|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 序  号 | 测深  (m) | 段长  (m) | 井斜  (°) | 方位  (°) | 垂深  (m) | 投影位移  (m) | 南北  (m) | 东西  (m) | 闭合距  (m) | 闭合方位  (°) | 全角  (°/30m) |
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2 | 166.00 | 166.00 | 0.00 | 0.00 | 166.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3 | 179.81 | 13.81 | 0.53 | 304.60 | 179.81 | 0.05 | 0.04 | -0.05 | 0.06 | 304.60 | 1.15 |
| 4 | 207.80 | 27.99 | 2.20 | 87.85 | 207.79 | 0.48 | 0.52 | 0.09 | 0.53 | 9.65 | 2.83 |
| 5 | 235.74 | 27.94 | 3.16 | 85.55 | 235.70 | 0.21 | 0.60 | 1.39 | 1.52 | 66.79 | 1.04 |
| 6 | 263.67 | 27.93 | 3.95 | 87.50 | 263.58 | -0.14 | 0.70 | 3.12 | 3.20 | 77.32 | 0.86 |
| 7 | 291.96 | 28.29 | 4.18 | 95.76 | 291.79 | -0.72 | 0.65 | 5.12 | 5.16 | 82.82 | 0.67 |
| 8 | 320.78 | 28.82 | 4.22 | 84.87 | 320.54 | -1.28 | 0.63 | 7.23 | 7.26 | 84.99 | 0.83 |
| 9 | 349.37 | 28.59 | 4.13 | 84.16 | 349.05 | -1.63 | 0.83 | 9.30 | 9.34 | 84.88 | 0.11 |
| 10 | 378.03 | 28.66 | 3.78 | 67.29 | 377.64 | -1.66 | 1.32 | 11.21 | 11.29 | 83.29 | 1.27 |
| 11 | 406.92 | 28.89 | 3.87 | 66.58 | 406.47 | -1.39 | 2.07 | 12.99 | 13.15 | 80.93 | 0.11 |
| 12 | 435.72 | 28.80 | 3.78 | 70.98 | 435.20 | -1.19 | 2.77 | 14.78 | 15.03 | 79.39 | 0.32 |
| 13 | 464.54 | 28.82 | 3.95 | 49.71 | 463.96 | -0.71 | 3.72 | 16.45 | 16.87 | 77.25 | 1.49 |
| 14 | 493.41 | 28.87 | 4.09 | 31.08 | 492.76 | 0.43 | 5.26 | 17.76 | 18.52 | 73.51 | 1.36 |
| 15 | 522.12 | 28.71 | 3.34 | 17.89 | 521.41 | 1.86 | 6.95 | 18.53 | 19.79 | 69.45 | 1.18 |
| 16 | 550.87 | 28.75 | 2.20 | 356.27 | 550.12 | 3.14 | 8.32 | 18.70 | 20.47 | 66.02 | 1.59 |
| 17 | 579.57 | 28.70 | 2.72 | 356.45 | 578.80 | 4.35 | 9.55 | 18.62 | 20.93 | 62.85 | 0.54 |
| 18 | 608.00 | 28.43 | 2.64 | 5.50 | 607.20 | 5.62 | 10.88 | 18.64 | 21.58 | 59.74 | 0.45 |
| 19 | 636.97 | 28.97 | 2.79 | 350.20 | 636.13 | 6.96 | 12.24 | 18.59 | 22.26 | 56.64 | 0.76 |
| 20 | 665.75 | 28.78 | 2.81 | 354.87 | 664.88 | 8.35 | 13.64 | 18.41 | 22.91 | 53.47 | 0.24 |
| 21 | 690.00 | 24.25 | 3.00 | 355.00 | 689.10 | 9.56 | 14.86 | 18.30 | 23.58 | 50.92 | 0.24 |
| 22 | 696.97 | 6.97 | 3.16 | 355.80 | 696.06 | 9.93 | 15.23 | 18.27 | 23.79 | 50.18 | 0.71 |
