

K E R O G E N     A L L   L I S T S  
FOR  
THE CLEVELAND CLIFFS IRON COMPANY-DELL P-3

| DEPTH | DENSITY LOG |         |              | VELOCITY LOG |         |              | DENSITY AND VELOCITY |              |
|-------|-------------|---------|--------------|--------------|---------|--------------|----------------------|--------------|
|       | PHO-E       | GAL/TON | ACCUM. YIELD | PHO-B        | GAL/TON | ACCUM. YIELD | GAL/TON              | ACCUM. YIELD |
| 760   | 2.280       | 17.5    | 17.5         | 92.2         | 20.6    | 23.6         | 13.1                 | 13.1         |
| 761   | 2.160       | 27.5    | 45.0         | 92.5         | 25.1    | 45.7         | 26.3                 | 45.4         |
| 762   | 2.200       | 24.1    | 69.1         | 97.7         | 30.7    | 75.4         | 27.4                 | 72.7         |
| 763   | 2.280       | 17.5    | 86.6         | 96.8         | 29.7    | 106.1        | 23.6                 | 96.3         |
| 764   | 2.220       | 22.4    | 109.0        | 89.9         | 22.4    | 128.4        | 22.4                 | 112.7        |
| 765   | 2.260       | 19.1    | 128.1        | 85.6         | 13.0    | 146.4        | 18.6                 | 137.3        |
| 766   | 2.380       | 9.8     | 138.0        | 81.3         | 15.3    | 160.2        | 11.8                 | 149.1        |
| 767   | 2.420       | 6.9     | 144.8        | 81.3         | 13.3    | 174.1        | 10.4                 | 159.5        |
| 768   | 2.420       | 6.9     | 151.7        | 80.9         | 13.4    | 187.5        | 10.2                 | 169.6        |
| 769   | 2.400       | 8.3     | 160.1        | 90.4         | 13.0    | 200.5        | 10.7                 | 180.3        |
| 770   | 2.390       | 9.1     | 169.2        | 81.3         | 13.3    | 214.3        | 11.5                 | 191.7        |
| 771   | 2.420       | 6.9     | 176.1        | 80.9         | 13.4    | 227.7        | 10.2                 | 201.9        |
| 772   | 2.460       | 4.0     | 180.1        | 80.0         | 12.6    | 240.3        | 8.3                  | 210.2        |
| 773   | 2.460       | 4.0     | 184.1        | 81.7         | 14.2    | 254.5        | 9.1                  | 219.3        |
| 774   | 2.420       | 6.9     | 191.0        | 83.5         | 15.9    | 270.5        | 11.4                 | 230.7        |
| 775   | 2.410       | 7.0     | 205.5        | 87.8         | 20.2    | 290.7        | 13.9                 | 244.7        |
| 776   | 2.420       | 6.9     | 205.5        | 92.9         | 25.5    | 316.2        | 16.2                 | 260.8        |
| 777   | 2.370       | 16.0    | 229.7        | 95.9         | 28.7    | 344.9        | 19.6                 | 280.5        |
| 778   | 2.330       | 13.6    | 229.7        | 98.5         | 31.6    | 376.5        | 22.6                 | 303.1        |
| 779   | 2.290       | 16.0    | 258.8        | 99.4         | 32.6    | 409.0        | 24.6                 | 327.7        |
| 780   | 2.220       | 22.4    | 258.8        | 99.4         | 32.6    | 441.6        | 27.5                 | 355.2        |
| 781   | 2.250       | 19.1    | 303.1        | 98.5         | 33.6    | 475.2        | 26.8                 | 382.0        |
| 782   | 2.320       | 14.4    | 303.1        | 98.5         | 31.6    | 506.7        | 23.0                 | 404.9        |
| 783   | 2.340       | 12.8    | 315.9        | 97.2         | 30.1    | 536.9        | 21.5                 | 426.4        |
| 784   | 2.290       | 16.7    | 332.7        | 97.7         | 30.7    | 567.5        | 23.7                 | 450.1        |
| 785   | 2.180       | 25.8    | 358.4        | 99.4         | 32.6    | 600.1        | 29.2                 | 479.3        |
| 786   | 2.090       | 33.7    | 392.2        | 104.6        | 38.5    | 638.6        | 36.1                 | 515.4        |
| 787   | 2.090       | 33.7    | 425.9        | 111.5        | 46.7    | 685.4        | 40.2                 | 555.6        |
| 788   | 2.110       | 31.9    | 457.9        | 114.5        | 50.5    | 735.8        | 41.2                 | 596.8        |
| 789   | 2.050       | 37.5    | 495.3        | 111.5        | 46.7    | 782.6        | 42.1                 | 638.9        |
| 790   | 1.980       | 44.3    | 539.6        | 106.3        | 40.5    | 823.1        | 42.4                 | 681.3        |
| 791   | 2.020       | 40.3    | 579.9        | 101.5        | 34.9    | 858.0        | 37.6                 | 719.0        |
| 792   | 2.180       | 25.8    | 605.7        | 95.9         | 28.7    | 886.7        | 27.2                 | 746.2        |
| 793   | 2.280       | 17.5    | 623.2        | 92.5         | 25.1    | 911.8        | 21.3                 | 767.5        |
| 794   | 2.350       | 12.1    | 635.3        | 87.8         | 20.2    | 932.0        | 16.1                 | 783.6        |
| 795   | 2.370       | 10.6    | 645.8        | 86.5         | 18.9    | 950.9        | 14.7                 | 799.4        |
| 796   | 2.320       | 14.4    | 660.2        | 87.3         | 19.7    | 972.6        | 17.0                 | 816.4        |
| 797   | 2.340       | 12.8    | 673.1        | 86.5         | 18.9    | 989.5        | 15.9                 | 832.3        |
| 798   | 2.350       | 12.1    | 685.1        | 83.5         | 15.9    | 1009.4       | 14.0                 | 846.3        |
| 799   | 2.320       | 12.6    | 698.7        | 83.0         | 15.5    | 1020.9       | 14.5                 | 860.8        |
| 800   | 2.310       | 15.2    | 713.9        | 83.5         | 15.9    | 1036.8       | 15.5                 | 876.4        |
| 801   | 2.340       | 12.8    | 726.7        | 86.0         | 19.4    | 1053.2       | 15.6                 | 892.0        |
| 802   | 2.300       | 15.9    | 742.7        | 81.6         | 24.1    | 1070.4       | 20.0                 | 912.0        |
| 803   | 2.310       | 24.0    | 767.6        | 84.2         | 26.9    | 1104.2       | 25.9                 | 937.9        |
| 804   | 2.300       | 24.7    | 802.2        | 97.2         | 30.1    | 1136.4       | 32.4                 | 970.3        |
| 805   | 2.310       | 24.7    | 836.9        | 101.5        | 34.9    | 1171.3       | 34.3                 | 1004.6       |
| 806   | 2.310       | 21.5    | 858.4        | 100.0        | 30.0    | 1210.3       | 30.0                 | 1034.6       |
| 807   | 2.310       | 21.5    | 879.9        | 107.0        | 40.7    | 1257.0       | 40.7                 | 1075.3       |
| 808   | 2.310       | 21.5    | 901.4        | 107.0        | 40.7    | 1297.7       | 40.7                 | 1116.0       |
| 809   | 2.310       | 21.5    | 922.9        | 107.0        | 40.7    | 1338.4       | 40.7                 | 1156.7       |
| 810   | 2.310       | 21.5    | 944.4        | 107.0        | 40.7    | 1379.1       | 40.7                 | 1197.4       |

## K E E D G E N A N A L Y S I S

FOR

THE CLEVELAND CLIFFS IRON COMPANY-KELL P-3

| DEPTH | DENSITY LOG |         |              | VELOCITY LOG |         |              | DENSITY AND VELOC |              |
|-------|-------------|---------|--------------|--------------|---------|--------------|-------------------|--------------|
|       | PHD-B       | GAL/TON | ACCUM. YIELD | PHD-B        | GAL/TON | ACCUM. YIELD | GAL/TON           | ACCUM. YIELD |
| 810   | 1.820       | 61.3    | 1012.5       | 124.8        | 63.3    | 1433.7       | 62.6              | 1223.1       |
| 811   | 1.740       | 70.8    | 1083.3       | 131.7        | 73.3    | 1507.0       | 72.0              | 1295.2       |
| 812   | 1.700       | 75.8    | 1159.1       | 139.0        | 83.7    | 1590.7       | 79.6              | 1374.8       |
| 813   | 1.660       | 81.0    | 1240.2       | 144.2        | 91.4    | 1682.2       | 80.2              | 1461.0       |
| 814   | 1.690       | 77.1    | 1317.3       | 135.6        | 78.8    | 1761.0       | 77.9              | 1539.1       |
| 815   | 1.800       | 63.4    | 1380.9       | 128.7        | 69.1    | 1830.1       | 66.4              | 1605.5       |
| 816   | 1.860       | 58.9    | 1437.7       | 124.4        | 63.3    | 1893.4       | 60.1              | 1665.6       |
| 817   | 1.870       | 55.8    | 1493.5       | 115.2        | 56.4    | 1949.8       | 56.1              | 1721.7       |
| 818   | 2.000       | 42.3    | 1535.8       | 112.3        | 47.7    | 1997.6       | 45.0              | 1766.7       |
| 819   | 2.170       | 26.6    | 1562.4       | 105.4        | 39.4    | 2037.0       | 33.0              | 1799.7       |
| 820   | 2.210       | 23.2    | 1585.6       | 98.5         | 31.6    | 2068.6       | 27.4              | 1827.1       |
| 821   | 2.120       | 31.0    | 1616.7       | 97.2         | 30.1    | 2098.7       | 30.6              | 1857.7       |
| 822   | 2.160       | 27.5    | 1644.2       | 102.8        | 36.4    | 2135.1       | 32.0              | 1889.6       |
| 823   | 2.190       | 24.9    | 1669.1       | 105.9        | 40.0    | 2175.1       | 32.5              | 1922.1       |
| 824   | 2.090       | 23.7    | 1702.8       | 108.9        | 43.6    | 2218.7       | 38.7              | 1960.8       |
| 825   | 1.960       | 46.3    | 1749.1       | 114.0        | 49.8    | 2268.6       | 48.1              | 2008.8       |
| 826   | 1.910       | 52.9    | 1800.6       | 117.5        | 54.3    | 2322.8       | 52.9              | 2061.7       |
| 827   | 1.980       | 44.3    | 1844.8       | 114.9        | 51.0    | 2373.8       | 47.6              | 2109.3       |
| 828   | 2.090       | 29.2    | 1873.8       | 111.5        | 46.7    | 2420.5       | 40.2              | 2149.5       |
| 829   | 2.140       | 29.2    | 1907.8       | 105.9        | 40.0    | 2460.6       | 34.6              | 2184.2       |
| 830   | 2.090       | 29.2    | 1943.8       | 102.0        | 35.5    | 2496.1       | 34.6              | 2218.8       |
| 831   | 2.140       | 29.2    | 1974.8       | 102.0        | 35.5    | 2531.6       | 32.4              | 2251.2       |
| 832   | 2.230       | 23.2    | 2007.8       | 102.0        | 36.4    | 2568.0       | 29.0              | 2280.2       |
| 833   | 2.210       | 23.2    | 2015.6       | 101.5        | 34.9    | 2602.9       | 29.1              | 2309.3       |
| 834   | 2.140       | 29.2    | 2044.9       | 100.3        | 33.6    | 2636.5       | 31.4              | 2340.7       |
| 835   | 2.090       | 23.7    | 2078.6       | 98.5         | 31.6    | 2666.1       | 32.7              | 2373.3       |
| 836   | 2.120       | 31.0    | 2109.6       | 95.1         | 27.8    | 2695.9       | 29.4              | 2402.8       |
| 837   | 2.310       | 15.2    | 2124.8       | 91.6         | 24.1    | 2720.0       | 19.6              | 2422.4       |
| 838   | 2.310       | 15.2    | 2139.9       | 91.6         | 24.1    | 2744.2       | 19.6              | 2442.0       |
| 839   | 2.300       | 15.9    | 2155.9       | 93.4         | 26.0    | 2770.2       | 21.0              | 2463.0       |
| 840   | 2.280       | 17.5    | 2173.4       | 96.4         | 29.3    | 2799.4       | 23.4              | 2486.4       |
| 841   | 2.130       | 30.1    | 2203.5       | 98.5         | 31.6    | 2831.0       | 30.8              | 2517.3       |
| 842   | 2.080       | 34.7    | 2238.2       | 101.1        | 34.5    | 2865.5       | 34.6              | 2551.8       |
| 843   | 2.130       | 30.1    | 2268.3       | 105.0        | 39.0    | 2904.4       | 34.6              | 2586.4       |
| 844   | 2.150       | 28.4    | 2296.7       | 103.3        | 37.0    | 2941.4       | 32.7              | 2619.1       |
| 845   | 2.160       | 27.5    | 2324.2       | 102.8        | 36.4    | 2977.9       | 32.0              | 2651.0       |
| 846   | 2.120       | 25.8    | 2350.0       | 99.0         | 32.1    | 3010.0       | 28.9              | 2680.0       |
| 847   | 2.250       | 19.5    | 2369.9       | 96.8         | 29.7    | 3039.7       | 24.8              | 2704.8       |
| 848   | 2.200       | 16.7    | 2386.6       | 95.1         | 27.8    | 3067.5       | 22.3              | 2727.1       |
| 849   | 2.310       | 15.2    | 2401.8       | 94.2         | 26.9    | 3094.4       | 21.0              | 2748.1       |
| 850   | 2.330       | 13.6    | 2415.4       | 92.1         | 24.6    | 3119.0       | 19.1              | 2767.2       |
| 851   | 2.330       | 13.6    | 2429.0       | 89.9         | 22.4    | 3141.4       | 18.0              | 2785.2       |
| 852   | 2.290       | 16.7    | 2443.7       | 87.3         | 20.2    | 3163.6       | 18.5              | 2803.7       |
| 853   | 2.290       | 17.5    | 2458.2       | 85.5         | 19.9    | 3180.5       | 18.3              | 2822.0       |
| 854   | 2.330       | 12.9    | 2471.7       | 87.3         | 20.2    | 3200.7       | 16.5              | 2838.5       |
| 855   | 2.340       | 12.9    | 2484.7       | 87.3         | 20.2    | 3220.9       | 16.5              | 2855.0       |
| 856   | 2.320       | 13.6    | 2501.7       | 84.0         | 16.7    | 3237.6       | 15.2              | 2869.7       |
| 857   | 2.320       | 14.4    | 2516.1       | 87.6         | 20.2    | 3257.3       | 17.0              | 2886.7       |
| 858   | 2.310       | 15.2    | 2531.3       | 85.1         | 18.5    | 3274.1       | 15.9              | 2901.6       |
| 859   | 2.300       | 15.2    | 2546.5       | 85.1         | 18.5    | 3291.1       | 15.9              | 2917.5       |

