

K E R O G E N A N A L Y S I S

FOR

THE CLEVELAND CLIFFS IRON COMPANY-WELL P-1

| DEPTH | DENSITY LOG | | | VELOCITY LOG | | | DENSITY AND VELOCITY | |
|-------|-------------|---------|--------------|--------------|---------|--------------|----------------------|--------------|
| | RHO-B | GAL/TON | ACCUM. YIELD | RHO-B | GAL/TON | ACCUM. YIELD | GAL/TON | ACCUM. YIELD |
| 70 | 2.290 | 16.7 | 16.7 | | | | | |
| 71 | 2.240 | 20.8 | 37.5 | | | | | |
| 72 | 2.230 | 21.6 | 59.0 | | | | | |
| 73 | 2.260 | 19.1 | 78.2 | | | | | |
| 74 | 2.260 | 19.1 | 97.3 | | | | | |
| 75 | 2.240 | 20.8 | 118.0 | | | | | |
| 76 | 2.240 | 20.8 | 138.8 | | | | | |
| 77 | 2.260 | 19.1 | 157.9 | | | | | |
| 78 | 2.270 | 18.3 | 176.2 | | | | | |
| 79 | 2.270 | 18.3 | 194.6 | | | | | |
| 80 | 2.290 | 16.7 | 211.3 | | | | | |
| 81 | 2.300 | 15.9 | 227.2 | | | | | |
| 82 | 2.290 | 16.7 | 243.9 | | | | | |
| 83 | 2.290 | 16.7 | 260.7 | | | | | |
| 84 | 2.310 | 15.2 | 275.8 | | | | | |
| 85 | 2.360 | 11.3 | 287.1 | | | | | |
| 86 | 2.380 | 9.8 | 297.0 | | | | | |
| 87 | 2.300 | 15.9 | 312.9 | | | | | |
| 88 | 2.260 | 19.1 | 332.0 | | | | | |
| 89 | 2.260 | 19.1 | 351.2 | | | | | |
| 90 | 2.220 | 22.4 | 373.6 | | | | | |
| 91 | 2.190 | 24.9 | 398.5 | | | | | |
| 92 | 2.220 | 22.4 | 420.9 | | | | | |
| 93 | 2.280 | 17.5 | 438.4 | | | | | |
| 94 | 2.260 | 19.1 | 457.5 | | | | | |
| 95 | 2.270 | 18.3 | 475.8 | | | | | |
| 96 | 2.280 | 17.5 | 493.4 | | | | | |
| 97 | 2.300 | 15.9 | 509.3 | | | | | |
| 98 | 2.310 | 15.2 | 524.4 | | | | | |
| 99 | 2.330 | 13.6 | 538.1 | | | | | |
| 100 | 2.330 | 13.6 | 551.7 | | | | | |
| 101 | 2.330 | 13.6 | 565.3 | | | | | |
| 102 | 2.300 | 15.9 | 581.2 | | | | | |
| 103 | 2.280 | 17.5 | 598.7 | | | | | |
| 104 | 2.260 | 19.1 | 617.8 | | | | | |
| 105 | 2.230 | 21.6 | 639.4 | | | | | |
| 106 | 2.200 | 24.1 | 663.5 | | | | | |
| 107 | 2.180 | 25.8 | 689.3 | | | | | |
| 108 | 2.190 | 24.9 | 714.2 | | | | | |
| 109 | 2.240 | 20.8 | 734.9 | | | | | |
| 110 | 2.240 | 20.8 | 755.7 | | | | | |
| 111 | 2.250 | 19.9 | 775.6 | | | | | |
| 112 | 2.260 | 19.1 | 794.7 | | | | | |
| 113 | 2.270 | 18.3 | 813.1 | | | | | |
| 114 | 2.310 | 15.2 | 828.2 | | | | | |
| 115 | 2.320 | 14.4 | 842.6 | | | | | |
| 116 | 2.310 | 15.2 | 857.8 | | | | | |
| 117 | 2.310 | 15.2 | 872.9 | | | | | |
| 118 | 2.290 | 16.7 | 889.6 | | | | | |
| 119 | 2.290 | 16.7 | 906.3 | | | | | |

K E R O G E N A N A L Y S I S

FOR

THE CLEVELAND CLIFFS IRON COMPANY-WELL P-1

| DEPTH | DENSITY LOG | | | VELOCITY LOG | | | DENSITY AND VELOCITY | |
|-------|-------------|---------|--------------|--------------|---------|--------------|----------------------|--------------|
| | RHO-B | GAL/TON | ACCUM. YIELD | RHO-B | GAL/TON | ACCUM. YIELD | GAL/TON | ACCUM. YIELD |
| 120 | 2.290 | 16.7 | 922.3 | | | | | |
| 121 | 2.280 | 17.5 | 939.8 | | | | | |
| 122 | 2.250 | 19.9 | 959.7 | | | | | |
| 123 | 2.230 | 21.6 | 981.3 | | | | | |
| 124 | 2.200 | 24.1 | 1005.4 | | | | | |
| 125 | 2.170 | 26.6 | 1032.0 | | | | | |
| 126 | 2.160 | 27.5 | 1059.5 | | | | | |
| 127 | 2.150 | 28.4 | 1087.9 | | | | | |
| 128 | 2.180 | 25.8 | 1113.7 | | | | | |
| 129 | 2.210 | 23.2 | 1136.9 | | | | | |
| 130 | 2.220 | 22.4 | 1159.3 | | | | | |
| 131 | 2.250 | 19.9 | 1179.3 | | | | | |
| 132 | 2.270 | 18.3 | 1197.6 | | | | | |
| 133 | 2.310 | 15.2 | 1212.7 | | | | | |
| 134 | 2.330 | 13.6 | 1226.3 | | | | | |
| 135 | 2.300 | 15.9 | 1242.3 | | | | | |
| 136 | 2.300 | 15.9 | 1258.2 | | | | | |
| 137 | 2.300 | 15.9 | 1274.1 | | | | | |
| 138 | 2.310 | 15.2 | 1289.3 | | | | | |
| 139 | 2.310 | 15.2 | 1304.4 | | | | | |
| 140 | 2.320 | 14.4 | 1318.8 | | | | | |
| 141 | 2.320 | 14.4 | 1333.2 | | | | | |
| 142 | 2.340 | 12.8 | 1346.0 | | | | | |
| 143 | 2.350 | 12.1 | 1358.1 | | | | | |
| 144 | 2.360 | 11.3 | 1369.4 | | | | | |
| 145 | 2.350 | 12.1 | 1381.5 | | | | | |
| 146 | 2.320 | 14.4 | 1395.9 | | | | | |
| 147 | 2.300 | 15.9 | 1411.8 | | | | | |
| 148 | 2.300 | 15.9 | 1427.8 | | | | | |
| 149 | 2.310 | 15.2 | 1442.9 | | | | | |
| 150 | 2.330 | 13.6 | 1456.5 | | | | | |
| 151 | 2.350 | 12.1 | 1468.6 | | | | | |
| 152 | 2.350 | 12.1 | 1480.7 | | | | | |
| 153 | 2.340 | 12.8 | 1493.5 | | | | | |
| 154 | 2.330 | 13.6 | 1507.1 | | | | | |
| 155 | 2.340 | 12.8 | 1520.0 | | | | | |
| 156 | 2.350 | 12.1 | 1532.0 | | | | | |
| 157 | 2.340 | 12.8 | 1544.9 | | | | | |
| 158 | 2.340 | 12.8 | 1557.7 | | | | | |
| 159 | 2.340 | 12.8 | 1570.5 | | | | | |
| 160 | 2.350 | 12.1 | 1582.6 | | | | | |
| 161 | 2.350 | 12.1 | 1594.7 | | | | | |
| 162 | 2.340 | 12.8 | 1607.5 | | | | | |
| 163 | 2.340 | 12.8 | 1620.4 | | | | | |
| 164 | 2.310 | 15.2 | 1635.5 | | | | | |
| 165 | 2.300 | 15.9 | 1651.5 | | | | | |
| 166 | 2.290 | 16.7 | 1668.2 | | | | | |
| 167 | 2.290 | 16.7 | 1684.9 | | | | | |
| 168 | 2.320 | 14.4 | 1697.3 | | | | | |
| 169 | 2.350 | 12.1 | 1711.4 | | | | | |

K E R O G E N A N A L Y S I S

FOR

THE CLEVELAND CLIFFS IRON COMPANY-WELL P-1

| DEPTH | DENSITY LOG | | | VELOCITY LOG | | | DENSITY AND VELOCITY | |
|-------|-------------|---------|--------------|--------------|---------|--------------|----------------------|--------------|
| | RHO-B | GAL/TON | ACCUM. YIELD | RHO-B | GAL/TON | ACCUM. YIELD | GAL/TON | ACCUM. YIELD |
| 170 | 2.330 | 13.6 | 1725.0 | | | | | |
| 171 | 2.330 | 13.6 | 1738.6 | | | | | |
| 172 | 2.330 | 13.6 | 1752.2 | | | | | |
| 173 | 2.300 | 15.9 | 1768.1 | | | | | |
| 174 | 2.270 | 18.3 | 1786.4 | | | | | |
| 175 | 2.270 | 18.3 | 1804.8 | | | | | |
| 176 | 2.270 | 18.3 | 1823.1 | | | | | |
| 177 | 2.270 | 18.3 | 1841.4 | | | | | |
| 178 | 2.310 | 15.2 | 1856.6 | | | | | |
| 179 | 2.340 | 12.8 | 1869.4 | | | | | |
| 180 | 2.310 | 15.2 | 1884.5 | | | | | |
| 181 | 2.270 | 18.3 | 1902.9 | | | | | |
| 182 | 2.290 | 16.7 | 1919.6 | | | | | |
| 183 | 2.310 | 15.2 | 1934.7 | | | | | |
| 184 | 2.310 | 15.2 | 1949.9 | | | | | |
| 185 | 2.330 | 13.6 | 1963.5 | | | | | |
| 186 | 2.340 | 12.8 | 1976.3 | | | | | |
| 187 | 2.320 | 14.4 | 1990.7 | | | | | |
| 188 | 2.300 | 15.9 | 2006.7 | | | | | |
| 189 | 2.280 | 17.5 | 2024.2 | | | | | |
| 190 | 2.310 | 15.2 | 2039.3 | | | | | |
| 191 | 2.310 | 15.2 | 2054.5 | | | | | |
| 192 | 2.360 | 11.3 | 2065.8 | | | | | |
| 193 | 2.410 | 7.6 | 2073.4 | | | | | |
| 194 | 2.430 | 6.2 | 2079.6 | | | | | |
| 195 | 2.430 | 6.2 | 2085.7 | | | | | |
| 196 | 2.410 | 7.6 | 2093.4 | | | | | |
| 197 | 2.400 | 8.3 | 2101.7 | | | | | |
| 198 | 2.390 | 9.1 | 2110.8 | | | | | |
| 199 | 2.390 | 9.1 | 2119.9 | | | | | |
| 200 | 2.390 | 9.1 | 2128.9 | | | | | |
| 201 | 2.390 | 9.1 | 2138.0 | | | | | |
| 202 | 2.380 | 9.8 | 2147.9 | | | | | |
| 203 | 2.370 | 10.6 | 2158.4 | | | | | |
| 204 | 2.370 | 10.6 | 2169.0 | | | | | |
| 205 | 2.360 | 11.3 | 2180.3 | | | | | |
| 206 | 2.360 | 11.3 | 2191.6 | | | | | |
| 207 | 2.350 | 12.1 | 2203.7 | | | | | |
| 208 | 2.350 | 12.1 | 2215.8 | | | | | |
| 209 | 2.390 | 9.1 | 2224.9 | | | | | |
| 210 | 2.430 | 6.2 | 2231.0 | | | | | |
| 211 | 2.430 | 6.2 | 2237.2 | | | | | |
| 212 | 2.430 | 6.2 | 2243.4 | | | | | |
| 213 | 2.410 | 7.6 | 2251.0 | | | | | |
| 214 | 2.400 | 8.3 | 2259.3 | | | | | |
| 215 | 2.410 | 7.6 | 2266.9 | | | | | |
| 216 | 2.390 | 9.1 | 2276.0 | | | | | |
| 217 | 2.390 | 9.1 | 2285.8 | | | | | |
| 218 | 2.390 | 9.1 | 2295.7 | | | | | |
| 219 | 2.390 | 9.1 | 2305.5 | | | | | |

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FOR

THE CLEVELAND CLIFFS IRON COMPANY-WELL P-1

| DEPTH | DENSITY LOG | | | VELOCITY LOG | | | DENSITY AND VELOCITY | |
|-------|-------------|---------|--------------|--------------|---------|--------------|----------------------|--------------|
| | RHO-B | GAL/TON | ACCUM. YIELD | RHO-B | GAL/TON | ACCUM. YIELD | GAL/TON | ACCUM. YIELD |
| 220 | 2.400 | 8.3 | 2313.8 | | | | | |
| 221 | 2.400 | 8.3 | 2322.2 | | | | | |
| 222 | 2.400 | 8.3 | 2330.5 | | | | | |
| 223 | 2.390 | 9.1 | 2339.6 | | | | | |
| 224 | 2.390 | 9.1 | 2348.7 | | | | | |
| 225 | 2.380 | 9.8 | 2358.5 | | | | | |
| 226 | 2.390 | 9.1 | 2367.6 | | | | | |
| 227 | 2.400 | 8.3 | 2375.5 | | | | | |
| 228 | 2.390 | 9.1 | 2385.0 | | | | | |
| 229 | 2.400 | 8.3 | 2393.4 | | | | | |
| 230 | 2.400 | 8.3 | 2401.7 | | | | | |
| 231 | 2.370 | 10.6 | 2412.3 | | | | | |
| 232 | 2.380 | 9.8 | 2422.1 | | | | | |
| 233 | 2.410 | 7.6 | 2429.7 | | | | | |
| 234 | 2.390 | 9.1 | 2438.8 | | | | | |
| 235 | 2.360 | 11.3 | 2450.1 | | | | | |
| 236 | 2.350 | 12.1 | 2462.2 | | | | | |
| 237 | 2.350 | 12.1 | 2474.3 | | | | | |
| 238 | 2.350 | 12.1 | 2486.3 | | | | | |
| 239 | 2.370 | 10.6 | 2496.9 | | | | | |
| 240 | 2.380 | 9.8 | 2506.7 | | | | | |
| 241 | 2.410 | 7.6 | 2514.3 | | | | | |
| 242 | 2.390 | 9.1 | 2523.4 | | | | | |
| 243 | 2.370 | 10.6 | 2534.0 | | | | | |
| 244 | 2.370 | 10.6 | 2544.6 | | | | | |
| 245 | 2.370 | 10.6 | 2555.1 | | | | | |
| 246 | 2.400 | 8.3 | 2563.5 | | | | | |
| 247 | 2.400 | 8.3 | 2571.8 | | | | | |
| 248 | 2.370 | 10.6 | 2582.4 | | | | | |
| 249 | 2.360 | 11.3 | 2593.7 | | | | | |
| 250 | 2.360 | 11.3 | 2605.0 | | | | | |
| 251 | 2.330 | 13.6 | 2618.6 | | | | | |
| 252 | 2.280 | 17.5 | 2636.2 | | | | | |
| 253 | 2.250 | 19.9 | 2656.1 | | | | | |
| 254 | 2.270 | 18.3 | 2674.4 | | | | | |
| 255 | 2.330 | 13.6 | 2688.0 | | | | | |
| 256 | 2.370 | 10.6 | 2698.6 | | | | | |
| 257 | 2.360 | 11.3 | 2709.9 | | | | | |
| 258 | 2.330 | 13.6 | 2723.5 | | | | | |
| 259 | 2.320 | 14.4 | 2737.9 | | | | | |
| 260 | 2.310 | 15.2 | 2753.0 | | | | | |
| 261 | 2.290 | 16.7 | 2769.8 | | | | | |
| 262 | 2.290 | 16.7 | 2786.5 | | | | | |
| 263 | 2.280 | 17.5 | 2804.0 | | | | | |
| 264 | 2.250 | 19.9 | 2823.9 | | | | | |
| 265 | 2.260 | 19.1 | 2843.1 | | | | | |
| 266 | 2.330 | 13.6 | 2856.7 | | | | | |
| 267 | 2.370 | 10.6 | 2867.2 | | | | | |
| 268 | 2.360 | 11.3 | 2878.6 | | | | | |
| 269 | 2.350 | 12.1 | 2890.0 | | | | | |

K E R O G E N A N A L Y S I S

FOR

THE CLEVELAND CLIFFS IRON COMPANY-WELL P-1

| DEPTH | DENSITY LOG | | | VELOCITY LOG | | | DENSITY AND VELOCITY | |
|-------|-------------|---------|--------------|--------------|---------|--------------|----------------------|--------------|
| | RHO-B | GAL/TON | ACCUM. YIELD | RHO-B | GAL/TON | ACCUM. YIELD | GAL/TON | ACCUM. YIELD |
| 270 | 2.390 | 9.1 | 2899.7 | | | | | |
| 271 | 2.400 | 8.3 | 2908.1 | | | | | |
| 272 | 2.400 | 8.3 | 2916.4 | | | | | |
| 273 | 2.390 | 9.1 | 2925.5 | | | | | |
| 274 | 2.370 | 10.6 | 2936.1 | | | | | |
| 275 | 2.370 | 10.6 | 2946.6 | | | | | |
| 276 | 2.380 | 9.8 | 2956.5 | | | | | |
| 277 | 2.370 | 10.6 | 2967.0 | | | | | |
| 278 | 2.410 | 7.6 | 2974.6 | | | | | |
| 279 | 2.340 | 12.8 | 2987.5 | | | | | |
| 280 | 2.300 | 15.9 | 3003.4 | | | | | |
| 281 | 2.300 | 15.9 | 3019.4 | | | | | |
| 282 | 2.330 | 13.6 | 3033.0 | | | | | |
| 283 | 2.320 | 14.4 | 3047.3 | | | | | |
| 284 | 2.290 | 16.7 | 3064.1 | | | | | |
| 285 | 2.290 | 16.7 | 3080.8 | | | | | |
| 286 | 2.300 | 15.9 | 3096.7 | | | | | |
| 287 | 2.300 | 15.9 | 3112.7 | | | | | |
| 288 | 2.280 | 17.5 | 3130.2 | | | | | |
| 289 | 2.280 | 17.5 | 3147.7 | | | | | |
| 290 | 2.280 | 17.5 | 3165.2 | | | | | |
| 291 | 2.290 | 16.7 | 3181.9 | | | | | |
| 292 | 2.290 | 16.7 | 3198.7 | | | | | |
| 293 | 2.290 | 16.7 | 3215.4 | | | | | |
| 294 | 2.280 | 17.5 | 3232.9 | | | | | |
| 295 | 2.290 | 16.7 | 3249.6 | | | | | |
| 296 | 2.300 | 15.9 | 3265.6 | | | | | |
| 297 | 2.320 | 14.4 | 3279.9 | | | | | |
| 298 | 2.330 | 13.6 | 3293.6 | | | | | |
| 299 | 2.370 | 10.6 | 3304.1 | | | | | |
| 300 | 2.390 | 9.1 | 3313.2 | | | | | |
| 301 | 2.400 | 8.3 | 3321.5 | | | | | |
| 302 | 2.380 | 9.8 | 3331.4 | | | | | |
| 303 | 2.370 | 10.6 | 3341.9 | | | | | |
| 304 | 2.370 | 10.6 | 3352.5 | | | | | |
| 305 | 2.350 | 12.1 | 3364.6 | | | | | |
| 306 | 2.390 | 9.1 | 3373.7 | | | | | |
| 307 | 2.420 | 6.9 | 3380.6 | | | | | |
| 308 | 2.450 | 4.7 | 3385.3 | | | | | |
| 309 | 2.480 | 2.6 | 3387.9 | | | | | |
| 310 | 2.450 | 4.7 | 3392.7 | | | | | |
| 311 | 2.460 | 4.0 | 3396.7 | | | | | |
| 312 | 2.470 | 3.3 | 3400.0 | | | | | |
| 313 | 2.430 | 6.2 | 3406.2 | | | | | |
| 314 | 2.420 | 6.9 | 3413.1 | | | | | |
| 315 | 2.440 | 5.4 | 3418.5 | | | | | |
| 316 | 2.380 | 9.8 | 3428.3 | | | | | |
| 317 | 2.330 | 13.6 | 3441.9 | | | | | |
| 318 | 2.340 | 12.8 | 3454.8 | | | | | |
| 319 | 2.250 | 17.9 | 3471.7 | | | | | |

K E R O G E N A N A L Y S I S

FCR

THE CLEVELAND CLIFFS IRON COMPANY-WELL P-1

| DEPTH | DENSITY LOG | | | VELOCITY LOG | | | DENSITY AND VELOCITY | |
|-------|-------------|---------|--------------|--------------|---------|--------------|----------------------|--------------|
| | RHO-B | GAL/TON | ACCUM. YIELD | RHO-B | GAL/TON | ACCUM. YIELD | GAL/TON | ACCUM. YIELD |
| 320 | 2.150 | 28.4 | 3503.1 | | | | | |
| 321 | 2.050 | 37.5 | 3540.5 | | | | | |
| 322 | 2.070 | 35.6 | 3576.1 | | | | | |
| 323 | 2.270 | 18.3 | 3594.4 | | | | | |
| 324 | 2.380 | 9.8 | 3604.3 | | | | | |
| 325 | 2.380 | 9.8 | 3614.1 | | | | | |
| 326 | 2.390 | 9.1 | 3623.2 | | | | | |
| 327 | 2.390 | 9.1 | 3632.3 | | | | | |
| 328 | 2.430 | 6.2 | 3638.4 | | | | | |
| 329 | 2.440 | 5.4 | 3643.9 | | | | | |
| 330 | 2.500 | 1.2 | 3645.1 | | | | | |
| 331 | 2.530 | 0.0 | 3645.1 | | | | | |
| 332 | 2.550 | 0.0 | 3645.1 | | | | | |
| 333 | 2.530 | 0.0 | 3645.1 | | | | | |
| 334 | 2.510 | 0.6 | 3645.7 | | | | | |
| 335 | 2.490 | 1.9 | 3647.6 | | | | | |
| 336 | 2.480 | 2.6 | 3650.2 | | | | | |
| 337 | 2.540 | 0.0 | 3650.2 | | | | | |
| 338 | 2.570 | 0.0 | 3650.2 | | | | | |
| 339 | 2.580 | 0.0 | 3650.2 | | | | | |
| 340 | 2.560 | 0.0 | 3650.2 | | | | | |
| 341 | 2.480 | 2.6 | 3652.9 | | | | | |
| 342 | 2.410 | 7.6 | 3660.5 | | | | | |
| 343 | 2.350 | 12.1 | 3672.5 | | | | | |
| 344 | 2.280 | 17.5 | 3690.1 | | | | | |
| 345 | 2.260 | 19.1 | 3709.2 | | | | | |
| 346 | 2.240 | 20.8 | 3729.9 | | | | | |
| 347 | 2.230 | 21.6 | 3751.5 | | | | | |
| 348 | 2.220 | 22.4 | 3773.5 | | | | | |
| 349 | 2.350 | 12.1 | 3786.0 | | | | | |
| 350 | 2.500 | 1.2 | 3787.2 | | | | | |
| 351 | 2.460 | 4.0 | 3791.3 | | | | | |
| 352 | 2.400 | 8.3 | 3799.6 | | | | | |
| 353 | 2.330 | 13.6 | 3813.2 | | | | | |
| 354 | 2.260 | 19.1 | 3832.3 | | | | | |
| 355 | 2.310 | 15.2 | 3847.5 | | | | | |
| 356 | 2.370 | 10.6 | 3858.1 | | | | | |
| 357 | 2.440 | 5.4 | 3863.5 | | | | | |
| 358 | 2.460 | 4.0 | 3867.5 | | | | | |
| 359 | 2.410 | 7.6 | 3875.2 | | | | | |
| 360 | 2.450 | 4.7 | 3879.9 | | | | | |
| 361 | 2.510 | 0.6 | 3880.4 | | | | | |
| 362 | 2.520 | 0.0 | 3880.4 | | | | | |
| 363 | 2.520 | 0.0 | 3880.4 | | | | | |
| 364 | 2.500 | 1.2 | 3881.7 | | | | | |
| 365 | 2.460 | 4.0 | 3885.7 | | | | | |
| 366 | 2.430 | 6.2 | 3891.5 | | | | | |
| 367 | 2.380 | 9.8 | 3901.7 | | | | | |
| 368 | 2.320 | 14.4 | 3916.1 | | | | | |
| 369 | 2.320 | 12.6 | 3929.7 | | | | | |

K E R O G E N A N A L Y S I S

F C R

THE CLEVELAND CLIFFS IRON COMPANY-WELL P-1

| DEPTH | DENSITY LOG | | | VELOCITY LOG | | | DENSITY AND VELOCITY | |
|-------|-------------|---------|--------------|--------------|---------|--------------|----------------------|--------------|
| | RHO-B | GAL/TON | ACCUM. YIELD | RHO-B | GAL/TON | ACCUM. YIELD | GAL/TON | ACCUM. YIELD |
| 370 | 2.470 | 3.3 | 3933.0 | | | | | |
| 371 | 2.480 | 2.6 | 3935.6 | | | | | |
| 372 | 2.450 | 4.7 | 3940.4 | | | | | |
| 373 | 2.400 | 8.3 | 3948.7 | | | | | |
| 374 | 2.360 | 11.3 | 3960.0 | | | | | |
| 375 | 2.290 | 16.7 | 3976.8 | | | | | |
| 376 | 2.270 | 18.3 | 3995.1 | | | | | |
| 377 | 2.190 | 24.9 | 4020.0 | | | | | |
| 378 | 2.070 | 35.6 | 4055.6 | | | | | |
| 379 | 2.190 | 24.9 | 4080.5 | | | | | |
| 380 | 2.360 | 11.3 | 4091.8 | | | | | |
| 381 | 2.420 | 6.9 | 4098.7 | | | | | |
| 382 | 2.430 | 6.2 | 4104.9 | | | | | |
| 383 | 2.440 | 5.4 | 4110.3 | | | | | |
| 384 | 2.410 | 7.6 | 4117.9 | | | | | |
| 385 | 2.410 | 7.6 | 4125.6 | | | | | |
| 386 | 2.390 | 9.1 | 4134.6 | | | | | |
| 387 | 2.340 | 12.8 | 4147.5 | | | | | |
| 388 | 2.310 | 15.2 | 4162.6 | | | | | |
| 389 | 2.370 | 10.6 | 4173.2 | | | | | |
| 390 | 2.460 | 4.0 | 4177.2 | | | | | |
| 391 | 2.480 | 2.6 | 4179.8 | | | | | |
| 392 | 2.500 | 1.2 | 4181.1 | | | | | |
| 393 | 2.510 | 0.6 | 4181.6 | | | | | |
| 394 | 2.500 | 1.2 | 4182.9 | | | | | |
| 395 | 2.490 | 1.9 | 4184.8 | | | | | |
| 396 | 2.510 | 0.6 | 4185.4 | | | | | |
| 397 | 2.490 | 1.9 | 4187.3 | | | | | |
| 398 | 2.460 | 4.0 | 4191.3 | | | | | |
| 399 | 2.440 | 5.4 | 4196.8 | | | | | |
| 400 | 2.490 | 1.9 | 4198.7 | | | | | |
| 401 | 2.500 | 1.2 | 4199.9 | | | | | |
| 402 | 2.500 | 1.2 | 4201.2 | | | | | |
| 403 | 2.470 | 3.3 | 4204.5 | | | | | |
| 404 | 2.430 | 6.2 | 4210.7 | | | | | |
| 405 | 2.370 | 10.6 | 4221.2 | | | | | |
| 406 | 2.330 | 13.6 | 4234.8 | | | | | |
| 407 | 2.330 | 13.6 | 4248.4 | | | | | |
| 408 | 2.290 | 16.7 | 4265.2 | | | | | |
| 409 | 2.230 | 21.6 | 4286.7 | | | | | |
| 410 | 2.090 | 33.7 | 4320.5 | | | | | |
| 411 | 1.980 | 44.3 | 4364.7 | | | | | |
| 412 | 1.950 | 47.3 | 4412.0 | | | | | |
| 413 | 2.010 | 41.3 | 4453.3 | | | | | |
| 414 | 2.210 | 23.2 | 4476.5 | | | | | |
| 415 | 2.320 | 14.4 | 4490.9 | | | | | |
| 416 | 2.290 | 16.7 | 4507.6 | | | | | |
| 417 | 2.210 | 23.2 | 4530.9 | | | | | |
| 418 | 2.150 | 28.4 | 4559.3 | | | | | |
| 419 | 2.090 | 28.7 | 4593.0 | | | | | |

K E R O G E N A N A L Y S I S

FOR

THE CLEVELAND CLIFFS IRON COMPANY-WELL P-1

| DEPTH | DENSITY LOG | | | VELOCITY LOG | | | DENSITY AND VELOCITY | |
|-------|-------------|---------|--------------|--------------|---------|--------------|----------------------|--------------|
| | RHO-B | GAL/TON | ACCUM. YIELD | RHO-B | GAL/TON | ACCUM. YIELD | GAL/TON | ACCUM. YIELD |
| 420 | 2.280 | 17.5 | 4610.5 | | | | | |
| 421 | 2.520 | 0.0 | 4610.5 | | | | | |
| 422 | 2.520 | 0.0 | 4610.5 | | | | | |
| 423 | 2.520 | 0.0 | 4610.5 | | | | | |
| 424 | 2.520 | 0.0 | 4610.5 | | | | | |
| 425 | 2.500 | 1.2 | 4611.7 | | | | | |
| 426 | 2.490 | 1.9 | 4613.7 | | | | | |
| 427 | 2.490 | 1.9 | 4615.6 | | | | | |
| 428 | 2.490 | 1.9 | 4617.5 | | | | | |
| 429 | 2.460 | 4.0 | 4621.6 | | | | | |
| 430 | 2.420 | 6.9 | 4628.4 | | | | | |
| 431 | 2.480 | 2.6 | 4631.1 | | | | | |
| 432 | 2.510 | 0.6 | 4631.6 | | | | | |
| 433 | 2.530 | 0.0 | 4631.6 | | | | | |
| 434 | 2.550 | 0.0 | 4631.6 | | | | | |
| 435 | 2.550 | 0.0 | 4631.6 | | | | | |
| 436 | 2.550 | 0.0 | 4631.6 | | | | | |
| 437 | 2.560 | 0.0 | 4631.6 | | | | | |
| 438 | 2.560 | 0.0 | 4631.6 | | | | | |
| 439 | 2.570 | 0.0 | 4631.6 | | | | | |
| 440 | 2.560 | 0.0 | 4631.6 | | | | | |
| 441 | 2.550 | 0.0 | 4631.6 | | | | | |
| 442 | 2.530 | 0.0 | 4631.6 | | | | | |
| 443 | 2.510 | 0.6 | 4632.2 | | | | | |
| 444 | 2.490 | 1.9 | 4634.1 | | | | | |
| 445 | 2.470 | 3.3 | 4637.4 | | | | | |
| 446 | 2.470 | 3.3 | 4640.8 | | | | | |
| 447 | 2.510 | 0.6 | 4641.3 | | | | | |
| 448 | 2.540 | 0.0 | 4641.3 | | | | | |
| 449 | 2.550 | 0.0 | 4641.3 | | | | | |
| 450 | 2.560 | 0.0 | 4641.3 | | | | | |
| 451 | 2.560 | 0.0 | 4641.3 | | | | | |
| 452 | 2.570 | 0.0 | 4641.3 | | | | | |
| 453 | 2.560 | 0.0 | 4641.3 | | | | | |
| 454 | 2.560 | 0.0 | 4641.3 | | | | | |
| 455 | 2.560 | 0.0 | 4641.3 | | | | | |
| 456 | 2.550 | 0.0 | 4641.3 | | | | | |
| 457 | 2.550 | 0.0 | 4641.3 | | | | | |
| 458 | 2.550 | 0.0 | 4641.3 | | | | | |
| 459 | 2.550 | 0.0 | 4641.3 | | | | | |
| 460 | 2.530 | 0.0 | 4641.3 | | | | | |
| 461 | 2.520 | 0.0 | 4641.3 | | | | | |
| 462 | 2.520 | 0.0 | 4641.3 | | | | | |
| 463 | 2.500 | 1.2 | 4642.6 | | | | | |
| 464 | 2.460 | 4.0 | 4646.6 | | | | | |
| 465 | 2.420 | 6.9 | 4653.5 | | | | | |
| 466 | 2.480 | 2.6 | 4656.1 | | | | | |
| 467 | 2.530 | 0.0 | 4656.1 | | | | | |
| 468 | 2.530 | 0.0 | 4656.1 | | | | | |
| 469 | 2.520 | 0.0 | 4656.1 | | | | | |