| 23 | 706.63 | 9.66 | 4.08 | 350.40 | 705.70 | 10.53 | 15.84 | 18.20 | 24.13 | 48.97 | 3.04 |
| 24 | 716.23 | 9.60 | 5.12 | 340.60 | 715.27 | 11.30 | 16.58 | 18.01 | 24.48 | 47.35 | 4.06 |
| 25 | 725.85 | 9.62 | 6.30 | 335.65 | 724.84 | 12.25 | 17.47 | 17.65 | 24.84 | 45.29 | 3.98 |
| 26 | 735.31 | 9.46 | 7.55 | 338.00 | 734.23 | 13.38 | 18.52 | 17.20 | 25.28 | 42.88 | 4.06 |
| 27 | 744.97 | 9.66 | 9.04 | 340.20 | 743.79 | 14.77 | 19.82 | 16.70 | 25.92 | 40.12 | 4.73 |
| 28 | 754.63 | 9.66 | 10.35 | 345.10 | 753.31 | 16.39 | 21.37 | 16.22 | 26.83 | 37.19 | 4.80 |
| 29 | 764.32 | 9.69 | 11.63 | 344.50 | 762.82 | 18.24 | 23.16 | 15.73 | 28.00 | 34.20 | 3.98 |
| 30 | 773.92 | 9.60 | 12.94 | 343.14 | 772.20 | 20.28 | 25.12 | 15.17 | 29.34 | 31.12 | 4.19 |
| 31 | 783.56 | 9.64 | 14.30 | 342.40 | 781.57 | 22.55 | 27.29 | 14.49 | 30.90 | 27.97 | 4.27 |
| 32 | 793.21 | 9.65 | 15.54 | 342.13 | 790.90 | 25.03 | 29.65 | 13.74 | 32.68 | 24.85 | 3.86 |
| 33 | 802.76 | 9.55 | 16.77 | 341.70 | 800.07 | 27.68 | 32.18 | 12.91 | 34.67 | 21.86 | 3.88 |
| 34 | 812.44 | 9.68 | 17.75 | 340.60 | 809.31 | 30.55 | 34.90 | 11.98 | 36.90 | 18.95 | 3.20 |
| 35 | 822.04 | 9.60 | 18.00 | 340.50 | 818.45 | 33.49 | 37.68 | 11.00 | 39.25 | 16.28 | 0.79 |
| 36 | 831.66 | 9.62 | 18.50 | 340.60 | 827.59 | 36.49 | 40.52 | 10.00 | 41.73 | 13.86 | 1.56 |
| 37 | 841.22 | 9.56 | 18.90 | 340.70 | 836.64 | 39.55 | 43.41 | 8.98 | 44.33 | 11.69 | 1.26 |
| 38 | 850.77 | 9.55 | 19.50 | 341.00 | 845.66 | 42.68 | 46.38 | 7.95 | 47.05 | 9.73 | 1.91 |
| 39 | 860.37 | 9.60 | 19.90 | 342.00 | 854.70 | 45.91 | 49.44 | 6.93 | 49.93 | 7.97 | 1.63 |
| 40 | 870.02 | 9.65 | 20.83 | 342.38 | 863.74 | 49.27 | 52.64 | 5.90 | 52.97 | 6.39 | 2.92 |
| 41 | 879.61 | 9.59 | 21.30 | 342.38 | 872.69 | 52.71 | 55.93 | 4.86 | 56.14 | 4.96 | 1.47 |
| 42 | 889.07 | 9.46 | 21.70 | 342.38 | 881.50 | 56.18 | 59.23 | 3.81 | 59.35 | 3.68 | 1.27 |
| 43 | 898.64 | 9.57 | 22.41 | 343.20 | 890.36 | 59.77 | 62.66 | 2.74 | 62.72 | 2.51 | 2.43 |
| 44 | 908.26 | 9.62 | 23.70 | 343.50 | 899.22 | 63.53 | 66.27 | 1.66 | 66.29 | 1.44 | 4.04 |
| 45 | 917.87 | 9.61 | 24.35 | 343.10 | 907.99 | 67.44 | 70.02 | 0.54 | 70.02 | 0.44 | 2.09 |