THE CLEVELAND CLIFFS IRON COMPANY-LELL P-3

| DEPTH | DENSITY LOG |         |              | VELOCITY LOG |         |              | DENSITY AND VELOCITY |              |
|-------|-------------|---------|--------------|--------------|---------|--------------|----------------------|--------------|
|       | RHO-B       | GAL/TON | ACCUM. YIELD | RHO-B        | GAL/TON | ACCUM. YIELD | GAL/TON              | ACCUM. YIELD |
| 860   | 2.310       | 15.2    | 2561.6       | 100.3        | 33.6    | 3352.7       | 24.4                 | 2957.1       |
| 861   | 2.290       | 16.7    | 2578.3       | 105.9        | 40.0    | 3392.7       | 28.4                 | 2985.5       |
| 862   | 2.240       | 20.8    | 2599.1       | 107.1        | 41.4    | 3434.2       | 31.1                 | 3016.6       |
| 863   | 2.260       | 17.1    | 2618.2       | 105.4        | 39.4    | 3473.6       | 29.3                 | 3045.9       |
| 864   | 2.300       | 15.9    | 2634.1       | 102.8        | 36.4    | 3510.0       | 26.2                 | 3072.1       |
| 865   | 2.170       | 25.6    | 2660.8       | 102.0        | 35.5    | 3545.5       | 31.1                 | 3103.1       |
| 866   | 2.130       | 30.1    | 2690.9       | 99.0         | 32.1    | 3577.6       | 31.1                 | 3134.3       |
| 867   | 2.320       | 14.4    | 2705.3       | 95.1         | 27.8    | 3605.5       | 21.1                 | 3155.4       |
| 868   | 2.360       | 11.3    | 2716.6       | 89.9         | 22.4    | 3627.8       | 16.8                 | 3172.2       |
| 869   | 2.390       | 9.1     | 2725.7       | 87.8         | 20.2    | 3648.1       | 14.6                 | 3186.9       |
| 870   | 2.390       | 9.1     | 2734.8       | 89.9         | 22.4    | 3670.4       | 15.7                 | 3202.6       |
| 871   | 2.350       | 12.1    | 2746.8       | 92.5         | 25.1    | 3695.5       | 18.6                 | 3221.1       |
| 872   | 2.220       | 22.4    | 2769.2       | 95.1         | 27.8    | 3723.3       | 25.1                 | 3246.3       |
| 873   | 2.150       | 28.4    | 2797.4       | 95.9         | 28.7    | 3752.0       | 28.5                 | 3274.8       |
| 874   | 2.150       | 26.8    | 2817.5       | 94.7         | 27.4    | 3779.4       | 27.9                 | 3302.7       |
| 875   | 2.230       | 21.1    | 2847.5       | 92.5         | 25.1    | 3804.5       | 23.3                 | 3326.0       |
| 876   | 2.230       | 21.1    | 2879.1       | 89.9         | 22.4    | 3826.9       | 22.0                 | 3348.0       |
| 877   | 2.310       | 15.2    | 2884.3       | 86.5         | 18.9    | 3845.8       | 17.0                 | 3365.5       |
| 878   | 2.420       | 6.8     | 2897.2       | 83.9         | 16.3    | 3862.1       | 11.6                 | 3376.6       |
| 879   | 2.420       | 6.8     | 2898.1       | 81.3         | 13.8    | 3875.9       | 10.4                 | 3387.0       |
| 880   | 2.390       | 8.3     | 2917.0       | 79.2         | 11.8    | 3887.8       | 10.5                 | 3397.4       |
| 881   | 2.380       | 9.8     | 2917.0       | 79.2         | 11.8    | 3899.6       | 10.8                 | 3408.3       |
| 882   | 2.400       | 8.3     | 2925.3       | 80.4         | 13.0    | 3912.6       | 10.7                 | 3418.9       |
| 883   | 2.390       | 9.1     | 2934.4       | 80.4         | 13.0    | 3925.6       | 11.0                 | 3430.0       |
| 884   | 2.390       | 9.1     | 2943.5       | 80.9         | 13.4    | 3939.0       | 11.3                 | 3441.2       |
| 885   | 2.390       | 9.1     | 2952.5       | 80.9         | 13.4    | 3952.4       | 11.3                 | 3452.5       |
| 886   | 2.400       | 8.3     | 2960.6       | 80.0         | 12.6    | 3965.0       | 10.5                 | 3463.0       |
| 887   | 2.400       | 8.3     | 2969.2       | 79.6         | 12.2    | 3977.3       | 10.3                 | 3473.2       |
| 888   | 2.400       | 8.3     | 2977.6       | 79.6         | 12.2    | 3989.5       | 10.3                 | 3483.5       |
| 889   | 2.350       | 12.1    | 2989.7       | 80.0         | 12.6    | 4002.1       | 12.3                 | 3495.9       |
| 890   | 2.320       | 14.4    | 3004.0       | 79.2         | 11.8    | 4013.9       | 13.1                 | 3509.0       |
| 891   | 2.350       | 12.1    | 3016.1       | 80.9         | 13.4    | 4027.4       | 12.8                 | 3521.7       |
| 892   | 2.340       | 12.8    | 3028.9       | 81.7         | 14.2    | 4041.6       | 13.5                 | 3535.2       |
| 893   | 2.330       | 13.6    | 3042.6       | 80.0         | 12.6    | 4054.2       | 13.1                 | 3548.3       |
| 894   | 2.320       | 14.4    | 3056.9       | 78.7         | 11.4    | 4065.5       | 12.9                 | 3561.2       |
| 895   | 2.320       | 14.4    | 3071.3       | 77.9         | 10.6    | 4076.2       | 12.5                 | 3573.7       |
| 896   | 2.270       | 18.6    | 3081.9       | 77.4         | 10.2    | 4086.4       | 10.4                 | 3584.1       |
| 897   | 2.410       | 7.6     | 3096.5       | 77.4         | 10.2    | 4096.5       | 8.9                  | 3594.7       |
| 898   | 2.390       | 9.1     | 3098.6       | 77.9         | 10.6    | 4107.2       | 9.9                  | 3607.0       |
| 899   | 2.340       | 9.1     | 3107.7       | 77.4         | 10.2    | 4117.4       | 9.6                  | 3619.5       |
| 900   | 2.400       | 8.3     | 3116.0       | 75.3         | 8.3     | 4125.6       | 8.3                  | 3627.8       |
| 901   | 2.390       | 9.8     | 3125.8       | 75.3         | 8.3     | 4133.7       | 9.1                  | 3637.9       |
| 902   | 2.410       | 7.6     | 3133.4       | 75.7         | 8.6     | 4142.6       | 8.1                  | 3648.0       |
| 903   | 2.420       | 6.9     | 3140.3       | 75.7         | 8.6     | 4151.2       | 7.8                  | 3658.8       |
| 904   | 2.400       | 8.3     | 3148.7       | 75.3         | 8.3     | 4159.5       | 8.3                  | 3669.1       |
| 905   | 2.400       | 8.3     | 3155.0       | 75.7         | 8.6     | 4167.1       | 8.5                  | 3679.6       |
| 906   | 2.390       | 9.1     | 3161.0       | 75.7         | 8.6     | 4175.1       | 8.7                  | 3689.7       |
| 907   | 2.390       | 9.1     | 3167.0       | 75.7         | 8.6     | 4183.1       | 8.7                  | 3699.7       |
| 908   | 2.390       | 9.1     | 3173.0       | 75.7         | 8.6     | 4191.1       | 8.7                  | 3709.7       |
| 909   | 2.390       | 9.1     | 3179.0       | 75.7         | 8.6     | 4200.7       | 8.7                  | 3719.7       |