K E R O G E N A N A L Y S I S

F O R

T H E C L E V E L A N D C L I F F S I R O N C O M P A N Y - W E L L P - 1

| DEPTH | DENSITY LOG | | | VELOCITY LOG | | | DENSITY AND VELOCITY | |
|-------|-------------|---------|--------------|--------------|---------|--------------|----------------------|--------------|
| | RHO-B | GAL/TON | ACCUM. YIELD | RHO-B | GAL/TON | ACCUM. YIELD | GAL/TON | ACCUM. YIELD |
| 470 | 2.490 | 1.9 | 4658.0 | | | | | |
| 471 | 2.450 | 4.7 | 4662.8 | | | | | |
| 472 | 2.450 | 4.7 | 4667.5 | | | | | |
| 473 | 2.550 | 0.0 | 4667.5 | | | | | |
| 474 | 2.550 | 0.0 | 4667.5 | | | | | |
| 475 | 2.550 | 0.0 | 4667.5 | | | | | |
| 476 | 2.550 | 0.0 | 4667.5 | | | | | |
| 477 | 2.530 | 0.0 | 4667.5 | | | | | |
| 478 | 2.530 | 0.0 | 4667.5 | | | | | |
| 479 | 2.530 | 0.0 | 4667.5 | | | | | |
| 480 | 2.550 | 0.0 | 4667.5 | | | | | |
| 481 | 2.570 | 0.0 | 4667.5 | | | | | |
| 482 | 2.560 | 0.0 | 4667.5 | | | | | |
| 483 | 2.550 | 0.0 | 4667.5 | | | | | |
| 484 | 2.550 | 0.0 | 4667.5 | | | | | |
| 485 | 2.530 | 0.0 | 4667.5 | | | | | |
| 486 | 2.510 | 0.6 | 4668.1 | | | | | |
| 487 | 2.490 | 1.9 | 4670.0 | | | | | |
| 488 | 2.480 | 2.6 | 4672.6 | | | | | |
| 489 | 2.450 | 4.7 | 4677.3 | | | | | |
| 490 | 2.520 | 0.0 | 4677.3 | | | | | |
| 491 | 2.530 | 0.0 | 4677.3 | | | | | |
| 492 | 2.530 | 0.0 | 4677.3 | | | | | |
| 493 | 2.510 | 0.6 | 4677.5 | | | | | |
| 494 | 2.510 | 0.6 | 4678.4 | | | | | |
| 495 | 2.510 | 0.6 | 4679.0 | | | | | |

REPORT ON ANALYSIS FOR

THE CLEVELAND CLIFFS IRON COMPANY-DELL P-1

| DEPTH | DENSITY LOG | | | VELOCITY LOG | | | DENSITY AND VELOCITY | |
|-------|-------------|---------|--------------|--------------|---------|--------------|----------------------|--------------|
| | RH-8 | GAL/TON | ACCUM. YIELD | A-C-3 | GAL/TON | ACCUM. YIELD | GAL/TON | ACCUM. YIELD |
| 500 | 2.500 | 1.2 | 1.2 | 71.8 | 5.2 | 5.2 | 3.2 | 3.2 |
| 501 | 2.510 | 0.6 | 1.8 | 72.7 | 6.0 | 11.2 | 3.3 | 4.5 |
| 502 | 2.500 | 1.2 | 3.0 | 75.0 | 8.9 | 20.1 | 5.1 | 11.6 |
| 503 | 2.430 | 6.2 | 9.2 | 75.0 | 11.7 | 31.8 | 8.9 | 20.5 |
| 504 | 2.360 | 11.3 | 20.5 | 79.0 | 11.7 | 43.4 | 11.5 | 32.0 |
| 505 | 2.455 | 4.4 | 24.9 | 77.3 | 10.1 | 53.5 | 7.2 | 39.2 |
| 506 | 2.515 | 0.2 | 25.1 | 75.0 | 8.9 | 62.4 | 4.6 | 43.8 |
| 507 | 2.515 | 0.2 | 25.3 | 74.4 | 7.5 | 69.9 | 3.8 | 47.6 |
| 508 | 2.520 | 0.0 | 25.3 | 71.4 | 4.9 | 74.8 | 2.4 | 50.1 |
| 509 | 2.505 | 0.9 | 26.2 | 63.9 | 2.7 | 77.5 | 1.8 | 51.9 |
| 510 | 2.480 | 2.6 | 28.9 | 71.4 | 4.9 | 82.4 | 3.0 | 55.6 |
| 511 | 2.460 | 4.0 | 32.9 | 72.7 | 6.0 | 88.4 | 5.0 | 60.6 |
| 512 | 2.435 | 3.8 | 36.7 | 74.8 | 7.3 | 95.2 | 6.8 | 67.5 |
| 513 | 2.470 | 3.3 | 42.0 | 75.5 | 9.4 | 105.6 | 6.3 | 73.8 |
| 514 | 2.480 | 2.6 | 44.7 | 77.7 | 10.5 | 116.0 | 6.5 | 80.3 |
| 515 | 2.440 | 5.4 | 50.1 | 75.4 | 12.0 | 128.1 | 8.7 | 89.1 |
| 516 | 2.395 | 8.7 | 58.8 | 80.3 | 12.9 | 140.9 | 10.8 | 99.9 |
| 517 | 2.365 | 10.9 | 69.8 | 79.2 | 10.9 | 151.9 | 10.9 | 110.8 |
| 518 | 2.425 | 5.8 | 75.6 | 75.2 | 8.2 | 160.1 | 7.0 | 117.8 |
| 519 | 2.470 | 2.3 | 78.9 | 73.1 | 5.3 | 166.4 | 4.8 | 122.6 |
| 520 | 2.500 | 1.2 | 80.1 | 70.5 | 4.1 | 170.5 | 2.7 | 125.3 |
| 521 | 2.500 | 1.2 | 81.4 | 68.4 | 2.3 | 172.3 | 1.8 | 127.1 |
| 522 | 2.495 | 1.6 | 83.0 | 70.1 | 3.8 | 176.6 | 2.7 | 129.8 |
| 523 | 2.450 | 4.7 | 87.7 | 72.7 | 6.0 | 182.6 | 5.4 | 135.1 |
| 524 | 2.445 | 5.1 | 92.8 | 75.6 | 8.6 | 191.1 | 6.8 | 142.0 |
| 525 | 2.440 | 5.4 | 98.3 | 75.5 | 9.4 | 200.5 | 7.4 | 149.4 |
| 526 | 2.435 | 5.8 | 104.1 | 75.5 | 9.4 | 209.8 | 7.6 | 156.9 |
| 527 | 2.435 | 5.8 | 109.9 | 75.5 | 9.4 | 219.2 | 7.6 | 164.5 |
| 528 | 2.445 | 5.1 | 115.0 | 74.8 | 7.8 | 227.0 | 6.5 | 171.0 |
| 529 | 2.460 | 4.0 | 119.0 | 72.7 | 6.0 | 233.0 | 5.0 | 176.0 |
| 530 | 2.475 | 3.0 | 122.0 | 70.1 | 3.8 | 236.3 | 3.4 | 179.4 |
| 531 | 2.475 | 3.0 | 124.9 | 68.4 | 2.3 | 239.1 | 2.7 | 182.0 |
| 532 | 2.470 | 3.3 | 128.3 | 68.4 | 2.3 | 241.4 | 2.8 | 184.9 |
| 533 | 2.470 | 3.3 | 131.6 | 68.4 | 2.3 | 243.8 | 2.8 | 187.7 |
| 534 | 2.460 | 4.0 | 135.6 | 68.9 | 2.7 | 246.5 | 3.4 | 191.1 |
| 535 | 2.460 | 4.0 | 139.6 | 71.4 | 4.9 | 251.4 | 4.4 | 195.5 |
| 536 | 2.470 | 3.3 | 142.9 | 72.7 | 6.0 | 257.4 | 4.7 | 200.2 |
| 537 | 2.465 | 3.7 | 146.6 | 72.7 | 7.5 | 264.9 | 5.6 | 205.8 |
| 538 | 2.465 | 3.7 | 150.3 | 72.7 | 7.5 | 272.4 | 7.1 | 212.9 |
| 539 | 2.465 | 3.7 | 154.0 | 72.7 | 7.5 | 279.9 | 7.8 | 220.7 |
| 540 | 2.465 | 3.7 | 157.7 | 72.7 | 7.5 | 287.4 | 7.8 | 228.5 |
| 541 | 2.465 | 3.7 | 161.4 | 72.7 | 7.5 | 294.9 | 7.8 | 236.3 |
| 542 | 2.465 | 3.7 | 165.1 | 72.7 | 7.5 | 302.4 | 7.8 | 244.1 |
| 543 | 2.465 | 3.7 | 168.8 | 72.7 | 7.5 | 309.9 | 7.8 | 251.9 |
| 544 | 2.465 | 3.7 | 172.5 | 72.7 | 7.5 | 317.4 | 7.8 | 259.7 |
| 545 | 2.465 | 3.7 | 176.2 | 72.7 | 7.5 | 324.9 | 7.8 | 267.5 |
| 546 | 2.465 | 3.7 | 179.9 | 72.7 | 7.5 | 332.4 | 7.8 | 275.3 |
| 547 | 2.465 | 3.7 | 183.6 | 72.7 | 7.5 | 339.9 | 7.8 | 283.1 |
| 548 | 2.465 | 3.7 | 187.3 | 72.7 | 7.5 | 347.4 | 7.8 | 290.9 |
| 549 | 2.465 | 3.7 | 191.0 | 72.7 | 7.5 | 354.9 | 7.8 | 298.7 |
| 550 | 2.465 | 3.7 | 194.7 | 72.7 | 7.5 | 362.4 | 7.8 | 306.5 |

W E R D G E N A N A L Y S I S

FOR

THE CLEVELAND CLIFFS IRON COMPANY-Well P-1

| DEPTH | DENSITY LOG | | | VELOCITY LOG | | | DENSITY AND VELOCITY | |
|-------|-------------|---------|--------------|--------------|---------|--------------|----------------------|--------------|
| | RHO-B | GAL/TON | ACCUM. YIELD | RHO-B | GAL/TON | ACCUM. YIELD | GAL/TON | ACCUM. YIELD |
| 550 | 2.325 | 14.0 | 257.6 | 92.5 | 25.1 | 455.1 | 19.5 | 355.3 |
| 551 | 2.335 | 13.2 | 270.8 | 93.0 | 25.6 | 480.7 | 19.4 | 375.8 |
| 552 | 2.342 | 12.2 | 283.6 | 93.0 | 25.6 | 506.3 | 19.2 | 395.0 |
| 553 | 2.375 | 10.2 | 293.3 | 90.8 | 23.3 | 529.6 | 18.7 | 413.7 |
| 554 | 2.440 | 5.4 | 299.3 | 88.3 | 20.7 | 550.3 | 13.1 | 424.8 |
| 555 | 2.465 | 3.7 | 302.0 | 84.5 | 16.9 | 567.2 | 10.3 | 429.1 |
| 556 | 2.475 | 3.0 | 305.9 | 80.7 | 13.3 | 580.5 | 8.1 | 443.2 |
| 557 | 2.465 | 3.7 | 309.6 | 77.7 | 10.5 | 590.9 | 7.1 | 450.3 |
| 558 | 2.450 | 4.7 | 314.3 | 75.2 | 8.2 | 599.1 | 6.5 | 456.7 |
| 559 | 2.460 | 4.0 | 318.4 | 72.7 | 6.0 | 605.1 | 5.0 | 461.7 |
| 560 | 2.485 | 2.3 | 320.6 | 72.2 | 5.6 | 610.7 | 3.9 | 465.7 |
| 561 | 2.475 | 3.0 | 323.6 | 73.1 | 6.3 | 617.0 | 4.7 | 470.0 |
| 562 | 2.445 | 5.1 | 323.7 | 76.0 | 8.9 | 625.9 | 7.0 | 477.3 |
| 563 | 2.410 | 7.6 | 336.3 | 79.0 | 11.7 | 637.6 | 9.6 | 487.0 |
| 564 | 2.380 | 9.8 | 346.2 | 79.4 | 12.0 | 649.6 | 10.9 | 497.9 |
| 565 | 2.400 | 1.9 | 348.1 | 79.8 | 12.4 | 662.0 | 7.2 | 505.1 |
| 566 | 2.505 | 0.9 | 349.0 | 77.3 | 10.1 | 672.1 | 5.5 | 510.6 |
| 567 | 2.505 | 0.9 | 349.0 | 74.8 | 7.8 | 680.0 | 4.4 | 515.0 |
| 568 | 2.505 | 0.9 | 350.8 | 73.1 | 6.3 | 686.3 | 3.6 | 518.5 |
| 569 | 2.495 | 1.6 | 352.4 | 73.1 | 6.3 | 692.6 | 4.0 | 522.5 |
| 570 | 2.490 | 1.9 | 354.3 | 72.2 | 5.6 | 698.2 | 3.7 | 526.2 |
| 571 | 2.505 | 0.9 | 355.2 | 73.1 | 6.3 | 704.5 | 3.6 | 529.9 |
| 572 | 2.505 | 0.9 | 356.1 | 75.2 | 8.2 | 712.7 | 4.5 | 534.4 |
| 573 | 2.500 | 1.2 | 357.4 | 75.2 | 8.2 | 720.9 | 4.7 | 539.1 |
| 574 | 2.475 | 3.0 | 360.3 | 73.1 | 6.3 | 727.2 | 4.7 | 543.8 |
| 575 | 2.475 | 3.0 | 363.3 | 76.5 | 9.4 | 736.6 | 6.2 | 549.9 |
| 576 | 2.465 | 3.7 | 367.0 | 77.7 | 10.5 | 747.1 | 7.1 | 557.0 |
| 577 | 2.415 | 7.3 | 374.2 | 77.7 | 10.5 | 757.5 | 8.9 | 565.9 |
| 578 | 2.475 | 3.0 | 377.2 | 76.5 | 9.4 | 766.9 | 6.2 | 572.0 |
| 579 | 2.405 | 1.6 | 378.8 | 77.7 | 10.5 | 777.3 | 6.0 | 577.1 |
| 580 | 2.490 | 1.9 | 380.7 | 80.3 | 12.9 | 790.2 | 7.4 | 585.5 |
| 581 | 2.490 | 1.9 | 382.7 | 77.7 | 10.5 | 800.7 | 6.2 | 591.7 |
| 582 | 2.485 | 2.3 | 384.9 | 74.4 | 7.5 | 809.2 | 4.9 | 596.6 |
| 583 | 2.465 | 2.7 | 388.6 | 76.5 | 9.4 | 817.5 | 6.5 | 603.1 |
| 584 | 2.455 | 3.5 | 395.1 | 78.6 | 11.3 | 828.8 | 8.9 | 612.0 |
| 585 | 2.455 | 3.5 | 404.6 | 76.9 | 9.7 | 836.5 | 9.6 | 621.6 |
| 586 | 2.455 | 4.7 | 409.3 | 74.3 | 9.7 | 845.3 | 7.2 | 628.8 |
| 587 | 2.455 | 2.3 | 411.6 | 73.7 | 10.5 | 854.7 | 6.4 | 635.2 |
| 588 | 2.455 | 3.5 | 413.2 | 76.9 | 9.7 | 863.4 | 6.2 | 641.4 |
| 589 | 2.455 | 3.5 | 416.7 | 74.4 | 7.5 | 875.9 | 6.0 | 647.4 |
| 590 | 2.455 | 3.5 | 420.1 | 77.7 | 10.5 | 886.4 | 10.0 | 657.4 |
| 591 | 2.455 | 3.5 | 422.7 | 76.3 | 12.4 | 895.1 | 10.0 | 667.4 |
| 592 | 2.455 | 3.5 | 425.7 | 78.2 | 10.4 | 901.7 | 10.0 | 677.4 |
| 593 | 2.455 | 3.5 | 427.7 | 76.6 | 10.3 | 901.2 | 10.0 | 687.4 |
| 594 | 2.455 | 3.5 | 427.7 | 77.7 | 10.5 | 901.2 | 10.0 | 697.4 |
| 595 | 2.455 | 3.5 | 427.7 | 77.7 | 10.5 | 901.2 | 10.0 | 707.4 |
| 596 | 2.455 | 3.5 | 427.7 | 77.7 | 10.5 | 901.2 | 10.0 | 717.4 |
| 597 | 2.455 | 3.5 | 427.7 | 77.7 | 10.5 | 901.2 | 10.0 | 727.4 |
| 598 | 2.455 | 3.5 | 427.7 | 77.7 | 10.5 | 901.2 | 10.0 | 737.4 |
| 599 | 2.455 | 3.5 | 427.7 | 77.7 | 10.5 | 901.2 | 10.0 | 747.4 |
| 600 | 2.455 | 3.5 | 427.7 | 77.7 | 10.5 | 901.2 | 10.0 | 757.4 |

REPORT OF ANALYSIS

FLU

THE CLEVELAND CLIFFS IRON COMPANY- CIL P-1

| DEPTH | DENSITY LOG | | | VELOCITY LOG | | | DENSITY AND VELOCITY | |
|-------|-------------|---------|--------------|--------------|---------|--------------|----------------------|--------------|
| | RHO-B | GAL/TON | ACCUM. YIELD | RHO-B | GAL/TON | ACCUM. YIELD | GAL/TON | ACCUM. YIELD |
| 600 | 2.515 | 0.2 | 532.7 | 73.5 | 11.3 | 1023.1 | 5.8 | 777.9 |
| 601 | 2.540 | 0.0 | 532.7 | 73.9 | 7.0 | 1030.2 | 3.5 | 781.4 |
| 602 | 2.520 | 0.0 | 532.7 | 60.4 | 2.3 | 1032.5 | 1.2 | 783.6 |
| 603 | 2.520 | 0.0 | 532.7 | 64.5 | 0.0 | 1032.5 | 0.0 | 783.6 |
| 604 | 2.495 | 1.6 | 534.3 | 65.9 | 0.3 | 1032.8 | 0.9 | 783.5 |
| 605 | 2.455 | 4.4 | 538.6 | 67.6 | 1.7 | 1034.5 | 2.0 | 783.5 |
| 606 | 2.435 | 5.8 | 544.5 | 68.0 | 2.0 | 1036.5 | 3.9 | 783.5 |
| 607 | 2.435 | 5.8 | 550.3 | 68.0 | 2.0 | 1038.5 | 3.9 | 783.4 |
| 608 | 2.445 | 5.1 | 555.3 | 69.7 | 3.4 | 1041.9 | 4.3 | 783.6 |
| 609 | 2.435 | 5.8 | 561.2 | 71.4 | 4.9 | 1046.7 | 5.3 | 803.9 |
| 610 | 2.380 | 9.3 | 571.0 | 72.2 | 5.6 | 1052.3 | 7.7 | 811.6 |
| 611 | 2.295 | 16.3 | 587.3 | 74.8 | 7.8 | 1060.1 | 12.4 | 823.7 |
| 612 | 2.335 | 13.2 | 600.5 | 76.0 | 11.7 | 1071.8 | 12.4 | 823.2 |
| 613 | 2.465 | 3.7 | 604.2 | 80.7 | 13.3 | 1085.0 | 13.5 | 823.6 |
| 614 | 2.495 | 1.6 | 605.3 | 77.7 | 10.5 | 1095.5 | 6.0 | 823.6 |
| 615 | 2.485 | 2.3 | 608.1 | 73.5 | 6.7 | 1102.2 | 4.5 | 823.1 |
| 616 | 2.455 | 4.4 | 612.5 | 70.5 | 4.1 | 1106.3 | 4.2 | 823.4 |
| 617 | 2.435 | 5.8 | 618.3 | 73.5 | 6.7 | 1113.0 | 6.2 | 823.6 |
| 618 | 2.390 | 9.1 | 627.3 | 72.7 | 6.0 | 1119.0 | 7.5 | 873.1 |
| 619 | 2.410 | 7.6 | 635.0 | 73.5 | 6.7 | 1125.6 | 7.2 | 873.3 |
| 620 | 2.460 | 4.0 | 639.0 | 72.2 | 5.6 | 1131.2 | 4.8 | 873.1 |
| 621 | 2.460 | 4.0 | 643.0 | 71.0 | 4.5 | 1135.7 | 4.3 | 873.4 |
| 622 | 2.445 | 5.1 | 648.1 | 68.9 | 2.7 | 1138.5 | 3.9 | 873.3 |
| 623 | 2.435 | 5.8 | 653.5 | 69.3 | 3.1 | 1141.6 | 4.4 | 873.7 |
| 624 | 2.405 | 8.0 | 661.5 | 69.7 | 3.4 | 1145.0 | 5.7 | 903.4 |
| 625 | 2.385 | 9.5 | 671.3 | 69.3 | 3.1 | 1148.1 | 6.3 | 903.7 |
| 626 | 2.425 | 6.5 | 677.9 | 68.9 | 2.7 | 1150.3 | 4.6 | 913.3 |
| 627 | 2.480 | 2.6 | 680.5 | 66.3 | 0.6 | 1151.4 | 1.6 | 913.0 |
| 628 | 2.490 | 1.9 | 682.4 | 64.6 | 0.0 | 1151.4 | 1.0 | 913.9 |
| 629 | 2.470 | 3.3 | 685.8 | 64.2 | 0.0 | 1151.4 | 1.7 | 913.6 |
| 630 | 2.465 | 3.7 | 689.4 | 66.3 | 0.6 | 1152.0 | 2.1 | 923.7 |
| 631 | 2.460 | 4.0 | 693.5 | 67.6 | 1.7 | 1153.7 | 2.9 | 923.6 |
| 632 | 2.430 | 6.2 | 699.6 | 68.0 | 2.0 | 1155.7 | 4.1 | 923.7 |
| 633 | 2.430 | 6.2 | 705.8 | 66.3 | 0.6 | 1156.3 | 3.4 | 923.0 |
| 634 | 2.470 | 2.3 | 709.1 | 64.2 | 0.0 | 1156.3 | 1.7 | 923.7 |
| 635 | 2.495 | 2.3 | 711.4 | 62.9 | 0.0 | 1156.3 | 1.1 | 923.6 |
| 636 | 2.490 | 1.9 | 711.3 | 62.4 | 0.0 | 1156.3 | 1.0 | 923.6 |
| 637 | 2.500 | 1.9 | 712.4 | 64.6 | 0.0 | 1156.3 | 0.6 | 923.4 |
| 638 | 2.500 | 1.9 | 713.4 | 64.5 | 0.0 | 1156.3 | 0.6 | 923.1 |
| 639 | 2.500 | 1.9 | 717.1 | 62.8 | 0.0 | 1156.3 | 0.6 | 923.3 |
| 640 | 2.500 | 1.2 | 719.3 | 62.2 | 0.0 | 1156.3 | 0.6 | 923.3 |
| 641 | 2.425 | 1.5 | 719.3 | 64.0 | 0.0 | 1156.3 | 0.6 | 923.3 |
| 642 | 2.425 | 0.3 | 719.3 | 62.5 | 0.0 | 1156.3 | 0.6 | 923.3 |
| 643 | 2.470 | 0.3 | 719.3 | 61.7 | 0.0 | 1156.3 | 0.6 | 923.3 |
| 644 | 2.470 | 0.3 | 719.3 | 61.5 | 0.0 | 1156.3 | 0.6 | 923.3 |
| 645 | 2.470 | 0.3 | 719.3 | 61.5 | 0.0 | 1156.3 | 0.6 | 923.3 |
| 646 | 2.470 | 0.3 | 719.3 | 61.5 | 0.0 | 1156.3 | 0.6 | 923.3 |
| 647 | 2.470 | 0.3 | 719.3 | 61.5 | 0.0 | 1156.3 | 0.6 | 923.3 |
| 648 | 2.470 | 0.3 | 719.3 | 61.5 | 0.0 | 1156.3 | 0.6 | 923.3 |
| 649 | 2.470 | 0.3 | 719.3 | 61.5 | 0.0 | 1156.3 | 0.6 | 923.3 |
| 650 | 2.470 | 0.3 | 719.3 | 61.5 | 0.0 | 1156.3 | 0.6 | 923.3 |

APPENDIX A - ANALYSIS

REF

THE CLEVELAND CLIFFS IRON COMPANY - CIL P-1

| DEPTH | DENSITY LOG | | | VELOCITY LOG | | | DENSITY AND VELOCITY | |
|-------|-------------|---------|--------------|--------------|---------|--------------|----------------------|--------------|
| | REF-B | GAL/TON | ACCUM. YIELD | REF-B | GAL/TON | ACCUM. YIELD | GAL/TON | ACCUM. YIELD |
| 650 | 2.470 | 3.3 | 742.2 | 65.5 | 0.0 | 1158.9 | 1.7 | 952.5 |
| 651 | 2.490 | 1.9 | 744.1 | 65.5 | 0.0 | 1158.9 | 1.0 | 951.5 |
| 652 | 2.505 | 0.9 | 745.0 | 65.5 | 0.0 | 1158.9 | 0.5 | 951.9 |
| 653 | 2.505 | 0.9 | 745.9 | 65.5 | 0.0 | 1158.9 | 0.5 | 952.4 |
| 654 | 2.500 | 1.2 | 747.1 | 64.6 | 0.0 | 1158.9 | 0.6 | 953.0 |
| 655 | 2.475 | 2.0 | 750.1 | 64.2 | 0.0 | 1158.9 | 1.5 | 954.5 |
| 656 | 2.450 | 4.7 | 754.8 | 64.6 | 0.0 | 1158.9 | 2.4 | 955.9 |
| 657 | 2.475 | 3.0 | 757.8 | 66.7 | 0.9 | 1159.8 | 2.0 | 956.8 |
| 658 | 2.475 | 3.0 | 760.8 | 67.6 | 1.7 | 1161.5 | 2.3 | 961.1 |
| 659 | 2.475 | 3.0 | 763.8 | 66.7 | 0.9 | 1162.4 | 2.0 | 962.1 |
| 660 | 2.475 | 3.0 | 766.7 | 66.3 | 0.6 | 1163.0 | 1.8 | 964.9 |
| 661 | 2.460 | 4.0 | 770.8 | 66.3 | 0.6 | 1163.7 | 2.2 | 967.2 |
| 662 | 2.390 | 9.1 | 779.9 | 66.0 | 0.0 | 1163.7 | 4.5 | 971.8 |
| 663 | 2.395 | 8.7 | 788.6 | 63.4 | 0.0 | 1163.7 | 4.4 | 972.1 |
| 664 | 2.430 | 6.2 | 794.7 | 62.5 | 0.0 | 1163.7 | 3.1 | 972.2 |
| 665 | 2.435 | 5.8 | 800.5 | 62.5 | 0.0 | 1163.7 | 2.9 | 982.1 |
| 666 | 2.435 | 5.8 | 806.4 | 63.4 | 0.0 | 1163.7 | 2.9 | 983.0 |
| 667 | 2.430 | 6.2 | 812.5 | 66.7 | 0.9 | 1164.6 | 3.6 | 986.6 |
| 668 | 2.415 | 7.3 | 819.8 | 69.3 | 3.1 | 1167.7 | 5.2 | 992.7 |
| 669 | 2.415 | 7.3 | 827.0 | 71.0 | 4.5 | 1172.2 | 5.9 | 999.6 |
| 670 | 2.430 | 6.2 | 832.2 | 72.7 | 6.0 | 1178.2 | 6.1 | 1005.7 |
| 671 | 2.455 | 4.4 | 837.6 | 73.1 | 6.3 | 1184.5 | 5.4 | 1011.0 |
| 672 | 2.490 | 1.9 | 839.5 | 70.1 | 3.8 | 1183.3 | 2.8 | 1013.9 |
| 673 | 2.495 | 1.6 | 841.1 | 66.3 | 0.6 | 1183.9 | 1.1 | 1015.0 |
| 674 | 2.505 | 0.9 | 842.0 | 63.4 | 0.0 | 1183.9 | 0.5 | 1016.4 |
| 675 | 2.500 | 1.2 | 843.2 | 62.5 | 0.0 | 1183.9 | 0.6 | 1016.1 |
| 676 | 2.495 | 1.6 | 844.8 | 65.0 | 0.0 | 1183.9 | 0.8 | 1016.8 |
| 677 | 2.480 | 2.6 | 847.4 | 65.5 | 0.0 | 1183.9 | 1.3 | 1016.2 |
| 678 | 2.490 | 1.5 | 849.4 | 64.6 | 0.0 | 1183.9 | 1.0 | 1016.1 |
| 679 | 2.500 | 1.2 | 850.6 | 66.7 | 0.9 | 1189.8 | 1.1 | 1020.2 |
| 680 | 2.495 | 1.6 | 852.2 | 66.7 | 0.9 | 1190.8 | 1.3 | 1021.5 |
| 681 | 2.470 | 3.3 | 855.5 | 65.9 | 0.3 | 1191.1 | 1.8 | 1022.3 |
| 682 | 2.440 | 5.4 | 861.0 | 65.0 | 0.0 | 1191.1 | 2.7 | 1026.0 |
| 683 | 2.425 | 6.5 | 867.5 | 65.9 | 0.3 | 1191.4 | 3.4 | 1029.4 |
| 684 | 2.420 | 6.2 | 873.7 | 67.6 | 1.7 | 1193.0 | 3.9 | 1032.3 |
| 685 | 2.410 | 7.6 | 881.3 | 70.1 | 3.8 | 1193.3 | 5.7 | 1032.3 |
| 686 | 2.370 | 12.6 | 881.3 | 70.1 | 3.8 | 1193.3 | 5.7 | 1032.3 |
| 687 | 2.315 | 24.0 | 881.3 | 70.1 | 3.8 | 1193.3 | 5.7 | 1032.3 |
| 688 | 2.310 | 24.0 | 881.3 | 70.1 | 3.8 | 1193.3 | 5.7 | 1032.3 |
| 689 | 2.310 | 24.0 | 881.3 | 70.1 | 3.8 | 1193.3 | 5.7 | 1032.3 |
| 690 | 2.310 | 24.0 | 881.3 | 70.1 | 3.8 | 1193.3 | 5.7 | 1032.3 |
| 691 | 2.310 | 24.0 | 881.3 | 70.1 | 3.8 | 1193.3 | 5.7 | 1032.3 |
| 692 | 2.310 | 24.0 | 881.3 | 70.1 | 3.8 | 1193.3 | 5.7 | 1032.3 |
| 693 | 2.310 | 24.0 | 881.3 | 70.1 | 3.8 | 1193.3 | 5.7 | 1032.3 |
| 694 | 2.310 | 24.0 | 881.3 | 70.1 | 3.8 | 1193.3 | 5.7 | 1032.3 |
| 695 | 2.310 | 24.0 | 881.3 | 70.1 | 3.8 | 1193.3 | 5.7 | 1032.3 |
| 696 | 2.310 | 24.0 | 881.3 | 70.1 | 3.8 | 1193.3 | 5.7 | 1032.3 |
| 697 | 2.310 | 24.0 | 881.3 | 70.1 | 3.8 | 1193.3 | 5.7 | 1032.3 |
| 698 | 2.310 | 24.0 | 881.3 | 70.1 | 3.8 | 1193.3 | 5.7 | 1032.3 |
| 699 | 2.310 | 24.0 | 881.3 | 70.1 | 3.8 | 1193.3 | 5.7 | 1032.3 |
| 700 | 2.310 | 24.0 | 881.3 | 70.1 | 3.8 | 1193.3 | 5.7 | 1032.3 |