| 46 | 927.53 | 9.66 | 25.60 | 343.50 | 916.75 | 71.52 | 73.93 | -0.63 | 73.93 | 359.51 | 3.92 |
| 47 | 937.16 | 9.63 | 26.99 | 343.90 | 925.38 | 75.79 | 78.02 | -1.83 | 78.04 | 358.66 | 4.37 |
| 48 | 946.79 | 9.63 | 28.15 | 344.50 | 933.92 | 80.24 | 82.31 | -3.04 | 82.37 | 357.88 | 3.72 |
| 49 | 956.23 | 9.44 | 29.54 | 345.40 | 942.19 | 84.80 | 86.71 | -4.23 | 86.81 | 357.21 | 4.63 |
| 50 | 965.89 | 9.66 | 30.65 | 345.50 | 950.55 | 89.64 | 91.40 | -5.44 | 91.56 | 356.59 | 3.45 |
| 51 | 975.54 | 9.65 | 31.94 | 345.70 | 958.79 | 94.65 | 96.25 | -6.69 | 96.48 | 356.02 | 4.02 |
| 52 | 985.06 | 9.52 | 33.40 | 346.80 | 966.81 | 99.79 | 101.24 | -7.91 | 101.55 | 355.53 | 4.97 |
| 53 | 994.39 | 9.33 | 34.63 | 346.50 | 974.54 | 105.01 | 106.32 | -9.12 | 106.71 | 355.10 | 3.99 |
| 54 | 1003.78 | 9.39 | 35.90 | 346.20 | 982.21 | 110.43 | 111.59 | -10.40 | 112.07 | 354.68 | 4.10 |
| 55 | 1013.05 | 9.27 | 37.27 | 345.10 | 989.65 | 115.95 | 116.94 | -11.76 | 117.53 | 354.26 | 4.92 |
| 56 | 1022.24 | 9.19 | 38.55 | 344.90 | 996.90 | 121.60 | 122.40 | -13.23 | 123.11 | 353.83 | 4.20 |
| 57 | 1031.64 | 9.40 | 39.70 | 344.78 | 1004.19 | 127.53 | 128.12 | -14.78 | 128.97 | 353.42 | 3.68 |
| 58 | 1040.99 | 9.35 | 40.98 | 344.77 | 1011.32 | 133.58 | 133.96 | -16.37 | 134.96 | 353.03 | 4.11 |
| 59 | 1050.34 | 9.35 | 41.89 | 344.52 | 1018.33 | 139.77 | 139.93 | -18.00 | 141.08 | 352.67 | 2.97 |
| 60 | 1059.48 | 9.14 | 42.97 | 344.33 | 1025.07 | 145.93 | 145.87 | -19.66 | 147.19 | 352.32 | 3.57 |
| 61 | 1068.92 | 9.44 | 43.85 | 344.11 | 1031.93 | 152.42 | 152.11 | -21.42 | 153.61 | 351.98 | 2.84 |
| 62 | 1078.26 | 9.34 | 45.20 | 344.02 | 1038.59 | 158.97 | 158.41 | -23.22 | 160.10 | 351.66 | 4.34 |
| 63 | 1087.69 | 9.43 | 46.31 | 343.88 | 1045.17 | 165.72 | 164.90 | -25.09 | 166.80 | 351.35 | 3.55 |
| 64 | 1097.21 | 9.52 | 47.62 | 343.79 | 1051.67 | 172.68 | 171.58 | -27.03 | 173.70 | 351.05 | 4.13 |
| 65 | 1106.59 | 9.38 | 49.01 | 343.79 | 1057.90 | 179.68 | 178.31 | -28.98 | 180.65 | 350.77 | 4.45 |
| 66 | 1116.03 | 9.44 | 50.22 | 343.79 | 1064.02 | 186.87 | 185.21 | -30.99 | 187.79 | 350.50 | 3.85 |
| 67 | 1125.40 | 9.37 | 51.42 | 343.79 | 1069.94 | 194.14 | 192.19 | -33.02 | 195.00 | 350.25 | 3.84 |