THE CLEVELAND CLIFFS IRON COMPANY—WELL P-3

| DEPTH | DENSITY LOG |         |              | VELOCITY LOG |         |              | DENSITY AND VELOCITY |              |
|-------|-------------|---------|--------------|--------------|---------|--------------|----------------------|--------------|
|       | PFO-P       | GAL/TON | ACCUM. YIELD | PFO-B        | GAL/TON | ACCUM. YIELD | GAL/TON              | ACCUM. YIELD |
| 910   | 2.350       | 12.1    | 3208.4       | 77.0         | 9.8     | 4212.5       | 10.9                 | 3710.5       |
| 911   | 2.350       | 12.1    | 3220.5       | 76.1         | 9.0     | 4221.5       | 10.5                 | 3721.0       |
| 912   | 2.400       | 8.3     | 3228.3       | 76.6         | 9.5     | 4231.0       | 8.9                  | 3729.9       |
| 913   | 2.450       | 4.7     | 3233.6       | 77.0         | 9.8     | 4240.8       | 7.3                  | 3737.2       |
| 914   | 2.420       | 6.9     | 3240.5       | 76.1         | 9.0     | 4249.8       | 7.9                  | 3745.1       |
| 915   | 2.460       | 4.0     | 3244.5       | 85.6         | 18.0    | 4267.8       | 11.0                 | 3756.1       |
| 916   | 2.460       | 4.0     | 3248.5       | 91.6         | 24.1    | 4291.9       | 14.1                 | 3770.2       |
| 917   | 2.340       | 12.8    | 3261.4       | 92.5         | 25.1    | 4317.0       | 19.0                 | 3789.2       |
| 918   | 2.170       | 26.6    | 3288.0       | 95.1         | 27.8    | 4344.3       | 27.2                 | 3816.4       |
| 919   | 1.990       | 43.3    | 3331.2       | 97.7         | 30.7    | 4375.5       | 37.0                 | 3853.4       |
| 920   | 2.180       | 25.8    | 3357.0       | 103.3        | 37.0    | 4412.5       | 31.4                 | 3884.8       |
| 921   | 2.300       | 15.9    | 3373.0       | 102.8        | 36.4    | 4448.9       | 26.2                 | 3910.9       |
| 922   | 2.130       | 30.1    | 3403.1       | 102.0        | 35.5    | 4484.4       | 32.8                 | 3941.8       |
| 923   | 2.070       | 25.6    | 3438.7       | 100.3        | 33.6    | 4518.0       | 34.6                 | 3978.3       |
| 924   | 2.280       | 17.5    | 3456.2       | 95.9         | 28.7    | 4546.7       | 23.1                 | 4001.5       |
| 925   | 2.350       | 12.1    | 3476.6       | 92.5         | 25.1    | 4571.8       | 18.6                 | 4020.0       |
| 926   | 2.400       | 8.3     | 3497.0       | 89.9         | 22.4    | 4594.1       | 15.4                 | 4035.4       |
| 927   | 2.390       | 11.3    | 3497.0       | 86.0         | 18.4    | 4612.5       | 13.7                 | 4049.1       |
| 928   | 2.360       | 10.7    | 3516.3       | 82.2         | 14.7    | 4627.2       | 13.0                 | 4062.1       |
| 929   | 2.370       | 9.7     | 3516.3       | 80.4         | 13.0    | 4640.2       | 11.8                 | 4073.9       |
| 930   | 2.390       | 10.7    | 3536.3       | 78.7         | 11.4    | 4651.5       | 10.2                 | 4084.1       |
| 931   | 2.370       | 9.1     | 3541.8       | 76.1         | 9.8     | 4661.3       | 10.2                 | 4094.3       |
| 932   | 2.390       | 5.4     | 3547.2       | 76.1         | 9.0     | 4670.3       | 9.0                  | 4103.4       |
| 933   | 2.440       | 5.4     | 3554.8       | 77.0         | 9.8     | 4679.3       | 7.2                  | 4110.6       |
| 934   | 2.440       | 7.6     | 3561.7       | 80.0         | 12.6    | 4689.2       | 7.6                  | 4118.2       |
| 935   | 2.410       | 6.9     | 3567.2       | 81.7         | 14.2    | 4701.8       | 10.1                 | 4128.3       |
| 936   | 2.420       | 5.4     | 3575.5       | 82.2         | 14.7    | 4716.0       | 10.5                 | 4138.9       |
| 937   | 2.400       | 8.3     | 3589.1       | 81.7         | 14.2    | 4730.6       | 10.1                 | 4149.9       |
| 938   | 2.330       | 13.6    | 3599.7       | 83.0         | 15.5    | 4744.8       | 11.3                 | 4160.2       |
| 939   | 2.370       | 10.6    | 3608.0       | 83.5         | 15.9    | 4760.3       | 14.5                 | 4174.7       |
| 940   | 2.400       | 8.3     | 3617.1       | 83.5         | 15.9    | 4776.2       | 13.3                 | 4188.0       |
| 941   | 2.390       | 9.1     | 3626.2       | 84.3         | 16.7    | 4792.2       | 12.1                 | 4200.1       |
| 942   | 2.380       | 9.1     | 3636.0       | 86.0         | 18.4    | 4808.5       | 12.7                 | 4212.8       |
| 943   | 2.380       | 9.1     | 3645.1       | 87.3         | 19.7    | 4825.2       | 12.9                 | 4225.7       |
| 944   | 2.370       | 10.6    | 3655.7       | 89.1         | 21.5    | 4843.6       | 14.1                 | 4239.8       |
| 945   | 2.330       | 13.6    | 3666.3       | 89.5         | 21.9    | 4853.3       | 14.4                 | 4254.2       |
| 946   | 2.260       | 24.9    | 3677.6       | 88.6         | 21.0    | 4864.9       | 16.1                 | 4270.3       |
| 947   | 2.260       | 24.9    | 3688.4       | 87.3         | 19.7    | 4877.8       | 17.8                 | 4283.0       |
| 948   | 2.260       | 24.9    | 3699.7       | 85.6         | 18.0    | 4892.7       | 20.1                 | 4298.1       |
| 949   | 2.260       | 24.9    | 3712.3       | 85.6         | 18.0    | 4908.5       | 22.3                 | 4313.4       |
| 950   | 2.260       | 24.9    | 3727.6       | 85.6         | 18.0    | 4927.8       | 26.6                 | 4333.0       |
| 951   | 2.260       | 24.9    | 3737.6       | 85.6         | 18.0    | 4947.5       | 26.6                 | 4353.0       |
| 952   | 2.260       | 24.9    | 3750.1       | 85.6         | 18.0    | 4967.9       | 26.6                 | 4373.0       |
| 953   | 2.260       | 24.9    | 3762.6       | 85.6         | 18.0    | 4988.5       | 26.6                 | 4393.0       |
| 954   | 2.260       | 24.9    | 3775.1       | 85.6         | 18.0    | 5009.1       | 26.6                 | 4413.0       |
| 955   | 2.260       | 24.9    | 3787.6       | 85.6         | 18.0    | 5029.7       | 26.6                 | 4433.0       |
| 956   | 2.260       | 24.9    | 3800.1       | 85.6         | 18.0    | 5050.3       | 26.6                 | 4453.0       |
| 957   | 2.260       | 24.9    | 3812.6       | 85.6         | 18.0    | 5070.9       | 26.6                 | 4473.0       |
| 958   | 2.260       | 24.9    | 3825.1       | 85.6         | 18.0    | 5091.5       | 26.6                 | 4493.0       |
| 959   | 2.260       | 24.9    | 3837.6       | 85.6         | 18.0    | 5112.1       | 26.6                 | 4513.0       |

# K E R O G E L   A N A L Y S I S

FOR

THE CLEVELAND CLIFFS IRON COMPANY-WELL P-3

| DEPTH | DENSITY LOG |         |              | VELOCITY LOG |         |              | DENSITY AND VELOCITY |              |
|-------|-------------|---------|--------------|--------------|---------|--------------|----------------------|--------------|
|       | PHO-P       | GAL/TON | ACCUM. YIELD | PHO-B        | GAL/TON | ACCUM. YIELD | GAL/TON              | ACCUM. YIELD |
| 960   | 2.230       | 15.9    | 3970.5       | 87.3         | 19.7    | 5215.9       | 17.8                 | 4533.2       |
| 961   | 2.260       | 17.5    | 3988.0       | 85.6         | 18.0    | 5233.9       | 17.8                 | 4611.9       |
| 962   | 2.280       | 17.5    | 4005.5       | 87.8         | 20.2    | 5254.1       | 18.9                 | 4629.8       |
| 963   | 2.280       | 17.5    | 4023.0       | 90.3         | 22.8    | 5276.9       | 20.1                 | 4641.9       |
| 964   | 2.300       | 15.9    | 4039.0       | 90.8         | 23.3    | 5300.1       | 19.6                 | 4651.5       |
| 965   | 2.300       | 15.9    | 4054.9       | 90.3         | 22.8    | 5322.9       | 19.4                 | 4681.9       |
| 966   | 2.290       | 16.7    | 4071.6       | 92.5         | 25.1    | 5348.0       | 20.9                 | 4703.8       |
| 967   | 2.320       | 14.4    | 4086.0       | 93.4         | 26.0    | 5374.0       | 20.2                 | 4730.0       |
| 968   | 2.320       | 14.4    | 4100.4       | 90.3         | 22.8    | 5396.8       | 18.6                 | 4748.6       |
| 969   | 2.260       | 19.1    | 4119.5       | 87.8         | 20.2    | 5417.0       | 19.7                 | 4763.2       |
| 970   | 2.200       | 24.1    | 4143.6       | 86.5         | 18.9    | 5435.9       | 21.5                 | 4789.7       |
| 971   | 2.300       | 15.9    | 4159.5       | 83.5         | 15.9    | 5451.8       | 15.9                 | 4805.6       |
| 972   | 2.390       | 9.1     | 4168.6       | 78.7         | 11.4    | 5463.2       | 10.2                 | 4815.5       |
| 973   | 2.390       | 9.1     | 4177.7       | 78.7         | 11.4    | 5474.6       | 10.2                 | 4826.1       |
| 974   | 2.390       | 9.1     | 4186.7       | 81.3         | 13.8    | 5488.4       | 11.5                 | 4837.6       |
| 975   | 2.400       | 8.2     | 4195.1       | 83.5         | 15.9    | 5504.3       | 12.1                 | 4849.7       |
| 976   | 2.400       | 8.2     | 4203.4       | 87.3         | 19.7    | 5524.0       | 14.0                 | 4863.7       |
| 977   | 2.320       | 18.3    | 4211.8       | 90.8         | 23.3    | 5547.3       | 18.8                 | 4882.6       |
| 978   | 2.270       | 18.3    | 4236.1       | 92.1         | 24.6    | 5572.0       | 21.5                 | 4904.0       |
| 979   | 2.240       | 20.8    | 4254.9       | 90.3         | 22.8    | 5594.7       | 21.8                 | 4925.8       |
| 980   | 2.170       | 26.8    | 4283.5       | 87.3         | 19.7    | 5614.4       | 23.2                 | 4949.0       |
| 981   | 2.300       | 10.6    | 4307.7       | 84.3         | 16.7    | 5634.1       | 17.8                 | 4966.8       |
| 982   | 2.370       | 10.6    | 4310.0       | 84.3         | 16.7    | 5650.9       | 13.6                 | 4980.4       |
| 983   | 2.370       | 10.6    | 4320.6       | 82.2         | 14.7    | 5665.5       | 12.6                 | 4993.0       |
| 984   | 2.330       | 13.6    | 4334.2       | 83.0         | 15.5    | 5681.0       | 14.5                 | 5007.6       |
| 985   | 2.310       | 15.2    | 4349.3       | 83.0         | 15.5    | 5696.4       | 15.3                 | 5022.9       |
| 986   | 2.320       | 13.6    | 4362.9       | 82.2         | 14.7    | 5711.1       | 14.1                 | 5037.0       |
| 987   | 2.310       | 15.2    | 4378.1       | 83.0         | 15.5    | 5726.6       | 15.3                 | 5052.3       |
| 988   | 2.310       | 15.2    | 4393.2       | 83.0         | 15.5    | 5742.0       | 15.3                 | 5067.6       |
| 989   | 2.300       | 15.9    | 4409.2       | 84.3         | 16.7    | 5758.8       | 16.3                 | 5084.0       |
| 990   | 2.320       | 14.4    | 4423.5       | 85.6         | 18.0    | 5776.8       | 16.2                 | 5100.1       |
| 991   | 2.330       | 13.6    | 4437.1       | 85.6         | 18.0    | 5794.8       | 15.8                 | 5115.9       |
| 992   | 2.330       | 13.6    | 4450.7       | 85.2         | 17.6    | 5812.4       | 15.6                 | 5131.6       |
| 993   | 2.330       | 13.6    | 4464.3       | 84.8         | 17.2    | 5829.6       | 15.4                 | 5147.0       |
| 994   | 2.330       | 13.6    | 4477.9       | 85.6         | 18.0    | 5847.6       | 15.8                 | 5162.8       |
| 995   | 2.340       | 12.8    | 4490.8       | 85.2         | 17.6    | 5865.2       | 15.2                 | 5178.0       |
| 996   | 2.340       | 11.3    | 4502.1       | 84.3         | 16.7    | 5881.9       | 14.0                 | 5192.0       |
| 997   | 2.340       | 10.6    | 4512.7       | 84.8         | 17.2    | 5899.1       | 13.9                 | 5207.6       |
| 998   | 2.340       | 10.6    | 4523.2       | 84.3         | 16.7    | 5915.8       | 13.6                 | 5219.5       |
| 999   | 2.340       | 10.6    | 4533.8       | 83.0         | 15.5    | 5931.3       | 13.0                 | 5232.6       |
| 1000  | 2.340       | 12.8    | 4546.6       | 82.2         | 14.7    | 5946.0       | 13.8                 | 5248.3       |
| 1001  | 2.330       | 13.6    | 4560.2       | 82.2         | 14.7    | 5960.7       | 14.1                 | 5264.5       |
| 1002  | 2.330       | 12.8    | 4570.1       | 81.3         | 13.8    | 5974.5       | 11.8                 | 5279.0       |
| 1003  | 2.330       | 10.6    | 4580.6       | 80.0         | 12.6    | 5987.1       | 11.6                 | 5294.0       |
| 1004  | 2.330       | 10.6    | 4591.2       | 78.7         | 11.4    | 5998.4       | 11.0                 | 5308.8       |
| 1005  | 2.330       | 9.1     | 4602.2       | 77.9         | 10.6    | 6009.1       | 9.9                  | 5323.7       |
| 1006  | 2.330       | 9.1     | 4612.7       | 77.9         | 10.6    | 6021.7       | 10.8                 | 5339.0       |
| 1007  | 2.330       | 9.1     | 4623.2       | 77.9         | 10.6    | 6034.3       | 10.8                 | 5354.1       |
| 1008  | 2.330       | 9.1     | 4633.8       | 77.9         | 10.6    | 6046.9       | 10.8                 | 5369.2       |
| 1009  | 2.330       | 9.1     | 4644.3       | 77.9         | 10.6    | 6059.5       | 10.8                 | 5384.3       |
| 1010  | 2.330       | 9.1     | 4654.9       | 77.9         | 10.6    | 6070.6       | 10.8                 | 5399.4       |