REPORT ON ANALYSIS

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THE CLEVELAND CLIFFS IRON COMPANY - ALL 7-1

| DEPTH | DENSITY LOG | | | VELOCITY LOG | | | DENSITY AND VEL. CITY | |
|-------|-------------|---------|--------------|--------------|---------|--------------|-----------------------|--------------|
| | RHO-R | GAL/TON | ACCUM. YIELD | RHO-R | GAL/TON | ACCUM. YIELD | GAL/TON | ACCUM. YIELD |
| 700 | 2.330 | 13.6 | 1061.2 | 12.3 | 12.9 | 1373.5 | 13.2 | 1217.3 |
| 701 | 2.390 | 9.1 | 1070.2 | 11.3 | 11.3 | 1384.3 | 10.2 | 1227.5 |
| 702 | 2.465 | 3.7 | 1073.9 | 8.2 | 8.2 | 1393.0 | 5.9 | 1233.4 |
| 703 | 2.455 | 4.4 | 1078.3 | 6.3 | 3.1 | 1396.1 | 3.7 | 1237.2 |
| 704 | 2.450 | 4.7 | 1083.0 | 62.5 | 0.0 | 1396.1 | 2.4 | 1239.5 |
| 705 | 2.430 | 6.2 | 1085.2 | 63.3 | 0.0 | 1396.1 | 3.1 | 1242.6 |
| 706 | 2.425 | 6.5 | 1095.7 | 63.3 | 0.6 | 1396.7 | 3.6 | 1246.2 |
| 707 | 2.420 | 6.9 | 1102.6 | 67.6 | 1.7 | 1398.4 | 4.3 | 1250.5 |
| 708 | 2.530 | 0.0 | 1102.6 | 66.3 | 0.6 | 1399.0 | 0.3 | 1250.8 |
| 709 | 2.530 | 0.0 | 1102.6 | 65.0 | 0.0 | 1399.0 | 0.0 | 1250.8 |
| 710 | 2.495 | 1.6 | 1104.2 | 63.3 | 0.0 | 1399.0 | 0.8 | 1251.6 |
| 711 | 2.475 | 3.0 | 1107.2 | 65.5 | 0.0 | 1399.0 | 1.5 | 1253.1 |
| 712 | 2.445 | 5.1 | 1112.3 | 69.7 | 3.4 | 1402.4 | 4.3 | 1257.3 |
| 713 | 2.405 | 8.0 | 1120.2 | 75.6 | 3.6 | 1411.0 | 3.3 | 1265.6 |
| 714 | 2.365 | 11.7 | 1131.9 | 80.7 | 13.3 | 1424.2 | 12.5 | 1278.1 |
| 715 | 2.310 | 15.2 | 1147.1 | 83.7 | 15.1 | 1440.3 | 15.6 | 1293.7 |
| 716 | 2.250 | 19.9 | 1167.0 | 84.2 | 18.6 | 1458.9 | 19.3 | 1313.0 |
| 717 | 2.280 | 17.5 | 1184.5 | 87.0 | 19.4 | 1473.4 | 18.5 | 1331.4 |
| 718 | 2.325 | 14.0 | 1198.5 | 84.5 | 16.9 | 1495.3 | 15.5 | 1346.9 |
| 719 | 2.330 | 13.6 | 1212.1 | 79.4 | 12.0 | 1507.3 | 12.8 | 1359.7 |
| 720 | 2.225 | 17.1 | 1229.3 | 76.9 | 9.7 | 1517.0 | 13.4 | 1373.1 |
| 721 | 2.230 | 21.6 | 1250.8 | 82.3 | 15.3 | 1532.3 | 13.4 | 1391.6 |
| 722 | 2.180 | 25.3 | 1276.6 | 87.0 | 19.4 | 1551.7 | 22.6 | 1414.1 |
| 723 | 2.175 | 25.2 | 1302.8 | 92.5 | 25.1 | 1576.8 | 25.6 | 1435.8 |
| 724 | 2.185 | 25.3 | 1328.2 | 93.9 | 32.0 | 1608.8 | 23.7 | 1468.5 |
| 725 | 2.155 | 27.9 | 1356.1 | 102.7 | 35.3 | 1645.1 | 32.1 | 1500.6 |
| 726 | 2.125 | 30.6 | 1386.7 | 101.8 | 35.3 | 1680.4 | 32.9 | 1533.5 |
| 727 | 2.210 | 22.2 | 1409.5 | 98.9 | 32.0 | 1712.4 | 27.6 | 1561.1 |
| 728 | 2.315 | 14.8 | 1424.7 | 95.5 | 28.3 | 1740.6 | 21.5 | 1582.6 |
| 729 | 2.375 | 10.2 | 1434.9 | 90.8 | 23.3 | 1763.9 | 16.7 | 1599.4 |
| 730 | 2.400 | 8.3 | 1443.2 | 84.5 | 16.9 | 1780.3 | 12.5 | 1612.0 |
| 731 | 2.415 | 7.3 | 1450.5 | 77.3 | 10.1 | 1790.9 | 8.7 | 1620.7 |
| 732 | 2.405 | 8.0 | 1458.4 | 76.0 | 8.9 | 1799.3 | 8.4 | 1629.1 |
| 733 | 2.430 | 6.2 | 1464.6 | 75.0 | 3.9 | 1808.3 | 7.5 | 1636.7 |
| 734 | 2.440 | 5.4 | 1470.1 | 73.9 | 7.0 | 1815.8 | 6.2 | 1642.9 |
| 735 | 2.415 | 7.2 | 1477.3 | 71.3 | 5.2 | 1821.0 | 6.2 | 1649.1 |
| 736 | 2.395 | 9.7 | 1486.0 | 69.7 | 3.4 | 1824.4 | 5.1 | 1653.2 |
| 737 | 2.390 | 9.1 | 1495.1 | 63.2 | 2.7 | 1827.2 | 5.9 | 1657.1 |
| 738 | 2.395 | 9.7 | 1504.6 | 60.5 | 4.1 | 1831.3 | 5.3 | 1659.9 |
| 739 | 2.390 | 9.7 | 1517.0 | 70.5 | 4.1 | 1835.4 | 5.3 | 1663.2 |
| 740 | 2.390 | 9.7 | 1530.7 | 71.4 | 4.9 | 1839.5 | 6.6 | 1667.0 |
| 741 | 2.395 | 9.7 | 1544.5 | 72.7 | 12.3 | 1843.6 | 12.0 | 1671.0 |
| 742 | 2.395 | 9.7 | 1558.3 | 77.9 | 23.3 | 1847.7 | 23.0 | 1675.0 |
| 743 | 2.395 | 9.7 | 1572.2 | 87.4 | 21.0 | 1851.8 | 21.0 | 1679.0 |
| 744 | 2.395 | 9.7 | 1586.1 | 98.1 | 27.3 | 1855.9 | 27.3 | 1683.0 |
| 745 | 2.395 | 9.7 | 1600.0 | 104.3 | 31.3 | 1859.9 | 31.3 | 1687.0 |
| 746 | 2.395 | 9.7 | 1613.9 | 110.5 | 35.3 | 1864.0 | 35.3 | 1691.0 |
| 747 | 2.395 | 9.7 | 1627.8 | 116.7 | 39.3 | 1868.0 | 39.3 | 1695.0 |
| 748 | 2.395 | 9.7 | 1641.7 | 122.9 | 43.3 | 1872.1 | 43.3 | 1699.0 |
| 749 | 2.395 | 9.7 | 1655.6 | 129.1 | 47.3 | 1876.1 | 47.3 | 1703.0 |
| 750 | 2.395 | 9.7 | 1669.5 | 135.3 | 51.3 | 1880.2 | 51.3 | 1707.0 |

REPORT ON ANALYSIS

FOR

THE CLEVELAND CLIFFS IRON COMPANY- ALL P-1

| DEPTH | DENSITY LOG | | | VELOCITY LOG | | | DENSITY AND VELOCITY | |
|-------|-------------|---------|--------------|--------------|---------|--------------|----------------------|--------------|
| | RHO-B | GAL/TON | ACCUM. YIELD | RHO-B | GAL/TON | ACCUM. YIELD | GAL/TON | ACCUM. YIELD |
| 750 | 1.840 | 48.3 | 1851.7 | 114.5 | 50.5 | 2135.6 | 49.4 | 1853.6 |
| 751 | 1.855 | 47.4 | 1909.1 | 125.9 | 65.3 | 2200.9 | 61.4 | 2055.0 |
| 752 | 1.790 | 64.8 | 1973.9 | 129.3 | 70.6 | 2271.6 | 67.7 | 2122.7 |
| 753 | 1.765 | 67.8 | 2041.7 | 130.6 | 71.7 | 2343.3 | 69.8 | 2192.5 |
| 754 | 1.795 | 64.2 | 2105.6 | 130.2 | 71.2 | 2414.5 | 67.7 | 2260.2 |
| 755 | 1.880 | 54.7 | 2160.6 | 130.2 | 71.2 | 2485.7 | 62.9 | 2323.1 |
| 756 | 1.940 | 48.2 | 2208.9 | 122.6 | 60.9 | 2546.6 | 54.6 | 2377.7 |
| 757 | 2.000 | 42.3 | 2251.2 | 109.9 | 44.8 | 2591.4 | 43.5 | 2421.2 |
| 758 | 2.060 | 36.5 | 2287.7 | 106.9 | 41.2 | 2632.6 | 38.9 | 2460.1 |
| 759 | 2.100 | 32.8 | 2320.5 | 104.8 | 38.7 | 2671.3 | 35.8 | 2495.9 |
| 760 | 2.165 | 27.1 | 2347.6 | 95.1 | 27.3 | 2699.1 | 27.5 | 2523.3 |
| 761 | 2.125 | 30.6 | 2378.2 | 87.9 | 20.3 | 2719.5 | 25.4 | 2548.8 |
| 762 | 2.205 | 23.7 | 2401.8 | 90.0 | 22.5 | 2741.0 | 23.1 | 2571.8 |
| 763 | 2.205 | 23.7 | 2425.5 | 92.8 | 26.4 | 2768.4 | 25.1 | 2596.9 |
| 764 | 2.120 | 31.0 | 2456.5 | 93.4 | 26.4 | 2794.8 | 23.7 | 2625.6 |
| 765 | 2.040 | 38.4 | 2494.9 | 98.0 | 31.0 | 2825.8 | 34.7 | 2660.3 |
| 766 | 2.030 | 39.4 | 2534.3 | 101.4 | 34.8 | 2860.5 | 37.1 | 2697.4 |
| 767 | 2.130 | 30.1 | 2564.4 | 103.1 | 36.8 | 2897.4 | 33.4 | 2730.9 |
| 768 | 2.200 | 24.1 | 2588.5 | 104.3 | 38.7 | 2936.1 | 31.4 | 2762.3 |
| 769 | 2.230 | 21.6 | 2610.1 | 103.5 | 37.2 | 2973.4 | 29.4 | 2791.7 |
| 770 | 2.220 | 22.4 | 2632.5 | 98.0 | 31.0 | 3004.4 | 26.7 | 2818.4 |
| 771 | 2.225 | 22.0 | 2654.4 | 92.5 | 25.1 | 3029.4 | 23.5 | 2841.9 |
| 772 | 2.290 | 16.7 | 2671.2 | 89.6 | 22.0 | 3051.5 | 19.4 | 2861.3 |
| 773 | 2.295 | 16.3 | 2687.5 | 90.4 | 22.9 | 3074.4 | 19.6 | 2880.9 |
| 774 | 2.295 | 16.3 | 2703.8 | 90.4 | 22.9 | 3097.2 | 19.6 | 2900.5 |
| 775 | 2.285 | 17.1 | 2720.9 | 89.2 | 21.6 | 3118.9 | 19.4 | 2919.9 |
| 776 | 2.240 | 20.8 | 2741.7 | 87.0 | 19.4 | 3133.3 | 20.1 | 2940.0 |
| 777 | 2.230 | 21.6 | 2763.3 | 83.3 | 20.7 | 3159.0 | 21.1 | 2961.1 |
| 778 | 2.340 | 12.8 | 2776.1 | 87.9 | 20.3 | 3179.3 | 16.6 | 2977.7 |
| 779 | 2.370 | 10.6 | 2786.7 | 82.4 | 14.9 | 3194.2 | 12.7 | 2990.4 |
| 780 | 2.300 | 15.9 | 2802.6 | 78.6 | 11.3 | 3205.5 | 13.6 | 3004.0 |
| 781 | 2.260 | 19.1 | 2821.7 | 82.0 | 14.5 | 3220.0 | 16.8 | 3020.8 |
| 782 | 2.190 | 24.9 | 2846.7 | 86.2 | 18.6 | 3238.6 | 21.8 | 3042.6 |
| 783 | 2.135 | 25.3 | 2872.0 | 90.0 | 22.5 | 3261.0 | 23.9 | 3064.5 |
| 784 | 2.210 | 22.2 | 2895.2 | 92.5 | 25.1 | 3286.1 | 24.2 | 3089.6 |
| 785 | 2.245 | 20.3 | 2915.5 | 95.1 | 27.3 | 3312.9 | 24.1 | 3114.7 |
| 786 | 2.255 | 20.0 | 2932.0 | 97.2 | 20.1 | 3344.1 | 24.8 | 3141.0 |
| 787 | 2.240 | 20.5 | 2949.5 | 95.3 | 23.1 | 3373.2 | 24.9 | 3167.2 |
| 788 | 2.233 | 21.2 | 2977.0 | 94.9 | 24.4 | 3409.5 | 23.3 | 3193.5 |
| 789 | 2.266 | 18.7 | 2995.7 | 92.1 | 24.6 | 3424.3 | 21.7 | 3214.7 |
| 790 | 2.211 | 21.6 | 3011.0 | 91.3 | 23.3 | 3448.1 | 19.2 | 3234.0 |
| 791 | 2.215 | 21.7 | 3027.2 | 91.3 | 23.3 | 3468.4 | 19.0 | 3253.3 |
| 792 | 2.215 | 21.7 | 3043.4 | 93.7 | 25.1 | 3492.5 | 18.5 | 3272.8 |
| 793 | 2.215 | 21.7 | 3059.6 | 92.4 | 24.4 | 3511.4 | 18.0 | 3291.3 |
| 794 | 2.215 | 21.7 | 3075.8 | 91.3 | 23.3 | 3531.8 | 17.5 | 3309.8 |
| 795 | 2.215 | 21.7 | 3092.0 | 91.3 | 23.3 | 3552.2 | 17.0 | 3328.3 |
| 796 | 2.215 | 21.7 | 3108.2 | 91.3 | 23.3 | 3572.6 | 16.5 | 3346.8 |
| 797 | 2.215 | 21.7 | 3124.4 | 91.3 | 23.3 | 3593.0 | 16.0 | 3365.3 |
| 798 | 2.215 | 21.7 | 3140.6 | 91.3 | 23.3 | 3613.4 | 15.5 | 3383.8 |
| 799 | 2.215 | 21.7 | 3156.8 | 91.3 | 23.3 | 3633.8 | 15.0 | 3402.3 |
| 800 | 2.215 | 21.7 | 3173.0 | 91.3 | 23.3 | 3654.2 | 14.5 | 3420.8 |

HEADLOG ANALYSIS

FO:

THE CLEVELAND CLIFFS IRON COMPANY-WELL P-1

| DEPTH | DENSITY LOG | | | VELOCITY LOG | | | DENSITY AND VELOCITY | | |
|-------|-------------|---------|--------------|--------------|---------|--------------|----------------------|--------------|--|
| | PHO-B | GAL/TON | ACCUM. YIELD | PHO-B | GAL/TON | ACCUM. YIELD | GAL/TON | ACCUM. YIELD | |
| 800 | 2.415 | 7.3 | 3107.8 | 70.5 | 4.1 | 3553.4 | 5.7 | 3330.6 | |
| 801 | 2.415 | 7.3 | 3115.1 | 70.1 | 3.3 | 3557.1 | 5.5 | 3333.1 | |
| 802 | 2.400 | 8.3 | 3123.4 | 69.7 | 3.4 | 3560.5 | 5.9 | 3336.0 | |
| 803 | 2.375 | 10.2 | 3132.6 | 74.4 | 7.5 | 3563.0 | 6.8 | 3339.8 | |
| 804 | 2.365 | 10.9 | 3144.6 | 76.0 | 3.9 | 3576.9 | 9.9 | 3340.7 | |
| 805 | 2.315 | 14.3 | 3159.3 | 71.8 | 5.2 | 3582.1 | 10.0 | 3347.0 | |
| 806 | 2.295 | 16.3 | 3176.7 | 74.8 | 7.8 | 3590.0 | 12.1 | 3352.8 | |
| 807 | 2.255 | 11.7 | 3187.4 | 78.2 | 10.9 | 3600.9 | 11.3 | 3354.1 | |
| 808 | 2.260 | 11.3 | 3198.7 | 82.4 | 14.9 | 3615.8 | 13.1 | 3357.2 | |
| 809 | 2.325 | 14.0 | 3212.7 | 81.5 | 14.0 | 3629.3 | 14.0 | 3359.1 | |
| 810 | 2.270 | 18.3 | 3231.0 | 76.5 | 9.4 | 3639.1 | 13.8 | 3359.0 | |
| 811 | 2.235 | 21.2 | 3252.2 | 78.5 | 11.3 | 3650.4 | 16.2 | 3359.1 | |
| 812 | 2.375 | 10.2 | 3262.4 | 70.8 | 12.4 | 3662.3 | 11.3 | 3359.6 | |
| 813 | 2.400 | 5.3 | 3269.2 | 76.0 | 8.9 | 3671.7 | 7.4 | 3359.9 | |
| 814 | 2.435 | 5.9 | 3274.0 | 71.4 | 4.9 | 3676.6 | 5.3 | 3347.3 | |
| 815 | 2.430 | 6.9 | 3280.6 | 63.7 | 3.4 | 3680.0 | 5.2 | 3347.4 | |
| 816 | 2.365 | 9.5 | 3290.3 | 72.2 | 5.6 | 3685.6 | 7.5 | 3347.9 | |
| 817 | 2.300 | 15.9 | 3296.2 | 72.2 | 5.6 | 3691.1 | 10.7 | 3347.7 | |
| 818 | 2.275 | 17.9 | 3304.2 | 73.5 | 6.7 | 3697.8 | 12.3 | 3347.1 | |
| 819 | 2.230 | 17.1 | 3324.1 | 75.6 | 8.6 | 3706.4 | 12.8 | 3347.3 | |
| 820 | 2.200 | 13.6 | 3335.6 | 76.0 | 8.9 | 3715.3 | 11.3 | 3347.1 | |
| 821 | 2.275 | 10.2 | 3346.5 | 74.3 | 7.8 | 3723.1 | 9.0 | 3347.4 | |
| 822 | 2.425 | 6.5 | 3371.6 | 73.1 | 5.3 | 3729.5 | 6.4 | 3347.5 | |
| 823 | 2.400 | 3.7 | 3375.3 | 71.0 | 4.5 | 3734.0 | 4.1 | 3347.6 | |
| 824 | 2.405 | 2.3 | 3377.6 | 67.5 | 1.7 | 3735.6 | 2.0 | 3347.6 | |
| 825 | 2.310 | 0.6 | 3378.1 | 66.3 | 0.6 | 3736.3 | 0.6 | 3347.2 | |
| 826 | 2.555 | 0.0 | 3378.1 | 64.5 | 0.0 | 3736.3 | 0.0 | 3347.2 | |
| 827 | 2.520 | 1.2 | 3379.4 | 64.5 | 0.0 | 3736.3 | 0.6 | 3347.8 | |
| 828 | 2.495 | 1.6 | 3381.0 | 65.0 | 0.0 | 3736.3 | 0.8 | 3347.6 | |
| 829 | 2.490 | 1.3 | 3382.3 | 65.9 | 0.3 | 3736.5 | 1.1 | 3347.7 | |
| 830 | 2.490 | 1.9 | 3384.8 | 65.9 | 0.3 | 3736.8 | 1.1 | 3347.8 | |
| 831 | 2.490 | 1.9 | 3386.7 | 65.9 | 0.3 | 3737.1 | 1.1 | 3347.9 | |
| 832 | 2.490 | 1.9 | 3388.7 | 65.9 | 0.3 | 3737.4 | 1.1 | 3348.0 | |
| 833 | 2.490 | 2.6 | 3391.3 | 65.9 | 0.3 | 3737.7 | 1.5 | 3348.3 | |
| 834 | 2.440 | 5.4 | 3396.8 | 65.5 | 0.0 | 3737.7 | 2.7 | 3347.2 | |
| 835 | 2.420 | 6.0 | 3398.8 | 65.5 | 0.0 | 3737.7 | 3.2 | 3347.3 | |
| 836 | 2.420 | 6.0 | 3398.8 | 64.6 | 0.0 | 3737.7 | 4.0 | 3347.5 | |
| 837 | 2.420 | 6.0 | 3398.8 | 63.3 | 0.0 | 3737.7 | 4.9 | 3347.8 | |
| 838 | 2.420 | 6.0 | 3398.8 | 63.4 | 0.0 | 3737.7 | 4.0 | 3347.8 | |
| 839 | 2.420 | 6.0 | 3398.8 | 62.4 | 0.0 | 3737.7 | 4.5 | 3347.7 | |
| 840 | 2.420 | 6.0 | 3398.8 | 62.4 | 0.0 | 3737.7 | 4.0 | 3347.7 | |
| 841 | 2.420 | 6.0 | 3398.8 | 62.4 | 0.0 | 3737.7 | 4.7 | 3347.7 | |
| 842 | 2.420 | 6.0 | 3398.8 | 62.4 | 0.0 | 3737.7 | 4.7 | 3347.7 | |
| 843 | 2.420 | 6.0 | 3398.8 | 62.4 | 0.0 | 3737.7 | 4.7 | 3347.7 | |
| 844 | 2.420 | 6.0 | 3398.8 | 62.4 | 0.0 | 3737.7 | 4.7 | 3347.7 | |
| 845 | 2.420 | 6.0 | 3398.8 | 62.4 | 0.0 | 3737.7 | 4.7 | 3347.7 | |
| 846 | 2.420 | 6.0 | 3398.8 | 62.4 | 0.0 | 3737.7 | 4.7 | 3347.7 | |
| 847 | 2.420 | 6.0 | 3398.8 | 62.4 | 0.0 | 3737.7 | 4.7 | 3347.7 | |
| 848 | 2.420 | 6.0 | 3398.8 | 62.4 | 0.0 | 3737.7 | 4.7 | 3347.7 | |
| 849 | 2.420 | 6.0 | 3398.8 | 62.4 | 0.0 | 3737.7 | 4.7 | 3347.7 | |
| 850 | 2.420 | 6.0 | 3398.8 | 62.4 | 0.0 | 3737.7 | 4.7 | 3347.7 | |

DENSITY AND VELOCITY LOG FOR THE CLEVELAND CLIFFS IRON COMPANY-VEIL P-1

| DEPTH | DENSITY LOG | | | VELOCITY LOG | | | DENSITY AND VELOCITY | |
|-------|-------------|---------|--------------|--------------|---------|--------------|----------------------|--------------|
| | RHO-B | GAL/TON | ACCUM. YIELD | RHO-B | GAL/TON | ACCUM. YIELD | GAL/TON | ACCUM. YIELD |
| 850 | 2.490 | 1.9 | 3490.2 | 60.3 | 0.0 | 3737.7 | 1.0 | 3490.2 |
| 851 | 2.490 | 1.9 | 3492.1 | 60.4 | 0.0 | 3737.7 | 1.0 | 3492.1 |
| 852 | 2.495 | 2.3 | 3494.4 | 60.4 | 0.0 | 3737.7 | 1.1 | 3494.4 |
| 853 | 2.495 | 2.3 | 3496.7 | 60.4 | 0.0 | 3737.7 | 1.1 | 3496.7 |
| 854 | 2.480 | 2.6 | 3499.3 | 60.8 | 0.0 | 3737.7 | 1.3 | 3499.3 |
| 855 | 2.470 | 3.3 | 3502.6 | 60.8 | 0.0 | 3737.7 | 1.7 | 3502.6 |
| 856 | 2.470 | 3.3 | 3504.0 | 61.2 | 0.0 | 3737.7 | 1.7 | 3504.0 |
| 857 | 2.475 | 3.0 | 3509.9 | 61.7 | 0.0 | 3737.7 | 1.5 | 3509.9 |
| 858 | 2.470 | 3.3 | 3512.3 | 62.9 | 0.0 | 3737.7 | 1.7 | 3512.3 |
| 859 | 2.450 | 4.7 | 3517.0 | 64.2 | 0.0 | 3737.7 | 2.4 | 3517.0 |
| 860 | 2.475 | 3.0 | 3520.0 | 64.2 | 0.0 | 3737.7 | 1.5 | 3520.0 |
| 861 | 2.510 | 0.6 | 3520.5 | 63.4 | 0.0 | 3737.7 | 0.3 | 3520.5 |
| 862 | 2.510 | 0.6 | 3521.1 | 62.1 | 0.0 | 3737.7 | 0.3 | 3521.1 |
| 863 | 2.415 | 2.3 | 3523.4 | 62.5 | 0.0 | 3737.7 | 1.1 | 3523.4 |
| 864 | 2.430 | 4.7 | 3528.1 | 65.0 | 0.0 | 3737.7 | 2.4 | 3528.1 |
| 865 | 2.385 | 9.5 | 3537.6 | 66.7 | 0.9 | 3732.6 | 5.2 | 3537.6 |
| 866 | 2.350 | 12.1 | 3549.4 | 70.5 | 4.1 | 3742.7 | 8.1 | 3549.4 |
| 867 | 2.320 | 14.4 | 3564.0 | 75.6 | 8.6 | 3751.3 | 11.5 | 3564.0 |
| 868 | 2.255 | 16.5 | 3583.5 | 80.3 | 12.9 | 3764.2 | 16.2 | 3583.5 |
| 869 | 2.245 | 20.3 | 3603.9 | 82.0 | 14.5 | 3773.7 | 17.4 | 3603.9 |
| 870 | 2.295 | 16.3 | 3620.2 | 84.9 | 17.3 | 3796.0 | 16.8 | 3620.2 |
| 871 | 2.405 | 8.0 | 3628.2 | 86.2 | 18.6 | 3814.6 | 12.3 | 3628.2 |
| 872 | 2.400 | 8.3 | 3636.5 | 84.1 | 16.5 | 3831.1 | 12.4 | 3636.5 |
| 873 | 2.365 | 10.9 | 3647.5 | 84.1 | 16.5 | 3847.6 | 12.7 | 3647.5 |
| 874 | 2.285 | 17.1 | 3664.6 | 84.1 | 16.5 | 3864.2 | 16.8 | 3664.6 |
| 875 | 2.380 | 9.3 | 3674.4 | 82.8 | 15.3 | 3879.4 | 12.5 | 3674.4 |
| 876 | 2.455 | 4.4 | 3678.8 | 81.5 | 14.0 | 3893.4 | 9.2 | 3678.8 |
| 877 | 2.480 | 2.6 | 3681.4 | 76.9 | 9.7 | 3903.2 | 6.2 | 3681.4 |
| 878 | 2.475 | 3.0 | 3684.4 | 72.7 | 6.0 | 3909.1 | 4.5 | 3684.4 |
| 879 | 2.460 | 4.0 | 3688.4 | 73.1 | 6.3 | 3915.5 | 5.2 | 3688.4 |
| 880 | 2.460 | 4.0 | 3692.5 | 73.1 | 6.3 | 3921.8 | 5.2 | 3692.5 |
| 881 | 2.455 | 2.3 | 3694.8 | 71.0 | 4.5 | 3926.3 | 3.4 | 3694.8 |
| 882 | 2.500 | 1.2 | 3696.0 | 68.4 | 2.3 | 3928.7 | 1.8 | 3696.0 |
| 883 | 2.500 | 1.2 | 3697.2 | 66.3 | 0.6 | 3929.3 | 0.9 | 3697.2 |
| 884 | 2.510 | 0.2 | 3697.8 | 65.5 | 0.0 | 3929.3 | 0.3 | 3697.8 |
| 885 | 2.505 | 0.2 | 3698.0 | 65.0 | 0.0 | 3929.3 | 0.1 | 3698.0 |
| 886 | 2.505 | 0.2 | 3698.6 | 65.0 | 0.0 | 3929.3 | 0.1 | 3698.6 |
| 887 | 2.505 | 0.2 | 3699.4 | 64.3 | 0.0 | 3929.3 | 0.1 | 3699.4 |
| 888 | 2.505 | 0.2 | 3699.4 | 63.4 | 0.0 | 3929.3 | 0.1 | 3699.4 |
| 889 | 2.505 | 0.2 | 3699.4 | 63.4 | 0.0 | 3929.3 | 0.1 | 3699.4 |
| 890 | 2.505 | 0.2 | 3699.4 | 63.4 | 0.0 | 3929.3 | 0.1 | 3699.4 |
| 891 | 2.505 | 0.2 | 3699.4 | 63.4 | 0.0 | 3929.3 | 0.1 | 3699.4 |
| 892 | 2.505 | 0.2 | 3699.4 | 63.4 | 0.0 | 3929.3 | 0.1 | 3699.4 |
| 893 | 2.505 | 0.2 | 3699.4 | 63.4 | 0.0 | 3929.3 | 0.1 | 3699.4 |
| 894 | 2.505 | 0.2 | 3699.4 | 63.4 | 0.0 | 3929.3 | 0.1 | 3699.4 |
| 895 | 2.505 | 0.2 | 3699.4 | 63.4 | 0.0 | 3929.3 | 0.1 | 3699.4 |
| 896 | 2.505 | 0.2 | 3699.4 | 63.4 | 0.0 | 3929.3 | 0.1 | 3699.4 |
| 897 | 2.505 | 0.2 | 3699.4 | 63.4 | 0.0 | 3929.3 | 0.1 | 3699.4 |
| 898 | 2.505 | 0.2 | 3699.4 | 63.4 | 0.0 | 3929.3 | 0.1 | 3699.4 |
| 899 | 2.505 | 0.2 | 3699.4 | 63.4 | 0.0 | 3929.3 | 0.1 | 3699.4 |
| 900 | 2.505 | 0.2 | 3699.4 | 63.4 | 0.0 | 3929.3 | 0.1 | 3699.4 |

PROJECT ANALYSIS

FOR

THE CLEVELAND CLIFFS IRON COMPANY-WELL P-1

| DEPTH | DENSITY LOG | | | VELOCITY LOG | | | DENSITY AND VELOCITY | |
|-------|-------------|---------|--------------|--------------|---------|--------------|----------------------|--------------|
| | RHO-B | GAL/TON | ACCUM. YIELD | RHO-B | GAL/TON | ACCUM. YIELD | GAL/TON | ACCUM. YIELD |
| 900 | 2.430 | 8.3 | 3743.4 | 72.7 | 6.0 | 4008.7 | 7.2 | 3881.1 |
| 901 | 2.437 | 10.6 | 3779.0 | 75.6 | 8.6 | 4018.3 | 9.6 | 3904.6 |
| 902 | 2.435 | 11.7 | 3790.7 | 78.6 | 11.3 | 4029.6 | 11.5 | 3917.1 |
| 903 | 2.425 | 14.0 | 3804.7 | 78.6 | 11.3 | 4040.8 | 12.6 | 3922.7 |
| 904 | 2.420 | 17.5 | 3822.2 | 79.0 | 11.7 | 4052.5 | 14.6 | 3937.3 |
| 905 | 2.425 | 10.9 | 3833.2 | 78.6 | 11.3 | 4063.8 | 11.1 | 3949.5 |
| 906 | 2.435 | 12.2 | 3846.4 | 79.0 | 11.7 | 4075.5 | 12.4 | 3960.9 |
| 907 | 2.410 | 23.2 | 3869.6 | 82.4 | 14.9 | 4090.3 | 19.1 | 3979.9 |
| 908 | 2.410 | 25.8 | 3895.4 | 85.3 | 17.7 | 4108.0 | 21.7 | 4001.7 |
| 909 | 2.415 | 25.3 | 3920.7 | 89.2 | 21.6 | 4129.7 | 23.5 | 4028.2 |
| 910 | 2.420 | 19.9 | 3940.7 | 92.5 | 25.1 | 4154.7 | 22.5 | 4047.7 |
| 911 | 2.420 | 17.5 | 3958.2 | 93.8 | 26.4 | 4181.2 | 22.0 | 4064.7 |
| 912 | 2.420 | 19.1 | 3977.3 | 97.9 | 20.3 | 4201.5 | 19.7 | 4083.4 |
| 913 | 2.420 | 17.5 | 3994.8 | 80.3 | 12.9 | 4214.4 | 15.2 | 4104.6 |
| 914 | 2.425 | 8.7 | 4003.5 | 78.6 | 11.3 | 4225.6 | 10.0 | 4114.6 |
| 915 | 2.425 | 9.8 | 4009.3 | 76.5 | 9.4 | 4235.0 | 7.6 | 4120.2 |
| 916 | 2.430 | 6.2 | 4015.5 | 71.8 | 5.2 | 4240.2 | 5.7 | 4127.8 |
| 917 | 2.435 | 12.1 | 4027.6 | 71.0 | 4.5 | 4244.7 | 3.2 | 4134.1 |
| 918 | 2.432 | 14.4 | 4042.0 | 76.5 | 9.4 | 4254.1 | 11.9 | 4142.0 |
| 919 | 2.420 | 17.5 | 4059.5 | 82.8 | 15.3 | 4269.4 | 16.4 | 4164.4 |
| 920 | 2.425 | 19.5 | 4079.0 | 89.2 | 21.6 | 4291.0 | 20.6 | 4189.0 |
| 921 | 2.430 | 13.6 | 4092.6 | 90.4 | 22.9 | 4313.9 | 18.2 | 4212.2 |
| 922 | 2.435 | 14.8 | 4107.4 | 88.3 | 20.7 | 4334.6 | 17.7 | 4221.0 |
| 923 | 2.435 | 13.2 | 4120.6 | 84.9 | 17.3 | 4351.9 | 15.3 | 4236.2 |
| 924 | 2.437 | 10.2 | 4130.8 | 82.8 | 15.3 | 4367.2 | 12.7 | 4249.9 |
| 925 | 2.432 | 13.2 | 4144.0 | 85.3 | 17.7 | 4384.9 | 15.5 | 4264.4 |
| 926 | 2.430 | 17.5 | 4161.5 | 85.3 | 17.7 | 4402.6 | 17.6 | 4282.0 |
| 927 | 2.420 | 17.5 | 4179.0 | 84.5 | 16.9 | 4419.5 | 17.2 | 4299.2 |
| 928 | 2.425 | 9.5 | 4188.5 | 80.7 | 13.3 | 4432.7 | 11.4 | 4312.6 |
| 929 | 2.435 | 5.4 | 4194.3 | 77.7 | 10.5 | 4442.2 | 8.1 | 4319.7 |
| 930 | 2.435 | 5.4 | 4200.1 | 74.8 | 7.8 | 4451.0 | 6.8 | 4328.5 |
| 931 | 2.435 | 7.3 | 4207.4 | 73.5 | 6.7 | 4457.7 | 7.0 | 4339.5 |
| 932 | 2.435 | 13.2 | 4220.6 | 75.8 | 12.4 | 4470.1 | 12.8 | 4354.5 |
| 933 | 2.435 | 20.3 | 4240.5 | 84.1 | 16.5 | 4486.6 | 14.4 | 4373.7 |
| 934 | 2.435 | 22.0 | 4262.9 | 89.2 | 21.6 | 4508.3 | 21.8 | 4398.6 |
| 935 | 2.435 | 22.0 | 4278.8 | 91.3 | 23.3 | 4522.1 | 19.9 | 4411.4 |
| 936 | 2.435 | 12.2 | 4292.1 | 90.4 | 22.9 | 4534.9 | 17.0 | 4424.5 |
| 937 | 2.435 | 12.2 | 4307.3 | 84.6 | 19.0 | 4547.2 | 16.1 | 4437.6 |
| 938 | 2.435 | 11.1 | 4317.3 | 82.4 | 14.9 | 4558.3 | 13.5 | 4449.1 |
| 939 | 2.435 | 9.4 | 4329.6 | 78.2 | 10.9 | 4568.7 | 10.2 | 4459.8 |
| 940 | 2.435 | 9.4 | 4340.6 | 73.1 | 6.3 | 4577.1 | 6.1 | 4469.9 |
| 941 | 2.435 | 8.2 | 4349.7 | 72.1 | 5.6 | 4584.3 | 5.0 | 4478.9 |
| 942 | 2.435 | 7.3 | 4357.9 | 72.4 | 5.6 | 4591.3 | 4.0 | 4486.9 |
| 943 | 2.435 | 7.3 | 4365.2 | 71.5 | 5.6 | 4597.7 | 3.0 | 4493.9 |
| 944 | 2.435 | 7.3 | 4371.5 | 71.7 | 5.6 | 4603.7 | 2.0 | 4500.9 |
| 945 | 2.435 | 7.3 | 4377.8 | 71.7 | 5.6 | 4609.7 | 1.0 | 4507.9 |
| 946 | 2.435 | 7.3 | 4384.1 | 71.7 | 5.6 | 4615.7 | 0.0 | 4514.9 |
| 947 | 2.435 | 7.3 | 4390.4 | 71.7 | 5.6 | 4621.7 | 0.0 | 4521.9 |
| 948 | 2.435 | 7.3 | 4396.7 | 71.7 | 5.6 | 4627.7 | 0.0 | 4528.9 |
| 949 | 2.435 | 7.3 | 4403.0 | 71.7 | 5.6 | 4633.7 | 0.0 | 4535.9 |
| 950 | 2.435 | 7.3 | 4409.3 | 71.7 | 5.6 | 4639.7 | 0.0 | 4542.9 |