| 68 | 1134.67 | 9.27 | 52.89 | 344.01 | 1075.63 | 201.45 | 199.22 | -35.05 | 202.28 | 350.02 | 4.79 |
| 69 | 1143.95 | 9.28 | 54.01 | 344.23 | 1081.15 | 208.91 | 206.39 | -37.09 | 209.70 | 349.81 | 3.67 |
| 70 | 1153.37 | 9.42 | 55.42 | 344.32 | 1086.60 | 216.60 | 213.79 | -39.17 | 217.35 | 349.62 | 4.50 |
| 71 | 1162.58 | 9.21 | 56.30 | 344.50 | 1091.76 | 224.22 | 221.13 | -41.22 | 224.94 | 349.44 | 2.91 |
| 72 | 1171.85 | 9.27 | 57.19 | 344.67 | 1096.85 | 231.97 | 228.61 | -43.28 | 232.67 | 349.28 | 2.92 |
| 73 | 1181.19 | 9.34 | 58.09 | 344.85 | 1101.85 | 239.86 | 236.22 | -45.35 | 240.53 | 349.13 | 2.93 |
| 74 | 1190.58 | 9.39 | 59.15 | 344.66 | 1106.74 | 247.88 | 243.95 | -47.46 | 248.53 | 348.99 | 3.43 |
| 75 | 1199.96 | 9.38 | 60.20 | 344.46 | 1111.47 | 255.97 | 251.76 | -49.62 | 256.60 | 348.85 | 3.40 |
| 76 | 1209.34 | 9.38 | 61.26 | 344.27 | 1116.06 | 264.16 | 259.64 | -51.82 | 264.76 | 348.71 | 3.43 |
| 77 | 1218.99 | 9.65 | 62.32 | 344.64 | 1120.62 | 272.66 | 267.83 | -54.10 | 273.24 | 348.58 | 3.45 |
| 78 | 1228.63 | 9.64 | 63.38 | 345.01 | 1125.02 | 281.24 | 276.11 | -56.35 | 281.80 | 348.47 | 3.45 |
| 79 | 1238.15 | 9.52 | 64.42 | 345.37 | 1129.21 | 289.79 | 284.37 | -58.53 | 290.34 | 348.37 | 3.43 |
| 80 | 1247.76 | 9.61 | 65.30 | 345.60 | 1133.29 | 298.49 | 292.80 | -60.71 | 299.02 | 348.29 | 2.82 |
| 81 | 1257.39 | 9.63 | 66.18 | 345.83 | 1137.25 | 307.26 | 301.30 | -62.88 | 307.80 | 348.21 | 2.82 |
| 82 | 1267.06 | 9.67 | 67.06 | 346.06 | 1141.08 | 316.14 | 309.91 | -65.04 | 316.66 | 348.15 | 2.81 |
| 83 | 1276.73 | 9.67 | 68.03 | 345.77 | 1144.78 | 325.07 | 318.58 | -67.21 | 325.59 | 348.09 | 3.12 |
| 84 | 1286.26 | 9.53 | 68.99 | 345.49 | 1148.27 | 333.94 | 327.17 | -69.41 | 334.45 | 348.02 | 3.13 |
| 85 | 1295.87 | 9.61 | 69.96 | 345.20 | 1151.64 | 342.94 | 335.88 | -71.69 | 343.44 | 347.95 | 3.14 |
| 86 | 1324.54 | 28.67 | 70.66 | 345.02 | 1161.30 | 369.93 | 361.97 | -78.62 | 370.41 | 347.74 | 0.75 |
| 87 | 1353.38 | 28.84 | 70.84 | 345.02 | 1170.80 | 397.16 | 388.27 | -85.66 | 397.61 | 347.56 | 0.19 |
| 88 | 1382.17 | 28.79 | 70.66 | 345.37 | 1180.30 | 424.34 | 414.55 | -92.61 | 424.76 | 347.41 | 0.39 |
| 89 | 1411.10 | 28.93 | 69.96 | 344.67 | 1190.04 | 451.58 | 440.86 | -99.65 | 451.98 | 347.26 | 1.00 |
