | | |
| 24 | 1957 | 235.0-236.0 | 63795 | 27 | 0.8 | 952 | 11 | 76 | 1.9 | 930 | | |
| 25 | 1958 | 236.0-237.0 | 63796 | 28 | 1.1 | 951 | 10 | 73 | 2.6 | 920 | | |
| 26 | 1959 | 237.0-238.0 | 63809 | 30 | 0.8 | 953 | 29 | 78 | 1.9 | 933 | | |
| 27 | 1960 | 238.0-239.0 | 63810 | 17 | 1.0 | 969 | 24 | 15a | 2.4 | 920 | | |
| 28 | 1961 | 239.0-240.0 | 63811 | 39 | 0.9 | 942 | 1.0 | 99 | 2.3 | 934 | | |
| 29 | 1962 | 240.0-241.0 | 63812 | 36 | 0.8 | 949 | 0.7 | 72 | 1.9 | 927 | | |
| 30 | 1963 | 241.0-242.0 | 63813 | 35 | 0.9 | 950 | 26 | 81 | 2.2 | 932 | | |

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| 1 | 2 | | 3 | 4 | | 5 | 6 | 7 | | 8 | 9 | 10 | 11 | 12 |
|----|-------------------------|---------|-----|----------------|-------|---------------------|----------|-------|-------|------------------|------------------|---------|----|----|
| | Sample Numbers | Run No. | Oil | Weight Percent | Water | Spent Shale Gas/Las | Gals/Ton | Oil L | Water | Specific Gravity | Tendency to Coke | Remarks | | |
| 1 | SBP 80 1964 242.0-243.0 | 63814 | 34 | 08 | 950 | 08 | 8.7 | 1.9 | 727 | None | | | | |
| 2 | 1965 243.0-244.0 | 63815 | 38 | 09 | 943 | 10 | 9.8 | 2.2 | 730 | " | | | | |
| 3 | 1966 244.0-245.0 | 63816 | 40 | 1.0 | 943 | 17 | 10.2 | 2.4 | 735 | " | | | | |
| 4 | 245.0-246.0 | | | | | | 7.0 | | | | | | | |
| 5 | 1968 246.0-247.0 | 63817 | 25 | 1.1 | 958 | 06 | 6.4 | 2.6 | 722 | " | | | | |
| 6 | 1969 247.0-248.0 | 63818 | 20 | 1.5 | 964 | 01 | 5.1 | 3.6 | 719 | " | | | | |
| 7 | 1970 248.0-249.0 | 63819 | 18 | 1.1 | 953 | 08 | 7.1 | 2.6 | 727 | " | | | | |
| 8 | 1971 249.0-249.8 | 63820 | 40 | 07 | 943 | 10 | 10.4 | 1.7 | 728 | " | | | | |
| 9 | 1972 249.8-250.6 | 63821 | 53 | 08 | 922 | 17 | 13.6 | 1.9 | 733 | " | | | | |
| 10 | 1973 250.6-251.5 | 63822 | 28 | 1.1 | 939 | 22 | 7.1 | 2.6 | 746 | " | | | | |
| 11 | 1974 251.5-252.6 | 63823 | 10 | 1.4 | 963 | 23 | 2.7 | 3.4 | 720 | " | | | | |
| 12 | 1975 252.6-254.0 | 63824 | 20 | 1.3 | 959 | 13 | 5.3 | 3.1 | 721 | " | | | | |
| 13 | 1976 254.0-255.0 | 63825 | 30 | 1.1 | 946 | 13 | 7.8 | 2.6 | 729 | " | | | | |
| 14 | 1977 255.0-256.0 | 63826 | 36 | 1.8 | 942 | 14 | 8.3 | 1.9 | 732 | " | | | | |
| 15 | 1978 256.0-257.0 | 63827 | 36 | 08 | 943 | 13 | 8.3 | 1.9 | 735 | " | | | | |
| 16 | 1979 257.0-258.0 | 63828 | 35 | 1.1 | 939 | 15 | 8.0 | 2.6 | 729 | " | | | | |
| 17 | 1981 258.0-259.0 | 63829 | 36 | 1.0 | 942 | 12 | 8.2 | 2.4 | 730 | " | | | | |
| 18 | 1982 259.0-260.0 | 63830 | 23 | 09 | 947 | 21 | 6.0 | 2.2 | 728 | " | | | | |
| 19 | 1983 260.0-261.0 | 63831 | 30 | 1.0 | 948 | 12 | 7.6 | 2.4 | 726 | " | | | | |
| 20 | 1984 261.0-261.9 | 63832 | 35 | 1.0 | 941 | 19 | 8.1 | 2.4 | 733 | " | | | | |
| 21 | 1985 261.9-263.4 | 63856 | 23 | 09 | 956 | 12 | 6.0 | 2.2 | 720 | " | | | | |
| 22 | 1986 263.4-265.0 | 63857 | 27 | 0.9 | 955 | 09 | 6.9 | 2.2 | 731 | " | | | | |
| 23 | 1987 265.0-266.3 | 63858 | 21 | 1.3 | 943 | 23 | 5.4 | 3.1 | 732 | " | | | | |
| 24 | 1988 266.3-267.4 | 63859 | 36 | 09 | 943 | 12 | 8.3 | 2.2 | 731 | " | | | | |
| 25 | 1989 267.4-268.0 | 63860 | 31 | 1.2 | 946 | 11 | 8.0 | 2.9 | 729 | " | | | | |
| 26 | 1990 268.0-269.0 | 63861 | 23 | 1.5 | 963 | 09 | 6.1 | 3.6 | 729 | " | | | | |
| 27 | 1991 269.0-270.0 | 63862 | 29 | 1.1 | 952 | 08 | 7.5 | 2.6 | 728 | " | | | | |
| 28 | 1992 270.0-271.0 | 63863 | 30 | 1.0 | 951 | 09 | 7.7 | 2.4 | 728 | " | | | | |
| 29 | 1993 271.0-272.4 | 63864 | 28 | 1.3 | 949 | 10 | 8.3 | 3.1 | 724 | " | | | | |
| 30 | 1994 272.4-273.3 | 63865 | 37 | 1.0 | 949 | 09 | 20.0 | 2.4 | 726 | " | | | | |