K E N O C H A N A L I S I S

PLR

THE CLEVELAND CLIFFS IRON COMPANY-LELL P-1

| DEPTH | DENSITY LOG | | | VELOCITY LOG | | | DENSITY AND VELOCITY | |
|-------|-------------|---------|--------------|--------------|---------|--------------|----------------------|--------------|
| | RHO-H | GAL/TON | ACCUM. YIELD | RHO-B | GAL/TON | ACCUM. YIELD | GAL/TON | ACCUM. YIELD |
| 950 | 2.440 | 4.0 | 4409.6 | 74.8 | 7.3 | 4693.4 | 5.9 | 4691.5 |
| 951 | 2.450 | 4.7 | 4414.4 | 71.0 | 4.5 | 4697.9 | 4.6 | 4698.1 |
| 952 | 2.445 | 5.1 | 4419.4 | 68.9 | 2.7 | 4700.6 | 3.9 | 4698.0 |
| 953 | 2.400 | 8.3 | 4427.8 | 74.4 | 7.5 | 4708.1 | 7.9 | 4697.9 |
| 954 | 2.385 | 10.9 | 4438.7 | 78.6 | 11.3 | 4719.4 | 11.1 | 4699.0 |
| 955 | 2.290 | 16.7 | 4455.4 | 79.0 | 11.7 | 4731.1 | 14.2 | 4698.2 |
| 956 | 2.290 | 16.7 | 4472.2 | 78.6 | 11.3 | 4742.3 | 14.0 | 4607.2 |
| 957 | 2.420 | 6.9 | 4479.1 | 78.6 | 11.3 | 4753.6 | 9.1 | 4616.3 |
| 958 | 2.480 | 4.0 | 4483.1 | 74.3 | 7.8 | 4761.5 | 5.9 | 4622.2 |
| 959 | 2.460 | 4.0 | 4487.1 | 70.5 | 4.1 | 4765.6 | 4.1 | 4626.3 |
| 960 | 2.455 | 4.4 | 4491.5 | 69.7 | 3.4 | 4769.0 | 3.9 | 4620.2 |
| 961 | 2.430 | 6.2 | 4497.7 | 75.2 | 8.2 | 4777.2 | 7.2 | 4637.4 |
| 962 | 2.400 | 9.3 | 4506.0 | 77.3 | 10.1 | 4787.3 | 9.2 | 4646.6 |
| 963 | 2.350 | 12.1 | 4518.1 | 77.3 | 10.1 | 4797.3 | 11.1 | 4657.7 |
| 964 | 2.300 | 13.6 | 4531.7 | 77.3 | 10.1 | 4807.4 | 11.8 | 4669.5 |
| 965 | 2.410 | 7.6 | 4539.3 | 75.6 | 8.6 | 4816.0 | 8.1 | 4677.6 |
| 966 | 2.440 | 5.4 | 4544.7 | 71.8 | 5.2 | 4821.2 | 5.2 | 4682.9 |
| 967 | 2.425 | 6.5 | 4551.3 | 66.3 | 0.6 | 4821.3 | 3.6 | 4686.5 |
| 968 | 2.415 | 7.3 | 4558.5 | 64.2 | 0.0 | 4821.8 | 3.6 | 4690.1 |
| 969 | 2.370 | 10.6 | 4569.1 | 71.4 | 4.9 | 4826.7 | 7.7 | 4697.8 |
| 970 | 2.245 | 20.3 | 4589.4 | 79.4 | 12.0 | 4838.7 | 16.2 | 4711.0 |
| 971 | 2.215 | 22.8 | 4612.2 | 87.5 | 19.9 | 4859.6 | 21.4 | 4736.4 |
| 972 | 2.205 | 22.7 | 4635.9 | 92.1 | 24.6 | 4883.2 | 24.2 | 4759.5 |
| 973 | 2.200 | 21.6 | 4657.5 | 92.5 | 25.1 | 4908.3 | 23.3 | 4782.8 |
| 974 | 2.365 | 10.9 | 4668.4 | 87.9 | 20.3 | 4928.6 | 15.6 | 4798.5 |
| 975 | 2.400 | 4.0 | 4672.4 | 82.4 | 14.9 | 4943.5 | 9.5 | 4807.9 |
| 976 | 2.430 | 2.6 | 4675.0 | 76.9 | 9.7 | 4953.2 | 6.2 | 4814.1 |
| 977 | 2.435 | 2.3 | 4677.3 | 71.3 | 5.2 | 4958.4 | 3.7 | 4817.8 |
| 978 | 2.500 | 1.2 | 4678.6 | 69.3 | 3.1 | 4961.5 | 2.2 | 4820.0 |
| 979 | 2.460 | 1.9 | 4680.5 | 68.9 | 2.7 | 4964.3 | 2.3 | 4822.3 |
| 980 | 2.460 | 4.0 | 4684.5 | 70.1 | 3.8 | 4968.0 | 3.9 | 4826.2 |
| 981 | 2.460 | 4.0 | 4688.6 | 71.0 | 4.5 | 4972.5 | 4.3 | 4830.5 |
| 982 | 2.485 | 2.3 | 4690.8 | 71.4 | 4.9 | 4977.4 | 3.5 | 4834.1 |
| 983 | 2.400 | 1.9 | 4692.8 | 71.8 | 5.2 | 4982.6 | 3.6 | 4837.6 |
| 984 | 2.400 | 1.3 | 4694.7 | 72.2 | 5.6 | 4988.1 | 3.7 | 4841.4 |
| 985 | 2.425 | 2.3 | 4697.0 | 71.8 | 5.2 | 4993.4 | 3.7 | 4846.1 |
| 986 | 2.475 | 3.0 | 4698.5 | 71.4 | 4.9 | 4998.2 | 3.9 | 4851.0 |
| 987 | 2.430 | 1.0 | 4704.6 | 70.7 | 4.1 | 5003.3 | 4.1 | 4856.1 |
| 988 | 2.430 | 4.0 | 4707.0 | 68.7 | 3.4 | 5008.9 | 3.7 | 4861.7 |
| 989 | 2.430 | 4.4 | 4712.0 | 68.7 | 3.4 | 5014.1 | 3.7 | 4867.3 |
| 990 | 2.430 | 4.4 | 4717.4 | 68.3 | 3.1 | 5019.2 | 4.7 | 4873.3 |
| 991 | 2.430 | 3.1 | 4721.5 | 68.0 | 3.1 | 5024.3 | 4.1 | 4879.3 |
| 992 | 2.430 | 3.1 | 4727.1 | 68.0 | 2.7 | 5029.1 | 4.3 | 4885.3 |
| 993 | 2.430 | 3.1 | 4732.1 | 67.6 | 2.0 | 5034.1 | 3.9 | 4891.3 |
| 994 | 2.430 | 3.1 | 4737.1 | 67.7 | 1.7 | 5039.1 | 3.7 | 4897.3 |
| 995 | 2.430 | 3.1 | 4742.1 | 67.7 | 1.7 | 5044.1 | 3.7 | 4903.3 |

TABLE 1. PLANT LILIES 1951 COMPARISON - FILL 2-1

| PLANT | QUALITY LILIES | | | QUALITY LILIES | | | QUALITY LILIES | | |
|-------|----------------|---------|--------------|----------------|---------|--------------|----------------|---------|--------------|
| | RE-7-8 | GAL/TON | ACCUM. YIELD | RE-7-8 | GAL/TON | ACCUM. YIELD | RE-7-8 | GAL/TON | ACCUM. YIELD |
| 1 | 478.0 | 47.8 | 47.8 | 68.0 | 6.8 | 6.8 | 1 | 478.0 | 47.8 |
| 2 | 475.5 | 47.5 | 95.3 | 69.7 | 6.9 | 13.7 | 2 | 475.5 | 47.5 |
| 3 | 474.4 | 47.4 | 142.7 | 71.0 | 7.1 | 20.8 | 3 | 474.4 | 47.4 |
| 4 | 474.6 | 47.4 | 190.1 | 71.4 | 7.1 | 27.9 | 4 | 474.6 | 47.4 |
| 5 | 477.5 | 47.7 | 237.6 | 71.3 | 7.1 | 35.0 | 5 | 477.5 | 47.7 |
| 6 | 477.2 | 47.7 | 284.8 | 71.4 | 7.1 | 42.1 | 6 | 477.2 | 47.7 |
| 7 | 478.3 | 47.8 | 332.1 | 71.3 | 7.1 | 49.2 | 7 | 478.3 | 47.8 |
| 8 | 479.7 | 47.9 | 379.6 | 71.3 | 7.1 | 56.3 | 8 | 479.7 | 47.9 |
| 9 | 480.3 | 48.0 | 427.1 | 71.4 | 7.1 | 63.4 | 9 | 480.3 | 48.0 |
| 10 | 481.0 | 48.1 | 474.6 | 70.1 | 7.0 | 70.5 | 10 | 481.0 | 48.1 |
| 11 | 481.7 | 48.1 | 522.1 | 69.3 | 6.9 | 77.6 | 11 | 481.7 | 48.1 |
| 12 | 482.2 | 48.2 | 569.6 | 68.6 | 6.8 | 84.7 | 12 | 482.2 | 48.2 |
| 13 | 482.7 | 48.2 | 617.1 | 67.6 | 6.7 | 91.8 | 13 | 482.7 | 48.2 |
| 14 | 483.1 | 48.3 | 664.6 | 65.2 | 6.5 | 98.9 | 14 | 483.1 | 48.3 |
| 15 | 483.6 | 48.3 | 712.1 | 66.7 | 6.6 | 106.0 | 15 | 483.6 | 48.3 |
| 16 | 484.3 | 48.4 | 759.6 | 66.3 | 6.6 | 113.1 | 16 | 484.3 | 48.4 |
| 17 | 485.1 | 48.5 | 807.1 | 71.4 | 7.1 | 120.2 | 17 | 485.1 | 48.5 |
| 18 | 485.2 | 48.5 | 854.6 | 74.3 | 7.4 | 127.3 | 18 | 485.2 | 48.5 |
| 19 | 487.2 | 48.7 | 902.1 | 78.6 | 7.8 | 134.4 | 19 | 487.2 | 48.7 |
| 20 | 488.2 | 48.8 | 949.6 | 82.0 | 8.2 | 141.5 | 20 | 488.2 | 48.8 |
| 21 | 488.7 | 48.8 | 997.1 | 81.1 | 8.1 | 148.6 | 21 | 488.7 | 48.8 |
| 22 | 489.6 | 48.9 | 1044.6 | 79.4 | 7.9 | 155.7 | 22 | 489.6 | 48.9 |
| 23 | 490.1 | 49.0 | 1092.1 | 75.6 | 7.5 | 162.8 | 23 | 490.1 | 49.0 |
| 24 | 490.6 | 49.0 | 1139.6 | 73.5 | 7.3 | 169.9 | 24 | 490.6 | 49.0 |
| 25 | 491.1 | 49.1 | 1187.1 | 72.2 | 7.2 | 177.0 | 25 | 491.1 | 49.1 |
| 26 | 491.7 | 49.1 | 1234.6 | 71.4 | 7.1 | 184.1 | 26 | 491.7 | 49.1 |
| 27 | 492.1 | 49.2 | 1282.1 | 71.4 | 7.1 | 191.2 | 27 | 492.1 | 49.2 |
| 28 | 492.5 | 49.2 | 1329.6 | 71.0 | 7.1 | 198.3 | 28 | 492.5 | 49.2 |
| 29 | 493.0 | 49.3 | 1377.1 | 71.4 | 7.1 | 205.4 | 29 | 493.0 | 49.3 |
| 30 | 493.6 | 49.3 | 1424.6 | 72.2 | 7.2 | 212.5 | 30 | 493.6 | 49.3 |
| 31 | 494.3 | 49.4 | 1472.1 | 73.1 | 7.3 | 219.6 | 31 | 494.3 | 49.4 |
| 32 | 495.2 | 49.5 | 1519.6 | 73.1 | 7.3 | 226.7 | 32 | 495.2 | 49.5 |
| 33 | 495.7 | 49.5 | 1567.1 | 73.1 | 7.3 | 233.8 | 33 | 495.7 | 49.5 |
| 34 | 497.1 | 49.7 | 1614.6 | 75.0 | 7.5 | 240.9 | 34 | 497.1 | 49.7 |
| 35 | 497.4 | 49.7 | 1662.1 | 75.0 | 7.5 | 248.0 | 35 | 497.4 | 49.7 |
| 36 | 498.1 | 49.8 | 1709.6 | 76.0 | 7.6 | 255.1 | 36 | 498.1 | 49.8 |
| 37 | 498.7 | 49.8 | 1757.1 | 76.0 | 7.6 | 262.2 | 37 | 498.7 | 49.8 |
| 38 | 499.1 | 49.9 | 1804.6 | 76.0 | 7.6 | 269.3 | 38 | 499.1 | 49.9 |
| 39 | 499.6 | 49.9 | 1852.1 | 76.0 | 7.6 | 276.4 | 39 | 499.6 | 49.9 |
| 40 | 500.1 | 50.0 | 1899.6 | 76.0 | 7.6 | 283.5 | 40 | 500.1 | 50.0 |
| 41 | 500.6 | 50.0 | 1947.1 | 76.0 | 7.6 | 290.6 | 41 | 500.6 | 50.0 |
| 42 | 501.1 | 50.1 | 1994.6 | 76.0 | 7.6 | 297.7 | 42 | 501.1 | 50.1 |
| 43 | 501.7 | 50.1 | 2042.1 | 76.0 | 7.6 | 304.8 | 43 | 501.7 | 50.1 |
| 44 | 502.1 | 50.2 | 2089.6 | 76.0 | 7.6 | 311.9 | 44 | 502.1 | 50.2 |
| 45 | 502.5 | 50.2 | 2137.1 | 76.0 | 7.6 | 319.0 | 45 | 502.5 | 50.2 |
| 46 | 503.0 | 50.3 | 2184.6 | 76.0 | 7.6 | 326.1 | 46 | 503.0 | 50.3 |
| 47 | 503.6 | 50.3 | 2232.1 | 76.0 | 7.6 | 333.2 | 47 | 503.6 | 50.3 |
| 48 | 504.3 | 50.4 | 2279.6 | 76.0 | 7.6 | 340.3 | 48 | 504.3 | 50.4 |
| 49 | 505.2 | 50.5 | 2327.1 | 76.0 | 7.6 | 347.4 | 49 | 505.2 | 50.5 |
| 50 | 505.7 | 50.5 | 2374.6 | 76.0 | 7.6 | 354.5 | 50 | 505.7 | 50.5 |
| 51 | 506.1 | 50.6 | 2422.1 | 76.0 | 7.6 | 361.6 | 51 | 506.1 | 50.6 |
| 52 | 506.6 | 50.6 | 2469.6 | 76.0 | 7.6 | 368.7 | 52 | 506.6 | 50.6 |
| 53 | 507.1 | 50.7 | 2517.1 | 76.0 | 7.6 | 375.8 | 53 | 507.1 | 50.7 |
| 54 | 507.5 | 50.7 | 2564.6 | 76.0 | 7.6 | 382.9 | 54 | 507.5 | 50.7 |
| 55 | 508.1 | 50.8 | 2612.1 | 76.0 | 7.6 | 390.0 | 55 | 508.1 | 50.8 |
| 56 | 508.7 | 50.8 | 2659.6 | 76.0 | 7.6 | 397.1 | 56 | 508.7 | 50.8 |
| 57 | 509.1 | 50.9 | 2707.1 | 76.0 | 7.6 | 404.2 | 57 | 509.1 | 50.9 |
| 58 | 509.6 | 50.9 | 2754.6 | 76.0 | 7.6 | 411.3 | 58 | 509.6 | 50.9 |
| 59 | 510.1 | 51.0 | 2802.1 | 76.0 | 7.6 | 418.4 | 59 | 510.1 | 51.0 |
| 60 | 510.6 | 51.0 | 2849.6 | 76.0 | 7.6 | 425.5 | 60 | 510.6 | 51.0 |
| 61 | 511.1 | 51.1 | 2897.1 | 76.0 | 7.6 | 432.6 | 61 | 511.1 | 51.1 |
| 62 | 511.7 | 51.1 | 2944.6 | 76.0 | 7.6 | 439.7 | 62 | 511.7 | 51.1 |
| 63 | 512.1 | 51.2 | 2992.1 | 76.0 | 7.6 | 446.8 | 63 | 512.1 | 51.2 |
| 64 | 512.5 | 51.2 | 3039.6 | 76.0 | 7.6 | 453.9 | 64 | 512.5 | 51.2 |
| 65 | 513.0 | 51.3 | 3087.1 | 76.0 | 7.6 | 461.0 | 65 | 513.0 | 51.3 |
| 66 | 513.6 | 51.3 | 3134.6 | 76.0 | 7.6 | 468.1 | 66 | 513.6 | 51.3 |
| 67 | 514.3 | 51.4 | 3182.1 | 76.0 | 7.6 | 475.2 | 67 | 514.3 | 51.4 |
| 68 | 515.2 | 51.5 | 3229.6 | 76.0 | 7.6 | 482.3 | 68 | 515.2 | 51.5 |
| 69 | 515.7 | 51.5 | 3277.1 | 76.0 | 7.6 | 489.4 | 69 | 515.7 | 51.5 |
| 70 | 516.1 | 51.6 | 3324.6 | 76.0 | 7.6 | 496.5 | 70 | 516.1 | 51.6 |
| 71 | 516.6 | 51.6 | 3372.1 | 76.0 | 7.6 | 503.6 | 71 | 516.6 | 51.6 |
| 72 | 517.1 | 51.7 | 3419.6 | 76.0 | 7.6 | 510.7 | 72 | 517.1 | 51.7 |
| 73 | 517.5 | 51.7 | 3467.1 | 76.0 | 7.6 | 517.8 | 73 | 517.5 | 51.7 |
| 74 | 518.1 | 51.8 | 3514.6 | 76.0 | 7.6 | 524.9 | 74 | 518.1 | 51.8 |
| 75 | 518.7 | 51.8 | 3562.1 | 76.0 | 7.6 | 532.0 | 75 | 518.7 | 51.8 |
| 76 | 519.1 | 51.9 | 3609.6 | 76.0 | 7.6 | 539.1 | 76 | 519.1 | 51.9 |
| 77 | 519.6 | 51.9 | 3657.1 | 76.0 | 7.6 | 546.2 | 77 | 519.6 | 51.9 |
| 78 | 520.1 | 52.0 | 3704.6 | 76.0 | 7.6 | 553.3 | 78 | 520.1 | 52.0 |
| 79 | 520.6 | 52.0 | 3752.1 | 76.0 | 7.6 | 560.4 | 79 | 520.6 | 52.0 |
| 80 | 521.1 | 52.1 | 3799.6 | 76.0 | 7.6 | 567.5 | 80 | 521.1 | 52.1 |
| 81 | 521.7 | 52.1 | 3847.1 | 76.0 | 7.6 | 574.6 | 81 | 521.7 | 52.1 |
| 82 | 522.1 | 52.2 | 3894.6 | 76.0 | 7.6 | 581.7 | 82 | 522.1 | 52.2 |
| 83 | 522.5 | 52.2 | 3942.1 | 76.0 | 7.6 | 588.8 | 83 | 522.5 | 52.2 |
| 84 | 523.0 | 52.3 | 3989.6 | 76.0 | 7.6 | 595.9 | 84 | 523.0 | 52.3 |
| 85 | 523.6 | 52.3 | 4037.1 | 76.0 | 7.6 | 603.0 | 85 | 523.6 | 52.3 |
| 86 | 524.3 | 52.4 | 4084.6 | 76.0 | 7.6 | 610.1 | 86 | 524.3 | 52.4 |
| 87 | 525.2 | 52.5 | 4132.1 | 76.0 | 7.6 | 617.2 | 87 | 525.2 | 52.5 |
| 88 | 525.7 | 52.5 | 4179.6 | 76.0 | 7.6 | 624.3 | 88 | 525.7 | 52.5 |
| 89 | 526.1 | 52.6 | 4227.1 | 76.0 | 7.6 | 631.4 | 89 | 526.1 | 52.6 |
| 90 | 526.6 | 52.6 | 4274.6 | 76.0 | 7.6 | 638.5 | 90 | 526.6 | 52.6 |
| 91 | 527.1 | 52.7 | 4322.1 | 76.0 | 7.6 | 645.6 | 91 | 527.1 | 52.7 |
| 92 | 527.5 | 52.7 | 4369.6 | 76.0 | 7.6 | 652.7 | 92 | 527.5 | 52.7 |
| 93 | 528.1 | 52.8 | 4417.1 | 76.0 | 7.6 | 659.8 | 93 | 528.1 | 52.8 |
| 94 | 528.7 | 52.8 | 4464.6 | 76.0 | 7.6 | 666.9 | 94 | 528.7 | 52.8 |
| 95 | 529.1 | 52.9 | 4512.1 | 76.0 | 7.6 | 674.0 | 95 | 529.1 | 52.9 |
| 96 | 529.6 | 52.9 | 4559.6 | 76.0 | 7.6 | 681.1 | 96 | 529.6 | 52.9 |
| 97 | 530.1 | 53.0 | 4607.1 | 76.0 | 7.6 | 688.2 | 97 | 530.1 | 53.0 |
| 98 | 530.6 | 53.0 | 4654.6 | 76.0 | 7.6 | 695.3 | 98 | 530.6 | 53.0 |
| 99 | 531.1 | 53.1 | 4702.1 | 76.0 | 7.6 | 702.4 | 99 | 531.1 | 53.1 |
| 100 | 531.7 | 53.1 | 4749.6 | 76.0 | 7.6 | 709.5 | 100 | 531.7 | 53.1 |

FOREIGN ANALYSIS

FOR

THE CLEVELAND CLIFFS IRON COMPANY-BELL P-1

| DEPTH | DENSITY LOG | | | VELOCITY LOG | | | DENSITY AND VELOCITY | |
|-------|-------------|---------|--------------|--------------|---------|--------------|----------------------|--------------|
| | RHO-B | GAL/TON | ACCUM. YIELD | RHO-3 | GAL/TON | ACCUM. YIELD | GAL/TON | ACCUM. YIELD |
| 1050 | 2.530 | 0.0 | 5154.4 | 66.7 | 0.9 | 5409.4 | 0.5 | 5223.3 |
| 1051 | 2.530 | 0.0 | 5154.4 | 66.3 | 0.6 | 5409.0 | 0.3 | 5226.6 |
| 1052 | 2.528 | 0.0 | 5154.4 | 68.0 | 2.0 | 5411.0 | 1.0 | 5226.6 |
| 1053 | 2.495 | 1.6 | 5156.0 | 69.3 | 3.1 | 5414.0 | 2.3 | 5226.6 |
| 1054 | 2.490 | 1.9 | 5157.9 | 70.5 | 4.1 | 5418.1 | 3.0 | 5226.6 |
| 1055 | 2.490 | 1.9 | 5159.9 | 70.5 | 4.1 | 5422.2 | 3.0 | 5226.6 |
| 1056 | 2.480 | 2.6 | 5162.5 | 69.7 | 3.4 | 5425.7 | 3.0 | 5226.6 |
| 1057 | 2.470 | 3.3 | 5165.8 | 71.0 | 4.5 | 5430.2 | 3.9 | 5226.6 |
| 1058 | 2.460 | 4.0 | 5169.8 | 71.4 | 4.9 | 5435.0 | 4.4 | 5226.6 |
| 1059 | 2.495 | 1.6 | 5171.4 | 70.1 | 3.8 | 5438.8 | 2.7 | 5226.6 |
| 1060 | 2.485 | 2.3 | 5173.7 | 69.7 | 3.4 | 5442.2 | 2.8 | 5226.6 |
| 1061 | 2.480 | 2.6 | 5176.3 | 70.5 | 4.1 | 5446.3 | 3.4 | 5226.6 |
| 1062 | 2.470 | 3.3 | 5178.6 | 73.9 | 7.0 | 5453.3 | 5.2 | 5226.6 |
| 1063 | 2.460 | 4.0 | 5183.7 | 74.4 | 7.5 | 5460.8 | 5.8 | 5226.6 |
| 1064 | 2.470 | 3.3 | 5187.0 | 74.4 | 7.5 | 5468.3 | 5.4 | 5226.6 |
| 1065 | 2.470 | 3.3 | 5190.3 | 73.5 | 6.7 | 5473.0 | 5.0 | 5226.6 |
| 1066 | 2.500 | 1.2 | 5191.6 | 71.8 | 5.2 | 5480.2 | 3.2 | 5226.6 |
| 1067 | 2.530 | 0.0 | 5191.6 | 71.0 | 4.5 | 5484.7 | 2.3 | 5226.6 |
| 1068 | 2.530 | 0.0 | 5191.6 | 67.6 | 1.7 | 5486.4 | 0.8 | 5226.6 |
| 1069 | 2.535 | 0.0 | 5191.6 | 66.7 | 0.9 | 5487.3 | 0.5 | 5226.6 |
| 1070 | 2.520 | 0.0 | 5191.6 | 65.9 | 0.3 | 5487.6 | 0.1 | 5226.6 |
| 1071 | 2.520 | 0.0 | 5191.6 | 66.7 | 0.9 | 5488.5 | 0.5 | 5226.6 |
| 1072 | 2.525 | 0.0 | 5191.6 | 66.7 | 0.9 | 5489.5 | 0.5 | 5226.6 |
| 1073 | 2.540 | 0.0 | 5191.6 | 66.7 | 0.9 | 5490.4 | 0.5 | 5226.6 |
| 1074 | 2.530 | 0.0 | 5191.4 | 65.5 | 0.0 | 5490.4 | 0.0 | 5226.6 |
| 1075 | 2.530 | 0.0 | 5191.6 | 63.8 | 0.0 | 5490.4 | 0.0 | 5226.6 |
| 1076 | 2.540 | 0.0 | 5191.6 | 62.1 | 0.0 | 5490.4 | 0.0 | 5226.6 |
| 1077 | 2.550 | 0.0 | 5191.6 | 62.5 | 0.0 | 5490.4 | 0.0 | 5226.6 |
| 1078 | 2.550 | 0.0 | 5191.6 | 65.0 | 0.0 | 5490.4 | 0.0 | 5226.6 |
| 1079 | 2.550 | 0.0 | 5191.6 | 66.3 | 0.6 | 5491.0 | 0.3 | 5226.6 |
| 1080 | 2.540 | 0.0 | 5191.6 | 66.3 | 3.1 | 5494.1 | 1.5 | 5226.6 |
| 1081 | 2.520 | 0.6 | 5192.1 | 71.4 | 4.9 | 5499.0 | 2.7 | 5226.6 |
| 1082 | 2.500 | 1.2 | 5193.4 | 71.8 | 5.2 | 5504.2 | 3.2 | 5226.6 |
| 1083 | 2.490 | 1.9 | 5195.3 | 71.0 | 4.5 | 5508.7 | 3.2 | 5226.6 |
| 1084 | 2.480 | 2.6 | 5197.9 | 69.3 | 3.1 | 5511.8 | 2.9 | 5226.6 |
| 1085 | 2.480 | 2.6 | 5200.5 | 69.3 | 3.1 | 5514.9 | 2.9 | 5226.6 |
| 1086 | 2.480 | 2.6 | 5203.4 | 67.6 | 1.7 | 5516.5 | 2.3 | 5226.6 |
| 1087 | 2.480 | 2.6 | 5206.4 | 64.7 | 0.6 | 5517.5 | 0.6 | 5226.6 |
| 1088 | 2.480 | 2.6 | 5209.4 | 62.8 | 0.0 | 5517.5 | 0.1 | 5226.6 |
| 1089 | 2.480 | 2.6 | 5211.7 | 62.8 | 0.0 | 5517.5 | 0.1 | 5226.6 |
| 1090 | 2.480 | 2.6 | 5214.4 | 66.7 | 0.9 | 5517.5 | 0.6 | 5226.6 |
| 1091 | 2.480 | 2.6 | 5217.5 | 66.7 | 0.9 | 5517.5 | 0.6 | 5226.6 |
| 1092 | 2.480 | 2.6 | 5220.5 | 66.7 | 0.9 | 5517.5 | 0.6 | 5226.6 |
| 1093 | 2.480 | 2.6 | 5223.4 | 66.7 | 0.9 | 5517.5 | 0.6 | 5226.6 |
| 1094 | 2.480 | 2.6 | 5226.4 | 66.7 | 0.9 | 5517.5 | 0.6 | 5226.6 |
| 1095 | 2.480 | 2.6 | 5229.4 | 66.7 | 0.9 | 5517.5 | 0.6 | 5226.6 |
| 1096 | 2.480 | 2.6 | 5232.4 | 66.7 | 0.9 | 5517.5 | 0.6 | 5226.6 |
| 1097 | 2.480 | 2.6 | 5235.4 | 66.7 | 0.9 | 5517.5 | 0.6 | 5226.6 |
| 1098 | 2.480 | 2.6 | 5238.4 | 66.7 | 0.9 | 5517.5 | 0.6 | 5226.6 |
| 1099 | 2.480 | 2.6 | 5241.4 | 66.7 | 0.9 | 5517.5 | 0.6 | 5226.6 |
| 1100 | 2.480 | 2.6 | 5244.4 | 66.7 | 0.9 | 5517.5 | 0.6 | 5226.6 |