| 90 | 1439.94 | 28.84 | 69.61 | 344.14 | 1200.01 | 478.64 | 466.93 | -106.92 | 479.01 | 347.10 | 0.63 |
| 91 | 1468.74 | 28.80 | 71.28 | 344.55 | 1209.65 | 505.78 | 493.06 | -114.25 | 506.12 | 346.95 | 1.79 |
| 92 | 1497.77 | 29.03 | 71.45 | 344.37 | 1218.93 | 533.28 | 519.56 | -121.62 | 533.60 | 346.83 | 0.25 |
| 93 | 1526.75 | 28.98 | 71.01 | 345.20 | 1228.25 | 560.72 | 546.04 | -128.82 | 561.03 | 346.73 | 0.93 |
| 94 | 1555.58 | 28.83 | 70.63 | 345.27 | 1237.72 | 587.95 | 572.37 | -135.76 | 588.25 | 346.66 | 0.40 |
| 95 | 1584.41 | 28.83 | 70.57 | 345.07 | 1247.30 | 615.14 | 598.65 | -142.72 | 615.43 | 346.59 | 0.21 |
| 96 | 1613.24 | 28.83 | 70.06 | 345.50 | 1257.01 | 642.29 | 624.91 | -149.61 | 642.57 | 346.54 | 0.68 |
| 97 | 1641.96 | 28.72 | 70.75 | 344.90 | 1266.64 | 669.34 | 651.07 | -156.52 | 669.62 | 346.48 | 0.93 |
| 98 | 1670.55 | 28.59 | 72.25 | 344.50 | 1275.71 | 696.46 | 677.22 | -163.68 | 696.72 | 346.41 | 1.62 |
| 99 | 1699.26 | 28.71 | 71.98 | 344.43 | 1284.53 | 723.78 | 703.54 | -171.00 | 724.02 | 346.34 | 0.29 |
| 100 | 1728.03 | 28.77 | 71.81 | 344.32 | 1293.47 | 751.12 | 729.88 | -178.36 | 751.35 | 346.27 | 0.21 |
| 101 | 1756.90 | 28.87 | 71.37 | 344.67 | 1302.59 | 778.52 | 756.27 | -185.68 | 778.73 | 346.21 | 0.57 |
| 102 | 1785.68 | 28.78 | 72.16 | 344.62 | 1311.59 | 805.85 | 782.63 | -192.92 | 806.06 | 346.15 | 0.82 |
| 103 | 1814.54 | 28.86 | 71.54 | 344.44 | 1320.58 | 833.27 | 809.06 | -200.24 | 833.47 | 346.10 | 0.67 |
| 104 | 1843.22 | 28.68 | 70.84 | 344.44 | 1329.83 | 860.42 | 835.22 | -207.52 | 860.61 | 346.05 | 0.73 |
| 105 | 1872.22 | 29.00 | 70.93 | 344.49 | 1339.33 | 887.82 | 861.62 | -214.86 | 888.00 | 346.00 | 0.11 |
| 106 | 1901.21 | 28.99 | 70.75 | 344.44 | 1348.84 | 915.20 | 888.00 | -222.19 | 915.38 | 345.95 | 0.19 |
| 107 | 1929.94 | 28.73 | 70.75 | 344.26 | 1358.31 | 942.33 | 914.12 | -229.51 | 942.49 | 345.91 | 0.18 |
| 108 | 1958.75 | 28.81 | 70.31 | 344.14 | 1367.92 | 969.49 | 940.25 | -236.90 | 969.64 | 345.86 | 0.47 |
| 109 | 1987.41 | 28.66 | 70.75 | 344.32 | 1377.47 | 996.51 | 966.26 | -244.25 | 996.65 | 345.81 | 0.49 |
| 110 | 2016.02 | 28.61 | 71.30 | 344.50 | 1386.77 | 1023.56 | 992.32 | -251.52 | 1023.70 | 345.78 | 0.60 |