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Sub 12

| WILSON JONES DATE | Sample Numbers | | Run No. | Weight Percent | | | | Gals/Ton | | Specific Gravity | Tendered to Coker | Remarks |
|----------------------|----------------|-------------|---------|----------------|-------|-------------|------------|----------|-------|------------------|-------------------|---------|
| | Laminar | Ther | | Oil | Water | Spill Shale | Gas & Loss | Oil | Water | | | |
| 1 | 1995 | 273.3-274.0 | 63866 | 2.6 | 1.3 | 95.2 | 0.9 | 6.7 | 3.1 | 927 | None | |
| 2 | 1996 | 274.0-275.0 | 63867 | 2.3 | 1.3 | 95.6 | 0.8 | 5.9 | 3.1 | 925 | " | |
| 3 | 1997 | 275.0-276.0 | 63868 | 1.4 | 1.6 | 96.3 | 0.7 | 3.5a | 3.8 | 920 | " | |
| 4 | 1998 | 276.0-277.0 | 63871 | 2.7 | 1.0 | 96.0 | 0.3 | 2.0 | 2.9 | 925 | " | |
| 5 | 1999 | 277.0-278.0 | 63870 | 3.2 | 1.1 | 94.2 | 1.5 | 8.1 | 2.6 | 938 | " | |
| 6 | 2000 | 278.0-279.0 | 63871 | 3.7 | 0.8 | 94.1 | 1.4 | 8.4 | 1.9 | 933 | " | |
| 7 | 2001 | 279.0-280.0 | 63872 | 3.6 | 0.7 | 94.5 | 1.2 | 8.3 | 1.7 | 927 | " | |
| 8 | 2002 | 280.0-281.0 | 63873 | 2.2 | 1.3 | 95.4 | 1.1 | 5.6 | 3.1 | 924 | " | |
| 9 | 2003 | 281.0-282.0 | 63874 | 1.9 | 1.3 | 95.8 | 1.0 | 4.8a | 3.1 | 920 | " | |
| 10 | 2004 | 282.0-283.0 | 63875 | 1.9 | 1.5 | 95.7 | 0.9 | 5.0a | 3.6 | 921 | " | |
| 11 | 2005 | 283.0-284.0 | 63876 | 1.9 | 1.6 | 95.4 | 1.1 | 5.0a | 3.8 | 921 | " | |
| 12 | 2006 | 284.0-285.0 | 63877 | 1.9 | 1.4 | 95.8 | 0.9 | 5.0a | 3.4 | 921 | " | |
| 13 | 2007 | 285.0-286.6 | 63878 | 2.3 | 0.7 | 92.1 | 1.9 | 18.9 | 1.7 | 930 | " | |
| 14 | 2008 | 286.6-288.0 | 63879 | 2.5 | 1.2 | 95.3 | 1.0 | 6.4 | 2.9 | 925 | " | |
| 15 | 2009 | 288.0-289.3 | 63880 | 1.9 | 1.5 | 96.6 | 0.0 | 5.0a | 3.6 | 920 | " | |
| 16 | 2010 | 289.3-290.0 | 63881 | 1.9 | 1.4 | 96.1 | 0.6 | 4.9a | 3.4 | 920 | " | |
| 17 | 2011 | 290.0-291.0 | 63882 | 2.2 | 1.3 | 95.8 | 0.7 | 5.8 | 3.1 | 928 | " | |
| 18 | 2012 | 291.0-292.0 | 63883 | 2.1 | 1.6 | 95.4 | 0.9 | 5.3 | 3.8 | 929 | " | |
| 19 | 2013 | 292.0-293.0 | 63884 | 1.8 | 1.6 | 95.8 | 0.8 | 4.7a | 3.8 | 920 | " | |
| 20 | 2014 | 293.0-294.0 | 63885 | 1.8 | 1.7 | 95.6 | 0.9 | 4.8a | 4.1 | 921 | " | |
| 21 | 2015 | 294.0-295.0 | 63886 | 1.9 | 1.7 | 95.5 | 0.9 | 4.7a | 4.1 | 921 | " | |
| 22 | 2016 | 295.0-296.0 | 63887 | 1.7 | 1.5 | 95.7 | 1.1 | 4.4a | 3.6 | 921 | " | |
| 23 | 2017 | 296.0-297.0 | 63888 | 2.1 | 1.5 | 95.6 | 0.8 | 5.6 | 3.6 | 924 | " | |
| 24 | 2018 | 297.0-298.0 | 63889 | 2.1 | 1.4 | 95.5 | 1.0 | 5.4 | 3.4 | 927 | " | |
| 25 | 2019 | 298.0-299.0 | 63890 | 0.8 | 1.2 | 96.5 | 1.5 | 2.2a | 2.9 | 920 | " | |
| 26 | 2020 | 299.0-300.0 | 63891 | 2.5 | 1.3 | 95.4 | 0.8 | 6.4 | 3.1 | 927 | " | |
| 27 | 2021 | 300.0-301.0 | 63893 | 2.3 | 1.3 | 95.1 | 1.3 | 5.9 | 3.1 | 926 | " | |
| 28 | 2022 | 301.0-302.0 | 63894 | 1.4 | 1.3 | 95.7 | 1.6 | 3.7a | 3.1 | 920 | " | |
| 29 | 2023 | 302.0-303.0 | 63895 | 2.4 | 1.4 | 95.0 | 1.2 | 6.1 | 3.4 | 926 | " | |
| 30 | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | |
| 33 | | | | | | | | | | | | |
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| 35 | | | | | | | | | | | | |
| 36 | | | | | | | | | | | | |
| 37 | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | |
| 39 | | | | | | | | | | | | |
| 40 | | | | | | | | | | | | |

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Sub 12

| Sample Nos. | Laramie | Their | Run No. | Weight Percent | | | | Gals/ton | | Specific Gravity | Tendency to Coke | Remarks |
|-------------|---------|-------------|---------|----------------|-------|-------------|------------|----------|-------|------------------|------------------|---------|
| | | | | O.I. | Water | Spent Shale | Gas & Loss | O.I. | Water | | | |
| 1 | 2024 | 303.0-303.9 | 63896 | 28 | 13 | 946 | 13 | 72 | 31 | 928 | None | |
| 2 | 2025 | 303.9-304.8 | 63897 | 23 | 11 | 873 | 23 | 240 | 26 | 927 | " | |
| 3 | 2026 | 304.8-306.0 | 63898 | 24 | 14 | 950 | 12 | 62 | 34 | 927 | " | |
| 4 | 2027 | 306.0-307.0 | 63899 | 21 | 13 | 955 | 11 | 56 | 31 | 929 | " | |
| 5 | 2028 | 307.0-308.0 | 63900 | 19 | 15 | 954 | 12 | 51 | 36 | 920 | " | |
| 6 | 2029 | 308.0-309.0 | 63901 | 19 | 17 | 957 | 07 | 50 | 41 | 920 | " | |
| 7 | 2030 | 309.0-310.0 | 63902 | 19 | 12 | 956 | 13 | 49 | 29 | 920 | " | |
| 8 | 2031 | 310.0-310.7 | 63903 | 103 | 10 | 865 | 22 | 26 | 24 | 925 | " | |
| 9 | 2032 | 310.7-312.0 | 63904 | 31 | 10 | 949 | 10 | 78 | 29 | 935 | " | |
| 10 | 2033 | 312.0-313.0 | 63905 | 25 | 12 | 956 | 07 | 64 | 27 | 932 | " | |
| 11 | 2034 | 313.0-314.0 | 63906 | 15 | 27 | 958 | 18 | 39 | 12 | 920 | " | |
| 12 | 2035 | 314.0-315.0 | 63907 | 30 | 11 | 950 | 29 | 78 | 26 | 935 | " | |
| 13 | 2036 | 315.0-316.0 | 63908 | 39 | 28 | 944 | 29 | 101 | 19 | 932 | " | |
| 14 | 2037 | 316.0-317.0 | 63909 | 49 | 13 | 948 | 10 | 75 | 31 | 934 | " | |
| 15 | 2038 | 317.0-318.0 | 63910 | 19 | 17 | 957 | 07 | 51 | 41 | 920 | " | |
| 16 | 2039 | 318.0-319.0 | 63911 | 16 | 17 | 962 | 05 | 42 | 41 | 923 | " | |
| 17 | 2040 | 319.0-320.0 | 63920 | 20 | 15 | 959 | 06 | 52 | 36 | 923 | " | |
| 18 | 2041 | 320.0-321.0 | 63921 | 25 | 15 | 953 | 07 | 65 | 36 | 925 | " | |
| 19 | 2042 | 321.0-322.0 | 63922 | 30 | 13 | 949 | 08 | 77 | 31 | 932 | " | |
| 20 | 2043 | 322.0-323.0 | 63923 | 63 | 10 | 916 | 11 | 162 | 24 | 928 | " | |
| 21 | 2044 | 323.0-324.0 | 63924 | 28 | 13 | 952 | 07 | 72 | 31 | 932 | " | |
| 22 | 2045 | 324.0-325.0 | 63925 | 19 | 14 | 961 | 06 | 49 | 34 | 920 | " | |
| 23 | 2046 | 325.0-326.0 | 63926 | 41 | 27 | 963 | 17 | 29 | 22 | 920 | " | |
| 24 | 2047 | 326.0-327.0 | 63927 | 34 | 10 | 943 | 13 | 89 | 24 | 925 | " | |
| 25 | 2048 | 327.0-328.0 | 63930 | 27 | 14 | 945 | 14 | 70 | 34 | 935 | " | |
| 26 | 2049 | 328.0-328.1 | 63931 | 42 | 11 | 931 | 16 | 111 | 26 | 921 | " | |
| 27 | 2050 | 329.1-330.0 | 63932 | 32 | 12 | 943 | 13 | 82 | 29 | 923 | " | |
| 28 | 2051 | 330.0-331.0 | 63933 | 25 | 13 | 949 | 13 | 66 | 31 | 920 | " | |
| 29 | 2052 | 331.0-332.4 | 63934 | 21 | 12 | 956 | 11 | 56 | 29 | 907 | " | |
| 30 | 2053 | 332.4-333.4 | 63935 | 113 | 11 | 852 | 24 | 294 | 26 | 925 | " | |