W E A C O R E H A N A L Y S I S

FOR

THE CLEARLAKE CLIFFS IRON COMPANY-BELL P-1

| DEPTH | DENSITY LOG | | | VELOCITY LOG | | | DENSITY AND VELOCITY | |
|-------|-------------|---------|--------------|--------------|---------|--------------|----------------------|--------------|
| | RHO-A | GAL/TON | ACCUM. YIELD | RHO-B | GAL/TON | ACCUM. YIELD | GAL/TON | ACCUM. YIELD |
| 1100 | 2.510 | 0.6 | 5204.6 | 69.3 | 3.1 | 5532.5 | 1.8 | 5379.5 |
| 1101 | 2.510 | 0.2 | 5206.8 | 68.4 | 2.3 | 5534.8 | 1.3 | 5371.7 |
| 1102 | 2.510 | 0.0 | 5206.8 | 66.7 | 0.9 | 5535.8 | 0.5 | 5371.2 |
| 1103 | 2.510 | 0.0 | 5206.8 | 65.5 | 0.0 | 5535.8 | 0.0 | 5371.2 |
| 1104 | 2.540 | 0.0 | 5206.8 | 67.6 | 1.7 | 5537.5 | 0.8 | 5372.0 |
| 1105 | 2.550 | 0.0 | 5206.8 | 69.3 | 3.1 | 5540.5 | 1.5 | 5373.6 |
| 1106 | 2.555 | 0.0 | 5206.8 | 69.3 | 3.1 | 5543.6 | 1.5 | 5375.1 |
| 1107 | 2.555 | 0.0 | 5206.8 | 69.3 | 3.1 | 5545.7 | 1.5 | 5376.7 |
| 1108 | 2.555 | 0.0 | 5206.8 | 69.3 | 3.1 | 5549.8 | 1.5 | 5378.2 |
| 1109 | 2.515 | 0.2 | 5207.0 | 68.0 | 2.0 | 5551.8 | 1.1 | 5379.3 |
| 1110 | 2.475 | 3.0 | 5210.0 | 66.7 | 0.9 | 5552.7 | 2.0 | 5381.3 |
| 1111 | 2.450 | 4.7 | 5214.7 | 65.9 | 0.3 | 5553.0 | 2.5 | 5383.8 |
| 1112 | 2.450 | 4.7 | 5216.4 | 65.5 | 0.0 | 5553.0 | 2.4 | 5385.1 |
| 1113 | 2.450 | 2.1 | 5222.1 | 64.2 | 0.0 | 5553.0 | 1.3 | 5387.4 |
| 1114 | 2.450 | 2.6 | 5222.3 | 67.6 | 1.7 | 5554.7 | 0.9 | 5388.4 |
| 1115 | 2.530 | 0.0 | 5222.3 | 69.3 | 3.1 | 5557.8 | 1.5 | 5390.9 |
| 1116 | 2.520 | 0.0 | 5222.3 | 71.0 | 4.5 | 5562.3 | 2.3 | 5392.2 |
| 1117 | 2.465 | 3.7 | 5226.0 | 73.1 | 6.3 | 5563.6 | 5.0 | 5397.2 |
| 1118 | 2.440 | 5.4 | 5231.4 | 73.1 | 6.3 | 5574.9 | 5.9 | 5403.1 |
| 1119 | 2.445 | 3.7 | 5235.1 | 71.3 | 5.2 | 5580.2 | 4.4 | 5407.5 |
| 1120 | 2.510 | 0.0 | 5235.6 | 70.5 | 4.1 | 5584.2 | 2.3 | 5409.8 |
| 1121 | 2.555 | 0.2 | 5235.8 | 69.7 | 3.4 | 5587.7 | 1.8 | 5411.7 |
| 1122 | 2.555 | 0.2 | 5236.1 | 69.7 | 3.4 | 5591.1 | 1.8 | 5413.5 |
| 1123 | 2.555 | 0.2 | 5236.3 | 69.7 | 3.4 | 5594.5 | 1.8 | 5415.3 |
| 1124 | 2.555 | 0.2 | 5236.5 | 69.7 | 3.4 | 5597.9 | 1.8 | 5417.1 |
| 1125 | 2.555 | 0.2 | 5236.7 | 69.7 | 3.4 | 5601.3 | 1.8 | 5418.9 |
| 1126 | 2.555 | 0.0 | 5236.7 | 68.0 | 2.0 | 5603.3 | 1.0 | 5419.9 |
| 1127 | 2.555 | 0.0 | 5236.7 | 67.2 | 1.3 | 5604.7 | 0.7 | 5420.6 |
| 1128 | 2.555 | 0.0 | 5236.7 | 68.4 | 2.3 | 5607.0 | 1.2 | 5421.8 |
| 1129 | 2.555 | 0.0 | 5236.9 | 72.2 | 5.6 | 5612.6 | 2.9 | 5424.6 |
| 1130 | 2.555 | 1.6 | 5238.5 | 73.1 | 6.3 | 5618.9 | 4.0 | 5428.6 |
| 1131 | 2.470 | 3.3 | 5241.8 | 73.1 | 6.3 | 5625.2 | 4.8 | 5432.4 |
| 1132 | 2.430 | 8.8 | 5247.6 | 74.4 | 7.5 | 5632.7 | 6.6 | 5437.1 |
| 1133 | 2.420 | 9.9 | 5254.5 | 79.4 | 12.0 | 5644.7 | 9.5 | 5449.5 |
| 1134 | 2.410 | 7.3 | 5261.8 | 82.4 | 14.9 | 5659.6 | 11.1 | 5470.6 |
| 1135 | 2.410 | 7.3 | 5266.7 | 84.1 | 16.5 | 5676.1 | 11.3 | 5471.9 |
| 1136 | 2.410 | 7.3 | 5277.8 | 84.5 | 16.9 | 5716.3 | 12.6 | 5478.6 |
| 1137 | 2.410 | 7.3 | 5277.8 | 84.5 | 16.9 | 5716.3 | 12.6 | 5478.6 |
| 1138 | 2.410 | 7.3 | 5277.8 | 81.1 | 13.6 | 5723.6 | 12.2 | 5478.6 |
| 1139 | 2.410 | 7.3 | 5277.8 | 74.8 | 7.8 | 5731.4 | 15.6 | 5478.6 |
| 1140 | 2.410 | 7.3 | 5277.8 | 67.2 | 1.3 | 5737.6 | 14.0 | 5478.6 |
| 1141 | 2.410 | 7.3 | 5277.8 | 70.5 | 3.1 | 5737.6 | 13.0 | 5478.6 |
| 1142 | 2.410 | 7.3 | 5277.8 | 74.8 | 7.5 | 5737.6 | 13.0 | 5478.6 |
| 1143 | 2.410 | 7.3 | 5277.8 | 74.8 | 7.5 | 5737.6 | 13.0 | 5478.6 |
| 1144 | 2.410 | 7.3 | 5277.8 | 74.8 | 7.5 | 5737.6 | 13.0 | 5478.6 |
| 1145 | 2.410 | 7.3 | 5277.8 | 74.8 | 7.5 | 5737.6 | 13.0 | 5478.6 |
| 1146 | 2.410 | 7.3 | 5277.8 | 74.8 | 7.5 | 5737.6 | 13.0 | 5478.6 |
| 1147 | 2.410 | 7.3 | 5277.8 | 74.8 | 7.5 | 5737.6 | 13.0 | 5478.6 |
| 1148 | 2.410 | 7.3 | 5277.8 | 74.8 | 7.5 | 5737.6 | 13.0 | 5478.6 |
| 1149 | 2.410 | 7.3 | 5277.8 | 74.8 | 7.5 | 5737.6 | 13.0 | 5478.6 |
| 1150 | 2.410 | 7.3 | 5277.8 | 74.8 | 7.5 | 5737.6 | 13.0 | 5478.6 |

WATER ANALYSIS

FOR

THE CLEVELAND CLIFFS IRON COMPANY-WELL P-1

| DEPTH | DENSITY LOG | | | VELOCITY LOG | | | DENSITY AND VELOCITY | |
|-------|-------------|---------|--------------|--------------|---------|--------------|----------------------|--------------|
| | RHO-B | GAL/TON | ACCUM. YIELD | RHO-B | GAL/TON | ACCUM. YIELD | GAL/TON | ACCUM. YIELD |
| 1150 | 2.355 | 11.7 | 5364.3 | 76.9 | 9.7 | 5802.2 | 10.7 | 5500.6 |
| 1151 | 2.295 | 14.3 | 5380.6 | 82.0 | 14.5 | 5817.7 | 15.4 | 5535.1 |
| 1152 | 2.265 | 16.7 | 5399.4 | 85.3 | 17.7 | 5835.4 | 18.2 | 5577.3 |
| 1153 | 2.315 | 14.8 | 5414.1 | 86.2 | 13.6 | 5854.0 | 18.7 | 5622.9 |
| 1154 | 2.380 | 9.8 | 5423.9 | 84.1 | 15.5 | 5870.5 | 13.2 | 5637.1 |
| 1155 | 2.420 | 6.9 | 5430.8 | 80.7 | 13.3 | 5883.8 | 10.1 | 5657.2 |
| 1156 | 2.440 | 5.4 | 5436.3 | 76.0 | 8.9 | 5892.7 | 7.2 | 5684.4 |
| 1157 | 2.410 | 7.6 | 5443.9 | 71.8 | 5.2 | 5897.9 | 6.4 | 5670.8 |
| 1158 | 2.425 | 6.5 | 5450.4 | 71.0 | 4.5 | 5902.4 | 5.5 | 5676.3 |
| 1159 | 2.435 | 5.8 | 5456.2 | 72.2 | 5.6 | 5908.0 | 5.7 | 5682.0 |
| 1160 | 2.435 | 5.8 | 5462.0 | 75.6 | 8.6 | 5916.5 | 7.2 | 5689.2 |
| 1161 | 2.440 | 5.4 | 5467.5 | 77.3 | 10.1 | 5926.6 | 7.8 | 5696.9 |
| 1162 | 2.400 | 8.3 | 5475.8 | 80.7 | 13.3 | 5939.9 | 10.8 | 5717.7 |
| 1163 | 2.400 | 8.3 | 5484.1 | 82.3 | 15.3 | 5955.1 | 11.8 | 5739.5 |
| 1164 | 2.390 | 9.1 | 5493.2 | 82.8 | 15.3 | 5970.4 | 12.2 | 5751.7 |
| 1165 | 2.385 | 9.5 | 5502.7 | 82.4 | 14.9 | 5985.3 | 12.2 | 5767.6 |
| 1166 | 2.385 | 9.5 | 5512.1 | 79.8 | 12.4 | 5997.7 | 10.9 | 5774.8 |
| 1167 | 2.390 | 9.1 | 5521.2 | 76.9 | 9.7 | 6007.4 | 9.4 | 5784.2 |
| 1168 | 2.445 | 5.1 | 5526.3 | 73.5 | 6.7 | 6014.1 | 5.9 | 5795.1 |
| 1169 | 2.445 | 5.1 | 5531.4 | 71.4 | 4.9 | 6018.9 | 5.0 | 5805.1 |
| 1170 | 2.445 | 5.1 | 5536.5 | 71.0 | 4.5 | 6023.5 | 4.8 | 5815.6 |
| 1171 | 2.430 | 6.2 | 5542.6 | 71.0 | 4.5 | 6028.0 | 5.3 | 5826.2 |
| 1172 | 2.415 | 7.3 | 5549.9 | 71.4 | 4.9 | 6032.3 | 6.1 | 5831.3 |
| 1173 | 2.425 | 6.5 | 5556.4 | 73.1 | 6.3 | 6039.2 | 6.4 | 5837.7 |
| 1174 | 2.420 | 6.9 | 5563.3 | 74.3 | 7.8 | 6047.0 | 7.4 | 5845.0 |
| 1175 | 2.395 | 8.7 | 5572.0 | 76.5 | 9.4 | 6056.4 | 9.0 | 5854.1 |
| 1176 | 2.380 | 9.8 | 5581.8 | 79.8 | 12.4 | 6068.8 | 11.1 | 5865.2 |
| 1177 | 2.330 | 13.6 | 5595.4 | 84.5 | 16.9 | 6085.7 | 15.3 | 5880.4 |
| 1178 | 2.270 | 19.2 | 5613.7 | 87.9 | 20.3 | 6106.0 | 19.3 | 5899.8 |
| 1179 | 2.265 | 16.7 | 5632.5 | 89.6 | 22.0 | 6128.1 | 20.4 | 5922.1 |
| 1180 | 2.305 | 15.5 | 5648.0 | 89.6 | 22.0 | 6150.1 | 13.8 | 5945.6 |
| 1181 | 2.350 | 12.1 | 5660.1 | 87.0 | 19.4 | 6169.5 | 15.7 | 5974.7 |
| 1182 | 2.370 | 10.6 | 5670.6 | 83.2 | 15.6 | 6185.1 | 13.1 | 5997.8 |
| 1183 | 2.370 | 10.6 | 5681.2 | 80.3 | 12.9 | 6198.0 | 11.7 | 6020.6 |
| 1184 | 2.370 | 10.6 | 5691.8 | 78.2 | 10.9 | 6208.9 | 10.7 | 6040.2 |
| 1185 | 2.370 | 10.6 | 5702.3 | 76.0 | 11.7 | 6220.6 | 11.1 | 6051.4 |
| 1186 | 2.370 | 10.6 | 5712.9 | 73.2 | 10.9 | 6231.5 | 10.7 | 6062.1 |
| 1187 | 2.385 | 9.8 | 5723.5 | 71.5 | 9.4 | 6242.9 | 10.2 | 6073.1 |
| 1188 | 2.395 | 9.1 | 5734.9 | 70.2 | 8.7 | 6254.1 | 11.1 | 6084.1 |
| 1189 | 2.395 | 9.1 | 5745.4 | 70.2 | 8.7 | 6265.1 | 11.1 | 6095.1 |
| 1190 | 2.395 | 9.1 | 5755.9 | 70.2 | 8.7 | 6276.1 | 11.1 | 6106.1 |
| 1191 | 2.395 | 9.1 | 5766.4 | 70.2 | 8.7 | 6287.1 | 11.1 | 6117.1 |
| 1192 | 2.395 | 9.1 | 5776.9 | 70.2 | 8.7 | 6298.1 | 11.1 | 6128.1 |
| 1193 | 2.395 | 9.1 | 5787.4 | 70.2 | 8.7 | 6309.1 | 11.1 | 6139.1 |
| 1194 | 2.395 | 9.1 | 5797.9 | 70.2 | 8.7 | 6320.1 | 11.1 | 6150.1 |
| 1195 | 2.395 | 9.1 | 5808.4 | 70.2 | 8.7 | 6331.1 | 11.1 | 6161.1 |
| 1196 | 2.395 | 9.1 | 5818.9 | 70.2 | 8.7 | 6342.1 | 11.1 | 6172.1 |
| 1197 | 2.395 | 9.1 | 5829.4 | 70.2 | 8.7 | 6353.1 | 11.1 | 6183.1 |
| 1198 | 2.395 | 9.1 | 5839.9 | 70.2 | 8.7 | 6364.1 | 11.1 | 6194.1 |
| 1199 | 2.395 | 9.1 | 5850.4 | 70.2 | 8.7 | 6375.1 | 11.1 | 6205.1 |
| 1200 | 2.395 | 9.1 | 5860.9 | 70.2 | 8.7 | 6386.1 | 11.1 | 6216.1 |

PERFORMANCE ANALYSIS

FOR

THE CLEVELAND CLIFFS IRON COMPANY-WELL P-1

| DEPTH | DENSITY LOG | | | VELOCITY LOG | | | DENSITY AND VELOCITY | |
|-------|-------------|---------|--------------|--------------|---------|--------------|----------------------|--------------|
| | RHO-B | GAL/TON | ACCUM. YIELD | RHO-B | GAL/TON | ACCUM. YIELD | GAL/TON | ACCUM. YIELD |
| 1200 | 2.420 | 6.9 | 5870.2 | 71.8 | 5.2 | 6403.3 | 6.0 | 6156.6 |
| 1201 | 2.410 | 7.6 | 5877.8 | 73.9 | 7.0 | 6410.3 | 7.3 | 6163.9 |
| 1202 | 2.405 | 8.0 | 5885.8 | 76.0 | 8.9 | 6419.3 | 8.4 | 6172.4 |
| 1203 | 2.375 | 10.2 | 5896.0 | 76.9 | 9.7 | 6429.0 | 10.0 | 6182.4 |
| 1204 | 2.385 | 9.5 | 5905.4 | 76.9 | 9.7 | 6438.7 | 9.6 | 6171.9 |
| 1205 | 2.385 | 8.7 | 5914.1 | 76.5 | 9.4 | 6448.1 | 9.0 | 6181.0 |
| 1206 | 2.395 | 8.7 | 5922.8 | 75.2 | 8.2 | 6456.3 | 8.5 | 6189.4 |
| 1207 | 2.375 | 10.2 | 5933.0 | 74.4 | 7.5 | 6463.7 | 8.8 | 6198.3 |

K E R C G E N A N A L Y S I S

FCR

THE CLEVELAND CLIFFS IRON COMPANY-WELL P-1

| DEPTH | DENSITY LOG | | | ΔT | VELOCITY LOG | | | DENSITY AND VELOCITY | |
|-------|-------------|---------|--------------|------------|--------------|---------|--------------|----------------------|--------------|
| | RHO-B | GAL/TON | ACCUM. YIELD | | RHC-B | GAL/TON | ACCUM. YIELD | GAL/TON | ACCUM. YIELD |
| 500 | 2.500 | 5.4 | 5.4 | 71.8 | 10.9 | 10.9 | 8.2 | 8.2 | |
| 501 | 2.510 | 4.4 | 9.7 | 72.7 | 11.7 | 22.6 | 8.0 | 16.2 | |
| 502 | 2.500 | 5.4 | 15.1 | 76.0 | 14.4 | 37.0 | 9.9 | 26.0 | |
| 503 | 2.430 | 12.3 | 27.4 | 79.0 | 16.9 | 53.9 | 14.6 | 40.6 | |
| 504 | 2.360 | 19.0 | 46.4 | 79.0 | 16.9 | 70.8 | 18.0 | 58.6 | |
| 505 | 2.455 | 9.8 | 56.3 | 77.3 | 15.5 | 86.3 | 12.7 | 71.3 | |
| 506 | 2.515 | 3.9 | 60.1 | 76.0 | 14.4 | 100.6 | 9.1 | 80.4 | |
| 507 | 2.515 | 3.9 | 64.0 | 74.4 | 13.0 | 113.7 | 8.4 | 88.8 | |
| 508 | 2.520 | 3.4 | 67.4 | 71.4 | 10.6 | 124.3 | 7.0 | 95.8 | |
| 509 | 2.505 | 4.9 | 72.2 | 68.9 | 8.7 | 133.0 | 6.8 | 102.6 | |
| 510 | 2.480 | 7.4 | 79.6 | 71.4 | 10.6 | 143.6 | 9.0 | 111.6 | |
| 511 | 2.460 | 9.4 | 88.9 | 72.7 | 11.7 | 155.2 | 10.5 | 122.1 | |
| 512 | 2.435 | 11.8 | 100.8 | 74.8 | 13.4 | 168.6 | 12.6 | 134.7 | |
| 513 | 2.470 | 8.4 | 109.1 | 76.5 | 14.8 | 183.4 | 11.6 | 146.3 | |
| 514 | 2.480 | 7.4 | 116.5 | 77.7 | 15.8 | 199.2 | 11.6 | 157.8 | |
| 515 | 2.440 | 11.2 | 127.8 | 79.4 | 17.3 | 216.5 | 14.3 | 172.1 | |
| 516 | 2.395 | 15.7 | 143.5 | 80.3 | 18.1 | 234.5 | 16.9 | 189.0 | |
| 517 | 2.365 | 18.6 | 162.1 | 78.2 | 16.2 | 250.8 | 17.4 | 206.4 | |
| 518 | 2.435 | 11.8 | 173.9 | 75.2 | 13.7 | 264.5 | 12.8 | 219.2 | |
| 519 | 2.470 | 8.4 | 182.3 | 73.1 | 12.0 | 276.4 | 10.2 | 229.3 | |
| 520 | 2.500 | 5.4 | 187.6 | 70.5 | 9.9 | 286.3 | 7.6 | 237.0 | |
| 521 | 2.500 | 5.4 | 193.0 | 68.4 | 8.3 | 294.7 | 6.8 | 243.8 | |
| 522 | 2.495 | 5.9 | 198.9 | 70.1 | 9.6 | 304.3 | 7.7 | 251.6 | |
| 523 | 2.450 | 10.3 | 209.2 | 72.7 | 11.7 | 315.9 | 11.0 | 262.6 | |
| 524 | 2.445 | 10.8 | 220.0 | 75.6 | 14.0 | 329.9 | 12.4 | 275.0 | |
| 525 | 2.440 | 11.3 | 231.4 | 76.5 | 14.8 | 344.7 | 13.1 | 288.0 | |
| 526 | 2.435 | 11.8 | 243.2 | 76.5 | 14.8 | 359.5 | 13.3 | 301.3 | |
| 527 | 2.435 | 11.8 | 255.0 | 76.5 | 14.8 | 374.3 | 13.3 | 314.6 | |
| 528 | 2.445 | 10.8 | 265.8 | 74.8 | 13.4 | 387.6 | 12.1 | 326.7 | |
| 529 | 2.460 | 9.4 | 275.2 | 72.7 | 11.7 | 399.3 | 10.5 | 337.2 | |
| 530 | 2.475 | 7.9 | 283.0 | 70.1 | 9.6 | 408.9 | 8.7 | 346.0 | |
| 531 | 2.475 | 7.9 | 290.9 | 68.4 | 8.3 | 417.2 | 8.1 | 354.1 | |
| 532 | 2.470 | 8.4 | 299.3 | 68.4 | 8.3 | 425.5 | 8.3 | 362.4 | |
| 533 | 2.470 | 8.4 | 307.6 | 68.4 | 8.3 | 433.8 | 8.3 | 370.7 | |
| 534 | 2.460 | 9.4 | 317.0 | 68.9 | 8.7 | 442.1 | 9.0 | 379.7 | |
| 535 | 2.460 | 9.4 | 326.3 | 71.4 | 10.6 | 453.1 | 10.0 | 389.7 | |
| 536 | 2.470 | 8.4 | 334.7 | 72.7 | 11.7 | 464.8 | 10.0 | 399.7 | |
| 537 | 2.465 | 8.9 | 343.6 | 74.4 | 13.0 | 477.8 | 10.9 | 410.7 | |
| 538 | 2.455 | 9.8 | 353.4 | 76.9 | 15.1 | 492.9 | 12.5 | 422.2 | |
| 539 | 2.450 | 10.3 | 363.8 | 78.2 | 16.2 | 509.2 | 13.3 | 433.5 | |
| 540 | 2.445 | 10.8 | 374.6 | 78.6 | 16.6 | 525.7 | 13.7 | 445.0 | |
| 541 | 2.445 | 10.3 | 385.4 | 78.6 | 16.6 | 542.3 | 13.7 | 456.5 | |
| 542 | 2.435 | 11.8 | 397.2 | 78.6 | 16.6 | 558.9 | 14.2 | 468.1 | |
| 543 | 2.435 | 11.8 | 409.0 | 78.2 | 16.2 | 575.1 | 14.0 | 482.1 | |
| 544 | 2.430 | 12.3 | 421.3 | 78.2 | 16.2 | 591.4 | 14.3 | 496.4 | |
| 545 | 2.435 | 11.7 | 433.1 | 79.4 | 17.3 | 608.6 | 14.0 | 510.4 | |
| 546 | 2.435 | 11.7 | 444.8 | 82.0 | 19.6 | 628.2 | 17.6 | 528.0 | |
| 547 | 2.435 | 11.7 | 456.5 | 85.9 | 21.1 | 651.1 | 17.6 | 545.6 | |
| 548 | 2.430 | 12.3 | 468.8 | 87.9 | 23.1 | 676.5 | 24.0 | 570.7 | |
| 549 | 2.295 | 29.1 | 520.1 | 91.3 | 28.5 | 704.9 | 26.8 | 612.5 | |

K E R O G E N A N A L Y S I S

FCP

THE CLEVELAND CLIFFS IRON COMPANY-WELL P-1

| DEPTH | DENSITY LOG | | | VELOCITY LOG | | | DENSITY AND VELOCITY | |
|-------|-------------|---------|--------------|--------------|---------|--------------|----------------------|--------------|
| | RHO-B | GAL/TON | ACCUM. YIELD | RHO-B | GAL/TON | ACCUM. YIELD | GAL/TON | ACCUM. YIELD |
| 550 | 2.325 | 22.3 | 542.5 | 92.5 | 29.7 | 734.6 | 26.0 | 638.6 |
| 551 | 2.335 | 21.4 | 563.9 | 93.0 | 30.2 | 764.9 | 25.8 | 664.4 |
| 552 | 2.340 | 20.9 | 584.8 | 93.0 | 30.2 | 795.1 | 25.6 | 689.9 |
| 553 | 2.375 | 17.6 | 602.4 | 90.8 | 28.0 | 823.0 | 22.8 | 712.7 |
| 554 | 2.440 | 11.3 | 613.7 | 88.3 | 25.5 | 848.6 | 18.4 | 731.1 |
| 555 | 2.465 | 8.9 | 622.6 | 84.5 | 21.9 | 870.4 | 15.4 | 746.5 |
| 556 | 2.475 | 7.9 | 630.4 | 80.7 | 18.4 | 888.9 | 13.1 | 759.7 |
| 557 | 2.465 | 8.9 | 639.3 | 77.7 | 15.8 | 904.7 | 12.3 | 772.0 |
| 558 | 2.450 | 10.3 | 649.6 | 75.2 | 13.7 | 918.4 | 12.0 | 784.0 |
| 559 | 2.460 | 9.4 | 659.0 | 72.7 | 11.7 | 930.0 | 10.5 | 794.5 |
| 560 | 2.485 | 6.9 | 665.9 | 72.2 | 11.3 | 941.3 | 9.1 | 803.6 |
| 561 | 2.475 | 7.9 | 673.7 | 73.1 | 12.0 | 953.2 | 9.9 | 813.5 |
| 562 | 2.445 | 10.8 | 684.6 | 76.0 | 14.4 | 967.6 | 12.6 | 826.1 |
| 563 | 2.410 | 14.2 | 698.8 | 79.0 | 16.9 | 984.5 | 15.6 | 841.7 |
| 564 | 2.380 | 17.1 | 716.0 | 79.4 | 17.3 | 1001.8 | 17.2 | 858.9 |
| 565 | 2.490 | 6.4 | 722.3 | 79.8 | 17.6 | 1019.4 | 12.0 | 870.9 |
| 566 | 2.505 | 4.9 | 727.2 | 77.3 | 15.5 | 1034.9 | 10.2 | 881.0 |
| 567 | 2.505 | 4.9 | 732.1 | 74.8 | 13.4 | 1048.3 | 9.1 | 890.2 |
| 568 | 2.505 | 4.9 | 736.9 | 73.1 | 12.0 | 1060.2 | 8.4 | 898.6 |
| 569 | 2.495 | 5.9 | 742.8 | 73.1 | 12.0 | 1072.2 | 8.9 | 907.5 |
| 570 | 2.490 | 6.4 | 749.2 | 72.2 | 11.3 | 1083.5 | 8.8 | 916.3 |
| 571 | 2.505 | 4.9 | 754.0 | 73.1 | 12.0 | 1095.4 | 8.4 | 924.7 |
| 572 | 2.505 | 4.9 | 758.9 | 75.2 | 13.7 | 1109.1 | 9.3 | 934.0 |
| 573 | 2.500 | 5.4 | 764.3 | 75.2 | 13.7 | 1122.8 | 9.5 | 943.5 |
| 574 | 2.475 | 7.9 | 772.1 | 73.1 | 12.0 | 1134.8 | 9.9 | 953.5 |
| 575 | 2.475 | 7.9 | 780.0 | 76.5 | 14.8 | 1149.6 | 11.3 | 964.8 |
| 576 | 2.465 | 8.9 | 788.9 | 77.7 | 15.8 | 1165.4 | 12.3 | 977.1 |
| 577 | 2.415 | 13.8 | 802.6 | 77.7 | 15.8 | 1181.2 | 14.8 | 991.9 |
| 578 | 2.475 | 7.9 | 810.5 | 76.5 | 14.8 | 1196.0 | 11.3 | 1003.2 |
| 579 | 2.495 | 5.9 | 816.4 | 77.7 | 15.8 | 1211.8 | 10.8 | 1014.1 |
| 580 | 2.490 | 6.4 | 822.7 | 80.3 | 18.1 | 1229.8 | 12.2 | 1026.3 |
| 581 | 2.490 | 6.4 | 829.1 | 77.7 | 15.8 | 1245.6 | 11.1 | 1037.4 |
| 582 | 2.485 | 6.9 | 836.0 | 74.4 | 13.0 | 1258.1 | 10.0 | 1047.3 |
| 583 | 2.465 | 8.9 | 844.8 | 76.5 | 14.8 | 1273.1 | 11.8 | 1059.1 |
| 584 | 2.425 | 12.8 | 857.6 | 78.6 | 16.6 | 1290.1 | 14.7 | 1073.8 |
| 585 | 2.385 | 16.7 | 874.3 | 76.9 | 15.1 | 1305.2 | 15.9 | 1089.7 |
| 586 | 2.450 | 10.3 | 884.6 | 76.9 | 15.1 | 1320.3 | 12.7 | 1102.4 |
| 587 | 2.485 | 6.9 | 891.5 | 77.7 | 15.8 | 1336.1 | 11.3 | 1112.8 |
| 588 | 2.460 | 7.4 | 898.9 | 76.9 | 15.1 | 1351.2 | 11.2 | 1123.6 |
| 589 | 2.440 | 11.3 | 910.2 | 74.4 | 13.0 | 1364.2 | 12.2 | 1137.2 |
| 590 | 2.385 | 16.7 | 926.8 | 77.7 | 15.8 | 1380.0 | 16.2 | 1153.4 |
| 591 | 2.380 | 21.9 | 948.7 | 79.8 | 17.6 | 1397.7 | 19.7 | 1172.2 |
| 592 | 2.360 | 14.2 | 964.9 | 78.2 | 16.2 | 1413.9 | 16.2 | 1186.4 |
| 593 | 2.420 | 11.3 | 976.7 | 78.6 | 16.6 | 1430.5 | 14.2 | 1202.6 |
| 594 | 2.425 | 11.3 | 982.5 | 80.7 | 18.4 | 1448.9 | 15.6 | 1218.2 |
| 595 | 2.425 | 11.3 | 988.2 | 79.8 | 17.6 | 1466.5 | 16.7 | 1234.3 |
| 596 | 2.425 | 11.3 | 993.9 | 81.5 | 19.1 | 1485.7 | 18.1 | 1250.4 |
| 597 | 2.425 | 11.3 | 999.6 | 81.5 | 19.1 | 1504.9 | 18.1 | 1266.5 |
| 598 | 2.425 | 11.3 | 1005.3 | 81.5 | 19.1 | 1524.1 | 18.1 | 1282.6 |
| 599 | 2.425 | 11.3 | 1011.0 | 81.5 | 19.1 | 1543.3 | 18.1 | 1298.7 |
| 600 | 2.425 | 11.3 | 1016.7 | 81.5 | 19.1 | 1562.5 | 18.1 | 1314.8 |
| 601 | 2.425 | 11.3 | 1022.4 | 81.5 | 19.1 | 1581.7 | 18.1 | 1330.9 |
| 602 | 2.425 | 11.3 | 1028.1 | 81.5 | 19.1 | 1600.9 | 18.1 | 1347.0 |
| 603 | 2.425 | 11.3 | 1033.8 | 81.5 | 19.1 | 1620.1 | 18.1 | 1363.1 |
| 604 | 2.425 | 11.3 | 1039.5 | 81.5 | 19.1 | 1639.3 | 18.1 | 1379.2 |
| 605 | 2.425 | 11.3 | 1045.2 | 81.5 | 19.1 | 1658.5 | 18.1 | 1395.3 |
| 606 | 2.425 | 11.3 | 1050.9 | 81.5 | 19.1 | 1677.7 | 18.1 | 1411.4 |
| 607 | 2.425 | 11.3 | 1056.6 | 81.5 | 19.1 | 1696.9 | 18.1 | 1427.5 |
| 608 | 2.425 | 11.3 | 1062.3 | 81.5 | 19.1 | 1716.1 | 18.1 | 1443.6 |
| 609 | 2.425 | 11.3 | 1068.0 | 81.5 | 19.1 | 1735.3 | 18.1 | 1459.7 |
| 610 | 2.425 | 11.3 | 1073.7 | 81.5 | 19.1 | 1754.5 | 18.1 | 1475.8 |
| 611 | 2.425 | 11.3 | 1079.4 | 81.5 | 19.1 | 1773.7 | 18.1 | 1491.9 |
| 612 | 2.425 | 11.3 | 1085.1 | 81.5 | 19.1 | 1792.9 | 18.1 | 1508.0 |
| 613 | 2.425 | 11.3 | 1090.8 | 81.5 | 19.1 | 1812.1 | 18.1 | 1524.1 |
| 614 | 2.425 | 11.3 | 1096.5 | 81.5 | 19.1 | 1831.3 | 18.1 | 1540.2 |
| 615 | 2.425 | 11.3 | 1102.2 | 81.5 | 19.1 | 1850.5 | 18.1 | 1556.3 |
| 616 | 2.425 | 11.3 | 1107.9 | 81.5 | 19.1 | 1869.7 | 18.1 | 1572.4 |
| 617 | 2.425 | 11.3 | 1113.6 | 81.5 | 19.1 | 1888.9 | 18.1 | 1588.5 |
| 618 | 2.425 | 11.3 | 1119.3 | 81.5 | 19.1 | 1908.1 | 18.1 | 1604.6 |
| 619 | 2.425 | 11.3 | 1125.0 | 81.5 | 19.1 | 1927.3 | 18.1 | 1620.7 |
| 620 | 2.425 | 11.3 | 1130.7 | 81.5 | 19.1 | 1946.5 | 18.1 | 1636.8 |
| 621 | 2.425 | 11.3 | 1136.4 | 81.5 | 19.1 | 1965.7 | 18.1 | 1652.9 |
| 622 | 2.425 | 11.3 | 1142.1 | 81.5 | 19.1 | 1984.9 | 18.1 | 1669.0 |
| 623 | 2.425 | 11.3 | 1147.8 | 81.5 | 19.1 | 2004.1 | 18.1 | 1685.1 |
| 624 | 2.425 | 11.3 | 1153.5 | 81.5 | 19.1 | 2023.3 | 18.1 | 1701.2 |
| 625 | 2.425 | 11.3 | 1159.2 | 81.5 | 19.1 | 2042.5 | 18.1 | 1717.3 |
| 626 | 2.425 | 11.3 | 1164.9 | 81.5 | 19.1 | 2061.7 | 18.1 | 1733.4 |
| 627 | 2.425 | 11.3 | 1170.6 | 81.5 | 19.1 | 2080.9 | 18.1 | 1749.5 |
| 628 | 2.425 | 11.3 | 1176.3 | 81.5 | 19.1 | 2100.1 | 18.1 | 1765.6 |
| 629 | 2.425 | 11.3 | 1182.0 | 81.5 | 19.1 | 2119.3 | 18.1 | 1781.7 |
| 630 | 2.425 | 11.3 | 1187.7 | 81.5 | 19.1 | 2138.5 | 18.1 | 1797.8 |
| 631 | 2.425 | 11.3 | 1193.4 | 81.5 | 19.1 | 2157.7 | 18.1 | 1813.9 |
| 632 | 2.425 | 11.3 | 1199.1 | 81.5 | 19.1 | 2176.9 | 18.1 | 1830.0 |
| 633 | 2.425 | 11.3 | 1204.8 | 81.5 | 19.1 | 2196.1 | 18.1 | 1846.1 |
| 634 | 2.425 | 11.3 | 1210.5 | 81.5 | 19.1 | 2215.3 | 18.1 | 1862.2 |
| 635 | 2.425 | 11.3 | 1216.2 | 81.5 | 19.1 | 2234.5 | 18.1 | 1878.3 |
| 636 | 2.425 | 11.3 | 1221.9 | 81.5 | 19.1 | 2253.7 | 18.1 | 1894.4 |
| 637 | 2.425 | 11.3 | 1227.6 | 81.5 | 19.1 | 2272.9 | 18.1 | 1910.5 |
| 638 | 2.425 | 11.3 | 1233.3 | 81.5 | 19.1 | 2292.1 | 18.1 | 1926.6 |
| 639 | 2.425 | 11.3 | 1239.0 | 81.5 | 19.1 | 2311.3 | 18.1 | 1942.7 |
| 640 | 2.425 | 11.3 | 1244.7 | 81.5 | 19.1 | 2330.5 | 18.1 | 1958.8 |
| 641 | 2.425 | 11.3 | 1250.4 | 81.5 | 19.1 | 2349.7 | 18.1 | 1974.9 |
| 642 | 2.425 | 11.3 | 1256.1 | 81.5 | 19.1 | 2368.9 | 18.1 | 1991.0 |
| 643 | 2.425 | 11.3 | 1261.8 | 81.5 | 19.1 | 2388.1 | 18.1 | 2007.1 |
| 644 | 2.425 | 11.3 | 1267.5 | 81.5 | 19.1 | 2407.3 | 18.1 | 2023.2 |
| 645 | 2.425 | 11.3 | 1273.2 | 81.5 | 19.1 | 2426.5 | 18.1 | 2039.3 |
| 646 | 2.425 | 11.3 | 1278.9 | 81.5 | 19.1 | 2445.7 | 18.1 | 2055.4 |
| 647 | 2.425 | 11.3 | 1284.6 | 81.5 | 19.1 | 2464.9 | 18.1 | 2071.5 |
| 648 | 2.425 | 11.3 | 1290.3 | 81.5 | 19.1 | 2484.1 | 18.1 | 2087.6 |
| 649 | 2.425 | 11.3 | 1296.0 | 81.5 | 19.1 | 2503.3 | 18.1 | 2103.7 |
| 650 | 2.425 | 11.3 | 1301.7 | 81.5 | 19.1 | 2522.5 | 18.1 | 2119.8 |
| 651 | 2.425 | 11.3 | 1307.4 | 81.5 | 19.1 | 2541.7 | 18.1 | 2135.9 |
| 652 | 2.425 | 11.3 | 1313.1 | 81.5 | 19.1 | 2560.9 | 18.1 | 2152.0 |
| 653 | 2.425 | 11.3 | 1318.8 | 81.5 | 19.1 | 2580.1 | 18.1 | 2168.1 |
| 654 | 2.425 | 11.3 | 1324.5 | 81.5 | 19.1 | 2599.3 | 18.1 | 2184.2 |
| 655 | 2.425 | 11.3 | 1330.2 | 81.5 | 19.1 | 2618.5 | 18.1 | 2200.3 |
| 656 | 2.425 | 11.3 | 1335.9 | 81.5 | 19.1 | 2637.7 | 18.1 | 2216.4 |
| 657 | 2.425 | 11.3 | 1341.6 | 81.5 | 19.1 | 2656.9 | 18.1 | 2232.5 |
| 658 | 2.425 | 11.3 | 1347.3 | 81.5 | 19.1 | 2676.1 | 18.1 | 2248.6 |
| 659 | 2.425 | 11.3 | 1353.0 | 81.5 | 19.1 | 2695.3 | 18.1 | 2264.7 |
| 660 | 2.425 | 11.3 | 1358.7 | 81.5 | 19.1 | 2714.5 | 18.1 | 2280.8 |
| 661 | 2.425 | 11.3 | 1364.4 | 81.5 | 19.1 | 2733.7 | 18.1 | 2296.9 |
| 662 | 2.425 | 11.3 | 1370.1 | 81.5 | 19.1 | 2752.9 | 18.1 | 2313.0 |
| 663 | 2.425 | 11.3 | 1375.8 | 81.5 | 19.1 | 2772.1 | 18.1 | 2329.1 |
| 664 | 2.425 | 11.3 | 1381.5 | 81.5 | 19.1 | 2791.3 | 18.1 | 2345.2 |
| 665 | 2.425 | 11.3 | 1387.2 | 81.5 | 19.1 | 2810.5 | 18.1 | 2361.3 |
| 666 | 2.425 | 11.3 | 1392.9 | 81.5 | 19.1 | 2829.7 | 18.1 | 2377.4 |
| 667 | 2.425 | 11.3 | 1398.6 | 81.5 | 19.1 | 2848.9 | 18.1 | 2393.5 |
| 668 | 2.425 | 11.3 | 1404.3 | 81.5 | 19.1 | 2868.1 | 18.1 | 2409.6 |
| 669 | 2.425 | 11.3 | 1410.0 | 81.5 | 19.1 | 2887.3 | 18.1 | 2425.7 |
| 670 | 2.425 | 11.3 | 1415.7 | 81.5 | 19.1 | 2906.5 | 18.1 | 2441.8 |
| 671 | 2.425 | 11.3 | 1421.4 | 81.5 | 19.1 | 2925.7 | 18.1 | 2457.9 |
| 672 | 2.425 | 11.3 | 1427.1 | 81.5 | 19.1 | 2944.9 | 18.1 | 2474.0 |
| 673 | 2.425 | 11.3 | 1432.8 | 81.5 | 19.1 | 2964.1 | 18.1 | 2490.1 |
| 674 | 2.425 | 11.3 | 1438.5 | 81.5 | 19.1 | 2983.3 | 18.1 | 2506.2 |
| 675 | 2.425 | 11.3 | 1444.2 | 81.5 | 19.1 | 3002.5 | 18.1 | 2522.3 |
| 676 | 2.425 | 11.3 | 1449.9 | 81.5 | 19.1 | 3021.7 | 18.1 | 2538.4 |
| 677 | 2.425 | 11.3 | 1455.6 | 81.5 | 19.1 | 3040.9 | 18.1 | 2554.5 |
| 678 | 2.425 | 11.3 | 1461.3 | 81.5 | 19.1 | 3060.1 | 18.1 | 2570.6 |
| 679 | 2.425 | 11.3 | 1467.0 | 81.5 | 19.1 | 3079.3 | 18.1 | 2586.7 |
| 680 | 2.425 | 11.3 | 1472.7 | 81.5 | 19.1 | 3098.5 | 18.1 | 2602.8 |
| 681 | 2.425 | 11.3 | 1478.4 | 81.5 | 19.1 | 3117.7 | 18.1 | 2618.9 |
| 682 | 2 | | | | | | | |