# THE CLEVELAND CLIFFS IRON CO. 1947-1948

| DEPTH | DENSITY LOG |         |              | VELOCITY LOG |         |              | DENSITY AND VELOCITY |              |  |
|-------|-------------|---------|--------------|--------------|---------|--------------|----------------------|--------------|--|
|       | PAC-5       | GAL/TON | ACCUM. YIELD | PAC-5        | GAL/TON | ACCUM. YIELD | GAL/TON              | ACCUM. YIELD |  |
| 1010  | 15.2        | 4670.2  |              | 16.3         | 6086.9  |              | 16.1                 | 5378.5       |  |
| 1011  | 15.2        | 4686.1  |              | 16.4         | 6099.9  |              | 14.5                 | 5383.0       |  |
| 1012  | 11.2        | 4697.4  |              | 17.0         | 6109.7  |              | 10.6                 | 5409.6       |  |
| 1013  | 10.6        | 4708.0  |              | 18.3         | 6118.0  |              | 9.4                  | 5413.0       |  |
| 1014  | 6.5         | 4714.5  |              | 18.3         | 6126.3  |              | 7.6                  | 5420.6       |  |
| 1015  | 6.5         | 4721.8  |              | 12.2         | 6138.5  |              | 9.5                  | 5430.1       |  |
| 1016  | 6.5         | 4729.6  |              | 15.5         | 6153.9  |              | 11.2                 | 5441.3       |  |
| 1017  | 10.6        | 4739.2  |              | 16.3         | 6170.3  |              | 13.4                 | 5454.7       |  |
| 1018  | 16.7        | 4755.9  |              | 17.2         | 6187.5  |              | 17.0                 | 5471.7       |  |
| 1019  | 23.8        | 4781.7  |              | 18.4         | 6205.9  |              | 22.1                 | 5493.8       |  |
| 1020  | 23.2        | 4804.9  |              | 22.8         | 6228.6  |              | 23.0                 | 5516.8       |  |
| 1021  | 19.1        | 4824.1  |              | 26.9         | 6255.5  |              | 23.0                 | 5539.5       |  |
| 1022  | 21.8        | 4845.6  |              | 22.9         | 6281.0  |              | 23.5                 | 5563.3       |  |
| 1023  | 31.0        | 4876.6  |              | 25.5         | 6306.5  |              | 28.3                 | 5591.6       |  |
| 1024  | 37.5        | 4944.2  |              | 26.9         | 6333.4  |              | 32.2                 | 5621.7       |  |
| 1025  | 2.130       | 4944.2  |              | 25.5         | 6358.8  |              | 27.8                 | 5651.1       |  |
| 1026  | 12.5        | 4961.8  |              | 18.4         | 6377.2  |              | 18.0                 | 5666.5       |  |
| 1027  | 10.6        | 4970.8  |              | 81.3         | 6391.1  |              | 11.5                 | 5681.0       |  |
| 1028  | 10.6        | 4981.4  |              | 80.0         | 6403.7  |              | 11.5                 | 5692.5       |  |
| 1029  | 10.6        | 4993.8  |              | 78.7         | 6415.0  |              | 12.9                 | 5706.4       |  |
| 1030  | 10.6        | 5010.2  |              | 77.0         | 6424.9  |              | 12.1                 | 5717.5       |  |
| 1031  | 10.6        | 5022.2  |              | 76.1         | 6433.9  |              | 10.5                 | 5728.0       |  |
| 1032  | 10.6        | 5032.8  |              | 76.1         | 6442.9  |              | 9.8                  | 5737.8       |  |
| 1033  | 10.6        | 5043.4  |              | 76.1         | 6451.9  |              | 9.8                  | 5747.6       |  |
| 1034  | 10.6        | 5053.9  |              | 76.1         | 6460.9  |              | 9.8                  | 5757.4       |  |
| 1035  | 12.1        | 5066.0  |              | 76.1         | 6469.9  |              | 10.5                 | 5767.9       |  |
| 1036  | 11.3        | 5077.3  |              | 76.1         | 6478.9  |              | 10.2                 | 5778.1       |  |
| 1037  | 9.8         | 5087.1  |              | 75.3         | 6487.1  |              | 9.1                  | 5787.1       |  |
| 1038  | 12.1        | 5099.2  |              | 75.3         | 6495.4  |              | 10.2                 | 5797.3       |  |
| 1039  | 12.1        | 5111.3  |              | 74.4         | 6502.9  |              | 9.3                  | 5807.1       |  |
| 1040  | 10.6        | 5121.9  |              | 73.1         | 6509.2  |              | 8.5                  | 5815.5       |  |
| 1041  | 10.6        | 5122.4  |              | 73.1         | 6515.6  |              | 8.5                  | 5824.0       |  |
| 1042  | 13.6        | 5146.0  |              | 73.6         | 6522.3  |              | 10.2                 | 5834.2       |  |
| 1043  | 14.4        | 5153.4  |              | 73.6         | 6529.1  |              | 10.6                 | 5844.8       |  |
| 1044  | 10.6        | 5171.0  |              | 74.0         | 6536.2  |              | 8.8                  | 5853.6       |  |
| 1045  | 9.3         | 5179.3  |              | 75.7         | 6544.9  |              | 8.5                  | 5862.1       |  |
| 1046  | 7.8         | 5186.5  |              | 75.7         | 6553.2  |              | 8.1                  | 5870.2       |  |
| 1047  | 7.8         | 5194.5  |              | 75.7         | 6562.2  |              | 8.1                  | 5877.7       |  |
| 1048  | 7.8         | 5204.4  |              | 76.1         | 6571.2  |              | 9.4                  | 5885.9       |  |
| 1049  | 7.8         | 5215.7  |              | 75.7         | 6579.6  |              | 10.0                 | 5897.7       |  |
| 1050  | 7.8         | 5221.3  |              | 75.7         | 6588.2  |              | 10.7                 | 5909.5       |  |
| 1051  | 7.8         | 5231.3  |              | 75.7         | 6597.1  |              | 10.7                 | 5921.3       |  |
| 1052  | 7.8         | 5241.3  |              | 77.0         | 6607.2  |              | 11.7                 | 5933.1       |  |
| 1053  | 7.8         | 5251.3  |              | 77.0         | 6617.5  |              | 11.4                 | 5944.8       |  |
| 1054  | 7.8         | 5261.3  |              | 77.0         | 6628.2  |              | 11.7                 | 5956.5       |  |
| 1055  | 7.8         | 5271.3  |              | 77.0         | 6639.2  |              | 11.7                 | 5968.2       |  |
| 1056  | 7.8         | 5281.3  |              | 77.0         | 6650.2  |              | 11.7                 | 5980.0       |  |
| 1057  | 7.8         | 5291.3  |              | 77.0         | 6661.2  |              | 11.7                 | 5991.8       |  |
| 1058  | 7.8         | 5301.3  |              | 77.0         | 6672.2  |              | 11.7                 | 6003.6       |  |
| 1059  | 7.8         | 5311.3  |              | 77.0         | 6683.2  |              | 11.7                 | 6015.4       |  |
| 1060  | 7.8         | 5321.3  |              | 77.0         | 6694.2  |              | 11.7                 | 6027.2       |  |
| 1061  | 7.8         | 5331.3  |              | 77.0         | 6705.2  |              | 11.7                 | 6039.0       |  |
| 1062  | 7.8         | 5341.3  |              | 77.0         | 6716.2  |              | 11.7                 | 6050.8       |  |
| 1063  | 7.8         | 5351.3  |              | 77.0         | 6727.2  |              | 11.7                 | 6062.6       |  |
| 1064  | 7.8         | 5361.3  |              | 77.0         | 6738.2  |              | 11.7                 | 6074.4       |  |
| 1065  | 7.8         | 5371.3  |              | 77.0         | 6749.2  |              | 11.7                 | 6086.2       |  |
| 1066  | 7.8         | 5381.3  |              | 77.0         | 6760.2  |              | 11.7                 | 6098.0       |  |
| 1067  | 7.8         | 5391.3  |              | 77.0         | 6771.2  |              | 11.7                 | 6109.8       |  |
| 1068  | 7.8         | 5401.3  |              | 77.0         | 6782.2  |              | 11.7                 | 6121.6       |  |
| 1069  | 7.8         | 5411.3  |              | 77.0         | 6793.2  |              | 11.7                 | 6133.4       |  |
| 1070  | 7.8         | 5421.3  |              | 77.0         | 6804.2  |              | 11.7                 | 6145.2       |  |
| 1071  | 7.8         | 5431.3  |              | 77.0         | 6815.2  |              | 11.7                 | 6157.0       |  |
| 1072  | 7.8         | 5441.3  |              | 77.0         | 6826.2  |              | 11.7                 | 6168.8       |  |
| 1073  | 7.8         | 5451.3  |              | 77.0         | 6837.2  |              | 11.7                 | 6180.6       |  |
| 1074  | 7.8         | 5461.3  |              | 77.0         | 6848.2  |              | 11.7                 | 6192.4       |  |
| 1075  | 7.8         | 5471.3  |              | 77.0         | 6859.2  |              | 11.7                 | 6204.2       |  |
| 1076  | 7.8         | 5481.3  |              | 77.0         | 6870.2  |              | 11.7                 | 6216.0       |  |
| 1077  | 7.8         | 5491.3  |              | 77.0         | 6881.2  |              | 11.7                 | 6227.8       |  |
| 1078  | 7.8         | 5501.3  |              | 77.0         | 6892.2  |              | 11.7                 | 6239.6       |  |
| 1079  | 7.8         | 5511.3  |              | 77.0         | 6903.2  |              | 11.7                 | 6251.4       |  |
| 1080  | 7.8         | 5521.3  |              | 77.0         | 6914.2  |              | 11.7                 | 6263.2       |  |
| 1081  | 7.8         | 5531.3  |              | 77.0         | 6925.2  |              | 11.7                 | 6275.0       |  |
| 1082  | 7.8         | 5541.3  |              | 77.0         | 6936.2  |              | 11.7                 | 6286.8       |  |
| 1083  | 7.8         | 5551.3  |              | 77.0         | 6947.2  |              | 11.7                 | 6298.6       |  |
| 1084  | 7.8         | 5561.3  |              | 77.0         | 6958.2  |              | 11.7                 | 6310.4       |  |
| 1085  | 7.8         | 5571.3  |              | 77.0         | 6969.2  |              | 11.7                 | 6322.2       |  |
| 1086  | 7.8         | 5581.3  |              | 77.0         | 6980.2  |              | 11.7                 | 6334.0       |  |
| 1087  | 7.8         | 5591.3  |              | 77.0         | 6991.2  |              | 11.7                 | 6345.8       |  |
| 1088  | 7.8         | 5601.3  |              | 77.0         | 7002.2  |              | 11.7                 | 6357.6       |  |
| 1089  | 7.8         | 5611.3  |              | 77.0         | 7013.2  |              | 11.7                 | 6369.4       |  |
| 1090  | 7.8         | 5621.3  |              | 77.0         | 7024.2  |              | 11.7                 | 6381.2       |  |
| 1091  | 7.8         | 5631.3  |              | 77.0         | 7035.2  |              | 11.7                 | 6393.0       |  |
| 1092  | 7.8         | 5641.3  |              | 77.0         | 7046.2  |              | 11.7                 | 6404.8       |  |
| 1093  | 7.8         | 5651.3  |              | 77.0         | 7057.2  |              | 11.7                 | 6416.6       |  |
| 1094  | 7.8         | 5661.3  |              | 77.0         | 7068.2  |              | 11.7                 | 6428.4       |  |
| 1095  | 7.8         | 5671.3  |              | 77.0         | 7079.2  |              | 11.7                 | 6440.2       |  |
| 1096  | 7.8         | 5681.3  |              | 77.0         | 7090.2  |              | 11.7                 | 6452.0       |  |
| 1097  | 7.8         | 5691.3  |              | 77.0         | 7101.2  |              | 11.7                 | 6463.8       |  |
| 1098  | 7.8         | 5701.3  |              | 77.0         | 7112.2  |              | 11.7                 | 6475.6       |  |
| 1099  | 7.8         | 5711.3  |              | 77.0         | 7123.2  |              | 11.7                 | 6487.4       |  |
| 1100  | 7.8         | 5721.3  |              | 77.0         | 7134.2  |              | 11.7                 | 6499.2       |  |
| 1101  | 7.8         | 5731.3  |              | 77.0         | 7145.2  |              | 11.7                 | 6511.0       |  |
| 1102  | 7.8         | 5741.3  |              | 77.0         | 7156.2  |              | 11.7                 | 6522.8       |  |
| 1103  | 7.8         | 5751.3  |              | 77.0         | 7167.2  |              | 11.7                 | 6534.6       |  |
| 1104  | 7.8         | 5761.3  |              | 77.0         | 7178.2  |              | 11.7                 | 6546.4       |  |
| 1105  | 7.8         | 5771.3  |              | 77.0         | 7189.2  |              | 11.7                 | 6558.2       |  |
| 1106  | 7.8         | 5781.3  |              | 77.0         | 7200.2  |              | 11.7                 | 6570.0       |  |
| 1107  | 7.8         | 5791.3  |              | 77.0         | 7211.2  |              | 11.7                 | 6581.8       |  |
| 1108  | 7.8         | 5801.3  |              | 77.0         | 7222.2  |              | 11.7                 | 6593.6       |  |
| 1109  | 7.8         | 5811.3  |              | 77.0         | 7233.2  |              | 11.7                 | 6605.4       |  |
| 1110  | 7.8         | 5821.3  |              | 77.0         | 7244.2  |              | 11.7                 | 6617.2       |  |
| 1111  | 7.8         | 5831.3  |              | 77.0         | 7255.2  |              | 11.7                 | 6629.0       |  |
| 1112  | 7.8         | 5841.3  |              | 77.0         | 7266.2  |              | 11.7                 | 6640.8       |  |
| 1113  | 7.8         | 5851.3  |              | 77.0         | 7277.2  |              | 11.7                 | 6652.6       |  |
| 1114  | 7.8         | 5861.3  |              | 77.0         | 7288.2  |              | 11.7                 | 6664.4       |  |
| 1115  | 7.8         | 5871.3  |              | 77.0         | 7299.2  |              | 11.7                 | 6676.2       |  |
| 1116  | 7.8         | 5881.3  |              | 77.0         | 7310.2  |              | 11.7                 | 6688.0       |  |
| 1117  | 7.8         | 5891.3  |              | 77.0         | 7321.2  |              | 11.7                 | 6699.8       |  |
| 1118  | 7.8         | 5901.3  |              | 77.0         | 7332.2  |              | 11.7                 | 6711.6       |  |
| 1119  | 7.8         | 5911.3  |              | 77.0         | 7343.2  |              | 11.7                 | 6723.4       |  |
| 1120  | 7.8         | 5921.3  |              | 77.0         | 7354.2  |              | 11.7                 | 6735.2       |  |
| 1121  | 7.8         | 5931.3  |              | 77.0         | 7365.2  |              | 11.7                 | 6747.0       |  |
| 1122  | 7.8         | 5941.3  |              | 77.0         | 7376.2  |              | 11.7                 | 6758.8       |  |
| 1123  | 7.8         | 5951.3  |              | 77.0         | 7387.2  |              | 11.7                 | 6770.6       |  |
| 1124  | 7.8         | 5961.3  |              | 77.0         | 7398.2  |              | 11.7                 | 6782.4       |  |
| 1125  | 7.8         | 5971.3  |              | 77.0         | 7409.2  |              | 11.7                 | 6794.2       |  |
| 1126  | 7.8         | 5981.3  |              | 77.0         | 7420.2  |              | 11.7                 | 6806.0       |  |
| 1127  | 7.8         | 5991.3  |              | 77.0         | 7431.2  |              | 11.7                 | 6817.8       |  |
| 1128  | 7.8         | 6001.3  |              | 77.0         | 7442.2  |              | 11.7                 | 6829.6       |  |
| 1129  | 7.8         | 6011.3  |              | 77.0         | 7453.2  |              | 11.7                 | 6841.4       |  |
| 1130  | 7.8         | 6021.3  |              | 77.0         | 7464.2  |              | 11.7                 | 6853.2       |  |
| 1131  | 7.8         | 6031.3  |              | 77.0         | 7475.2  |              | 11.7                 | 6865.0       |  |
| 1132  | 7.8         | 6041.3  |              | 77.0         | 7486.2  |              | 11.7                 | 6876.8       |  |
| 1133  | 7.8         | 6051.3  |              | 77.0         | 7497.2  |              | 11.7                 | 6888.6       |  |
| 1134  | 7.8         | 6061.3  |              | 77.0         | 7508.2  |              | 11.7                 | 6900.4       |  |
| 1135  | 7.8         | 6071.3  |              | 77.0         | 7519.2  |              | 11.7                 | 6912.2       |  |
| 1136  | 7.8         | 6081.3  |              | 77.0         | 7530.2  |              | 11.7                 | 6924.0       |  |
| 1137  | 7.8         | 6091.3  |              | 77.0         | 7541.2  |              | 11.7                 | 6935.8       |  |
| 1138  | 7.8         | 6101.3  |              | 77.0         | 7552.2  |              | 11.7                 | 6947.6       |  |
| 1139  | 7.8         | 6111.3  |              | 77.0         | 7563.2  |              | 11.7                 | 6959.4       |  |
| 1140  | 7.8         | 6121.3  |              | 77.0         | 7574.2  |              | 11.7                 | 6971.2       |  |
| 1141  | 7.8         | 6131.3  |              | 77.0         | 7585.2  |              | 11.7                 | 6983.0       |  |
| 1142  | 7.8         | 6141.3  |              | 77.0         | 7596.2  |              | 11.7                 | 6994.8       |  |
| 1143  | 7.8         | 6151.3  |              | 77.0         | 7607.2  |              | 11.7                 | 7006.6       |  |
| 1144  | 7.8         | 6161.3  |              | 77.0         | 7618.2  |              | 11.7                 | 7018.4       |  |
| 1145  | 7.8         | 6171.3  |              | 77.0         | 7629.2  |              | 11.7                 | 7030.2       |  |
| 1146  | 7.8         | 6181.3  |              | 77.0         | 7640.2  |              | 11.7                 | 7042.0       |  |
| 1147  | 7.8         | 6191.3  |              | 77.0         | 7651.2  |              | 11.7                 | 7053.8       |  |
| 1148  | 7.8         | 6201.3  |              | 77.0         | 7662.2  |              | 11.7                 | 7065.6       |  |
| 1149  | 7.8         | 6211.3  |              | 77.0         | 7673.2  |              | 11.7                 | 7077.4       |  |
| 1150  | 7.8         | 6221.3  |              | 77.0         | 7684.2  |              | 11.7                 | 7089.2       |  |
| 1151  | 7.8         | 6231.3  |              | 77.0         | 7695.2  |              | 11.7                 | 7101.0</     |  |