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Sub 12

| Sample Nos. | | Weight & Percent | | | | | | Gals/Ton | | Specific Gravity | Tendency to Cake | Remarks |
|-------------|-------|------------------|-------|-------|--------|-------|------------|----------|-------|------------------|------------------|---------|
| Laramie | Their | Run No. | Oil | Water | Spirit | Stale | Gas & Loss | Oil | Water | | | |
| 1 SR 20 | 2054 | 322.4-334.4 | 63936 | 30 | 08 | 95.2 | 1.0 | 28 | 19 | 931 | None | |
| 2 | 2055 | 334.4-335.4 | 63937 | 21 | 11 | 96.0 | 0.8 | 53 | 26 | 925 | " | |
| 3 | 2056 | 335.4-336.4 | 63938 | 16 | 08 | 96.0 | 1.6 | 40 | 19 | | " | |
| 4 | 2057 | 336.4-337.4 | 63939 | 31 | 12 | 94.8 | 0.9 | 21 | 29 | 925 | " | |
| 5 | 2058 | 337.4-338.2 | 63940 | 70 | 10 | 90.1 | 1.9 | 180 | 24 | 931 | " | |
| 6 | 2059 | 338.2-339.0 | 63941 | 35 | 10 | 94.4 | 1.1 | 91 | 24 | 917 | " | |
| 7 | 2060 | 339.0-340.0 | 63942 | 21 | 11 | 95.4 | 1.4 | 54 | 26 | 916 | " | |
| 8 | 2061 | 340.0-340.6 | 63943 | 39 | 12 | 94.9 | 1.0 | 76 | 29 | 924 | " | |
| 9 | 2062 | 340.6-341.6 | 63944 | 106 | 12 | 86.0 | 2.2 | 225 | 29 | 920 | " | |
| 10 | 2063 | 341.6-343.0 | 63945 | 23 | 11 | 94.7 | 0.9 | 86 | 26 | 930 | " | |
| 11 | 2064 | 343.0-344.0 | 63946 | 28 | 12 | 95.3 | 0.7 | 71 | 29 | 930 | " | |
| 12 | 2065 | 344.0-345.0 | 63947 | 30 | 09 | 95.3 | 0.8 | 78 | 22 | 935 | " | |
| 13 | 2066 | 345.0-346.0 | 63948 | 37 | 08 | 94.7 | 0.8 | 86 | 19 | 933 | " | |
| 14 | 2067 | 346.0-347.0 | 63949 | 39 | 11 | 94.1 | 0.9 | 100 | 26 | 925 | " | |
| 15 | 2068 | 347.0-348.0 | 63950 | 43 | 12 | 92.5 | 2.0 | 112 | 29 | 923 | " | |
| 16 | 2069 | 348.0-349.0 | 63951 | 39 | 10 | 94.2 | 0.9 | 100 | 24 | 932 | " | |
| 17 | 2070 | 349.0-350.0 | 63952 | 41 | 09 | 93.9 | 1.1 | 106 | 22 | 934 | " | |
| 18 | 2071 | 350.0-351.0 | 63953 | 41 | 10 | 94.1 | 0.8 | 106 | 24 | 935 | " | |
| 19 | 2072 | 351.0-352.0 | 63954 | 39 | 09 | 93.7 | 2.0 | 99 | 10 | 932 | " | |
| 20 | 2073 | 352.0-353.0 | 63955 | 45 | 10 | 93.5 | 1.0 | 117 | 24 | 928 | " | |
| 21 | 2074 | 353.0-354.0 | 63956 | 43 | 12 | 93.6 | 0.9 | 113 | 29 | 917 | " | |
| 22 | 2075 | 354.0-355.0 | 63957 | 43 | 13 | 93.3 | 1.1 | 113 | 31 | 918 | " | |
| 23 | 2076 | 355.0-356.0 | 63958 | 44 | 14 | 93.1 | 1.1 | 114 | 34 | 915 | " | |
| 24 | 2077 | 356.0-357.0 | 63959 | 43 | 15 | 93.2 | 1.0 | 111 | 36 | 916 | " | |
| 25 | 2078 | 357.0-358.0 | 63960 | 42 | 13 | 93.2 | 1.3 | 111 | 31 | 918 | " | |
| 26 | 2079 | 358.0-359.0 | 63961 | 46 | 14 | 93.0 | 1.0 | 120 | 34 | 919 | " | |
| 27 | 2080 | 359.0-360.0 | 63962 | 49 | 14 | 92.5 | 1.2 | 127 | 34 | 918 | " | |
| 28 | 2081 | 360.0-361.0 | 63963 | 55 | 13 | 91.8 | 1.4 | 144 | 31 | 915 | " | |
| 29 | 2082 | 361.0-362.0 | 63964 | 48 | 14 | 92.5 | 1.3 | 126 | 24 | 915 | " | |
| 30 | 2083 | 362.0-363.0 | 63966 | 91 | 09 | 88.5 | 1.5 | 236 | 22 | 923 | " | |
| 31 | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | |
| 33 | | | | | | | | | | | | |
| 34 | | | | | | | | | | | | |
| 35 | | | | | | | | | | | | |
| 36 | | | | | | | | | | | | |
| 37 | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | |
| 39 | | | | | | | | | | | | |
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Sub 12