K E R C G E N A N A L Y S I S

FCR

THE CLEVELAND CLIFFS IRON COMPANY-WELL P-1

| DEPTH | DENSITY LOG | | | VELOCITY LOG | | | DENSITY AND VELOCITY | |
|-------|-------------|---------|--------------|--------------|---------|--------------|----------------------|--------------|
| | RHC-B | GAL/TON | ACCUM. YIELD | RHC-B | GAL/TON | ACCUM. YIELD | GAL/TON | ACCUM. YIELD |
| 600 | 2.515 | 3.9 | 1102.4 | 78.6 | 16.6 | 1568.3 | 10.2 | 1335.4 |
| 601 | 2.540 | 1.3 | 1103.8 | 73.9 | 12.6 | 1580.9 | 7.0 | 1342.3 |
| 602 | 2.530 | 2.3 | 1106.1 | 68.4 | 8.3 | 1589.2 | 5.3 | 1347.7 |
| 603 | 2.520 | 3.4 | 1109.4 | 64.6 | 5.5 | 1594.7 | 4.4 | 1352.1 |
| 604 | 2.495 | 5.9 | 1115.3 | 65.9 | 6.5 | 1601.2 | 6.2 | 1358.3 |
| 605 | 2.455 | 9.8 | 1125.2 | 67.6 | 7.7 | 1608.9 | 8.8 | 1367.0 |
| 606 | 2.435 | 11.8 | 1137.0 | 68.0 | 8.0 | 1616.9 | 9.9 | 1376.9 |
| 607 | 2.425 | 11.8 | 1148.8 | 68.0 | 8.0 | 1624.9 | 9.9 | 1386.9 |
| 608 | 2.445 | 10.8 | 1159.6 | 69.7 | 9.3 | 1634.2 | 10.1 | 1396.9 |
| 609 | 2.435 | 11.8 | 1171.4 | 71.4 | 10.6 | 1644.8 | 11.2 | 1408.1 |
| 610 | 2.380 | 17.1 | 1188.6 | 72.2 | 11.3 | 1656.1 | 14.2 | 1422.3 |
| 611 | 2.295 | 25.1 | 1213.7 | 74.8 | 13.4 | 1669.5 | 19.2 | 1441.6 |
| 612 | 2.335 | 21.4 | 1235.1 | 79.0 | 16.9 | 1686.4 | 19.2 | 1460.7 |
| 613 | 2.465 | 8.9 | 1243.9 | 80.7 | 18.4 | 1704.8 | 13.6 | 1474.4 |
| 614 | 2.495 | 5.9 | 1249.8 | 77.7 | 15.8 | 1720.6 | 10.8 | 1485.2 |
| 615 | 2.485 | 6.9 | 1256.7 | 73.5 | 12.3 | 1732.9 | 9.6 | 1494.8 |
| 616 | 2.455 | 9.8 | 1266.5 | 70.5 | 9.9 | 1742.8 | 9.9 | 1504.7 |
| 617 | 2.435 | 11.8 | 1278.3 | 73.5 | 12.3 | 1755.1 | 12.1 | 1516.7 |
| 618 | 2.390 | 16.2 | 1294.5 | 72.7 | 11.7 | 1766.8 | 13.9 | 1530.6 |
| 619 | 2.410 | 14.2 | 1308.8 | 73.5 | 12.3 | 1779.1 | 13.3 | 1543.9 |
| 620 | 2.460 | 9.4 | 1318.1 | 72.2 | 11.3 | 1790.3 | 10.3 | 1554.2 |
| 621 | 2.460 | 9.4 | 1327.5 | 71.0 | 10.3 | 1800.6 | 9.8 | 1564.0 |
| 622 | 2.445 | 10.8 | 1338.3 | 68.9 | 8.7 | 1809.3 | 9.8 | 1572.8 |
| 623 | 2.435 | 11.8 | 1350.1 | 69.3 | 9.0 | 1818.3 | 10.4 | 1584.2 |
| 624 | 2.405 | 14.7 | 1364.8 | 69.7 | 9.3 | 1827.6 | 12.0 | 1596.2 |
| 625 | 2.385 | 16.7 | 1381.5 | 69.3 | 9.0 | 1836.6 | 12.8 | 1609.0 |
| 626 | 2.425 | 12.8 | 1394.3 | 68.9 | 8.7 | 1845.3 | 10.7 | 1619.8 |
| 627 | 2.480 | 7.4 | 1401.7 | 66.3 | 6.7 | 1852.0 | 7.1 | 1626.8 |
| 628 | 2.490 | 6.4 | 1408.0 | 64.6 | 5.5 | 1857.8 | 5.9 | 1632.8 |
| 629 | 2.470 | 8.4 | 1416.4 | 64.2 | 5.2 | 1862.4 | 6.8 | 1639.6 |
| 630 | 2.465 | 8.9 | 1425.3 | 66.3 | 6.7 | 1869.5 | 7.8 | 1647.4 |
| 631 | 2.460 | 9.4 | 1434.6 | 67.6 | 7.7 | 1877.2 | 8.5 | 1655.9 |
| 632 | 2.430 | 12.3 | 1446.9 | 68.0 | 8.0 | 1885.2 | 10.2 | 1666.1 |
| 633 | 2.430 | 12.3 | 1459.2 | 66.3 | 6.7 | 1892.9 | 9.5 | 1675.6 |
| 634 | 2.470 | 8.4 | 1467.6 | 64.2 | 5.2 | 1897.2 | 6.8 | 1682.4 |
| 635 | 2.485 | 6.9 | 1474.4 | 62.9 | 4.3 | 1901.2 | 5.6 | 1688.0 |
| 636 | 2.490 | 6.4 | 1480.8 | 63.4 | 4.7 | 1906.2 | 5.5 | 1693.5 |
| 637 | 2.500 | 5.4 | 1486.2 | 64.6 | 5.5 | 1911.7 | 5.4 | 1699.0 |
| 638 | 2.500 | 5.4 | 1491.6 | 64.6 | 5.5 | 1917.2 | 5.4 | 1704.4 |
| 639 | 2.500 | 5.4 | 1496.9 | 63.8 | 5.0 | 1922.2 | 5.2 | 1709.6 |
| 640 | 2.500 | 5.4 | 1502.3 | 64.2 | 5.2 | 1927.4 | 5.3 | 1714.9 |
| 641 | 2.495 | 5.9 | 1508.2 | 64.6 | 5.5 | 1932.9 | 5.7 | 1720.6 |
| 642 | 2.495 | 6.9 | 1515.0 | 63.8 | 5.0 | 1937.9 | 5.9 | 1725.5 |
| 643 | 2.470 | 8.4 | 1523.4 | 62.5 | 4.0 | 1941.9 | 6.2 | 1732.7 |
| 644 | 2.475 | 7.9 | 1531.3 | 61.7 | 3.5 | 1945.4 | 5.7 | 1738.3 |
| 645 | 2.470 | 7.4 | 1538.6 | 62.5 | 4.0 | 1949.5 | 5.7 | 1743.1 |
| 646 | 2.470 | 7.4 | 1545.9 | 63.8 | 5.0 | 1954.4 | 5.6 | 1748.0 |
| 647 | 2.470 | 7.4 | 1553.2 | 63.8 | 5.0 | 1959.2 | 5.6 | 1752.8 |
| 648 | 2.470 | 7.4 | 1560.5 | 67.2 | 7.4 | 1964.5 | 5.6 | 1757.6 |
| 649 | 2.465 | 6.9 | 1567.8 | 66.3 | 6.7 | 1975.3 | 6.3 | 1762.4 |

K E R O G E N A N A L Y S I S

FCR

THE CLEVELAND CLIFFS IRON COMPANY-YELL P-1

| DEPTH | DENSITY LOG | | | VELOCITY LOG | | | DENSITY AND VELOCITY | |
|-------|-------------|---------|--------------|--------------|---------|--------------|----------------------|--------------|
| | RHO-B | GAL/TON | ACCUM. YIELD | RHO-B | GAL/TON | ACCUM. YIELD | CAL/TON | ACCUM. YIELD |
| 650 | 2.470 | 8.4 | 1572.5 | 65.5 | 6.2 | 1981.5 | 7.3 | 1777.0 |
| 651 | 2.490 | 6.4 | 1578.9 | 65.5 | 6.2 | 1987.7 | 6.3 | 1783.3 |
| 652 | 2.505 | 4.9 | 1583.7 | 65.5 | 6.2 | 1993.8 | 5.5 | 1788.8 |
| 653 | 2.505 | 4.9 | 1588.6 | 65.5 | 6.2 | 2000.0 | 5.5 | 1794.3 |
| 654 | 2.500 | 5.4 | 1594.0 | 64.6 | 5.5 | 2005.5 | 5.4 | 1799.7 |
| 655 | 2.475 | 7.5 | 1601.8 | 64.2 | 5.2 | 2010.7 | 6.6 | 1806.3 |
| 656 | 2.450 | 10.3 | 1612.2 | 64.6 | 5.5 | 2016.3 | 7.9 | 1814.2 |
| 657 | 2.475 | 7.5 | 1620.0 | 66.7 | 7.0 | 2023.3 | 7.5 | 1821.7 |
| 658 | 2.475 | 7.9 | 1627.9 | 67.6 | 7.7 | 2031.0 | 7.8 | 1829.5 |
| 659 | 2.475 | 7.9 | 1635.8 | 66.7 | 7.0 | 2038.0 | 7.5 | 1836.9 |
| 660 | 2.475 | 7.9 | 1643.6 | 66.3 | 6.7 | 2044.3 | 7.3 | 1844.2 |
| 661 | 2.460 | 9.4 | 1653.0 | 66.3 | 6.7 | 2051.5 | 8.1 | 1852.3 |
| 662 | 2.390 | 16.2 | 1669.2 | 65.0 | 5.8 | 2057.3 | 11.0 | 1863.3 |
| 663 | 2.395 | 15.7 | 1684.9 | 63.4 | 4.7 | 2062.0 | 10.2 | 1873.4 |
| 664 | 2.430 | 12.3 | 1697.2 | 62.5 | 4.0 | 2066.1 | 8.2 | 1881.6 |
| 665 | 2.435 | 11.8 | 1709.0 | 62.5 | 4.0 | 2070.1 | 7.9 | 1889.5 |
| 666 | 2.435 | 11.8 | 1720.8 | 63.4 | 4.7 | 2074.8 | 8.2 | 1897.8 |
| 667 | 2.430 | 12.3 | 1733.1 | 66.7 | 7.0 | 2081.3 | 9.7 | 1907.4 |
| 668 | 2.415 | 13.8 | 1746.8 | 69.3 | 9.0 | 2090.8 | 11.4 | 1918.8 |
| 669 | 2.415 | 13.8 | 1760.6 | 71.0 | 10.3 | 2101.1 | 12.0 | 1930.9 |
| 670 | 2.430 | 12.3 | 1772.9 | 72.7 | 11.7 | 2112.8 | 12.0 | 1942.8 |
| 671 | 2.455 | 9.8 | 1782.8 | 73.1 | 12.0 | 2124.7 | 10.9 | 1953.7 |
| 672 | 2.490 | 6.4 | 1789.1 | 70.1 | 9.6 | 2134.3 | 8.0 | 1961.7 |
| 673 | 2.495 | 5.5 | 1795.0 | 66.3 | 6.7 | 2141.1 | 6.3 | 1968.0 |
| 674 | 2.505 | 4.9 | 1799.9 | 63.4 | 4.7 | 2145.8 | 4.8 | 1972.8 |
| 675 | 2.500 | 5.4 | 1805.2 | 62.5 | 4.0 | 2149.8 | 4.7 | 1977.5 |
| 676 | 2.495 | 5.5 | 1811.1 | 65.0 | 5.8 | 2155.6 | 5.8 | 1983.4 |
| 677 | 2.480 | 7.4 | 1818.5 | 65.5 | 6.2 | 2161.8 | 6.8 | 1990.1 |
| 678 | 2.490 | 6.4 | 1824.8 | 64.6 | 5.5 | 2167.3 | 5.5 | 1996.1 |
| 679 | 2.500 | 5.4 | 1830.2 | 66.7 | 7.0 | 2174.3 | 6.2 | 2002.3 |
| 680 | 2.495 | 5.5 | 1836.1 | 66.7 | 7.0 | 2181.4 | 6.5 | 2008.7 |
| 681 | 2.470 | 8.4 | 1844.5 | 65.9 | 6.5 | 2187.8 | 7.4 | 2016.1 |
| 682 | 2.440 | 11.3 | 1855.8 | 65.0 | 5.8 | 2193.9 | 8.6 | 2024.7 |
| 683 | 2.425 | 12.8 | 1868.6 | 65.9 | 6.5 | 2200.7 | 9.6 | 2034.3 |
| 684 | 2.430 | 12.3 | 1880.9 | 67.6 | 7.7 | 2207.8 | 10.0 | 2044.3 |
| 685 | 2.410 | 14.2 | 1895.1 | 70.1 | 9.6 | 2217.4 | 11.5 | 2056.2 |
| 686 | 2.370 | 18.1 | 1913.2 | 73.1 | 12.0 | 2229.4 | 15.0 | 2071.3 |
| 687 | 2.315 | 23.3 | 1936.5 | 76.5 | 14.8 | 2244.1 | 19.0 | 2090.3 |
| 688 | 2.260 | 28.3 | 1964.8 | 77.3 | 15.5 | 2259.6 | 21.9 | 2112.2 |
| 689 | 2.310 | 23.7 | 1988.5 | 77.3 | 15.5 | 2275.1 | 19.6 | 2121.8 |
| 690 | 2.400 | 19.2 | 2003.7 | 78.6 | 16.6 | 2291.5 | 15.9 | 2147.7 |
| 691 | 2.405 | 14.7 | 2018.4 | 79.4 | 17.3 | 2308.9 | 16.0 | 2163.7 |
| 692 | 2.405 | 14.7 | 2033.2 | 71.4 | 10.6 | 2319.5 | 12.7 | 2179.4 |
| 693 | 2.400 | 15.2 | 2048.6 | 74.8 | 13.4 | 2332.9 | 14.3 | 2192.6 |
| 694 | 2.370 | 18.1 | 2064.5 | 79.0 | 16.9 | 2349.9 | 17.5 | 2209.2 |
| 695 | 2.350 | 20.6 | 2081.5 | 79.3 | 17.6 | 2367.5 | 19.3 | 2227.2 |
| 696 | 2.350 | 20.6 | 2097.5 | 80.7 | 18.4 | 2385.9 | 20.1 | 2245.1 |
| 697 | 2.350 | 20.6 | 2113.5 | 82.7 | 21.1 | 2404.0 | 20.7 | 2263.1 |
| 698 | 2.348 | 20.6 | 2129.5 | 87.5 | 24.7 | 2421.3 | 21.5 | 2281.4 |
| 699 | 2.340 | 21.1 | 2145.2 | 85.2 | 23.5 | 2438.2 | 22.2 | 2299.7 |

K E R G E N A N A L Y S I S

FCR

THE CLEVELAND CLIFFS IRON COMPANY—WELL P-1

| DEPTH | DENSITY LOG | | | VELOCITY LOG | | | DENSITY AND VELOCITY | |
|-------|-------------|---------|--------------|--------------|---------|--------------|----------------------|--------------|
| | RHO-B | GAL/TON | ACCUM. YIELD | RHO-B | GAL/TON | ACCUM. YIELD | GAL/TON | ACCUM. YIELD |
| 700 | 2.330 | 21.5 | 2192.0 | 80.3 | 18.1 | 2473.3 | 20.0 | 2332.7 |
| 701 | 2.390 | 16.2 | 2208.2 | 78.6 | 16.6 | 2489.9 | 16.4 | 2349.0 |
| 702 | 2.465 | 8.9 | 2217.1 | 75.2 | 13.7 | 2503.6 | 11.3 | 2360.3 |
| 703 | 2.455 | 9.8 | 2226.9 | 69.3 | 9.0 | 2512.6 | 9.4 | 2369.7 |
| 704 | 2.450 | 10.3 | 2237.2 | 62.5 | 4.0 | 2516.6 | 7.2 | 2376.9 |
| 705 | 2.430 | 12.3 | 2249.5 | 63.8 | 5.0 | 2521.6 | 8.6 | 2385.6 |
| 706 | 2.425 | 12.8 | 2262.3 | 66.3 | 6.7 | 2528.3 | 9.8 | 2395.3 |
| 707 | 2.420 | 13.3 | 2275.6 | 67.6 | 7.7 | 2536.0 | 10.5 | 2405.8 |
| 708 | 2.530 | 2.3 | 2277.9 | 66.3 | 6.7 | 2542.8 | 4.5 | 2410.4 |
| 709 | 2.530 | 2.3 | 2280.3 | 65.0 | 5.8 | 2548.6 | 4.1 | 2414.4 |
| 710 | 2.495 | 5.9 | 2286.2 | 63.8 | 5.0 | 2553.5 | 5.4 | 2419.8 |
| 711 | 2.475 | 7.9 | 2294.0 | 65.5 | 6.2 | 2559.7 | 7.0 | 2426.9 |
| 712 | 2.445 | 10.8 | 2304.9 | 69.7 | 9.3 | 2569.0 | 10.1 | 2436.9 |
| 713 | 2.405 | 14.7 | 2319.6 | 75.6 | 14.0 | 2583.0 | 14.4 | 2451.3 |
| 714 | 2.355 | 19.5 | 2339.1 | 80.7 | 18.4 | 2601.4 | 19.0 | 2470.3 |
| 715 | 2.310 | 23.7 | 2362.8 | 83.7 | 21.1 | 2622.6 | 22.4 | 2492.7 |
| 716 | 2.250 | 29.2 | 2392.0 | 86.2 | 23.5 | 2646.1 | 26.4 | 2519.1 |
| 717 | 2.280 | 26.5 | 2418.5 | 87.0 | 24.3 | 2670.3 | 25.4 | 2544.4 |
| 718 | 2.325 | 22.3 | 2440.5 | 84.5 | 21.9 | 2692.2 | 22.1 | 2566.5 |
| 719 | 2.330 | 21.9 | 2462.7 | 79.4 | 17.3 | 2709.5 | 19.6 | 2586.1 |
| 720 | 2.285 | 26.0 | 2488.8 | 76.9 | 15.1 | 2724.6 | 20.6 | 2606.7 |
| 721 | 2.230 | 31.0 | 2519.8 | 82.8 | 20.3 | 2744.9 | 25.7 | 2632.4 |
| 722 | 2.180 | 35.5 | 2555.2 | 87.0 | 24.3 | 2769.2 | 29.9 | 2662.2 |
| 723 | 2.175 | 35.5 | 2591.1 | 92.5 | 29.7 | 2798.9 | 32.8 | 2695.0 |
| 724 | 2.185 | 35.0 | 2626.1 | 98.9 | 36.5 | 2835.3 | 35.7 | 2730.7 |
| 725 | 2.155 | 37.6 | 2663.8 | 102.7 | 40.7 | 2876.0 | 39.2 | 2769.9 |
| 726 | 2.125 | 40.2 | 2704.0 | 101.8 | 39.7 | 2915.7 | 39.9 | 2809.8 |
| 727 | 2.210 | 32.8 | 2736.8 | 98.9 | 36.5 | 2952.1 | 34.6 | 2844.5 |
| 728 | 2.315 | 23.3 | 2760.0 | 95.5 | 32.3 | 2985.0 | 28.0 | 2872.5 |
| 729 | 2.375 | 17.6 | 2777.7 | 90.8 | 28.0 | 3012.9 | 22.8 | 2895.3 |
| 730 | 2.400 | 15.2 | 2792.9 | 84.5 | 21.9 | 3034.8 | 18.5 | 2913.8 |
| 731 | 2.415 | 13.8 | 2806.6 | 77.3 | 15.5 | 3050.3 | 14.6 | 2928.5 |
| 732 | 2.405 | 14.7 | 2821.4 | 76.0 | 14.4 | 3064.6 | 14.5 | 2943.0 |
| 733 | 2.430 | 12.3 | 2833.7 | 76.0 | 14.4 | 3079.0 | 13.3 | 2956.3 |
| 734 | 2.440 | 11.3 | 2845.0 | 73.9 | 12.6 | 3091.8 | 12.0 | 2968.3 |
| 735 | 2.415 | 13.8 | 2858.7 | 71.8 | 10.9 | 3102.6 | 12.3 | 2980.7 |
| 736 | 2.395 | 15.7 | 2874.4 | 69.7 | 9.3 | 3111.9 | 12.5 | 2993.2 |
| 737 | 2.390 | 16.2 | 2890.6 | 68.9 | 8.7 | 3120.5 | 12.4 | 3005.6 |
| 738 | 2.385 | 16.7 | 2907.3 | 70.5 | 9.9 | 3130.5 | 13.3 | 3018.9 |
| 739 | 2.345 | 20.5 | 2927.7 | 70.5 | 9.9 | 3140.4 | 15.2 | 3034.1 |
| 740 | 2.290 | 25.6 | 2953.3 | 71.4 | 10.6 | 3151.0 | 18.1 | 3052.2 |
| 741 | 2.215 | 32.4 | 2985.7 | 80.7 | 18.4 | 3169.4 | 25.4 | 3077.5 |
| 742 | 2.135 | 39.4 | 3025.0 | 87.9 | 25.1 | 3194.5 | 32.2 | 3109.8 |
| 743 | 2.225 | 31.5 | 3056.5 | 93.4 | 30.6 | 3225.2 | 31.0 | 3140.8 |
| 744 | 2.245 | 29.7 | 3096.2 | 95.1 | 32.4 | 3257.6 | 31.0 | 3171.9 |
| 745 | 2.200 | 33.7 | 3110.8 | 91.3 | 28.5 | 3286.0 | 21.1 | 3202.9 |
| 746 | 2.220 | 32.4 | 3140.5 | 93.3 | 31.0 | 3317.1 | 35.6 | 3239.9 |
| 747 | 2.225 | 32.4 | 3170.9 | 97.2 | 34.6 | 3351.7 | 37.7 | 3277.9 |
| 748 | 2.225 | 32.4 | 3203.9 | 101.0 | 39.3 | 3390.5 | 42.7 | 3326.2 |
| 749 | 1.980 | 32.2 | 3303.0 | 108.2 | 47.1 | 3437.6 | 45.6 | 3371.8 |

K E R O G E N A N A L Y S I S

FCR

THE CLEVELAND CLIFFS IRON COMPANY-WELL P-1

| DEPTH | DENSITY LOG | | | VELOCITY LOG | | | DENSITY AND VELOCITY | |
|-------|-------------|---------|--------------|--------------|---------|--------------|----------------------|--------------|
| | RHO-B | GAL/TON | ACCUM. YIELD | RHO-B | GAL/TON | ACCUM. YIELD | GAL/TON | ACCUM. YIELD |
| 750 | 1.940 | 55.3 | 3361.4 | 114.5 | 54.8 | 3492.4 | 55.1 | 3426.9 |
| 751 | 1.855 | 61.8 | 3423.1 | 125.9 | 69.9 | 3562.3 | 65.9 | 3492.7 |
| 752 | 1.790 | 66.6 | 3489.7 | 129.8 | 75.4 | 3637.8 | 71.0 | 3563.7 |
| 753 | 1.765 | 68.3 | 3558.0 | 130.6 | 76.6 | 3714.4 | 72.5 | 3636.2 |
| 754 | 1.755 | 66.2 | 3624.2 | 130.2 | 76.0 | 3790.4 | 71.1 | 3707.3 |
| 755 | 1.880 | 59.5 | 3684.2 | 130.2 | 76.0 | 3866.4 | 68.0 | 3775.3 |
| 756 | 1.940 | 55.3 | 3739.5 | 122.6 | 65.4 | 3931.8 | 60.4 | 3825.6 |
| 757 | 2.000 | 50.6 | 3790.0 | 109.9 | 49.1 | 3980.9 | 49.8 | 3885.5 |
| 758 | 2.060 | 45.7 | 3835.7 | 106.9 | 45.5 | 4026.5 | 45.6 | 3931.1 |
| 759 | 2.100 | 42.3 | 3878.0 | 104.8 | 43.1 | 4069.6 | 42.7 | 3973.8 |
| 760 | 2.165 | 36.8 | 3914.8 | 95.1 | 32.4 | 4102.0 | 34.6 | 4008.4 |
| 761 | 2.125 | 40.2 | 3955.0 | 87.9 | 25.1 | 4127.1 | 32.7 | 4041.0 |
| 762 | 2.205 | 33.3 | 3988.3 | 90.0 | 27.2 | 4154.3 | 30.2 | 4071.3 |
| 763 | 2.205 | 33.3 | 4021.5 | 93.8 | 31.0 | 4185.3 | 32.1 | 4103.4 |
| 764 | 2.120 | 40.6 | 4062.1 | 93.8 | 31.0 | 4216.3 | 35.8 | 4135.2 |
| 765 | 2.040 | 47.3 | 4109.5 | 98.0 | 35.5 | 4251.8 | 41.4 | 4180.6 |
| 766 | 2.030 | 48.1 | 4157.6 | 101.4 | 39.2 | 4291.0 | 43.7 | 4224.3 |
| 767 | 2.130 | 29.8 | 4197.4 | 103.1 | 41.1 | 4332.2 | 40.5 | 4264.8 |
| 768 | 2.200 | 23.7 | 4231.1 | 104.8 | 43.1 | 4375.3 | 38.4 | 4302.2 |
| 769 | 2.230 | 21.0 | 4262.1 | 103.5 | 41.6 | 4416.8 | 36.3 | 4339.5 |
| 770 | 2.220 | 21.9 | 4294.0 | 98.0 | 35.5 | 4452.3 | 33.7 | 4372.2 |
| 771 | 2.225 | 21.5 | 4325.5 | 92.5 | 29.7 | 4482.0 | 30.6 | 4403.7 |
| 772 | 2.290 | 25.6 | 4351.0 | 89.6 | 26.8 | 4508.8 | 26.2 | 4429.5 |
| 773 | 2.295 | 25.1 | 4376.2 | 90.4 | 27.6 | 4536.4 | 26.3 | 4456.3 |
| 774 | 2.295 | 25.1 | 4401.3 | 90.4 | 27.6 | 4564.0 | 26.3 | 4482.6 |
| 775 | 2.285 | 26.0 | 4427.3 | 89.2 | 26.4 | 4590.4 | 26.2 | 4508.8 |
| 776 | 2.240 | 20.1 | 4457.4 | 87.0 | 24.3 | 4614.6 | 27.2 | 4536.0 |
| 777 | 2.230 | 21.0 | 4488.4 | 88.3 | 25.5 | 4640.1 | 28.3 | 4564.3 |
| 778 | 2.340 | 20.9 | 4509.4 | 87.9 | 25.1 | 4665.2 | 23.0 | 4587.3 |
| 779 | 2.370 | 18.1 | 4527.4 | 82.4 | 20.0 | 4685.2 | 19.0 | 4606.3 |
| 780 | 2.300 | 24.7 | 4552.1 | 78.6 | 16.6 | 4701.8 | 20.6 | 4626.9 |
| 781 | 2.260 | 28.3 | 4580.4 | 82.0 | 19.6 | 4721.4 | 24.0 | 4650.5 |
| 782 | 2.190 | 24.6 | 4615.0 | 86.2 | 23.5 | 4744.1 | 29.0 | 4679.5 |
| 783 | 2.185 | 35.0 | 4650.0 | 90.0 | 27.2 | 4772.1 | 31.1 | 4711.0 |
| 784 | 2.210 | 22.8 | 4682.8 | 92.5 | 29.7 | 4801.1 | 31.3 | 4742.3 |
| 785 | 2.245 | 29.7 | 4712.5 | 95.1 | 32.4 | 4834.1 | 31.0 | 4773.3 |
| 786 | 2.255 | 28.8 | 4741.3 | 97.2 | 34.6 | 4868.1 | 31.7 | 4805.0 |
| 787 | 2.240 | 30.1 | 4771.4 | 96.3 | 33.7 | 4902.4 | 31.9 | 4836.9 |
| 788 | 2.235 | 30.6 | 4801.9 | 93.8 | 31.0 | 4933.4 | 30.8 | 4867.7 |
| 789 | 2.265 | 27.9 | 4829.8 | 92.1 | 29.3 | 4962.7 | 28.6 | 4896.3 |
| 790 | 2.315 | 23.3 | 4853.1 | 91.3 | 28.5 | 4991.2 | 25.9 | 4922.1 |
| 791 | 2.355 | 19.5 | 4872.6 | 87.9 | 25.1 | 5016.3 | 22.3 | 4944.4 |
| 792 | 2.365 | 18.6 | 4891.1 | 83.7 | 21.1 | 5037.4 | 19.9 | 4964.3 |
| 793 | 2.380 | 17.1 | 4908.3 | 82.4 | 20.0 | 5057.4 | 18.5 | 4982.8 |
| 794 | 2.380 | 17.1 | 4925.4 | 80.3 | 18.1 | 5075.5 | 17.6 | 5000.4 |
| 795 | 2.350 | 20.0 | 4945.4 | 76.0 | 15.1 | 5090.6 | 17.6 | 5000.4 |
| 796 | 2.340 | 20.5 | 4966.3 | 75.6 | 14.0 | 5104.6 | 17.5 | 5000.4 |
| 797 | 2.330 | 17.1 | 4982.4 | 74.4 | 13.0 | 5117.5 | 15.1 | 5000.4 |
| 798 | 2.325 | 17.1 | 4997.2 | 73.1 | 12.0 | 5129.6 | 12.4 | 5000.4 |
| 799 | 2.325 | 12.8 | 5009.0 | 71.4 | 10.6 | 5140.2 | 11.7 | 5000.4 |