THE CLEVELAND CLIFFS IRON COMPANY--HILL A-3

| DEPTH | DENSITY LOG |          |              | VELOCITY LOG |          |              | DENSITY AND VELOCITY |              |  |
|-------|-------------|----------|--------------|--------------|----------|--------------|----------------------|--------------|--|
|       | RHO-B       | SALINITY | ACCUM. YIELD | RHO-B        | SALINITY | ACCUM. YIELD | SALINITY             | ACCUM. YIELD |  |
| 1060  | 2.340       | 12.2     | 5501.7       | 75.1         | 9.0      | 6847.3       | 10.4                 | 6029.4       |  |
| 1061  | 2.370       | 12.6     | 5502.2       | 77.0         | 9.8      | 6849.9       | 10.2                 | 6039.6       |  |
| 1062  | 2.370       | 12.6     | 5503.0       | 79.3         | 11.8     | 6854.7       | 11.2                 | 6050.8       |  |
| 1063  | 2.330       | 12.6     | 5503.4       | 80.9         | 13.4     | 6858.1       | 13.9                 | 6064.3       |  |
| 1064  | 2.390       | 12.7     | 5503.9       | 81.0         | 13.9     | 6859.7       | 16.1                 | 6080.4       |  |
| 1065  | 2.300       | 12.9     | 5504.1       | 83.0         | 15.3     | 6852.9       | 16.1                 | 6096.5       |  |
| 1066  | 2.390       | 12.7     | 5505.8       | 83.5         | 15.9     | 6869.9       | 16.3                 | 6112.8       |  |
| 1067  | 2.320       | 14.4     | 5470.2       | 85.5         | 15.9     | 6885.3       | 16.2                 | 6128.0       |  |
| 1068  | 2.350       | 12.1     | 5462.2       | 82.2         | 14.7     | 6890.5       | 17.4                 | 6141.4       |  |
| 1069  | 2.370       | 12.6     | 5462.8       | 79.6         | 12.2     | 6812.7       | 11.4                 | 6152.8       |  |
| 1070  | 2.380       | 9.8      | 5502.6       | 77.0         | 9.8      | 6822.5       | 9.8                  | 6162.6       |  |
| 1071  | 2.350       | 12.1     | 5514.7       | 76.1         | 9.0      | 6831.5       | 10.5                 | 6173.1       |  |
| 1072  | 2.370       | 10.6     | 5525.3       | 76.1         | 9.0      | 6840.5       | 9.8                  | 6182.9       |  |
| 1073  | 2.380       | 9.8      | 5535.1       | 77.0         | 9.8      | 6850.3       | 9.8                  | 6192.7       |  |
| 1074  | 2.370       | 10.6     | 5535.1       | 77.4         | 10.2     | 6860.5       | 10.4                 | 6203.1       |  |
| 1075  | 2.370       | 10.6     | 5535.1       | 77.9         | 10.6     | 6871.2       | 10.6                 | 6213.7       |  |
| 1076  | 2.350       | 12.1     | 5558.7       | 79.2         | 11.8     | 6883.0       | 12.0                 | 6225.7       |  |
| 1077  | 2.320       | 14.4     | 5582.7       | 79.6         | 12.2     | 6895.2       | 13.3                 | 6239.0       |  |
| 1078  | 2.330       | 13.6     | 5596.2       | 79.2         | 11.8     | 6907.1       | 12.7                 | 6251.7       |  |
| 1079  | 2.330       | 13.6     | 5609.5       | 78.7         | 11.4     | 6918.4       | 12.9                 | 6264.2       |  |
| 1080  | 2.370       | 11.3     | 5624.8       | 77.9         | 10.6     | 6929.1       | 10.6                 | 6274.8       |  |
| 1081  | 2.360       | 11.3     | 5634.8       | 77.9         | 10.6     | 6939.7       | 11.0                 | 6285.8       |  |
| 1082  | 2.360       | 11.3     | 5643.1       | 78.7         | 11.4     | 6951.1       | 11.4                 | 6297.1       |  |
| 1083  | 2.370       | 10.6     | 5653.6       | 81.7         | 14.2     | 6965.3       | 12.4                 | 6309.5       |  |
| 1084  | 2.350       | 12.1     | 5665.7       | 83.0         | 15.5     | 6980.3       | 13.8                 | 6323.3       |  |
| 1085  | 2.300       | 15.9     | 5681.6       | 84.3         | 16.7     | 6997.5       | 16.3                 | 6339.6       |  |
| 1086  | 2.300       | 15.9     | 5697.6       | 85.6         | 18.0     | 7015.5       | 17.0                 | 6356.6       |  |
| 1087  | 2.250       | 19.9     | 5717.5       | 87.8         | 20.2     | 7035.7       | 20.1                 | 6376.6       |  |
| 1088  | 2.280       | 17.9     | 5735.0       | 89.9         | 22.4     | 7058.0       | 19.9                 | 6396.6       |  |
| 1089  | 2.270       | 18.3     | 5752.3       | 96.5         | 18.9     | 7076.9       | 18.6                 | 6415.2       |  |
| 1090  | 2.250       | 19.9     | 5773.3       | 85.6         | 18.0     | 7094.9       | 19.0                 | 6434.1       |  |
| 1091  | 2.290       | 16.7     | 5790.0       | 86.5         | 18.9     | 7113.8       | 17.8                 | 6452.2       |  |
| 1092  | 2.320       | 14.4     | 5806.4       | 87.3         | 19.7     | 7133.5       | 17.0                 | 6469.0       |  |
| 1093  | 2.310       | 16.2     | 5815.5       | 85.6         | 18.0     | 7151.6       | 16.6                 | 6485.6       |  |
| 1094  | 2.210       | 22.2     | 5842.8       | 84.3         | 19.7     | 7168.3       | 20.0                 | 6503.5       |  |
| 1095  | 2.180       | 26.8     | 5896.5       | 85.6         | 18.0     | 7186.3       | 21.9                 | 6523.4       |  |
| 1096  | 2.170       | 26.0     | 5925.2       | 85.2         | 17.6     | 7203.9       | 22.1                 | 6539.6       |  |
| 1097  | 2.290       | 17.9     | 5952.2       | 92.9         | 16.6     | 7220.2       | 16.9                 | 6555.9       |  |
| 1098  | 2.240       | 16.2     | 5982.4       | 78.7         | 11.4     | 7241.5       | 14.1                 | 6571.3       |  |
| 1099  | 2.310       | 15.2     | 6011.6       | 77.0         | 9.8      | 7261.4       | 12.9                 | 6589.0       |  |
| 1100  | 2.350       | 12.1     | 6036.6       | 77.0         | 9.8      | 7281.2       | 10.9                 | 6607.0       |  |
| 1101  | 2.350       | 9.1      | 6065.6       | 77.0         | 9.8      | 7301.0       | 9.1                  | 6625.1       |  |
| 1102  | 2.310       | 7.6      | 6072.3       | 77.0         | 9.8      | 7320.9       | 8.3                  | 6643.1       |  |
| 1103  | 2.310       | 7.6      | 6081.0       | 76.1         | 9.0      | 7340.9       | 7.6                  | 6661.4       |  |
| 1104  | 2.330       | 7.6      | 6090.7       | 75.1         | 9.0      | 7360.9       | 7.6                  | 6679.7       |  |
| 1105  | 2.330       | 7.6      | 6100.4       | 75.1         | 9.0      | 7380.9       | 7.6                  | 6698.0       |  |
| 1106  | 2.330       | 7.6      | 6110.1       | 75.1         | 9.0      | 7400.9       | 7.6                  | 6716.3       |  |
| 1107  | 2.330       | 7.6      | 6120.1       | 75.1         | 9.0      | 7420.9       | 7.6                  | 6734.6       |  |
| 1108  | 2.330       | 7.6      | 6130.1       | 75.1         | 9.0      | 7440.9       | 7.6                  | 6752.9       |  |
| 1109  | 2.330       | 7.6      | 6140.1       | 75.1         | 9.0      | 7460.9       | 7.6                  | 6771.2       |  |