| WILSON-JONES MADE IN USA | Sample Nos. | | Run No. | Weight Percent | | Gals/Ton | | Specific Gravity | Tendency to Cokel | Remarks | |
|-----------------------------|-------------|------------------|---------|----------------|-------|-------------|------------|------------------|-------------------|---------|-------|
| | Laramie | Their | | Oil | Water | Spent Slake | Gas & Loss | | | | Oil/L |
| 1 | SAR 80 | 2084 363.0-364.0 | 63967 | 7.4 | 1.2 | 89.8 | 1.6 | 19.3 | 2.9 | .918 | None |
| 2 | | 2085 364.0-365.0 | 63968 | 7.4 | 1.1 | 89.1 | 1.4 | 26.7 | 2.6 | .912 | " |
| 3 | | 2086 365.0-366.0 | 63969 | 6.6 | 1.3 | 91.1 | 1.0 | 17.3 | 3.1 | .910 | " |
| 4 | | 2087 366.0-367.0 | 63970 | 7.5 | 1.3 | 93.7 | 0.5 | 11.7 | 3.1 | .922 | " |
| 5 | | 2088 367.0-368.0 | 63971 | 4.3 | 1.1 | 94.2 | 0.9 | 11.3 | 2.6 | .913 | " |
| 6 | | 2089 368.0-368.7 | 63972 | 6.0 | 1.1 | 92.0 | 0.9 | 15.8 | 2.6 | .915 | " |
| 7 | | 2090 368.7-370.0 | 63973 | 2.8 | 1.5 | 85.4 | 0.3 | 7.3 | 3.6 | .912 | " |
| 8 | | 2091 370.0-371.0 | 63974 | 2.9 | 1.8 | 85.2 | 1.6 | 6.3 | 1.9 | .913 | " |
| 9 | | 2092 371.0-372.0 | 63975 | 8.0 | 1.2 | 88.2 | 1.6 | 23.5 | 2.9 | .921 | " |
| 10 | | 2093 372.0-373.0 | 63976 | 5.3 | 1.4 | 92.5 | 0.8 | 13.8 | 3.4 | .918 | " |
| 11 | | 2094 373.0-374.0 | 64676 | 2.7 | 1.4 | 94.7 | 1.2 | 7.0 | 3.4 | .916 | " |
| 12 | | 2095 374.0-375.4 | 64677 | 2.4 | 1.3 | 95.2 | 1.1 | 6.3 | 3.1 | .920 | " |
| 13 | | 2096 375.4-377.0 | 64678 | 5.3 | 1.3 | 91.8 | 1.6 | 13.9 | 3.1 | .915 | " |
| 14 | | 2097 377.0-378.0 | 64679 | 2.4 | 1.9 | 94.5 | 1.2 | 6.3 | 4.6 | .911 | " |
| 15 | | 2098 378.0-379.0 | 64680 | 1.5 | 1.7 | 95.6 | 1.2 | 37.2 | 4.1 | .920 | " |
| 16 | | 2099 379.0-380.0 | 64681 | 2.8 | 1.9 | 94.1 | 1.2 | 7.3 | 4.6 | .912 | " |
| 17 | | 2100 380.0-381.0 | 64682 | 2.4 | 1.9 | 94.3 | 1.4 | 6.4 | 4.6 | .913 | " |
| 18 | | 2101 381.0-382.1 | 64683 | 2.2 | 1.4 | 95.2 | 1.2 | 5.7 | 3.4 | .914 | " |
| 19 | | 2102 382.1-383.2 | 64684 | 11.1 | 1.5 | 84.6 | 2.8 | 28.8 | 5.6 | .921 | " |
| 20 | | 2103 383.2-384.0 | 64685 | 3.3 | 1.4 | 94.2 | 1.1 | 8.5 | 3.4 | .915 | " |
| 21 | | 2104 384.0-385.0 | 64686 | 2.7 | 1.6 | 94.2 | 1.5 | 7.0 | 3.8 | .912 | " |
| 22 | | 2105 385.0-386.0 | 64687 | 2.4 | 1.7 | 95.0 | 0.9 | 6.2 | 4.1 | .911 | " |
| 23 | | 2106 386.0-387.0 | 64688 | 2.6 | 1.6 | 95.0 | 0.8 | 6.8 | 3.8 | .915 | " |
| 24 | | 2107 387.0-387.7 | 64689 | 10.7 | 1.4 | 85.5 | 2.4 | 27.8 | 3.4 | .921 | " |
| 25 | | 2108 387.7-389.0 | 64690 | 2.8 | 1.6 | 94.6 | 1.0 | 7.3 | 3.8 | .922 | " |
| 26 | | 2109 389.0-390.0 | 64691 | 1.9 | 1.8 | 95.6 | 0.7 | 4.9 | 4.3 | .920 | " |
| 27 | | 2110 390.0-391.6 | 64692 | 2.4 | 1.8 | 94.8 | 1.0 | 6.3 | 4.3 | .924 | " |
| 28 | | 2111 391.6-392.6 | 64693 | 8.3 | 1.3 | 84.5 | 1.9 | 21.4 | 3.1 | .924 | " |
| 29 | | 2112 392.6-394.0 | 64694 | 2.1 | 0.7 | 95.3 | 1.9 | 5.4 | 1.7 | .923 | " |
| 30 | | 2113 394.0-395.0 | 64695 | 2.6 | 1.5 | 95.0 | 0.9 | 6.8 | 3.6 | .916 | " |
| 31 | | | | | | | | | | | |
| 32 | | | | | | | | | | | |
| 33 | | | | | | | | | | | |
| 34 | | | | | | | | | | | |
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| 36 | | | | | | | | | | | |
| 37 | | | | | | | | | | | |
| 38 | | | | | | | | | | | |
| 39 | | | | | | | | | | | |
| 40 | | | | | | | | | | | |