K E R O G E N A N A L Y S I S

FOR

THE CLEVELAND CLIFFS IRON COMPANY-WELL P-1

| DEPTH | DENSITY LOG | | | VELOCITY LOG | | | DENSITY AND VELOCITY | |
|-------|-------------|---------|--------------|--------------|---------|--------------|----------------------|--------------|
| | RHO-B | GAL/TON | ACCUM. YIELD | RHO-B | GAL/TON | ACCUM. YIELD | GAL/TON | ACCUM. YIELD |
| 800 | 2.415 | 13.8 | 5022.8 | 70.5 | 9.9 | 5150.1 | 11.8 | 5086.5 |
| 801 | 2.415 | 13.8 | 5036.5 | 70.1 | 9.6 | 5159.7 | 11.7 | 5098.1 |
| 802 | 2.400 | 15.2 | 5051.7 | 69.7 | 9.3 | 5169.0 | 12.3 | 5110.4 |
| 803 | 2.375 | 17.6 | 5065.3 | 74.4 | 13.0 | 5182.1 | 15.3 | 5125.7 |
| 804 | 2.365 | 18.6 | 5087.9 | 76.0 | 14.4 | 5196.4 | 16.5 | 5142.2 |
| 805 | 2.315 | 23.3 | 5111.2 | 71.8 | 10.9 | 5207.4 | 17.1 | 5159.3 |
| 806 | 2.295 | 25.1 | 5136.3 | 74.8 | 13.4 | 5220.7 | 19.2 | 5178.5 |
| 807 | 2.255 | 19.5 | 5155.8 | 78.2 | 16.2 | 5237.0 | 17.9 | 5196.4 |
| 808 | 2.360 | 19.0 | 5174.8 | 82.4 | 20.0 | 5256.9 | 19.5 | 5215.9 |
| 809 | 2.325 | 22.3 | 5197.1 | 81.5 | 19.1 | 5276.0 | 20.7 | 5236.6 |
| 810 | 2.270 | 27.4 | 5224.5 | 76.5 | 14.8 | 5290.8 | 21.1 | 5257.7 |
| 811 | 2.235 | 30.6 | 5255.1 | 78.6 | 16.6 | 5307.4 | 23.6 | 5281.3 |
| 812 | 2.375 | 17.6 | 5272.7 | 79.8 | 17.5 | 5325.0 | 17.6 | 5298.9 |
| 813 | 2.435 | 11.8 | 5284.5 | 76.0 | 14.4 | 5339.4 | 13.1 | 5312.0 |
| 814 | 2.435 | 11.8 | 5296.4 | 71.4 | 10.6 | 5350.0 | 11.2 | 5322.2 |
| 815 | 2.420 | 13.3 | 5309.6 | 69.7 | 9.3 | 5359.3 | 11.3 | 5334.5 |
| 816 | 2.385 | 16.7 | 5326.3 | 72.2 | 11.3 | 5370.6 | 14.0 | 5346.4 |
| 817 | 2.300 | 24.7 | 5350.9 | 72.2 | 11.3 | 5381.8 | 18.0 | 5366.4 |
| 818 | 2.275 | 27.0 | 5377.9 | 73.5 | 12.3 | 5394.1 | 19.6 | 5386.0 |
| 819 | 2.285 | 26.0 | 5403.9 | 75.6 | 14.0 | 5408.1 | 20.0 | 5406.0 |
| 820 | 2.330 | 21.9 | 5425.8 | 76.0 | 14.4 | 5422.5 | 18.1 | 5424.1 |
| 821 | 2.375 | 17.6 | 5443.4 | 74.8 | 13.4 | 5435.8 | 15.5 | 5439.6 |
| 822 | 2.425 | 12.8 | 5456.2 | 73.1 | 12.0 | 5447.8 | 12.4 | 5452.0 |
| 823 | 2.465 | 8.9 | 5465.0 | 71.0 | 10.3 | 5458.1 | 9.6 | 5461.6 |
| 824 | 2.485 | 6.9 | 5471.9 | 67.6 | 7.7 | 5465.8 | 7.3 | 5468.9 |
| 825 | 2.510 | 4.4 | 5476.3 | 66.3 | 6.7 | 5472.6 | 5.6 | 5474.4 |
| 826 | 2.525 | 2.8 | 5479.1 | 64.6 | 5.5 | 5478.1 | 4.2 | 5478.6 |
| 827 | 2.500 | 5.4 | 5484.5 | 64.6 | 5.5 | 5483.8 | 5.4 | 5484.0 |
| 828 | 2.495 | 5.9 | 5490.3 | 65.0 | 5.8 | 5489.4 | 5.8 | 5489.9 |
| 829 | 2.490 | 6.4 | 5496.7 | 65.9 | 6.5 | 5495.9 | 6.4 | 5496.3 |
| 830 | 2.490 | 6.4 | 5503.1 | 65.9 | 6.5 | 5502.3 | 6.4 | 5502.7 |
| 831 | 2.490 | 6.4 | 5509.4 | 65.9 | 6.5 | 5508.1 | 6.4 | 5509.1 |
| 832 | 2.490 | 6.4 | 5515.8 | 65.9 | 6.5 | 5514.1 | 6.4 | 5515.5 |
| 833 | 2.480 | 7.4 | 5523.2 | 65.9 | 6.5 | 5520.1 | 6.5 | 5522.4 |
| 834 | 2.440 | 11.3 | 5534.5 | 65.5 | 6.2 | 5526.1 | 8.7 | 5531.2 |
| 835 | 2.425 | 12.8 | 5547.3 | 65.5 | 6.2 | 5532.1 | 9.5 | 5540.6 |
| 836 | 2.405 | 14.7 | 5562.0 | 64.5 | 5.5 | 5538.1 | 10.1 | 5550.8 |
| 837 | 2.380 | 17.1 | 5579.1 | 63.8 | 5.0 | 5544.5 | 11.0 | 5561.8 |
| 838 | 2.360 | 17.1 | 5596.3 | 63.4 | 4.7 | 5549.1 | 10.9 | 5572.7 |
| 839 | 2.390 | 16.2 | 5612.4 | 63.4 | 4.7 | 5553.8 | 10.4 | 5583.1 |
| 840 | 2.405 | 14.7 | 5627.2 | 63.4 | 4.7 | 5558.5 | 9.7 | 5593.5 |
| 841 | 2.405 | 14.7 | 5641.9 | 63.4 | 4.7 | 5563.1 | 9.7 | 5603.5 |
| 842 | 2.440 | 11.2 | 5652.2 | 63.4 | 4.7 | 5567.8 | 8.0 | 5613.5 |
| 843 | 2.440 | 11.3 | 5664.5 | 63.4 | 4.7 | 5572.5 | 8.0 | 5623.5 |
| 844 | 2.440 | 11.3 | 5675.9 | 63.4 | 4.7 | 5577.1 | 8.0 | 5633.5 |
| 845 | 2.440 | 11.3 | 5687.2 | 62.9 | 4.3 | 5581.5 | 7.8 | 5643.0 |
| 846 | 2.440 | 11.3 | 5698.5 | 62.5 | 4.1 | 5585.5 | 6.7 | 5652.0 |
| 847 | 2.440 | 11.3 | 5709.8 | 62.1 | 4.1 | 5589.5 | 6.6 | 5661.0 |
| 848 | 2.440 | 11.3 | 5721.1 | 61.2 | 3.9 | 5593.5 | 6.6 | 5670.0 |
| 849 | 2.440 | 11.3 | 5732.4 | 61.2 | 3.9 | 5597.5 | 6.6 | 5679.0 |
| 850 | 2.440 | 11.3 | 5743.7 | 61.2 | 3.9 | 5601.5 | 6.6 | 5688.0 |

K E R N A N A L Y S I S

FCR

THE CLEVELAND CLIFFS IRON COMPANY - WELL P-1

| DEPTH | DENSITY LOG | | | VELOCITY LOG | | | DENSITY AND VELOCITY | |
|-------|-------------|---------|--------------|--------------|---------|--------------|----------------------|--------------|
| | RHO-B | GAL/TON | ACCLM. YIELD | RHO-B | GAL/TON | ACCLM. YIELD | GAL/TON | ACCLM. YIELD |
| 850 | 2.490 | 6.4 | 5723.0 | 60.8 | 2.9 | 5598.5 | 4.6 | 5660.7 |
| 851 | 2.490 | 6.4 | 5725.4 | 60.4 | 2.6 | 5601.1 | 4.5 | 5665.2 |
| 852 | 2.485 | 6.9 | 5736.3 | 60.4 | 2.6 | 5603.7 | 4.7 | 5670.0 |
| 853 | 2.485 | 6.9 | 5743.1 | 60.4 | 2.6 | 5606.3 | 4.7 | 5674.7 |
| 854 | 2.480 | 7.4 | 5750.5 | 60.8 | 2.9 | 5609.2 | 5.1 | 5679.9 |
| 855 | 2.470 | 8.4 | 5758.9 | 60.8 | 2.9 | 5612.1 | 5.6 | 5685.5 |
| 856 | 2.470 | 8.4 | 5767.2 | 61.2 | 3.2 | 5615.3 | 5.8 | 5691.2 |
| 857 | 2.475 | 7.9 | 5775.1 | 61.7 | 3.5 | 5618.8 | 5.7 | 5696.9 |
| 858 | 2.470 | 8.4 | 5783.4 | 62.9 | 4.3 | 5623.1 | 6.3 | 5703.3 |
| 859 | 2.450 | 10.3 | 5793.8 | 64.2 | 5.2 | 5628.3 | 7.8 | 5711.1 |
| 860 | 2.475 | 7.9 | 5801.7 | 64.2 | 5.2 | 5633.5 | 6.6 | 5717.6 |
| 861 | 2.510 | 4.4 | 5806.0 | 63.4 | 4.7 | 5638.2 | 4.5 | 5722.1 |
| 862 | 2.510 | 4.4 | 5810.4 | 62.1 | 3.8 | 5642.0 | 4.1 | 5726.2 |
| 863 | 2.485 | 6.9 | 5817.2 | 62.5 | 4.0 | 5646.0 | 5.5 | 5731.6 |
| 864 | 2.450 | 10.3 | 5827.6 | 65.0 | 5.8 | 5651.8 | 8.1 | 5739.7 |
| 865 | 2.385 | 16.7 | 5844.2 | 66.7 | 7.0 | 5658.9 | 11.8 | 5751.6 |
| 866 | 2.350 | 20.0 | 5864.2 | 70.5 | 9.9 | 5668.8 | 14.9 | 5766.5 |
| 867 | 2.320 | 22.8 | 5887.0 | 75.6 | 14.0 | 5682.8 | 18.4 | 5784.9 |
| 868 | 2.255 | 28.8 | 5915.8 | 80.3 | 18.1 | 5700.9 | 23.4 | 5808.3 |
| 869 | 2.245 | 25.7 | 5945.5 | 82.0 | 19.6 | 5720.4 | 24.6 | 5823.0 |
| 870 | 2.295 | 25.1 | 5970.6 | 84.9 | 22.3 | 5742.7 | 23.7 | 5856.6 |
| 871 | 2.405 | 14.7 | 5985.3 | 86.2 | 23.5 | 5766.2 | 19.1 | 5875.8 |
| 872 | 2.400 | 15.2 | 6000.5 | 84.1 | 21.5 | 5787.7 | 18.4 | 5894.1 |
| 873 | 2.365 | 18.6 | 6019.1 | 84.1 | 21.5 | 5809.2 | 20.0 | 5914.2 |
| 874 | 2.285 | 26.0 | 6045.1 | 84.1 | 21.5 | 5830.7 | 23.8 | 5937.9 |
| 875 | 2.380 | 17.1 | 6062.2 | 82.8 | 20.3 | 5851.1 | 18.7 | 5956.6 |
| 876 | 2.455 | 9.8 | 6072.1 | 81.5 | 19.1 | 5871.1 | 14.5 | 5971.1 |
| 877 | 2.480 | 7.4 | 6079.4 | 76.9 | 15.1 | 5889.4 | 11.2 | 5982.4 |
| 878 | 2.475 | 7.9 | 6087.3 | 72.7 | 11.7 | 5899.4 | 9.8 | 5992.1 |
| 879 | 2.460 | 9.4 | 6096.7 | 73.1 | 12.0 | 5909.4 | 10.7 | 6002.8 |
| 880 | 2.460 | 9.4 | 6106.0 | 73.1 | 12.0 | 5920.4 | 10.7 | 6013.5 |
| 881 | 2.485 | 6.9 | 6112.9 | 71.0 | 10.3 | 5930.4 | 8.6 | 6022.1 |
| 882 | 2.500 | 5.4 | 6118.2 | 68.4 | 8.3 | 5939.4 | 6.8 | 6028.9 |
| 883 | 2.500 | 5.4 | 6123.6 | 66.3 | 6.7 | 5949.4 | 6.1 | 6034.9 |
| 884 | 2.510 | 4.4 | 6128.0 | 65.5 | 6.2 | 5959.4 | 5.3 | 6040.2 |
| 885 | 2.515 | 3.9 | 6131.8 | 65.0 | 5.8 | 5969.4 | 4.8 | 6045.0 |
| 886 | 2.510 | 4.4 | 6136.2 | 65.0 | 5.8 | 5979.4 | 5.1 | 6050.1 |
| 887 | 2.500 | 5.4 | 6141.6 | 66.3 | 6.7 | 5989.4 | 6.1 | 6056.2 |
| 888 | 2.480 | 7.4 | 6148.9 | 68.4 | 8.3 | 5999.4 | 7.8 | 6064.0 |
| 889 | 2.470 | 8.4 | 6157.3 | 71.0 | 10.3 | 6009.4 | 9.3 | 6073.3 |
| 890 | 2.465 | 8.9 | 6166.1 | 71.4 | 10.6 | 6000.0 | 9.7 | 6083.1 |
| 891 | 2.450 | 10.3 | 6176.5 | 71.8 | 10.7 | 6010.9 | 10.6 | 6093.7 |
| 892 | 2.420 | 12.3 | 6186.8 | 73.1 | 12.0 | 6022.9 | 12.6 | 6106.3 |
| 893 | 2.395 | 15.7 | 6205.4 | 75.2 | 13.7 | 6036.6 | 14.7 | 6121.0 |
| 894 | 2.470 | 8.4 | 6213.8 | 76.5 | 14.8 | 6051.4 | 11.6 | 6132.6 |
| 895 | 2.490 | 6.4 | 6220.2 | 74.8 | 13.4 | 6064.7 | 9.9 | 6142.5 |
| 896 | 2.450 | 10.3 | 6230.5 | 72.2 | 11.3 | 6076.0 | 10.8 | 6153.3 |
| 897 | 2.425 | 11.3 | 6242.3 | 72.2 | 11.3 | 6087.2 | 11.5 | 6164.2 |
| 898 | 2.420 | 12.3 | 6255.6 | 73.9 | 12.6 | 6099.9 | 12.9 | 6177.7 |
| 899 | 2.410 | 14.2 | 6269.9 | 73.9 | 12.6 | 6112.5 | 13.4 | 6191.2 |

K E R C G E N A N A L Y S I S

FCR

THE CLEVELAND CLIFFS IRON COMPANY--WELL P-1

| DEPTH | DENSITY LOG | | | VELOCITY LOG | | | DENSITY AND VELOCITY | |
|-------|-------------|---------|--------------|--------------|---------|--------------|----------------------|--------------|
| | RHO-B | GAL/TON | ACCUM. YIELD | RHO-B | GAL/TON | ACCUM. YIELD | GAL/TON | ACCUM. YIELD |
| 900 | 2.400 | 15.2 | 6285.1 | 72.7 | 11.7 | 6124.1 | 13.4 | 6204.6 |
| 901 | 2.370 | 18.1 | 6303.1 | 75.6 | 14.0 | 6138.1 | 16.1 | 6220.7 |
| 902 | 2.355 | 19.5 | 6322.7 | 78.6 | 16.6 | 6154.7 | 18.0 | 6238.7 |
| 903 | 2.325 | 22.3 | 6345.0 | 78.6 | 16.6 | 6171.3 | 19.5 | 6258.2 |
| 904 | 2.280 | 26.5 | 6371.5 | 79.0 | 16.9 | 6188.2 | 21.7 | 6275.9 |
| 905 | 2.365 | 18.6 | 6390.0 | 78.6 | 16.6 | 6204.8 | 17.6 | 6297.4 |
| 906 | 2.335 | 21.4 | 6411.4 | 79.0 | 16.9 | 6221.7 | 19.2 | 6316.6 |
| 907 | 2.210 | 22.8 | 6444.2 | 82.4 | 20.0 | 6241.7 | 26.4 | 6343.0 |
| 908 | 2.180 | 35.5 | 6479.7 | 85.3 | 22.6 | 6264.3 | 29.0 | 6372.0 |
| 909 | 2.185 | 35.0 | 6514.7 | 89.2 | 26.4 | 6290.7 | 30.7 | 6402.7 |
| 910 | 2.250 | 29.2 | 6543.9 | 92.5 | 29.7 | 6320.4 | 29.5 | 6432.2 |
| 911 | 2.280 | 26.5 | 6570.4 | 93.8 | 31.0 | 6351.4 | 28.8 | 6460.5 |
| 912 | 2.260 | 28.3 | 6598.7 | 87.9 | 25.1 | 6376.6 | 26.7 | 6487.7 |
| 913 | 2.280 | 26.5 | 6625.2 | 80.3 | 18.1 | 6394.6 | 22.3 | 6509.9 |
| 914 | 2.395 | 15.7 | 6640.9 | 78.6 | 16.6 | 6411.2 | 16.1 | 6526.1 |
| 915 | 2.425 | 11.8 | 6652.7 | 76.5 | 14.8 | 6426.0 | 13.3 | 6539.4 |
| 916 | 2.430 | 12.2 | 6665.0 | 71.8 | 10.9 | 6436.9 | 11.6 | 6551.0 |
| 917 | 2.350 | 20.0 | 6685.0 | 71.0 | 10.3 | 6447.2 | 15.1 | 6566.1 |
| 918 | 2.320 | 22.8 | 6707.8 | 76.5 | 14.8 | 6462.0 | 16.8 | 6584.9 |
| 919 | 2.280 | 26.5 | 6734.3 | 82.8 | 20.3 | 6482.3 | 23.4 | 6608.3 |
| 920 | 2.255 | 28.8 | 6763.1 | 89.2 | 26.4 | 6508.7 | 27.6 | 6635.9 |
| 921 | 2.330 | 21.9 | 6784.9 | 90.4 | 27.6 | 6536.3 | 24.7 | 6660.6 |
| 922 | 2.315 | 23.3 | 6808.2 | 88.3 | 25.5 | 6561.8 | 24.4 | 6685.0 |
| 923 | 2.335 | 21.4 | 6829.6 | 84.9 | 22.3 | 6584.1 | 21.8 | 6706.8 |
| 924 | 2.375 | 17.6 | 6847.2 | 82.8 | 20.3 | 6604.4 | 19.0 | 6725.8 |
| 925 | 2.335 | 21.4 | 6868.6 | 85.3 | 22.6 | 6627.0 | 22.0 | 6747.8 |
| 926 | 2.280 | 26.5 | 6895.1 | 85.3 | 22.6 | 6649.8 | 24.6 | 6772.4 |
| 927 | 2.280 | 26.5 | 6921.6 | 84.5 | 21.9 | 6671.5 | 24.2 | 6796.5 |
| 928 | 2.385 | 16.7 | 6938.2 | 80.7 | 18.4 | 6690.8 | 17.5 | 6814.1 |
| 929 | 2.435 | 11.8 | 6950.0 | 77.7 | 15.8 | 6705.8 | 13.8 | 6827.9 |
| 930 | 2.435 | 11.8 | 6961.8 | 74.8 | 13.4 | 6719.1 | 12.6 | 6840.5 |
| 931 | 2.415 | 13.8 | 6975.6 | 73.5 | 12.3 | 6731.1 | 13.0 | 6853.5 |
| 932 | 2.335 | 21.4 | 6997.0 | 79.8 | 17.6 | 6749.1 | 19.5 | 6873.0 |
| 933 | 2.245 | 29.7 | 7026.7 | 84.1 | 21.5 | 6770.1 | 25.6 | 6898.6 |
| 934 | 2.225 | 31.5 | 7058.1 | 89.2 | 26.4 | 6790.1 | 28.9 | 6927.5 |
| 935 | 2.300 | 24.7 | 7082.8 | 91.3 | 28.5 | 6825.1 | 26.6 | 6954.1 |
| 936 | 2.335 | 21.4 | 7104.2 | 90.4 | 27.6 | 6853.1 | 24.5 | 6978.6 |
| 937 | 2.325 | 21.4 | 7125.6 | 86.6 | 23.9 | 6876.8 | 22.6 | 7001.2 |
| 938 | 2.350 | 20.0 | 7145.6 | 82.4 | 20.0 | 6896.8 | 20.0 | 7021.2 |
| 939 | 2.440 | 11.3 | 7156.9 | 78.2 | 16.2 | 6913.1 | 13.8 | 7034.9 |
| 940 | 2.435 | 11.8 | 7168.7 | 73.1 | 12.0 | 6925.0 | 11.9 | 7046.8 |
| 941 | 2.430 | 12.3 | 7181.0 | 70.1 | 9.6 | 6934.6 | 11.0 | 7057.8 |
| 942 | 2.405 | 14.7 | 7195.7 | 72.2 | 11.3 | 6945.9 | 13.0 | 7070.8 |
| 943 | 2.385 | 16.7 | 7212.4 | 74.4 | 13.0 | 6958.9 | 14.8 | 7085.6 |
| 944 | 2.385 | 16.7 | 7229.0 | 76.5 | 14.8 | 6973.7 | 15.7 | 7101.3 |
| 945 | 2.385 | 16.7 | 7245.7 | 77.7 | 15.8 | 6989.5 | 16.2 | 7117.6 |
| 946 | 2.385 | 16.7 | 7262.2 | 78.6 | 16.6 | 7006.1 | 16.9 | 7134.4 |
| 947 | 2.385 | 16.7 | 7278.7 | 78.6 | 16.6 | 7022.7 | 16.9 | 7151.3 |
| 948 | 2.400 | 15.2 | 7295.1 | 78.2 | 16.2 | 7038.9 | 15.7 | 7167.0 |
| 949 | 2.425 | 12.8 | 7307.5 | 76.5 | 14.8 | 7053.7 | 12.8 | 7180.8 |

K E R C G E A A N A L Y S I S

FCR

THE CLEVELAND CLIFFS IRON COMPANY-WELL P-1

| DEPTH | DENSITY LOG | | | VELOCITY LOG | | | DENSITY AND VELOCITY | |
|-------|-------------|---------|--------------|--------------|---------|--------------|----------------------|--------------|
| | RHO-B | GAL/TON | ACCUM. YIELD | RHO-B | GAL/TON | ACCUM. YIELD | GAL/TON | ACCUM. YIELD |
| 950 | 2.460 | 9.4 | 7317.3 | 74.8 | 13.4 | 7067.0 | 11.4 | 7192.1 |
| 951 | 2.450 | 10.3 | 7327.6 | 71.0 | 10.3 | 7077.3 | 10.3 | 7202.5 |
| 952 | 2.445 | 10.8 | 7338.5 | 68.9 | 8.7 | 7086.0 | 9.8 | 7212.2 |
| 953 | 2.400 | 15.2 | 7353.7 | 74.4 | 13.0 | 7099.0 | 14.1 | 7226.3 |
| 954 | 2.365 | 18.6 | 7372.2 | 78.6 | 16.6 | 7115.6 | 17.6 | 7243.9 |
| 955 | 2.290 | 25.6 | 7397.8 | 79.0 | 16.9 | 7132.6 | 21.3 | 7265.2 |
| 956 | 2.290 | 25.6 | 7423.4 | 78.6 | 16.6 | 7149.1 | 21.1 | 7286.2 |
| 957 | 2.420 | 13.3 | 7436.6 | 78.6 | 16.6 | 7165.7 | 14.9 | 7301.2 |
| 958 | 2.460 | 9.4 | 7446.0 | 74.8 | 13.4 | 7179.1 | 11.4 | 7312.5 |
| 959 | 2.460 | 9.4 | 7455.3 | 70.5 | 9.9 | 7189.0 | 9.6 | 7322.1 |
| 960 | 2.455 | 9.8 | 7465.2 | 69.7 | 9.3 | 7198.3 | 9.6 | 7331.7 |
| 961 | 2.430 | 12.3 | 7477.5 | 75.2 | 13.7 | 7212.0 | 13.0 | 7344.7 |
| 962 | 2.400 | 15.2 | 7492.7 | 77.3 | 15.5 | 7227.4 | 15.3 | 7360.0 |
| 963 | 2.350 | 20.0 | 7512.7 | 77.3 | 15.5 | 7242.9 | 17.7 | 7377.8 |
| 964 | 2.330 | 21.9 | 7534.5 | 77.3 | 15.5 | 7258.3 | 18.7 | 7396.4 |
| 965 | 2.410 | 14.2 | 7548.8 | 75.6 | 14.0 | 7272.4 | 14.1 | 7410.6 |
| 966 | 2.440 | 11.3 | 7560.1 | 71.8 | 10.9 | 7283.3 | 11.1 | 7421.7 |
| 967 | 2.425 | 12.8 | 7572.9 | 66.3 | 6.7 | 7290.0 | 9.8 | 7431.4 |
| 968 | 2.415 | 13.8 | 7586.7 | 64.2 | 5.2 | 7295.3 | 9.5 | 7440.9 |
| 969 | 2.370 | 18.1 | 7604.7 | 71.4 | 10.6 | 7305.9 | 14.4 | 7455.3 |
| 970 | 2.245 | 29.7 | 7634.4 | 79.4 | 17.3 | 7323.2 | 23.5 | 7478.8 |
| 971 | 2.215 | 32.4 | 7666.8 | 87.5 | 24.7 | 7347.9 | 28.5 | 7507.3 |
| 972 | 2.205 | 33.3 | 7700.0 | 92.1 | 29.3 | 7377.2 | 31.3 | 7528.6 |
| 973 | 2.230 | 31.0 | 7731.0 | 92.5 | 29.7 | 7406.9 | 30.4 | 7568.9 |
| 974 | 2.265 | 18.6 | 7749.6 | 87.9 | 25.1 | 7432.0 | 21.8 | 7590.8 |
| 975 | 2.460 | 9.4 | 7758.9 | 82.4 | 20.0 | 7451.9 | 14.7 | 7605.4 |
| 976 | 2.480 | 7.4 | 7766.3 | 76.9 | 15.1 | 7467.0 | 11.2 | 7616.7 |
| 977 | 2.485 | 6.9 | 7773.2 | 71.8 | 10.9 | 7477.0 | 8.9 | 7625.6 |
| 978 | 2.500 | 5.4 | 7778.6 | 69.3 | 9.0 | 7487.0 | 7.2 | 7632.8 |
| 979 | 2.490 | 6.4 | 7784.9 | 68.9 | 8.7 | 7497.0 | 7.5 | 7640.3 |
| 980 | 2.460 | 9.4 | 7794.3 | 70.1 | 9.6 | 7507.0 | 9.5 | 7649.8 |
| 981 | 2.460 | 9.4 | 7803.6 | 71.0 | 10.3 | 7517.0 | 9.8 | 7659.6 |
| 982 | 2.485 | 6.9 | 7810.5 | 71.4 | 10.6 | 7527.0 | 8.7 | 7668.3 |
| 983 | 2.490 | 6.4 | 7816.9 | 71.8 | 10.9 | 7537.0 | 8.7 | 7677.0 |
| 984 | 2.490 | 6.4 | 7823.2 | 72.2 | 11.3 | 7547.0 | 8.8 | 7685.8 |
| 985 | 2.485 | 6.9 | 7830.1 | 71.8 | 10.9 | 7557.0 | 8.9 | 7694.7 |
| 986 | 2.475 | 7.9 | 7838.0 | 71.4 | 10.6 | 7567.0 | 9.2 | 7703.5 |
| 987 | 2.460 | 9.4 | 7847.3 | 70.5 | 9.9 | 7579.8 | 9.6 | 7712.6 |
| 988 | 2.460 | 9.4 | 7856.7 | 69.7 | 9.3 | 7589.1 | 9.3 | 7722.5 |
| 989 | 2.460 | 9.4 | 7866.0 | 69.7 | 9.3 | 7598.4 | 9.3 | 7732.2 |
| 990 | 2.455 | 9.8 | 7875.9 | 69.3 | 9.0 | 7607.4 | 9.4 | 7741.6 |
| 991 | 2.445 | 10.3 | 7885.7 | 69.3 | 9.0 | 7616.4 | 9.9 | 7751.6 |
| 992 | 2.435 | 11.8 | 7898.5 | 68.9 | 8.7 | 7625.1 | 10.2 | 7761.8 |
| 993 | 2.435 | 11.8 | 7910.3 | 68.0 | 8.0 | 7633.1 | 9.9 | 7771.7 |
| 994 | 2.440 | 11.3 | 7921.7 | 67.6 | 7.7 | 7640.8 | 9.5 | 7781.2 |
| 995 | 2.460 | 9.4 | 7931.0 | 66.7 | 7.0 | 7647.8 | 8.2 | 7791.4 |
| 996 | 2.460 | 7.4 | 7939.4 | 65.9 | 6.5 | 7654.3 | 6.9 | 7801.3 |
| 997 | 2.460 | 7.4 | 7947.7 | 65.5 | 6.2 | 7660.5 | 6.6 | 7811.0 |
| 998 | 2.460 | 7.4 | 7956.0 | 65.5 | 6.2 | 7666.7 | 6.6 | 7820.7 |
| 999 | 2.460 | 7.4 | 7964.3 | 67.2 | 7.4 | 7674.3 | 7.4 | 7830.4 |