# WATER ANALYSIS

FOR

THE CLEVELAND CLIFFS IRON COMPANY-WELL P-3

## DENSITY LOG

## VELOCITY LOG

## DENSITY AND VELOCITY

| DEPTH | RHO-P | GAL/TON | ACCUM. YIELD | RHO-B | GAL/TON | ACCUM. YIELD | GAL/TON | ACCUM. YIELD |
|-------|-------|---------|--------------|-------|---------|--------------|---------|--------------|
| 1110  | 2.420 | 6.9     | 6039.4       | 81.7  | 14.2    | 7354.1       | 10.5    | 6691.8       |
| 1111  | 2.410 | 7.6     | 6047.1       | 81.7  | 14.2    | 7333.3       | 10.9    | 6707.7       |
| 1112  | 2.410 | 7.6     | 6054.7       | 81.7  | 14.2    | 7382.5       | 10.9    | 6718.6       |
| 1113  | 2.410 | 7.6     | 6062.3       | 79.6  | 12.2    | 7374.7       | 9.9     | 6728.5       |
| 1114  | 2.380 | 9.8     | 6072.1       | 77.4  | 10.2    | 7404.9       | 10.0    | 6733.5       |
| 1115  | 2.390 | 9.1     | 6081.2       | 77.9  | 10.6    | 7415.5       | 9.9     | 6740.4       |
| 1116  | 2.400 | 8.3     | 6089.5       | 77.0  | 9.8     | 7425.3       | 9.1     | 6757.4       |
| 1117  | 2.460 | 4.0     | 6093.5       | 77.4  | 10.2    | 7435.5       | 7.1     | 6764.6       |
| 1118  | 2.450 | 4.7     | 6098.3       | 75.7  | 8.6     | 7444.1       | 6.7     | 6771.2       |
| 1119  | 2.430 | 6.2     | 6104.4       | 75.7  | 8.6     | 7452.8       | 7.4     | 6778.6       |
| 1120  | 2.420 | 6.9     | 6111.3       | 71.8  | 5.2     | 7458.0       | 6.0     | 6784.7       |
| 1121  | 2.460 | 4.0     | 6115.4       | 71.4  | 4.9     | 7462.9       | 4.4     | 6789.1       |
| 1122  | 2.440 | 5.4     | 6120.8       | 71.4  | 4.9     | 7467.7       | 5.2     | 6794.3       |
| 1123  | 2.420 | 6.9     | 6127.7       | 71.4  | 4.9     | 7472.6       | 5.9     | 6800.2       |
| 1124  | 2.460 | 4.0     | 6131.7       | 73.6  | 6.8     | 7479.4       | 5.4     | 6805.6       |
| 1125  | 2.460 |         |              | 73.1  | 6.3     | 7485.7       | 5.2     | 6810.7       |
| 1126  | 2.470 |         | 6139.1       | 73.6  | 6.8     | 7492.5       | 5.0     | 6815.8       |
| 1127  | 2.460 |         |              | 76.1  | 9.0     | 7501.5       | 6.5     | 6822.3       |
| 1128  | 2.450 | 4.7     | 6147.8       | 77.9  | 10.6    | 7512.1       | 7.7     | 6830.0       |
| 1129  | 2.460 |         |              | 77.9  | 10.6    | 7522.7       | 7.3     | 6837.3       |
| 1130  | 2.410 |         |              | 77.4  | 10.2    | 7532.9       | 8.9     | 6846.2       |
| 1131  | 2.370 |         |              |       | 10.2    | 7543.1       | 10.4    | 6856.6       |
| 1132  | 2.350 | 12.1    | 6182.1       | 75.7  | 8.6     | 7551.7       | 10.4    | 6866.9       |
| 1133  | 2.400 | 8.3     | 6190.5       | 73.6  | 6.8     | 7558.5       | 7.6     | 6874.5       |
| 1134  | 2.460 | 4.0     | 6194.5       | 71.8  | 5.2     | 7563.7       | 4.6     | 6879.1       |
| 1135  | 2.470 | 3.2     | 6197.8       | 71.4  | 4.9     | 7568.6       | 4.1     | 6883.2       |
| 1136  | 2.440 | 5.4     | 6203.3       | 72.3  | 5.6     | 7574.2       | 5.5     | 6888.8       |
| 1137  | 2.460 | 4.0     | 6207.3       | 73.6  | 6.8     | 7581.0       | 5.4     | 6894.2       |
| 1138  | 2.450 | 4.7     | 6212.0       | 75.3  | 8.3     | 7589.3       | 6.5     | 6900.7       |
| 1139  | 2.430 | 6.2     | 6218.2       | 75.3  | 8.3     | 7597.6       | 7.2     | 6907.9       |
| 1140  | 2.410 | 7.6     | 6225.8       | 74.8  | 7.8     | 7605.4       | 7.7     | 6915.6       |
| 1141  | 2.440 | 5.4     | 6231.2       | 74.0  | 7.1     | 7612.5       | 6.3     | 6921.9       |
| 1142  | 2.470 | 3.3     | 6234.6       | 73.6  | 6.8     | 7619.3       | 5.0     | 6926.9       |
| 1143  | 2.470 | 3.3     | 6237.9       | 74.4  | 7.5     | 7626.8       | 5.4     | 6932.3       |
| 1144  | 2.440 | 5.4     | 6243.3       | 74.4  | 7.5     | 7634.3       | 6.5     | 6938.8       |
| 1145  | 2.460 | 4.0     | 6247.4       | 74.4  | 7.5     | 7641.7       | 5.8     | 6944.6       |
| 1146  | 2.480 | 2.6     | 6250.0       | 74.4  | 7.5     | 7649.2       | 5.1     | 6949.6       |
| 1147  | 2.480 | 2.6     | 6252.6       | 73.6  | 6.8     | 7656.0       | 4.7     | 6954.3       |
| 1148  | 2.480 | 2.6     | 6255.2       | 73.6  | 6.8     | 7662.8       | 4.7     | 6959.0       |
| 1149  | 2.450 | 4.7     | 6260.0       | 74.0  | 7.1     | 7669.9       | 5.9     | 6964.9       |
| 1150  | 2.480 | 2.6     | 6262.6       | 74.4  | 7.5     | 7677.4       | 5.1     | 6970.0       |
| 1151  | 2.480 | 2.6     | 6265.2       | 74.0  | 7.1     | 7684.5       | 4.9     | 6975.4       |
| 1152  | 2.480 | 4.7     | 6270.0       | 74.4  | 7.5     | 7692.0       | 6.1     | 6981.0       |
| 1153  | 2.450 | 4.0     | 6274.0       | 73.6  | 6.8     | 7699.7       | 5.4     | 6986.4       |
| 1154  | 2.450 | 4.7     | 6278.7       | 73.1  | 6.3     | 7706.9       | 5.5     | 6991.5       |
| 1155  | 2.480 | 8.3     | 6287.1       | 71.4  | 4.9     | 7714.3       | 4.6     | 6996.5       |
| 1156  | 2.480 | 12.1    |              | 71.4  | 4.9     | 7721.1       | 4.6     | 7001.5       |
| 1157  | 2.480 |         |              | 73.1  | 6.8     | 7728.0       | 4.6     | 7006.5       |
| 1158  | 2.480 |         |              | 74.4  | 7.5     | 7735.1       | 4.6     | 7011.5       |
| 1159  | 2.480 |         |              | 74.4  | 7.5     | 7742.2       | 4.6     | 7016.5       |
| 1160  | 2.480 |         |              | 74.4  | 7.5     | 7749.3       | 4.6     | 7021.5       |
| 1161  | 2.480 |         |              | 74.4  | 7.5     | 7756.4       | 4.6     | 7026.5       |
| 1162  | 2.480 |         |              | 74.4  | 7.5     | 7763.5       | 4.6     | 7031.5       |
| 1163  | 2.480 |         |              | 74.4  | 7.5     | 7770.6       | 4.6     | 7036.5       |
| 1164  | 2.480 |         |              | 74.4  | 7.5     | 7777.7       | 4.6     | 7041.5       |
| 1165  | 2.480 |         |              | 74.4  | 7.5     | 7784.8       | 4.6     | 7046.5       |
| 1166  | 2.480 |         |              | 74.4  | 7.5     | 7791.9       | 4.6     | 7051.5       |
| 1167  | 2.480 |         |              | 74.4  | 7.5     | 7799.0       | 4.6     | 7056.5       |
| 1168  | 2.480 |         |              | 74.4  | 7.5     | 7806.1       | 4.6     | 7061.5       |
| 1169  | 2.480 |         |              | 74.4  | 7.5     | 7813.2       | 4.6     | 7066.5       |
| 1170  | 2.480 |         |              | 74.4  | 7.5     | 7820.3       | 4.6     | 7071.5       |
| 1171  | 2.480 |         |              | 74.4  | 7.5     | 7827.4       | 4.6     | 7076.5       |
| 1172  | 2.480 |         |              | 74.4  | 7.5     | 7834.5       | 4.6     | 7081.5       |
| 1173  | 2.480 |         |              | 74.4  | 7.5     | 7841.6       | 4.6     | 7086.5       |
| 1174  | 2.480 |         |              | 74.4  | 7.5     | 7848.7       | 4.6     | 7091.5       |
| 1175  | 2.480 |         |              | 74.4  | 7.5     | 7855.8       | 4.6     | 7096.5       |
| 1176  | 2.480 |         |              | 74.4  | 7.5     | 7862.9       | 4.6     | 7101.5       |
| 1177  | 2.480 |         |              | 74.4  | 7.5     | 7870.0       | 4.6     | 7106.5       |
| 1178  | 2.480 |         |              | 74.4  | 7.5     | 7877.1       | 4.6     | 7111.5       |
| 1179  | 2.480 |         |              | 74.4  | 7.5     | 7884.2       | 4.6     | 7116.5       |
| 1180  | 2.480 |         |              | 74.4  | 7.5     | 7891.3       | 4.6     | 7121.5       |
| 1181  | 2.480 |         |              | 74.4  | 7.5     | 7898.4       | 4.6     | 7126.5       |
| 1182  | 2.480 |         |              | 74.4  | 7.5     | 7905.5       | 4.6     | 7131.5       |
| 1183  | 2.480 |         |              | 74.4  | 7.5     | 7912.6       | 4.6     | 7136.5       |
| 1184  | 2.480 |         |              | 74.4  | 7.5     | 7919.7       | 4.6     | 7141.5       |
| 1185  | 2.480 |         |              | 74.4  | 7.5     | 7926.8       | 4.6     | 7146.5       |
| 1186  | 2.480 |         |              | 74.4  | 7.5     | 7933.9       | 4.6     | 7151.5       |
| 1187  | 2.480 |         |              | 74.4  | 7.5     | 7941.0       | 4.6     | 7156.5       |
| 1188  | 2.480 |         |              | 74.4  | 7.5     | 7948.1       | 4.6     | 7161.5       |
| 1189  | 2.480 |         |              | 74.4  | 7.5     | 7955.2       | 4.6     | 7166.5       |
| 1190  | 2.480 |         |              | 74.4  | 7.5     | 7962.3       | 4.6     | 7171.5       |
| 1191  | 2.480 |         |              | 74.4  | 7.5     | 7969.4       | 4.6     | 7176.5       |
| 1192  | 2.480 |         |              | 74.4  | 7.5     | 7976.5       | 4.6     | 7181.5       |
| 1193  | 2.480 |         |              | 74.4  | 7.5     | 7983.6       | 4.6     | 7186.5       |
| 1194  | 2.480 |         |              | 74.4  | 7.5     | 7990.7       | 4.6     | 7191.5       |
| 1195  | 2.480 |         |              | 74.4  | 7.5     | 7997.8       | 4.6     | 7196.5       |
| 1196  | 2.480 |         |              | 74.4  | 7.5     | 8004.9       | 4.6     | 7201.5       |
| 1197  | 2.480 |         |              | 74.4  | 7.5     | 8012.0       | 4.6     | 7206.5       |
| 1198  | 2.480 |         |              | 74.4  | 7.5     | 8019.1       | 4.6     | 7211.5       |
| 1199  | 2.480 |         |              | 74.4  | 7.5     | 8026.2       | 4.6     | 7216.5       |
| 1200  | 2.480 |         |              | 74.4  | 7.5     | 8033.3       | 4.6     | 7221.5       |
| 1201  | 2.480 |         |              | 74.4  | 7.5     | 8040.4       | 4.6     | 7226.5       |
| 1202  | 2.480 |         |              | 74.4  | 7.5     | 8047.5       | 4.6     | 7231.5       |
| 1203  | 2.480 |         |              | 74.4  | 7.5     | 8054.6       | 4.6     | 7236.5       |
| 1204  | 2.480 |         |              | 74.4  | 7.5     | 8061.7       | 4.6     | 7241.5       |
| 1205  | 2.480 |         |              | 74.4  | 7.5     | 8068.8       | 4.6     | 7246.5       |
| 1206  | 2.480 |         |              | 74.4  | 7.5     | 8075.9       | 4.6     | 7251.5       |
| 1207  | 2.480 |         |              | 74.4  | 7.5     | 8083.0       | 4.6     | 7256.5       |
| 1208  | 2.480 |         |              | 74.4  | 7.5     | 8090.1       | 4.6     | 7261.5       |
| 1209  | 2.480 |         |              | 74.4  | 7.5     | 8097.2       | 4.6     | 7266.5       |
| 1210  | 2.480 |         |              | 74.4  | 7.5     | 8104.3       | 4.6     | 7271.5       |
| 1211  | 2.480 |         |              | 74.4  | 7.5     | 8111.4       | 4.6     | 7276.5       |
| 1212  | 2.480 |         |              | 74.4  | 7.5     | 8118.5       | 4.6     | 7281.5       |
| 1213  | 2.480 |         |              | 74.4  | 7.5     | 8125.6       | 4.6     | 7286.5       |
| 1214  | 2.480 |         |              | 74.4  | 7.5     | 8132.7       | 4.6     | 7291.5       |
| 1215  | 2.480 |         |              | 74.4  | 7.5     | 8139.8       | 4.6     | 7296.5       |
| 1216  | 2.480 |         |              | 74.4  | 7.5     | 8146.9       | 4.6     | 7301.5       |
| 1217  | 2.480 |         |              | 74.4  | 7.5     | 8154.0       | 4.6     | 7306.5       |
| 1218  | 2.480 |         |              | 74.4  | 7.5     | 8161.1       | 4.6     | 7311.5       |
| 1219  | 2.480 |         |              | 74.4  | 7.5     | 8168.2       | 4.6     | 7316.5       |
| 1220  | 2.480 |         |              | 74.4  | 7.5     | 8175.3       | 4.6     | 7321.5       |
| 1221  | 2.480 |         |              | 74.4  | 7.5     | 8182.4       | 4.6     | 7326.5       |
| 1222  | 2.480 |         |              | 74.4  | 7.5     | 8189.5       | 4.6     | 7331.5       |
| 1223  | 2.480 |         |              | 74.4  | 7.5     | 8196.6       | 4.6     | 7336.5       |
| 1224  | 2.480 |         |              | 74.4  | 7.5     | 8203.7       | 4.6     | 7341.5       |
| 1225  | 2.480 |         |              | 74.4  | 7.5     | 8210.8       | 4.6     | 7346.5       |
| 1226  | 2.480 |         |              | 74.4  | 7.5     | 8217.9       | 4.6     | 7351.5       |
| 1227  | 2.480 |         |              | 74.4  | 7.5     | 8225.0       | 4.6     | 7356.5       |
| 1228  | 2.480 |         |              | 74.4  | 7.5     | 8232.1       | 4.6     | 7361.5       |
| 1229  | 2.480 |         |              | 74.4  | 7.5     | 8239.2       | 4.6     | 7366.5       |
| 1230  | 2.480 |         |              | 74.4  | 7.5     | 8246.3       | 4.6     | 7371.5       |
| 1231  | 2.480 |         |              | 74.4  | 7.5     | 8253.4       | 4.6     | 73766        |