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S.U.B. 12

| Sample Numbers | | Run No. | Weight Percent | | | | Gal. / Ton | | Specific Gravity | Tendency to Coke | Remarks |
|----------------|-------------|-------------|----------------|-------|-------------|------------|------------|-------|------------------|------------------|---------|
| Laramie | ther | | Oil | Water | Spent Shale | Coast Loss | Oil L' | Water | | | |
| 1 | 580 80 2114 | 3950-396.4 | 64696 | 33 | 16 | 93.7 | 1.4 | 8.7 | 38 | .915 | None |
| 2 | 2115 | 396.4-397.5 | 64697 | 141 | 18 | 81.5 | 2.6 | 36.7 | 43 | .924 | " |
| 3 | 2116 | 397.5-398.0 | 64698 | 26 | 15 | 95.2 | .07 | 6.9 | 36 | .923 | " |
| 4 | 2117 | 398.0-399.0 | 64699 | 2.4 | 17 | 95.2 | .07 | 6.2 | 41 | .921 | " |
| 5 | 2118 | 399.0-400.0 | 64700 | 2.1 | 20 | 95.3 | .06 | 5.5 | 48 | .921 | " |
| 6 | 2119 | 400.0-401.0 | 64701 | 23 | 24 | 94.6 | .07 | 6.0 | 58 | .922 | " |
| 7 | 2120 | 401.0-402.0 | 64702 | 42 | 19 | 92.8 | 1.1 | 10.9 | 46 | .918 | " |
| 8 | 2121 | 402.0-403.0 | 64703 | 37 | 18 | 93.0 | 1.5 | 9.7 | 43 | .922 | " |
| 9 | 2122 | 403.0-404.4 | 64704 | 39 | 17 | 93.2 | 1.2 | 10.2 | 41 | .919 | " |
| 10 | 2123 | 404.4-405.4 | 64705 | 127 | 15 | 83.2 | 2.6 | 33.2 | 36 | .919 | " |
| 11 | 2124 | 405.4-406.7 | 64706 | 23 | 10 | 94.7 | 2.0 | 6.0 | 24 | .916 | " |
| 12 | 2125 | 406.7-407.2 | 64707 | 13 | 15 | 96.8 | .04 | 3.3 | 36 | .920 | " |
| 13 | 2126 | 407.2-408.0 | 64708 | 05 | 17 | 97.0 | .08 | 1.2 | 41 | .920 | " |
| 14 | 2127 | 408.0-409.0 | 64714 | 18 | 19 | 95.3 | 1.0 | 4.8 | 46 | .920 | " |
| 15 | 2128 | 409.0-410.0 | 64715 | 48 | 20 | 91.9 | 1.3 | 12.5 | 48 | .929 | " |
| 16 | 2129 | 410.0-411.0 | 64716 | 51 | 16 | 92.0 | 1.3 | 13.3 | 38 | .917 | " |
| 17 | 2130 | 411.0-412.0 | 64717 | 36 | 16 | 93.7 | 1.1 | 9.3 | 38 | .916 | " |
| 18 | 2131 | 412.0-413.0 | 64718 | 27 | 14 | 94.1 | 1.8 | 7.1 | 34 | .922 | " |
| 19 | 2132 | 413.0-414.0 | 64719 | 64 | 14 | 91.0 | 1.2 | 17.0 | 34 | .907 | " |
| 20 | 2133 | 414.0-415.0 | 64720 | 38 | 15 | 93.5 | 1.2 | 9.9 | 36 | .923 | " |
| 21 | 2134 | 415.0-416.0 | 64721 | 32 | 12 | 94.6 | 1.0 | 8.1 | 29 | .930 | " |
| 22 | 2135 | 416.0-417.7 | 64722 | 22 | 08 | 95.0 | 2.0 | 5.7 | 19 | .925 | " |
| 23 | 2136 | 417.7-418.7 | 64723 | 36 | 19 | 93.3 | 1.2 | 9.4 | 46 | .929 | " |
| 24 | 2137 | 418.7-420.9 | 64724 | 52 | 17 | 91.0 | 2.1 | 13.5 | 9.1 | .914 | " |
| 25 | 2139 | 421.0-422.0 | 64725 | 36 | 22 | 93.1 | 1.1 | 9.2 | 53 | .931 | " |
| 26 | 2140 | 422.0-423.0 | 64726 | 41 | 20 | 92.7 | 1.2 | 10.6 | 48 | .929 | " |
| 27 | 2141 | 423.0-424.0 | 64727 | 37 | 17 | 93.4 | 1.2 | 9.6 | 41 | .927 | " |
| 28 | 2142 | 424.0-425.0 | 64728 | 36 | 19 | 93.3 | 1.2 | 9.4 | 46 | .920 | " |
| 29 | 2143 | 425.0-426.0 | 64729 | 35 | 22 | 93.2 | 1.1 | 9.0 | 53 | .924 | " |
| 30 | 2144 | 426.0-427.0 | 64730 | 33 | 21 | 93.4 | 1.2 | 8.7 | 50 | .924 | " |
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SUB. 12

| WILSON JONES MADE IN U.S.A. | Sample Numbers | | Run No. | Weight Percent | | | | Coal/Tom | | Specific Gravity | Tendency to coke | Remarks |
|--------------------------------|----------------|-------|-------------|----------------|-------|------|-------|----------|------|------------------|------------------|------------------|
| | Lacromia | their | | Oil | Water | Sand | Shale | Gas | Loss | | | |
| 1 | SBR 80 | 2145 | 427.0-428.0 | 64731 | 2.8 | 1.8 | 94.4 | 10 | 7.1 | 4.3 | 925 | Normal |
| 2 | | 2146 | 428.0-429.0 | 64732 | 3.6 | 1.4 | 94.0 | 10 | 7.3 | 3.4 | 924 | " |
| 3 | | 2147 | 429.0-430.0 | 64733 | 2.6 | 1.3 | 95.2 | 0.9 | 6.7 | 3.1 | 922 | " |
| 4 | | 2148 | 430.0-431.0 | 64734 | 1.3 | 1.3 | 96.3 | 2.1 | 3.3a | 3.1 | 920 | " |
| 5 | | 2149 | 431.0-432.0 | 64735 | 2.2 | 1.8 | 95.1 | 0.9 | 5.7 | 4.3 | 918 | " |
| 6 | | 2150 | 432.0-433.0 | 64736 | 4.0 | 1.4 | 93.4 | 1.2 | 10.6 | 3.4 | 916 | " |
| 7 | | 2151 | 433.0-434.0 | 64737 | 3.1 | 1.7 | 92.9 | 1.1 | 8.0 | 4.6 | 924 | " |
| 8 | | 2152 | 434.0-435.0 | 64738 | 3.5 | 2.3 | 93.0 | 1.2 | 9.1 | 5.5 | 923 | " |
| 9 | | 2153 | 435.0-436.0 | 64739 | 3.4 | 2.2 | 93.2 | 1.2 | 8.8 | 5.3 | 927 | " |
| 10 | | 2154 | 436.0-437.7 | 64740 | 5.6 | 1.6 | 91.7 | 1.1 | 14.6 | 3.8 | 918 | " |
| 11 | | 2155 | 437.7-438.5 | 64741 | 6.1 | 2.2 | 90.6 | 1.1 | 16.0 | 5.3 | 908 | Wavy bedded tuff |
| 12 | | 2156 | 438.5-439.7 | 64742 | 3.4 | 0.6 | 94.4 | 1.6 | 8.8 | 1.4 | 921 | " |
| 13 | | 2157 | 439.7-441.0 | 64743 | 4.8 | 1.1 | 92.7 | 1.4 | 12.5 | 2.6 | 919 | " |
| 14 | | 2158 | 441.0-442.0 | 64744 | 2.1 | 1.0 | 95.6 | 1.3 | 5.5 | 2.4 | 926 | " |
| 15 | | 2159 | 442.0-443.0 | 64745 | 2.7 | 1.1 | 95.1 | 1.1 | 7.1 | 2.6 | 925 | " |
| 16 | | 2160 | 443.0-444.0 | 64746 | 4.3 | 0.9 | 93.4 | 1.4 | 11.0 | 2.2 | 923 | " |
| 17 | | 2161 | 444.0-445.0 | 64747 | 2.6 | 1.3 | 94.9 | 1.2 | 6.7 | 3.1 | 924 | " |
| 18 | | 2162 | 445.0-446.0 | 64748 | 2.4 | 1.4 | 95.2 | 1.0 | 6.2 | 3.4 | 922 | " |
| 19 | | 2163 | 446.0-447.0 | 64749 | 2.9 | 1.4 | 94.7 | 1.1 | 7.3 | 3.4 | 922 | " |
| 20 | | 2164 | 447.0-448.0 | 64750 | 2.3 | 1.3 | 95.4 | 1.0 | 5.9 | 5.1 | 919 | " |
| 21 | | 2165 | 448.0-449.0 | 64751 | 4.1 | 1.1 | 93.6 | 1.2 | 10.6 | 2.6 | 918 | " |
| 22 | | 2166 | 449.0-450.0 | 64752 | 3.7 | 1.0 | 94.3 | 1.0 | 9.5 | 2.4 | 920 | " |
| 23 | | 2167 | 450.0-451.0 | 64753 | 3.1 | 1.0 | 94.7 | 1.2 | 8.1 | 2.4 | 918 | " |
| 24 | | 2168 | 451.0-452.2 | 64754 | 10.4 | 0.7 | 85.2 | 3.7 | 27.0 | 1.7 | 924 | " |
| 25 | | 2169 | 452.2-453.0 | 64755 | 4.3 | 0.9 | 93.5 | 1.3 | 11.1 | 2.2 | 921 | " |
| 26 | | 2170 | 453.0-454.0 | 64756 | 4.2 | 0.9 | 93.1 | 1.8 | 11.0 | 2.2 | 921 | " |
| 27 | | 2171 | 454.0-455.0 | 64757 | 4.5 | 0.9 | 93.3 | 1.3 | 11.9 | 2.2 | 916 | " |
| 28 | | 2172 | 455.0-455.8 | 64758 | 4.7 | 0.7 | 92.5 | 2.1 | 12.4 | 1.7 | 910 | " |
| 29 | | 2173 | 455.8-457.0 | 64759 | 10.0 | 1.1 | 86.8 | 2.1 | 26.3 | 2.6 | 911 | " |
| 30 | | 2174 | 457.0-458.0 | 64760 | 4.8 | 0.8 | 93.3 | 1.1 | 12.5 | 1.9 | 911 | " |
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S.O.B. 12