K E R O G E N A N A L Y S I S

FCR

THE CLEVELAND CLIFFS IRON COMPANY--WELL P-1

| DEPTH | DENSITY LOG | | | VELOCITY LOG | | | DENSITY AND VELOCITY | |
|-------|-------------|---------|--------------|--------------|---------|--------------|----------------------|--------------|
| | RHO-B | GAL/TON | ACCUM. YIELD | RHO-B | GAL/TON | ACCUM. YIELD | GAL/TON | ACCUM. YIELD |
| 1000 | 2.475 | 7.9 | 7968.3 | 68.0 | 8.0 | 7682.3 | 7.9 | 7825.3 |
| 1001 | 2.470 | 8.4 | 7976.7 | 69.7 | 9.3 | 7691.6 | 8.8 | 7834.1 |
| 1002 | 2.445 | 10.8 | 7987.5 | 71.0 | 10.3 | 7701.9 | 10.6 | 7844.7 |
| 1003 | 2.440 | 11.3 | 7998.9 | 71.4 | 10.6 | 7712.5 | 11.0 | 7855.7 |
| 1004 | 2.435 | 11.8 | 8010.7 | 71.8 | 10.9 | 7723.5 | 11.4 | 7867.1 |
| 1005 | 2.420 | 13.3 | 8023.9 | 71.8 | 10.9 | 7734.4 | 12.1 | 7879.2 |
| 1006 | 2.415 | 13.8 | 8037.7 | 71.8 | 10.9 | 7745.3 | 12.3 | 7891.5 |
| 1007 | 2.415 | 13.8 | 8051.5 | 71.8 | 10.9 | 7756.3 | 12.3 | 7903.9 |
| 1008 | 2.425 | 12.8 | 8064.3 | 71.4 | 10.6 | 7766.9 | 11.7 | 7915.6 |
| 1009 | 2.425 | 12.8 | 8077.0 | 70.1 | 9.6 | 7776.5 | 11.2 | 7926.8 |
| 1010 | 2.425 | 12.8 | 8089.8 | 69.3 | 9.0 | 7785.5 | 10.9 | 7937.6 |
| 1011 | 2.440 | 11.3 | 8101.1 | 68.4 | 8.3 | 7793.8 | 9.8 | 7947.5 |
| 1012 | 2.455 | 9.8 | 8111.0 | 67.6 | 7.7 | 7801.5 | 8.8 | 7956.2 |
| 1013 | 2.455 | 9.8 | 8120.8 | 65.9 | 6.5 | 7807.9 | 8.2 | 7964.4 |
| 1014 | 2.435 | 11.8 | 8132.6 | 66.7 | 7.0 | 7815.0 | 9.4 | 7973.8 |
| 1015 | 2.425 | 12.8 | 8145.4 | 69.3 | 9.0 | 7824.0 | 10.9 | 7984.7 |
| 1016 | 2.395 | 15.7 | 8161.1 | 71.4 | 10.6 | 7834.6 | 13.2 | 7997.8 |
| 1017 | 2.375 | 17.6 | 8178.7 | 74.8 | 13.4 | 7847.9 | 15.5 | 8013.3 |
| 1018 | 2.375 | 17.6 | 8196.3 | 78.6 | 16.6 | 7864.5 | 17.1 | 8030.4 |
| 1019 | 2.380 | 17.1 | 8213.5 | 82.0 | 19.6 | 7884.1 | 18.4 | 8048.8 |
| 1020 | 2.400 | 15.2 | 8228.7 | 81.1 | 18.8 | 7902.9 | 17.0 | 8065.8 |
| 1021 | 2.430 | 12.3 | 8241.0 | 79.4 | 17.3 | 7920.2 | 14.8 | 8080.6 |
| 1022 | 2.445 | 10.8 | 8251.8 | 75.6 | 14.0 | 7934.2 | 12.4 | 8093.0 |
| 1023 | 2.445 | 10.8 | 8262.6 | 73.5 | 12.3 | 7946.5 | 11.6 | 8104.6 |
| 1024 | 2.445 | 10.8 | 8273.5 | 72.2 | 11.3 | 7957.7 | 11.0 | 8115.6 |
| 1025 | 2.440 | 11.3 | 8284.8 | 71.4 | 10.6 | 7968.8 | 11.0 | 8126.6 |
| 1026 | 2.460 | 9.4 | 8294.2 | 71.4 | 10.6 | 7979.9 | 10.0 | 8136.5 |
| 1027 | 2.460 | 9.4 | 8303.5 | 71.0 | 10.3 | 7989.9 | 9.8 | 8146.4 |
| 1028 | 2.445 | 10.8 | 8314.3 | 71.4 | 10.6 | 7999.9 | 10.7 | 8157.1 |
| 1029 | 2.430 | 12.3 | 8326.6 | 72.2 | 11.3 | 8011.1 | 11.8 | 8168.9 |
| 1030 | 2.420 | 13.3 | 8339.9 | 73.1 | 12.0 | 8022.2 | 12.6 | 8181.5 |
| 1031 | 2.425 | 12.8 | 8352.7 | 73.1 | 12.0 | 8033.3 | 12.4 | 8193.9 |
| 1032 | 2.415 | 13.8 | 8366.5 | 73.1 | 12.0 | 8044.4 | 12.9 | 8206.7 |
| 1033 | 2.410 | 14.2 | 8380.7 | 73.9 | 12.6 | 8055.5 | 13.4 | 8220.2 |
| 1034 | 2.385 | 16.7 | 8397.3 | 76.9 | 15.1 | 8071.1 | 15.9 | 8236.1 |
| 1035 | 2.325 | 22.3 | 8419.7 | 79.0 | 16.9 | 8091.1 | 19.6 | 8255.7 |
| 1036 | 2.285 | 26.0 | 8445.7 | 82.4 | 20.0 | 8111.1 | 23.0 | 8278.7 |
| 1037 | 2.265 | 27.9 | 8473.6 | 84.5 | 21.9 | 8131.1 | 24.9 | 8303.6 |
| 1038 | 2.325 | 22.3 | 8495.9 | 84.5 | 21.9 | 8151.1 | 22.1 | 8325.7 |
| 1039 | 2.355 | 19.5 | 8515.4 | 84.9 | 22.3 | 8171.1 | 20.9 | 8346.5 |
| 1040 | 2.340 | 20.9 | 8536.3 | 82.0 | 19.6 | 8197.3 | 20.3 | 8366.8 |
| 1041 | 2.325 | 21.4 | 8557.7 | 82.4 | 20.0 | 8217.3 | 20.7 | 8387.5 |
| 1042 | 2.360 | 19.0 | 8576.8 | 83.7 | 21.1 | 8238.4 | 20.1 | 8407.6 |
| 1043 | 2.345 | 20.5 | 8597.2 | 81.1 | 18.8 | 8257.2 | 19.6 | 8427.2 |
| 1044 | 2.315 | 23.9 | 8620.5 | 80.3 | 18.1 | 8275.2 | 20.7 | 8447.8 |
| 1045 | 2.315 | 23.9 | 8643.7 | 80.7 | 18.4 | 8293.7 | 20.8 | 8468.7 |
| 1046 | 2.375 | 17.6 | 8661.3 | 76.9 | 15.1 | 8308.8 | 16.4 | 8488.1 |
| 1047 | 2.310 | 24.9 | 8679.6 | 70.5 | 9.9 | 8318.7 | 12.1 | 8497.1 |
| 1048 | 2.445 | 10.8 | 8686.4 | 69.3 | 9.0 | 8327.7 | 9.9 | 8507.0 |
| 1049 | 2.485 | 6.9 | 8693.3 | 68.0 | 8.0 | 8335.7 | 7.4 | 8514.5 |

ANALYSIS

FCR

THE CLEVELAND CLIFFS IRON ORE WELL F-1

| DEPTH | DENSITY LOG | | | VELOCITY LOG | | | DENSITY AND VELOCITY | |
|-------|-------------|---------|--------------|--------------|---------|--------------|----------------------|--------------|
| | RHO-B | GAL/TON | ACCUM. YIELD | RHO-B | GAL/TON | ACCUM. YIELD | GAL/TON | ACCUM. YIELD |
| 1050 | 2.530 | 2.3 | 8695.6 | 68.7 | 7.0 | 8695.6 | 4.7 | 8519.2 |
| 1051 | 2.530 | 2.3 | 8698.0 | 68.3 | 6.3 | 8698.0 | 4.5 | 8523.7 |
| 1052 | 2.525 | 2.8 | 8700.8 | 68.0 | 8.0 | 8697.8 | 5.4 | 8525.1 |
| 1053 | 2.495 | 5.9 | 8706.7 | 69.3 | 8.0 | 8698.3 | 7.4 | 8536.6 |
| 1054 | 2.490 | 6.4 | 8713.0 | 70.5 | 8.0 | 8698.3 | 8.1 | 8544.7 |
| 1055 | 2.490 | 6.4 | 8719.4 | 70.5 | 9.0 | 8698.3 | 8.1 | 8552.8 |
| 1056 | 2.480 | 7.4 | 8726.8 | 69.7 | 9.3 | 8697.8 | 8.3 | 8561.2 |
| 1057 | 2.470 | 8.4 | 8735.1 | 71.0 | 10.0 | 8695.0 | 9.3 | 8570.5 |
| 1058 | 2.460 | 9.4 | 8744.5 | 71.4 | 10.6 | 8695.0 | 10.0 | 8580.3 |
| 1059 | 2.495 | 5.9 | 8750.4 | 70.1 | 9.6 | 8695.0 | 7.7 | 8588.2 |
| 1060 | 2.485 | 6.9 | 8757.2 | 69.7 | 9.3 | 8695.0 | 8.1 | 8596.3 |
| 1061 | 2.480 | 7.4 | 8764.6 | 70.5 | 9.3 | 8695.0 | 8.6 | 8604.9 |
| 1062 | 2.470 | 8.4 | 8773.0 | 70.5 | 10.0 | 8695.0 | 9.3 | 8615.4 |
| 1063 | 2.460 | 9.4 | 8782.3 | 71.4 | 10.6 | 8695.0 | 10.0 | 8626.6 |
| 1064 | 2.470 | 8.4 | 8790.7 | 70.5 | 10.0 | 8695.0 | 9.3 | 8637.3 |
| 1065 | 2.470 | 8.4 | 8799.0 | 73.5 | 12.0 | 8695.0 | 10.0 | 8647.8 |
| 1066 | 2.500 | 5.4 | 8804.4 | 71.4 | 10.6 | 8697.2 | 8.6 | 8655.8 |
| 1067 | 2.530 | 2.3 | 8806.7 | 71.0 | 10.0 | 8697.5 | 8.3 | 8662.1 |
| 1068 | 2.530 | 2.3 | 8809.1 | 67.6 | 7.7 | 8697.2 | 5.0 | 8667.1 |
| 1069 | 2.535 | 1.8 | 8810.9 | 66.7 | 7.0 | 8697.2 | 4.4 | 8671.6 |
| 1070 | 2.520 | 3.4 | 8814.3 | 65.9 | 6.9 | 8698.4 | 4.9 | 8676.5 |
| 1071 | 2.520 | 3.4 | 8817.6 | 68.7 | 7.0 | 8697.2 | 5.2 | 8681.7 |
| 1072 | 2.525 | 2.8 | 8820.5 | 68.7 | 7.0 | 8697.2 | 5.9 | 8686.6 |
| 1073 | 2.540 | 1.3 | 8821.8 | 66.7 | 7.0 | 8697.2 | 5.3 | 8695.8 |
| 1074 | 2.530 | 2.3 | 8824.1 | 65.3 | 6.3 | 8697.2 | 5.3 | 8695.8 |
| 1075 | 2.530 | 2.3 | 8826.4 | 63.8 | 5.0 | 8697.2 | 5.8 | 8698.7 |
| 1076 | 2.540 | 1.3 | 8827.8 | 62.1 | 3.0 | 8697.2 | 5.3 | 8701.2 |
| 1077 | 2.550 | 0.3 | 8828.1 | 62.1 | 3.0 | 8697.2 | 5.3 | 8703.4 |
| 1078 | 2.550 | 0.3 | 8828.4 | 65.0 | 3.0 | 8697.2 | 5.3 | 8706.4 |
| 1079 | 2.550 | 0.3 | 8828.6 | 66.3 | 3.0 | 8697.2 | 5.3 | 8710.0 |
| 1080 | 2.540 | 1.3 | 8830.0 | 69.3 | 9.0 | 8697.2 | 5.3 | 8715.1 |
| 1081 | 2.510 | 4.4 | 8834.3 | 71.4 | 10.6 | 8697.2 | 7.7 | 8722.6 |
| 1082 | 2.500 | 5.4 | 8839.7 | 71.8 | 10.6 | 8697.2 | 8.3 | 8730.8 |
| 1083 | 2.490 | 6.4 | 8846.1 | 71.0 | 10.3 | 8697.2 | 8.3 | 8735.1 |
| 1084 | 2.480 | 7.4 | 8853.4 | 69.3 | 9.0 | 8697.2 | 8.3 | 8747.3 |
| 1085 | 2.480 | 7.4 | 8860.8 | 69.3 | 9.0 | 8697.2 | 8.3 | 8755.4 |
| 1086 | 2.505 | 4.9 | 8865.7 | 67.6 | 7.7 | 8697.2 | 6.9 | 8761.7 |
| 1087 | 2.540 | 1.3 | 8867.0 | 66.7 | 7.0 | 8697.2 | 5.4 | 8765.5 |
| 1088 | 2.515 | 3.9 | 8870.8 | 63.8 | 5.0 | 8697.2 | 5.4 | 8770.0 |
| 1089 | 2.505 | 4.9 | 8875.7 | 65.9 | 6.5 | 8697.2 | 5.7 | 8776.0 |
| 1090 | 2.500 | 5.4 | 8881.1 | 66.7 | 7.0 | 8697.2 | 6.2 | 8782.2 |
| 1091 | 2.510 | 4.4 | 8885.4 | 66.7 | 7.0 | 8697.2 | 5.7 | 8787.5 |
| 1092 | 2.510 | 4.4 | 8889.8 | 65.3 | 6.3 | 8697.2 | 5.3 | 8793.2 |
| 1093 | 2.515 | 3.9 | 8893.6 | 65.0 | 5.8 | 8702.3 | 4.8 | 8798.0 |
| 1094 | 2.500 | 2.3 | 8897.0 | 64.2 | 5.2 | 8707.6 | 3.8 | 8801.8 |
| 1095 | 2.505 | 0.0 | 8899.0 | 64.6 | 5.5 | 8713.1 | 3.8 | 8804.7 |
| 1096 | 2.500 | 0.0 | 8900.0 | 66.3 | 6.7 | 8719.8 | 4.7 | 8807.9 |
| 1097 | 2.500 | 0.0 | 8907.0 | 68.0 | 8.0 | 8727.8 | 4.9 | 8812.2 |
| 1098 | 2.500 | 0.0 | 8901.2 | 68.3 | 9.0 | 8736.8 | 6.2 | 8816.0 |
| 1099 | 2.500 | 0.0 | 8905.0 | 70.5 | 9.9 | 8746.7 | 7.4 | 8822.4 |

ANALYSIS

FOR

THE CLEVELAND CLIFFS IRON ORE

| DEPTH | DENSITY LOG | | | VELOCITY LOG | | | DENSITY AND VELOCITY | |
|-------|-------------|---------|-------------|--------------|---------|-------------|----------------------|-------------|
| | RHO-B | GAL/TON | ACCU. YIELD | RHO-B | GAL/TON | ACCU. YIELD | GAL/TON | ACCU. YIELD |
| 1100 | 2.510 | 4.4 | 8910.4 | 8.1 | 8.1 | 8.1 | 8.1 | 8893.0 |
| 1101 | 2.515 | 3.5 | 8914.2 | 8.1 | 8.1 | 8.1 | 8.1 | 8893.1 |
| 1102 | 2.520 | 2.8 | 8918.0 | 8.1 | 8.1 | 8.1 | 8.1 | 8893.2 |
| 1103 | 2.525 | 1.8 | 8921.8 | 8.1 | 8.1 | 8.1 | 8.1 | 8893.3 |
| 1104 | 2.530 | 1.3 | 8925.6 | 8.1 | 8.1 | 8.1 | 8.1 | 8893.4 |
| 1105 | 2.535 | 0.3 | 8929.4 | 8.1 | 8.1 | 8.1 | 8.1 | 8893.5 |
| 1106 | 2.540 | 0.0 | 8933.2 | 8.1 | 8.1 | 8.1 | 8.1 | 8893.6 |
| 1107 | 2.545 | 0.3 | 8937.0 | 8.1 | 8.1 | 8.1 | 8.1 | 8893.7 |
| 1108 | 2.550 | 0.3 | 8940.8 | 8.1 | 8.1 | 8.1 | 8.1 | 8893.8 |
| 1109 | 2.555 | 2.3 | 8944.6 | 8.1 | 8.1 | 8.1 | 8.1 | 8893.9 |
| 1110 | 2.560 | 7.9 | 8948.4 | 8.1 | 8.1 | 8.1 | 8.1 | 8894.0 |
| 1111 | 2.565 | 10.3 | 8952.2 | 8.1 | 8.1 | 8.1 | 8.1 | 8894.1 |
| 1112 | 2.570 | 10.3 | 8956.0 | 8.1 | 8.1 | 8.1 | 8.1 | 8894.2 |
| 1113 | 2.575 | 7.4 | 8959.8 | 8.1 | 8.1 | 8.1 | 8.1 | 8894.3 |
| 1114 | 2.580 | 3.5 | 8963.6 | 8.1 | 8.1 | 8.1 | 8.1 | 8894.4 |
| 1115 | 2.585 | 2.3 | 8967.4 | 8.1 | 8.1 | 8.1 | 8.1 | 8894.5 |
| 1116 | 2.590 | 3.4 | 8971.2 | 8.1 | 8.1 | 8.1 | 8.1 | 8894.6 |
| 1117 | 2.595 | 8.9 | 8975.0 | 8.1 | 8.1 | 8.1 | 8.1 | 8894.7 |
| 1118 | 2.600 | 11.3 | 8978.8 | 8.1 | 8.1 | 8.1 | 8.1 | 8894.8 |
| 1119 | 2.605 | 8.9 | 8982.6 | 8.1 | 8.1 | 8.1 | 8.1 | 8894.9 |
| 1120 | 2.610 | 4.4 | 8986.4 | 8.1 | 8.1 | 8.1 | 8.1 | 8895.0 |
| 1121 | 2.615 | 3.9 | 8990.2 | 8.1 | 8.1 | 8.1 | 8.1 | 8895.1 |
| 1122 | 2.620 | 3.5 | 8994.0 | 8.1 | 8.1 | 8.1 | 8.1 | 8895.2 |
| 1123 | 2.625 | 3.5 | 8997.8 | 8.1 | 8.1 | 8.1 | 8.1 | 8895.3 |
| 1124 | 2.630 | 3.5 | 9001.6 | 8.1 | 8.1 | 8.1 | 8.1 | 8895.4 |
| 1125 | 2.635 | 3.5 | 9005.4 | 8.1 | 8.1 | 8.1 | 8.1 | 8895.5 |
| 1126 | 2.640 | 3.9 | 9009.2 | 8.1 | 8.1 | 8.1 | 8.1 | 8895.6 |
| 1127 | 2.645 | 3.5 | 9013.0 | 8.1 | 8.1 | 8.1 | 8.1 | 8895.7 |
| 1128 | 2.650 | 3.5 | 9016.8 | 8.1 | 8.1 | 8.1 | 8.1 | 8895.8 |
| 1129 | 2.655 | 3.5 | 9020.6 | 8.1 | 8.1 | 8.1 | 8.1 | 8895.9 |
| 1130 | 2.660 | 3.9 | 9024.4 | 8.1 | 8.1 | 8.1 | 8.1 | 8896.0 |
| 1131 | 2.665 | 2.3 | 9028.2 | 8.1 | 8.1 | 8.1 | 8.1 | 8896.1 |
| 1132 | 2.670 | 3.4 | 9032.0 | 8.1 | 8.1 | 8.1 | 8.1 | 8896.2 |
| 1133 | 2.675 | 3.4 | 9035.8 | 8.1 | 8.1 | 8.1 | 8.1 | 8896.3 |
| 1134 | 2.680 | 3.9 | 9039.6 | 8.1 | 8.1 | 8.1 | 8.1 | 8896.4 |
| 1135 | 2.685 | 5.5 | 9043.4 | 8.1 | 8.1 | 8.1 | 8.1 | 8896.5 |
| 1136 | 2.690 | 8.4 | 9047.2 | 8.1 | 8.1 | 8.1 | 8.1 | 8896.6 |
| 1137 | 2.695 | 11.8 | 9051.0 | 8.1 | 8.1 | 8.1 | 8.1 | 8896.7 |
| 1138 | 2.700 | 13.3 | 9054.8 | 8.1 | 8.1 | 8.1 | 8.1 | 8896.8 |
| 1139 | 2.705 | 13.3 | 9058.6 | 8.1 | 8.1 | 8.1 | 8.1 | 8896.9 |
| 1140 | 2.710 | 13.8 | 9062.4 | 8.1 | 8.1 | 8.1 | 8.1 | 8897.0 |
| 1141 | 2.715 | 12.3 | 9066.2 | 8.1 | 8.1 | 8.1 | 8.1 | 8897.1 |
| 1142 | 2.720 | 12.3 | 9070.0 | 8.1 | 8.1 | 8.1 | 8.1 | 8897.2 |
| 1143 | 2.725 | 15.2 | 9073.8 | 8.1 | 8.1 | 8.1 | 8.1 | 8897.3 |
| 1144 | 2.730 | 15.2 | 9077.6 | 8.1 | 8.1 | 8.1 | 8.1 | 8897.4 |
| 1145 | 2.735 | 15.7 | 9081.4 | 8.1 | 8.1 | 8.1 | 8.1 | 8897.5 |
| 1146 | 2.740 | 20.9 | 9085.2 | 8.1 | 8.1 | 8.1 | 8.1 | 8897.6 |
| 1147 | 2.745 | 15.7 | 9089.0 | 8.1 | 8.1 | 8.1 | 8.1 | 8897.7 |
| 1148 | 2.750 | 8.4 | 9092.8 | 8.1 | 8.1 | 8.1 | 8.1 | 8897.8 |
| 1149 | 2.755 | 5.9 | 9096.6 | 8.1 | 8.1 | 8.1 | 8.1 | 8897.9 |
| 1150 | 2.760 | 5.9 | 9100.4 | 8.1 | 8.1 | 8.1 | 8.1 | 8898.0 |
| 1151 | 2.765 | 6.9 | 9104.2 | 8.1 | 8.1 | 8.1 | 8.1 | 8898.1 |
| 1152 | 2.770 | 8.9 | 9108.0 | 8.1 | 8.1 | 8.1 | 8.1 | 8898.2 |
| 1153 | 2.775 | 12.8 | 9111.8 | 8.1 | 8.1 | 8.1 | 8.1 | 8898.3 |
| 1154 | 2.780 | 12.8 | 9115.6 | 8.1 | 8.1 | 8.1 | 8.1 | 8898.4 |
| 1155 | 2.785 | 15.2 | 9119.4 | 8.1 | 8.1 | 8.1 | 8.1 | 8898.5 |
| 1156 | 2.790 | 15.2 | 9123.2 | 8.1 | 8.1 | 8.1 | 8.1 | 8898.6 |
| 1157 | 2.795 | 17.7 | 9127.0 | 8.1 | 8.1 | 8.1 | 8.1 | 8898.7 |
| 1158 | 2.800 | 17.7 | 9130.8 | 8.1 | 8.1 | 8.1 | 8.1 | 8898.8 |
| 1159 | 2.805 | 17.7 | 9134.6 | 8.1 | 8.1 | 8.1 | 8.1 | 8898.9 |
| 1160 | 2.810 | 17.7 | 9138.4 | 8.1 | 8.1 | 8.1 | 8.1 | 8899.0 |
| 1161 | 2.815 | 17.7 | 9142.2 | 8.1 | 8.1 | 8.1 | 8.1 | 8899.1 |
| 1162 | 2.820 | 17.7 | 9146.0 | 8.1 | 8.1 | 8.1 | 8.1 | 8899.2 |
| 1163 | 2.825 | 17.7 | 9149.8 | 8.1 | 8.1 | 8.1 | 8.1 | 8899.3 |
| 1164 | 2.830 | 17.7 | 9153.6 | 8.1 | 8.1 | 8.1 | 8.1 | 8899.4 |
| 1165 | 2.835 | 17.7 | 9157.4 | 8.1 | 8.1 | 8.1 | 8.1 | 8899.5 |
| 1166 | 2.840 | 17.7 | 9161.2 | 8.1 | 8.1 | 8.1 | 8.1 | 8899.6 |
| 1167 | 2.845 | 17.7 | 9165.0 | 8.1 | 8.1 | 8.1 | 8.1 | 8899.7 |
| 1168 | 2.850 | 17.7 | 9168.8 | 8.1 | 8.1 | 8.1 | 8.1 | 8899.8 |
| 1169 | 2.855 | 17.7 | 9172.6 | 8.1 | 8.1 | 8.1 | 8.1 | 8899.9 |
| 1170 | 2.860 | 17.7 | 9176.4 | 8.1 | 8.1 | 8.1 | 8.1 | 8900.0 |

K E R O G E N A N A L Y S I S

FCR

THE CLEVELAND CLIFFS LIGNITE WELL P-1

| DEPTH | DENSITY LOG | | | VELOCITY LOG | | | DENSITY AND VELOCITY | |
|-------|-------------|---------|--------------|--------------|---------|--------------|----------------------|--------------|
| | RHO-B | GAL/TON | ACCUM. YIELD | RHO-B | GAL/TON | ACCUM. YIELD | GAL/TON | ACCUM. YIELD |
| 1150 | 2.355 | 19.5 | 9290.4 | 76.9 | 15.1 | 9312.4 | 17.3 | 9301.4 |
| 1151 | 2.295 | 25.1 | 9315.5 | 82.0 | 19.6 | 9332.0 | 22.4 | 9323.8 |
| 1152 | 2.265 | 27.9 | 9343.4 | 85.3 | 22.6 | 9354.6 | 25.2 | 9349.0 |
| 1153 | 2.315 | 23.3 | 9366.7 | 86.2 | 23.5 | 9378.1 | 23.4 | 9372.4 |
| 1154 | 2.380 | 17.1 | 9383.8 | 84.1 | 21.5 | 9399.6 | 19.3 | 9351.7 |
| 1155 | 2.420 | 13.3 | 9397.1 | 80.7 | 18.4 | 9418.0 | 15.8 | 9407.5 |
| 1156 | 2.440 | 11.3 | 9408.4 | 76.0 | 14.4 | 9432.4 | 12.8 | 9420.4 |
| 1157 | 2.410 | 14.2 | 9422.6 | 71.8 | 10.9 | 9443.3 | 12.6 | 9433.0 |
| 1158 | 2.425 | 12.8 | 9435.4 | 71.0 | 10.3 | 9453.6 | 11.5 | 9444.5 |
| 1159 | 2.435 | 11.8 | 9447.2 | 72.2 | 11.3 | 9464.9 | 11.5 | 9456.0 |
| 1160 | 2.435 | 11.8 | 9459.0 | 75.6 | 14.0 | 9478.9 | 12.9 | 9469.0 |
| 1161 | 2.440 | 11.3 | 9470.4 | 77.3 | 15.5 | 9494.4 | 13.4 | 9482.4 |
| 1162 | 2.400 | 15.2 | 9485.6 | 80.7 | 18.4 | 9512.8 | 16.8 | 9499.2 |
| 1163 | 2.400 | 15.2 | 9500.8 | 82.8 | 20.3 | 9533.1 | 17.8 | 9516.9 |
| 1164 | 2.390 | 16.2 | 9516.9 | 82.8 | 20.3 | 9553.4 | 18.2 | 9535.2 |
| 1165 | 2.385 | 16.7 | 9533.6 | 82.4 | 20.0 | 9573.4 | 18.3 | 9553.5 |
| 1166 | 2.385 | 16.7 | 9550.3 | 79.8 | 17.6 | 9591.0 | 17.1 | 9570.6 |
| 1167 | 2.390 | 16.2 | 9566.4 | 76.9 | 15.1 | 9606.1 | 15.6 | 9586.3 |
| 1168 | 2.445 | 10.8 | 9577.3 | 73.5 | 12.3 | 9618.4 | 11.6 | 9597.8 |
| 1169 | 2.445 | 10.8 | 9588.1 | 71.4 | 10.6 | 9629.0 | 10.7 | 9608.5 |
| 1170 | 2.445 | 10.8 | 9598.9 | 71.0 | 10.3 | 9639.3 | 10.6 | 9619.1 |
| 1171 | 2.430 | 12.3 | 9611.2 | 71.0 | 10.3 | 9649.6 | 11.3 | 9630.4 |
| 1172 | 2.415 | 13.8 | 9625.0 | 71.4 | 10.6 | 9660.3 | 12.2 | 9642.6 |
| 1173 | 2.425 | 12.8 | 9637.8 | 73.1 | 12.0 | 9671.3 | 12.4 | 9655.0 |
| 1174 | 2.420 | 13.3 | 9651.0 | 74.8 | 13.4 | 9682.3 | 13.3 | 9668.3 |
| 1175 | 2.395 | 15.7 | 9666.7 | 76.5 | 14.8 | 9693.3 | 15.2 | 9683.5 |
| 1176 | 2.380 | 17.1 | 9683.5 | 79.8 | 17.6 | 9704.3 | 17.4 | 9700.9 |
| 1177 | 2.330 | 21.9 | 9705.7 | 84.5 | 21.9 | 9715.3 | 21.5 | 9722.8 |
| 1178 | 2.270 | 27.4 | 9733.1 | 87.9 | 25.1 | 9726.3 | 26.3 | 9749.0 |
| 1179 | 2.265 | 27.9 | 9761.0 | 89.6 | 26.8 | 9737.3 | 27.3 | 9776.4 |
| 1180 | 2.205 | 24.2 | 9785.2 | 89.6 | 26.8 | 9748.3 | 25.5 | 9801.9 |
| 1181 | 2.350 | 20.0 | 9805.1 | 87.0 | 24.3 | 9759.3 | 22.1 | 9824.0 |
| 1182 | 2.370 | 18.1 | 9823.2 | 83.2 | 20.7 | 9770.3 | 19.4 | 9843.4 |
| 1183 | 2.370 | 18.1 | 9841.3 | 80.3 | 18.1 | 9781.3 | 18.1 | 9861.4 |
| 1184 | 2.370 | 18.1 | 9859.4 | 78.2 | 16.2 | 9792.3 | 17.2 | 9878.6 |
| 1185 | 2.370 | 18.1 | 9877.5 | 79.0 | 16.9 | 9803.3 | 17.5 | 9896.1 |
| 1186 | 2.370 | 18.1 | 9895.6 | 78.2 | 16.2 | 9814.3 | 17.2 | 9913.3 |
| 1187 | 2.365 | 18.6 | 9914.1 | 76.5 | 14.8 | 9825.3 | 16.7 | 9929.9 |
| 1188 | 2.250 | 20.0 | 9934.1 | 78.2 | 16.2 | 9836.3 | 18.1 | 9948.0 |
| 1189 | 2.345 | 20.5 | 9954.6 | 76.9 | 15.1 | 9847.3 | 17.8 | 9965.6 |
| 1190 | 2.315 | 23.2 | 9977.8 | 78.6 | 16.6 | 9858.3 | 19.9 | 9985.7 |
| 1191 | 2.285 | 26.0 | 10003.5 | 83.7 | 21.1 | 9869.3 | 23.6 | 10009.3 |
| 1192 | 2.250 | 25.2 | 10033.1 | 85.3 | 22.6 | 10037.5 | 25.9 | 10035.3 |
| 1193 | 2.300 | 24.7 | 10057.7 | 86.2 | 23.5 | 10060.9 | 24.1 | 10059.3 |
| 1194 | 2.410 | 14.2 | 10072.0 | 86.6 | 23.9 | 10084.8 | 19.1 | 10078.4 |
| 1195 | 2.415 | 13.8 | 10085.7 | 83.2 | 20.7 | 10105.5 | 17.2 | 10095.6 |
| 1196 | 2.390 | 16.2 | 10101.9 | 80.3 | 18.1 | 10123.6 | 17.1 | 10112.7 |
| 1197 | 2.390 | 16.2 | 10117.6 | 77.7 | 15.8 | 10139.4 | 15.7 | 10128.5 |
| 1198 | 2.405 | 14.7 | 10132.3 | 75.6 | 14.0 | 10153.4 | 14.4 | 10142.8 |
| 1199 | 2.425 | 12.3 | 10145.1 | 73.1 | 12.0 | 10165.4 | 12.4 | 10155.2 |

K E R E N A N A L Y S I S

FCR

THE CLEVELAND CLIFFS IRON COMPANY SELL P-1

| DEPTH | DENSITY LOG | | | VELOCITY LOG | | | DENSITY AND VELOCITY | |
|-------|-------------|---------|--------------|--------------|---------|--------------|----------------------|--------------|
| | RHO-B | GAL/TON | ACCUM. YIELD | RHO-B | GAL/TON | ACCUM. YIELD | GAL/TON | ACCUM. YIELD |
| 1200 | 2.420 | 13.3 | 10158.4 | 71.8 | 10.9 | 10178.3 | 12.1 | 10167.3 |
| 1201 | 2.410 | 14.2 | 10172.6 | 73.9 | 12.6 | 10188.9 | 13.4 | 10180.8 |
| 1202 | 2.405 | 14.7 | 10187.4 | 76.0 | 14.4 | 10203.3 | 14.5 | 10195.9 |
| 1203 | 2.375 | 17.6 | 10205.0 | 78.9 | 15.1 | 10228.5 | 16.4 | 10211.7 |
| 1204 | 2.385 | 16.7 | 10221.6 | 76.9 | 15.1 | 10233.5 | 15.5 | 10227.6 |
| 1205 | 2.395 | 15.7 | 10237.3 | 76.5 | 14.8 | 10248.3 | 15.2 | 10242.8 |
| 1206 | 2.395 | 15.7 | 10253.0 | 75.2 | 13.7 | 10262.0 | 14.7 | 10257.5 |
| 1207 | 2.375 | 17.6 | 10270.6 | 74.4 | 13.0 | 10275.0 | 15.3 | 10272.8 |