## K E R O G E N   A N A L Y S I S

FOR

THE CLEVELAND CLIFFS IRON COMPANY-WELL P-3

## DENSITY LOG

## VELOCITY LOG

## DENSITY AND VELOCITY

| DEPTH  | RHO-B | GAL/TON | ACCUM. YIELD | RHO-B | GAL/TON | ACCUM. YIELD | GAL/TON | ACCUM. YIELD |
|--------|-------|---------|--------------|-------|---------|--------------|---------|--------------|
| 1160   | 2.420 | 7.9     | 6325.3       | 75.3  | 8.3     | 7744.4       | 7.6     | 7024.8       |
| 1161   | 2.390 | 9.1     | 6334.3       | 75.7  | 8.6     | 7753.0       | 8.9     | 7042.7       |
| 1162   | 2.380 | 9.8     | 6344.2       | 75.7  | 8.6     | 7761.7       | 9.2     | 7052.9       |
| 1163   | 2.370 | 10.6    | 6354.7       | 75.3  | 8.3     | 7769.9       | 9.4     | 7062.3       |
| 1164   | 2.380 | 7.9     | 6364.5       | 75.3  | 8.3     | 7778.2       | 9.1     | 7071.4       |
| 1165   | 2.420 | 4.9     | 6371.4       | 74.0  | 7.1     | 7785.3       | 7.0     | 7078.4       |
| 1166   | 2.420 | 6.9     | 6378.3       | 74.4  | 7.5     | 7792.8       | 7.2     | 7085.6       |
| 1167   | 2.420 | 4.9     | 6385.2       | 75.3  | 8.3     | 7801.1       | 7.6     | 7093.1       |
| 1168   | 2.420 | 6.9     | 6392.1       | 75.7  | 8.6     | 7809.8       | 7.8     | 7100.9       |
| 1169   | 2.400 | 8.3     | 6400.4       | 74.8  | 7.8     | 7817.6       | 8.1     | 7109.0       |
| 1170   | 2.420 | 6.9     | 6407.3       | 73.1  | 6.3     | 7823.9       | 6.6     | 7115.6       |
| 1171   | 2.450 | 4.7     | 6412.1       | 73.6  | 6.3     | 7830.7       | 5.8     | 7121.4       |
| 1172   | 2.460 | 4.0     | 6416.1       | 73.6  | 6.8     | 7837.5       | 5.4     | 7126.8       |
| 1173   | 2.410 | 7.6     | 6423.7       | 74.0  | 7.1     | 7844.6       | 7.4     | 7134.1       |
| 1174   | 2.440 | 5.4     | 6429.1       | 77.0  | 9.8     | 7854.4       | 7.6     | 7141.8       |
| 1175   | 2.460 | 5.4     | 6434.2       | 78.7  | 11.4    | 7865.8       | 7.7     | 7149.5       |
| 1176   | 2.410 | 5.4     | 6440.8       | 80.0  | 12.6    | 7878.4       | 10.1    | 7159.6       |
| 1177   | 2.380 | 5.4     | 6446.2       | 83.0  | 15.5    | 7893.8       | 12.6    | 7172.2       |
| 1178   | 2.320 | 14.4    | 6465.0       | 89.9  | 22.4    | 7916.2       | 18.4    | 7190.6       |
| 1179   | 2.320 | 5.4     | 6470.4       | 89.4  | 21.5    | 7937.7       | 18.0    | 7208.5       |
| 1180   | 2.380 | 5.4     | 6475.8       | 87.8  | 20.2    | 7957.9       | 15.0    | 7223.5       |
| 1181   | 2.300 | 5.4     | 6481.2       | 83.9  | 16.3    | 7974.3       | 16.1    | 7239.7       |
| 1182   | 2.210 | 23.2    | 6528.3       | 83.9  | 16.3    | 7990.6       | 19.8    | 7259.4       |
| 1183   | 2.300 | 15.9    | 6544.3       | 83.0  | 15.5    | 8006.0       | 15.7    | 7275.1       |
| 1184   | 2.390 | 9.1     | 6553.3       | 81.3  | 13.8    | 8019.9       | 11.5    | 7286.6       |
| 1185   | 2.410 | 7.6     | 6561.0       | 82.2  | 14.7    | 8034.5       | 11.1    | 7297.7       |
| 1186   | 2.420 | 6.9     | 6567.8       | 83.5  | 15.9    | 8050.5       | 11.4    | 7309.2       |
| 1187   | 2.350 | 12.1    | 6579.9       | 83.5  | 15.9    | 8066.4       | 14.0    | 7323.2       |
| 1188   | 2.210 | 23.2    | 6603.2       | 86.5  | 18.9    | 8085.3       | 21.1    | 7344.2       |
| 1189   | 2.300 | 15.9    | 6619.1       | 89.9  | 22.4    | 8107.7       | 19.1    | 7363.4       |
| 1190   | 2.420 | 6.9     | 6626.0       | 91.2  | 23.7    | 8131.4       | 15.3    | 7378.7       |
| 1191   | 2.300 | 15.9    | 6641.9       | 88.6  | 21.0    | 8152.4       | 18.5    | 7397.1       |
| 1192   | 2.170 | 26.6    | 6668.5       | 89.9  | 22.4    | 8174.7       | 24.5    | 7421.6       |
| 1193   | 2.170 | 26.6    | 6695.2       | 90.3  | 22.8    | 8197.5       | 24.7    | 7443.3       |
| 1194   | 2.230 | 21.6    | 6716.7       | 89.1  | 21.5    | 8219.0       | 21.6    | 7467.9       |
| 1195   | 2.270 | 18.3    | 6735.1       | 86.0  | 18.4    | 8237.4       | 19.4    | 7486.2       |
| 1196   | 2.210 | 15.2    | 6750.2       | 82.6  | 15.1    | 8252.5       | 15.1    | 7501.4       |
| 1197   | 2.210 | 14.4    | 6764.6       | 80.0  | 12.6    | 8265.1       | 13.5    | 7514.8       |
| 1198   | 2.210 | 17.5    | 6762.1       | 80.0  | 12.6    | 8277.7       | 15.1    | 7529.9       |
| 1199   | 2.210 | 16.7    | 6798.8       | 80.9  | 13.4    | 8291.1       | 15.1    | 7545.0       |
| 1200   | 2.210 | 12.8    | 6811.7       | 82.2  | 14.7    | 8305.3       | 12.8    | 7560.7       |
| 1201   | 2.210 | 18.6    | 6822.2       | 83.9  | 16.3    | 8322.1       | 13.4    | 7577.2       |
| 1202   | 2.210 | 12.1    | 6834.3       | 86.5  | 18.9    | 8341.0       | 15.5    | 7593.7       |
| 1203   | 2.210 | 12.1    | 6846.4       | 86.0  | 18.4    | 8359.4       | 15.2    | 7610.2       |
| 1204   | 2.210 | 15.2    | 6861.5       | 85.6  | 18.0    | 8377.4       | 16.6    | 7627.5       |
| 1205   | 2.210 | 15.2    | 6877.3       | 84.8  | 17.2    | 8394.7       | 17.0    | 7644.5       |
| 1206   | 2.210 | 15.2    | 6893.1       | 83.5  | 16.3    | 8411.5       | 15.5    | 7661.0       |
| 1207   | 2.210 | 15.2    | 6908.9       | 81.7  | 15.2    | 8428.3       | 14.7    | 7677.5       |
| 1208   | 2.210 | 15.2    | 6924.7       | 81.7  | 15.2    | 8445.1       | 14.7    | 7694.0       |
| 1209   | 2.210 | 15.2    | 6940.5       | 80.9  | 15.2    | 8461.9       | 15.1    | 7710.5       |
| 1210   | 2.210 | 15.2    | 6956.3       | 80.9  | 15.2    | 8478.7       | 15.1    | 7727.0       |
| 1211   | 2.210 | 15.2    | 6972.1       | 80.9  | 15.2    | 8495.5       | 15.1    | 7743.5       |
| 1212   | 2.210 | 15.2    | 6987.9       | 80.9  | 15.2    | 8512.3       | 15.1    | 7760.0       |
| 1213   | 2.210 | 15.2    | 7003.7       | 80.9  | 15.2    | 8529.1       | 15.1    | 7776.5       |
| 1214   | 2.210 | 15.2    | 7019.5       | 80.9  | 15.2    | 8545.9       | 15.1    | 7793.0       |
| 1215   | 2.210 | 15.2    | 7035.3       | 80.9  | 15.2    | 8562.7       | 15.1    | 7809.5       |
| 1216   | 2.210 | 15.2    | 7051.1       | 80.9  | 15.2    | 8579.5       | 15.1    | 7826.0       |
| 1217   | 2.210 | 15.2    | 7066.9       | 80.9  | 15.2    | 8596.3       | 15.1    | 7842.5       |
| 1218   | 2.210 | 15.2    | 7082.7       | 80.9  | 15.2    | 8613.1       | 15.1    | 7859.0       |
| 1219   | 2.210 | 15.2    | 7098.5       | 80.9  | 15.2    | 8629.9       | 15.1    | 7875.5       |
| 1220   | 2.210 | 15.2    | 7114.3       | 80.9  | 15.2    | 8646.7       | 15.1    | 7892.0       |
| 1221   | 2.210 | 15.2    | 7130.1       | 80.9  | 15.2    | 8663.5       | 15.1    | 7908.5       |
| 1222   | 2.210 | 15.2    | 7145.9       | 80.9  | 15.2    | 8680.3       | 15.1    | 7925.0       |
| 1223   | 2.210 | 15.2    | 7161.7       | 80.9  | 15.2    | 8697.1       | 15.1    | 7941.5       |
| 1224   | 2.210 | 15.2    | 7177.5       | 80.9  | 15.2    | 8713.9       | 15.1    | 7958.0       |
| 1225   | 2.210 | 15.2    | 7193.3       | 80.9  | 15.2    | 8730.7       | 15.1    | 7974.5       |
| 1226   | 2.210 | 15.2    | 7209.1       | 80.9  | 15.2    | 8747.5       | 15.1    | 7991.0       |
| 1227   | 2.210 | 15.2    | 7224.9       | 80.9  | 15.2    | 8764.3       | 15.1    | 8007.5       |
| 1228   | 2.210 | 15.2    | 7240.7       | 80.9  | 15.2    | 8781.1       | 15.1    | 8024.0       |