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|----------------|-------------|---------|----------------|-------|-------------|----------|------------------|------------------|---------|--------|----|
| | | | | | | | | | | | |
| Sample Numbers | their | Run No. | Weight Percent | | | Gal./Ton | Specific Gravity | Tendency to coke | Remarks | | |
| Laramie | | | Oil | Water | Spent Shale | Gas+Loss | Oil L | Water | | | |
| SR 80 2175 | 458.0-459.2 | 64761 | 10.9 | 1.0 | 85.7 | 2.4 | 25.6 | 2.4 | .913 | Slight | |
| 2176 | 459.2-459.8 | 64762 | 9.7 | 0.9 | 93.4 | 1.0 | 12.2 | 2.2 | .916 | None | |
| 2177 | 459.8-461.0 | 64763 | 1.8 | 0.8 | 96.5 | 0.9 | 18.2 | 2.2 | .920 | " | |
| 2178 | 461.0-462.0 | 64764 | 1.5 | 0.9 | 96.6 | 1.0 | 3.9a | 2.2 | .920 | " | |
| 2179 | 462.0-463.0 | 64765 | 1.0 | 0.5 | 97.6 | 0.9 | 2.7a | 1.2 | .920 | " | |
| 2180 | 463.0-464.0 | 64766 | 1.2 | 0.4 | 97.1 | 1.3 | 3.1a | 1.0 | .920 | " | |
| 2181 | 464.0-465.0 | 64767 | 2.4 | 0.7 | 96.0 | 0.9 | 6.2 | 1.7 | .922 | " | |
| 2182 | 465.0-466.0 | 64768 | 1.4 | 0.7 | 97.2 | 0.7 | 3.6a | 1.7 | .920 | " | |
| 2183 | 466.0-467.0 | 64769 | 1.0 | 0.8 | 97.5 | 0.7 | 2.7a | 1.9 | .920 | " | |
| 2184 | 467.0-468.0 | 64770 | 0.0 | 0.4 | 98.5 | 1.1 | Trace | 1.1 | .920 | " | |
| 2185 | 468.0-469.0 | 64771 | 0.7 | 0.6 | 98.7 | 0.5 | 1.9a | 1.4 | .920 | " | |
| 2186 | 469.0-469.8 | 64772 | 1.2 | 0.7 | 97.6 | 0.5 | 3.1a | 1.7 | .920 | " | |
| 2187 | 469.8-470.9 | 64773 | 5.7 | 0.9 | 91.7 | 1.7 | 15.0 | 2.2 | .908 | " | |
| 2188 | 470.9-471.9 | 64774 | 4.3 | 0.9 | 93.6 | 1.2 | 11.2 | 2.2 | .908 | " | |
| 2189 | 471.9-473.0 | 64775 | 10.3 | 1.2 | 83.6 | 2.9 | 32.5 | 2.9 | .910 | " | |
| 2190 | 473.0-474.0 | 64776 | 5.5 | 0.9 | 92.0 | 1.6 | 14.4 | 2.2 | .913 | " | |
| 2191 | 474.0-475.1 | 64777 | 5.9 | 1.0 | 92.6 | 1.5 | 12.8 | 2.4 | .911 | " | |
| 2192 | 475.1-476.6 | 64778 | 3.4 | 0.7 | 94.9 | 1.0 | 8.9 | 1.7 | .914 | " | |
| 2193 | 476.6-477.6 | 64779 | 7.1 | 1.0 | 90.2 | 1.7 | 18.4 | 2.4 | .921 | " | |
| 2194 | 477.6-478.5 | 64780 | 12.8 | 1.1 | 83.2 | 2.9 | 33.2 | 2.6 | .924 | " | |
| 2195 | 478.5-480.0 | 64781 | 8.5 | 0.8 | 88.7 | 2.0 | 22.4 | 1.9 | .914 | " | |
| 2196 | 480.0-481.0 | 64782 | 14.1 | 0.7 | 82.0 | 3.2 | 37.7 | 1.7 | .897 | " | |
| 2197 | 481.0-482.0 | 64783 | 18.0 | 1.2 | 77.1 | 3.7 | 47.7 | 2.9 | .904 | " | |
| 2198 | 482.0-483.0 | 64784 | 11.0 | 0.7 | 86.3 | 2.0 | 28.4 | 1.7 | .894 | " | |
| 2199 | 483.0-484.0 | 64785 | 7.0 | 0.9 | 90.3 | 1.8 | 18.5 | 2.2 | .903 | " | |
| 2200 | 484.0-485.0 | 64786 | 6.4 | 0.9 | 90.9 | 1.8 | 16.8 | 2.2 | .909 | " | |
| 2201 | 485.0-486.0 | 64787 | 3.7 | 0.7 | 94.3 | 1.3 | 9.6 | 1.7 | .917 | " | |
| 2202 | 486.0-487.0 | 64788 | 6.1 | 0.7 | 91.3 | 1.9 | 15.8 | 1.7 | .917 | " | |
| 2203 | 487.0-488.0 | 64789 | 7.3 | 0.8 | 89.9 | 2.0 | 19.2 | 1.9 | .914 | " | |
| 2204 | 488.0-489.0 | 64790 | 2.6 | 0.4 | 95.0 | 2.0 | 6.9 | 1.0 | .916 | " | |

S. b. B. 12

| Wilson Jones MADE IN U.S.A. | Sample Numbers | | Run No. | Weight Percent | | | | Coal / Ton | | Specific Gravity | Tendency to coke | Remarks |
|--------------------------------|----------------|--------|-------------|----------------|-------|-------|-------|------------|-------|------------------|------------------|---------|
| | Karamie | these | | Dil | Water | Spent | Shale | Gas + loss | Water | | | |
| 1 | SBR 80 | 2205 | 489.0-490.0 | 64791 | 4.4 | 0.7 | 933 | 1.4 | 11.5 | 1.17 | None | |
| 2 | | 2206 | 490.0-490.9 | 64792 | 3.5 | 0.6 | 944 | 1.5 | 9.2 | 1.14 | " | |
| 3 | | 2207 | 490.9-491.4 | 64793 | 4.0 | 1.7 | 936 | 0.7 | 10.9 | 1.11 | " | |
| 4 | | 2207.5 | 491.4-493.0 | 64794 | 3.6 | 0.7 | 946 | 1.1 | 9.4 | 1.17 | " | |
| 5 | | 2208 | 493.0-494.0 | 64795 | 3.2 | 0.6 | 952 | 1.0 | 8.5 | 1.14 | " | |
| 6 | | 2209 | 494.0-495.0 | 64796 | 4.4 | 0.6 | 940 | 1.0 | 11.7 | 1.14 | " | |
| 7 | | 2210 | 495.0-496.6 | 64797 | 1.4 | 1.1 | 81.7 | 2.8 | 37.3 | 1.26 | Slight | |
| 8 | | 2211 | 496.6-497.9 | 64798 | 8.7 | 0.7 | 885 | 2.1 | 23.2 | 1.17 | None | |
| 9 | | 2212 | 497.9-499.0 | 64799 | 5.5 | 0.6 | 91.2 | 2.7 | 14.6 | 1.14 | " | |
| 10 | | 2213 | 499.0-500.0 | 64800 | 13.2 | 0.7 | 82.6 | 3.5 | 30.8 | 1.17 | " | |
| 11 | | 2214 | 500.0-501.0 | 64801 | 13.0 | 0.5 | 83.5 | 3.0 | 34.4 | 1.12 | Slight | |
| 12 | | 2215 | 501.0-502.0 | 64802 | 25.7 | 0.9 | 66.5 | 6.9 | 68.4 | 1.22 | Heavy | |
| 13 | | 2216 | 502.0-503.0 | 64803 | 24.7 | 0.9 | 69.6 | 4.8 | 66.3 | 1.22 | " | |
| 14 | | 2217 | 503.0-504.0 | 64804 | 28.9 | 1.3 | 61.2 | 8.6 | 76.4 | 1.31 | " | |
| 15 | | 2218 | 504.0-505.0 | 64805 | 29.3 | 1.4 | 63.1 | 6.2 | 72.7 | 1.34 | " | |
| 16 | | 2219 | 505.0-506.0 | 64806 | 21.3 | 1.4 | 71.7 | 5.6 | 56.2 | 1.34 | Moderate | |
| 17 | | 2220 | 506.0-507.0 | 64807 | 19.0 | 0.7 | 76.2 | 4.1 | 50.2 | 1.17 | Slight | |
| 18 | | 2221 | 507.0-508.0 | 64808 | 20.6 | 1.2 | 74.2 | 4.0 | 53.9 | 1.29 | Moderate | |
| 19 | | 2222 | 508.0-509.0 | 64809 | 7.4 | 0.9 | 89.8 | 1.9 | 19.3 | 1.22 | None | |
| 20 | | 2223 | 509.0-510.0 | 64810 | 10.9 | 0.6 | 86.4 | 2.1 | 28.5 | 1.14 | " | |
| 21 | | 2224 | 510.0-511.0 | 64811 | 14.4 | 0.7 | 82.0 | 2.9 | 37.7 | 1.17 | " | |
| 22 | | 2225 | 511.0-512.4 | 64812 | 6.6 | 0.5 | 91.5 | 1.4 | 17.4 | 1.12 | " | |
| 23 | | 2226 | 512.4-513.0 | 64813 | 22.0 | 0.8 | 73.3 | 3.9 | 57.9 | 1.19 | " | |
| 24 | | 2227 | 513.0-514.0 | 64814 | 14.9 | 0.9 | 78.9 | 4.3 | 39.9 | 1.22 | " | |
| 25 | | 2228 | 514.0-514.9 | 64815 | 19.7 | 0.8 | 75.7 | 3.8 | 52.4 | 1.19 | " | |
| 26 | | 2229 | 514.9-516.3 | 64816 | 7.2 | 0.6 | 90.6 | 1.6 | 19.3 | 1.14 | " | |
| 27 | | 2230 | 516.3-517.3 | 64817 | 17.7 | 0.9 | 78.8 | 2.6 | 46.8 | 1.22 | " | |
| 28 | | 2231 | 517.3-518.4 | 64818 | 5.4 | 0.3 | 91.9 | 2.4 | 14.3 | 1.07 | " | |
| 29 | | 2232 | 518.4-519.4 | 64819 | 4.7 | 0.5 | 93.6 | 1.2 | 12.4 | 1.02 | " | |
| 30 | | 2233 | 519.4-520.3 | 64820 | 13.4 | 0.8 | 83.4 | 2.4 | 35.3 | 1.19 | " | |
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S. U. B 12

| Sample Numbers | | Run No. | Weight Percent | | | | Coal./Ton | | Specific Gravity | tendency to coke | Remarks |
|----------------|-------------|-------------|----------------|-------|-------------|----------|-----------|-------|------------------|------------------|-------------------|
| Laramie | Thair | | Dil | Water | Spent Shale | Gas+loss | Oil L | Water | | | |
| 1 | SBR 80 2234 | 520.3-521.4 | 64821 | 137 | 11 | 824 | 24 | 359 | 26 | 917 | None |
| 2 | 2235 | 521.4-522.6 | 64822 | 52 | 08 | 927 | 13 | 136 | 19 | 913 | " |
| 3 | 2236 | 522.6-524.3 | 64823 | 51 | 05 | 925 | 19 | 133 | 12 | 913 | " |
| 4 | 2237 | 524.3-525.0 | 64824 | 106 | 08 | 858 | 28 | 229 | 19 | 913 | " |
| 5 | 2238 | 525.0-526.0 | 64825 | 139 | 07 | 822 | 32 | 368 | 17 | 904 | " |
| 6 | 2239 | 526.0-527.0 | 64826 | 99 | 06 | 870 | 25 | 265 | 14 | 897 | " |
| 7 | 2240 | 527.0-528.0 | 64827 | 86 | 06 | 885 | 23 | 229 | 14 | 904 | " |
| 8 | 2241 | 528.0-529.0 | 64828 | 132 | 08 | 828 | 32 | 351 | 19 | 903 | " |
| 9 | 2242 | 529.0-530.0 | 64841 | 73 | 07 | 900 | 20 | 193 | 17 | 905 | " |
| 10 | 2243 | 530.0-531.0 | 64842 | 51 | 05 | 926 | 18 | 134 | 12 | 913 | " |
| 11 | 2244 | 531.0-532.0 | 64843 | 34 | 06 | 944 | 16 | 89 | 14 | 918 | " |
| 12 | 2245 | 532.0-533.4 | 64844 | 49 | 06 | 929 | 16 | 130 | 14 | 912 | " |
| 13 | 2246 | 533.4-534.3 | 64845 | 107 | 08 | 858 | 26 | 277 | 22 | 926 | " |
| 14 | 2247 | 534.3-535.1 | 64846 | 39 | 08 | 939 | 14 | 101 | 19 | 919 | " |
| 15 | 2248 | 535.1-536.0 | 64847 | 29 | 07 | 956 | 08 | 75 | 17 | 915 | " |
| 16 | 2249 | 536.0-537.0 | 64848 | 10 | 05 | 981 | 04 | 27a | 12 | | " |
| 17 | 2250 | 537.0-538.0 | 64849 | 17 | 04 | 973 | 06 | 45a | 10 | | " |
| 18 | 2251 | 538.0-538.8 | 64854 | 34 | 06 | 947 | 13 | 70 | 14 | 907 | " |
| 19 | 2252 | 538.8-539.6 | 64851 | 73 | 08 | 908 | 11 | 193 | 19 | 902 | " |
| 20 | 2253 | 539.6-541.1 | 64852 | 17 | 17 | 960 | 06 | 43a | 41 | | " |
| 21 | 2254 | 541.1-542.4 | 64853 | 11 | 12 | 841 | 36 | 292 | 29 | 909 | " |
| 22 | 2255 | 542.4-543.5 | 64854 | 26 | 05 | 956 | 13 | 69 | 12 | 911 | " |
| 23 | 2256 | 543.5-544.6 | 64855 | 30 | 06 | 954 | 10 | 71 | 14 | 905 | " |
| 24 | 2257 | 544.6-545.5 | 64856 | 95 | 10 | 877 | 18 | 248 | 24 | 914 | " |
| 25 | 2258 | 545.5-546.9 | 64857 | 141 | 07 | 977 | 05 | 28a | 17 | | " |
| 26 | 2259 | 546.9-548.0 | 64858 | 43 | 09 | 939 | 09 | 112 | 12 | 917 | " |
| 27 | 2260 | 548.0-549.3 | 64859 | 10 | 20 | 966 | 07 | 26a | 48 | | Curly bedded Tuff |
| 28 | 2261 | 549.3-550.5 | 64860 | 25 | 12 | 956 | 07 | 67 | 29 | 915 | " |
| 29 | 2262 | 550.5-552.0 | 64861 | 141 | 05 | 970 | 14 | 28a | 12 | | " |
| 30 | 2263 | 552.0-553.0 | 64862 | 12 | 04 | 972 | 12 | 31a | 10 | | " |
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S.O.B 12