| 1229   | 2.210 | 15.2    | 7256.5       | 80.9  | 15.2    | 8797.9       | 15.1    | 8040.5       |
| 1230   | 2.210 | 15.2    | 7272.3       | 80.9  | 15.2    | 8814.7       | 15.1    | 8057.0       |
| 1231   | 2.210 | 15.2    | 7288.1       | 80.9  | 15.2    | 8831.5       | 15.1    | 8073.5       |
| 1232   | 2.210 | 15.2    | 7303.9       | 80.9  | 15.2    | 8848.3       | 15.1    | 8090.0       |
| 1233   | 2.210 | 15.2    | 7319.7       | 80.9  | 15.2    | 8865.1       | 15.1    | 8106.5       |
| 1234   | 2.210 | 15.2    | 7335.5       | 80.9  | 15.2    | 8881.9       | 15.1    | 8123.0       |
| 1235   | 2.210 | 15.2    | 7351.3       | 80.9  | 15.2    | 8898.7       | 15.1    | 8139.5       |
| 1236   | 2.210 | 15.2    | 7367.1       | 80.9  | 15.2    | 8915.5       | 15.1    | 8156.0       |
| 1237   | 2.210 | 15.2    | 7382.9       | 80.9  | 15.2    | 8932.3       | 15.1    | 8172.5       |
| 1238   | 2.210 | 15.2    | 7398.7       | 80.9  | 15.2    | 8949.1       | 15.1    | 8189.0       |
| 1239   | 2.210 | 15.2    | 7414.5       | 80.9  | 15.2    | 8965.9       | 15.1    | 8205.5       |
| 1240   | 2.210 | 15.2    | 7430.3       | 80.9  | 15.2    | 8982.7       | 15.1    | 8222.0       |
| 1241   | 2.210 | 15.2    | 7446.1       | 80.9  | 15.2    | 8999.5       | 15.1    | 8238.5       |
| 1242   | 2.210 | 15.2    | 7461.9       | 80.9  | 15.2    | 9016.3       | 15.1    | 8255.0       |
| 1243   | 2.210 | 15.2    | 7477.7       | 80.9  | 15.2    | 9033.1       | 15.1    | 8271.5       |
| 1244   | 2.210 | 15.2    | 7493.5       | 80.9  | 15.2    | 9049.9       | 15.1    | 8288.0       |
| 1245   | 2.210 | 15.2    | 7509.3       | 80.9  | 15.2    | 9066.7       | 15.1    | 8304.5       |
| 1246   | 2.210 | 15.2    | 7525.1       | 80.9  | 15.2    | 9083.5       | 15.1    | 8321.0       |
| 1247   | 2.210 | 15.2    | 7540.9       | 80.9  | 15.2    | 9100.3       | 15.1    | 8337.5       |
| 1248   | 2.210 | 15.2    | 7556.7       | 80.9  | 15.2    | 9117.1       | 15.1    | 8354.0       |
| 1249   | 2.210 | 15.2    | 7572.5       | 80.9  | 15.2    | 9133.9       | 15.1    | 8370.5       |
| 1250   | 2.210 | 15.2    | 7588.3       | 80.9  | 15.2    | 9150.7       | 15.1    | 8387.0       |
| 1251   | 2.210 | 15.2    | 7604.1       | 80.9  | 15.2    | 9167.5       | 15.1    | 8403.5       |
| 1252   | 2.210 | 15.2    | 7619.9       | 80.9  | 15.2    | 9184.3       | 15.1    | 8420.0       |
| 1253   | 2.210 | 15.2    | 7635.7       | 80.9  | 15.2    | 9201.1       | 15.1    | 8436.5       |
| 1254   | 2.210 | 15.2    | 7651.5       | 80.9  | 15.2    | 9217.9       | 15.1    | 8453.0       |
| 1255   | 2.210 | 15.2    | 7667.3       | 80.9  | 15.2    | 9234.7       | 15.1    | 8469.5       |
| 1256   | 2.210 | 15.2    | 7683.1       | 80.9  | 15.2    | 9251.5       | 15.1    | 8486.0       |
| 1257   | 2.210 | 15.2    | 7698.9       | 80.9  | 15.2    | 9268.3       | 15.1    | 8502.5       |
| 1258   | 2.210 | 15.2    | 7714.7       | 80.9  | 15.2    | 9285.1       | 15.1    | 8519.0       |
| 1259   | 2.210 | 15.2    | 7730.5       | 80.9  | 15.2    | 9301.9       | 15.1    | 8535.5       |
| 1260   | 2.210 | 15.2    | 7746.3       | 80.9  | 15.2    | 9318.7       | 15.1    | 8552.0       |
| 1261   | 2.210 | 15.2    | 7762.1       | 80.9  | 15.2    | 9335.5       | 15.1    | 8568.5       |
| 1262   | 2.210 | 15.2    | 7777.9       | 80.9  | 15.2    | 9352.3       | 15.1    | 8585.0       |
| 1263   | 2.210 | 15.2    | 7793.7       | 80.9  | 15.2    | 9369.1       | 15.1    | 8601.5       |
| 1264   | 2.210 | 15.2    | 7809.5       | 80.9  | 15.2    | 9385.9       | 15.1    | 8618.0       |
| 1265   | 2.210 | 15.2    | 7825.3       | 80.9  | 15.2    | 9402.7       | 15.1    | 8634.5       |
| 1266   | 2.210 | 15.2    | 7841.1       | 80.9  | 15.2    | 9419.5       | 15.1    | 8651.0       |
| 1267   | 2.210 | 15.2    | 7856.9       | 80.9  | 15.2    | 9436.3       | 15.1    | 8667.5       |
| 1268   | 2.210 | 15.2    | 7872.7       | 80.9  | 15.2    | 9453.1       | 15.1    | 8684.0       |
| 1269   | 2.210 | 15.2    | 7888.5       | 80.9  | 15.2    | 9469.9       | 15.1    | 8700.5       |
| 1270   | 2.210 | 15.2    | 7904.3       | 80.9  | 15.2    | 9486.7       | 15.1    | 8717.0       |
| 1271   | 2.210 | 15.2    | 7920.1       | 80.9  | 15.2    | 9503.5       | 15.1    | 8733.5       |
| 1272   | 2.210 | 15.2    | 7935.9       | 80.9  | 15.2    | 9520.3       | 15.1    | 8750.0       |
| 1273   | 2.210 | 15.2    | 7951.7       | 80.9  | 15.2    | 9537.1       | 15.1    | 8766.5       |
| 1274   | 2.210 | 15.2    | 7967.5       | 80.9  | 15.2    | 9553.9       | 15.1    | 8783.0       |
| 1275   | 2.210 | 15.2    | 7983.3       | 80.9  | 15.2    | 9570.7       | 15.1    | 8799.5       |
| 1276   | 2.210 | 15.2    | 7999.1       | 80.9  | 15.2    | 9587.5       | 15.1    | 8816.0       |
| 1277   | 2.210 | 15.2    | 8014.9       | 80.9  | 15.2    | 9604.3       | 15.1    | 8832.5       |
| 1278   | 2.210 | 15.2    | 8030.7       | 80.9  | 15.2    | 9621.1       | 15.1    | 8849.0       |
| 1279   | 2.210 | 15.2    | 8046.5       | 80.9  | 15.2    | 9637.9       | 15.1    | 8865.5       |
| 1280   | 2.210 | 15.2    | 8062.3       | 80.9  | 15.2    | 9654.7       | 15.1    | 8882.0       |
| 1281   | 2.210 | 15.2    | 8078.1       | 80.9  | 15.2    | 9671.5       | 15.1    | 8898.5       |
| 1282   | 2.210 | 15.2    | 8093.9       | 80.9  | 15.2    | 9688.3       | 15.1    | 8915.0       |
| 1283   | 2.210 | 15.2    | 8109.7       | 80.9  | 15.2    | 9705.1       | 15.1    | 8931.5       |
| 1284   | 2.210 | 15.2    | 8125.5       | 80.9  | 15.2    | 9721.9       | 15.1    | 8948.0       |
| 1285   | 2.210 | 15.2    | 8141.3       | 80.9  | 15.2    | 9738.7       | 15.1    | 8964.5       |
| 1286   | 2.210 | 15.2    | 8157.1       | 80.9  | 15.2    | 9755.5       | 15.1    | 8981.0       |
| 1287   | 2.210 | 15.2    | 8172.9       | 80.9  | 15.2    | 9772.3       | 15.1    | 8997.5       |
| 1288   | 2.210 | 15.2    | 8188.7       | 80.9  | 15.2    | 9789.1       | 15.1    | 9014.0       |
| 1289   | 2.210 | 15.2    | 8204.5       | 80.9  | 15.2    | 9805.9       | 15.1    | 9030.5       |
| 1290</ |       |         |              |       |         |              |         |              |

# THE UNITED STATES STEEL IRON COMPANY - CIL P-3

| DEPTH | DENSITY LOG |         |              | VELOCITY LOG |         |              | DENSITY AND VELOCITY |              |
|-------|-------------|---------|--------------|--------------|---------|--------------|----------------------|--------------|
|       | ARC-1       | GAL/TON | ACCUM. YIELD | ARC-8        | GAL/TON | ACCUM. YIELD | GAL/TON              | ACCUM. YIELD |
| 1210  | 21.1        | 14.7    | 651.7        | 83.4         | 14.0    | 8465.0       | 14.8                 | 7711.9       |
| 1211  | 21.1        | 14.7    | 651.7        | 83.5         | 14.0    | 8481.0       | 15.2                 | 7727.0       |
| 1212  | 21.1        | 14.7    | 651.7        | 87.3         | 14.7    | 8500.7       | 16.3                 | 7743.3       |
| 1213  | 21.1        | 14.7    | 651.7        | 90.8         | 14.3    | 8524.0       | 18.1                 | 7761.4       |
| 1214  | 21.1        | 14.7    | 651.7        | 95.1         | 17.4    | 8551.8       | 21.9                 | 7753.3       |