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|----------------|------------|------------|-------|-------|-------------|----------|----------|------------------|------------------|---------|----|
| Sample Numbers | Their | Run Number | oil | water | Spent Shale | Gas Loss | Gals/Ton | Specific Gravity | Tendency to Coke | Remarks | |
| hucamic | | | | | | | oil / 1 | water | | | |
| 1 | SR 80-2264 | 553.0-5510 | 64863 | 0.7 | 0.1 | 78.1 | 0.6 | 24. | 1.0 | None | |
| 2 | 2265 | 554.0-5550 | 64865 | 0.0 | 0.1 | 78.7 | 1.2 | Trace | 0.1 | | |
| 3 | 2266 | 5550-5560 | 64866 | 0.0 | 0.2 | 78.8 | 1.0 | Trace | 0.5 | | |
| 4 | 2267 | 5560-5571 | 64867 | 1.2 | 0.1 | 78.2 | 0.5 | 32a | 0.2 | 920 | |
| 5 | 2268 | 5571-5580 | 64868 | 0.5 | 0.5 | 78.6 | 0.4 | 12a | 1.2 | 920 | |
| 6 | 2269 | 5580-5591 | 64869 | 1.0 | 1.0 | 77.4 | 0.6 | 27a | 2.4 | 920 | |
| 7 | 2270 | 5591-5600 | 64870 | 5.2 | 0.9 | 72.8 | 1.1 | 13.6 | 2.2 | 913 | |
| 8 | 2271 | 5600-5620 | 64871 | 3.0 | 0.6 | 75.6 | 0.8 | 78 | 1.4 | 905 | |
| 9 | 2272 | 5620-5630 | 64872 | 6.5 | 0.7 | 91.2 | 1.6 | 17.2 | 1.7 | 905 | |
| 10 | 2273 | 5630-5640 | 64873 | 2.2 | 0.5 | 96.8 | 0.5 | 5.9 | 1.2 | 905 | |
| 11 | 2274 | 5640-5650 | 64874 | 2.9 | 0.6 | 95.7 | 0.9 | 2.5 | 1.4 | 904 | |
| 12 | 2275 | 5650-5660 | 64875 | 2.4 | 0.5 | 96.3 | 0.8 | 6.4 | 1.2 | 910 | |
| 13 | 2276 | 5660-5670 | 64876 | 1.4 | 0.5 | 97.7 | 0.4 | 3.5a | 1.2 | 920 | |
| 14 | 2277 | 5670-5680 | 64877 | 1.9 | 0.3 | 96.8 | 1.0 | 5.0a | 0.7 | 920 | |
| 15 | 2278 | 5680-5690 | 64878 | 2.1 | 0.4 | 96.5 | 1.0 | 5.5 | 1.0 | 912 | |
| 16 | 2279 | 5690-5697 | 64879 | 3.2 | 1.1 | 94.6 | 1.1 | 8.3 | 2.6 | 909 | |
| 17 | 2280 | 5697-5710 | 64880 | 2.3 | 1.0 | 95.9 | 0.8 | 6.2 | 2.4 | 901 | |
| 18 | 2281 | 5710-5720 | 64881 | 2.2 | 1.3 | 95.6 | 0.9 | 5.9 | 3.1 | 889 | |
| 19 | 2282 | 5720-5733 | 64882 | 1.6 | 0.5 | 97.0 | 0.9 | 4.3a | 1.2 | 920 | |
| 20 | 2283 | 5733-5750 | 64883 | 1.8 | 0.7 | 96.7 | 0.8 | 4.6a | 1.7 | 920 | |
| 21 | 2284 | 5750-5760 | 64884 | 2.3 | 1.2 | 87.9 | 1.6 | 19.4 | 2.9 | 906 | |
| 22 | 2285 | 5760-5770 | 64885 | 5.8 | 1.3 | 91.5 | 1.4 | 15.2 | 3.1 | 907 | |
| 23 | 2286 | 5770-5779 | 64886 | 0.0 | 0.9 | 97.9 | 1.2 | Trace | 2.0 | | |
| 24 | 2287 | 5779-5790 | 64887 | 1.5 | 1.9 | 95.9 | 0.7 | 11.0a | 4.6 | 920 | |
| 25 | 2288 | 5790-5801 | 64889 | 5.4 | 1.3 | 92.1 | 1.2 | 13.9 | 3.1 | 924 | |
| 26 | 2289 | 5801-5812 | 64890 | 1.9 | 0.4 | 96.7 | 1.0 | 5.1a | 1.0 | 920 | |
| 27 | 2290 | 5812-5830 | 64891 | 0.0 | 0.9 | 98.1 | 0.7 | Trace | 2.1 | | |
| 28 | 2291 | 5830-5840 | 64892 | 0.0 | 0.7 | 98.8 | 0.5 | Trace | 1.6 | | |
| 29 | 2292 | 5840-5870 | 64893 | 2.1 | 0.2 | 97.2 | 0.5 | 5.6 | 0.5 | 922 | |
| 30 | 2293 | 5870-5880 | 64894 | 0.0 | 0.4 | 99.3 | 0.3 | Trace | 1.0 | | |
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|------------------------------|----------------|-----------|---------------|--|-------|------------|----------|-------|---------------------|---------------------|---------|--|
| WILSON JONES LARAMIE COAL | Sample Numbers | | Run Number | Weight/ Percent | | Gas + Loss | Coal/Ton | | Specific Gravity | Tendency to Coke | Remarks | |
| | Laramie | Thief | | oil | water | | oil | water | | | | |
| 1 | SBR80-2294 | 5880-5910 | 64895 | 0.0 | 0.6 | 98.8 | 0.0 | 1.4 | | None | | |
| 2 | 2295 | 5910-5940 | 64896 | 0.0 | 1.0 | 98.5 | 0.0 | 2.4 | | | | |
| 3 | 2296 | 5940-5980 | 64897 | 1.2 | 0.6 | 98.0 | 0.2 | 1.4 | • 890 | | | |
| 4 | 2297 | 5980-5960 | 64898 | 1.6 | 0.1 | 96.8 | 1.1 | 0.2 | • 920 | | | |
| 5 | 2298 | 5960-5970 | 64899 | 1.7 | 0.1 | 97.8 | 1.4 | 0.2 | • 920 | | | |
| 6 | 2299 | 5970-5980 | 64900 | 1.8 | 0.1 | 97.3 | 1.8 | 0.2 | • 920 | | | |
| 7 | 2300 | 5980-5982 | 64901 | 1.8 | 0.1 | 96.0 | 1.6 | 0.2 | • 920 | | | |
| 8 | 2301 | 5982-6211 | | BARREN ROCK - NOT ASSAYED - END OF CORE | | | | | | | | |
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