| 111 | 2044.80 | 28.78 | 71.01 | 344.49 | 1396.07 | 1050.80 | 1018.56 | -258.80 | 1050.93 | 345.74 | 0.30 |
| 112 | 2073.43 | 28.63 | 70.48 | 345.02 | 1405.51 | 1077.83 | 1044.64 | -265.91 | 1077.95 | 345.72 | 0.76 |
| 113 | 2102.47 | 29.04 | 70.22 | 344.80 | 1415.27 | 1105.18 | 1071.05 | -273.03 | 1105.30 | 345.70 | 0.34 |
| 114 | 2131.40 | 28.93 | 70.13 | 344.60 | 1425.09 | 1132.39 | 1097.30 | -280.21 | 1132.51 | 345.67 | 0.22 |
| 115 | 2160.34 | 28.94 | 71.15 | 344.02 | 1434.68 | 1159.69 | 1123.58 | -287.59 | 1159.80 | 345.64 | 1.20 |
| 116 | 2189.28 | 28.94 | 74.72 | 343.21 | 1443.17 | 1187.35 | 1150.12 | -295.39 | 1187.45 | 345.60 | 3.79 |
| 117 | 2218.21 | 28.93 | 78.51 | 342.45 | 1449.87 | 1215.47 | 1177.01 | -303.70 | 1215.56 | 345.53 | 4.00 |
| 118 | 2247.02 | 28.81 | 82.27 | 341.33 | 1454.68 | 1243.83 | 1204.00 | -312.53 | 1243.90 | 345.45 | 4.08 |
| 119 | 2275.82 | 28.80 | 83.78 | 341.33 | 1458.17 | 1272.36 | 1231.08 | -321.68 | 1272.41 | 345.36 | 1.57 |
| 120 | 2304.64 | 28.82 | 83.50 | 340.98 | 1461.37 | 1300.95 | 1258.19 | -330.93 | 1300.98 | 345.26 | 0.46 |
| 121 | 2333.59 | 28.95 | 83.33 | 340.85 | 1464.69 | 1329.64 | 1285.37 | -340.34 | 1329.66 | 345.17 | 0.22 |
| 122 | 2362.16 | 28.57 | 84.57 | 340.80 | 1467.70 | 1357.98 | 1312.20 | -349.67 | 1357.99 | 345.08 | 1.30 |
| 123 | 2390.79 | 28.63 | 84.75 | 340.63 | 1470.36 | 1386.41 | 1339.11 | -359.08 | 1386.41 | 344.99 | 0.26 |
| 124 | 2419.59 | 28.80 | 84.69 | 341.03 | 1473.01 | 1415.02 | 1366.19 | -368.50 | 1415.02 | 344.91 | 0.42 |
| 125 | 2448.48 | 28.89 | 84.80 | 341.50 | 1475.66 | 1443.73 | 1393.44 | -377.74 | 1443.73 | 344.83 | 0.50 |
| 126 | 2477.35 | 28.87 | 84.51 | 341.70 | 1478.35 | 1472.43 | 1420.71 | -386.81 | 1472.43 | 344.77 | 0.37 |
| 127 | 2506.06 | 28.71 | 84.35 | 341.90 | 1481.13 | 1500.96 | 1447.86 | -395.74 | 1500.97 | 344.71 | 0.27 |
| 128 | 2534.81 | 28.75 | 83.62 | 341.82 | 1484.15 | 1529.51 | 1475.03 | -404.64 | 1529.52 | 344.66 | 0.77 |
| 129 | 2563.51 | 28.70 | 83.50 | 341.92 | 1487.36 | 1558.00 | 1502.13 | -413.51 | 1558.01 | 344.61 | 0.16 |
| 130 | 2584.00 | 20.49 | 83.42 | 341.92 | 1489.70 | 1578.33 | 1521.48 | -419.83 | 1578.34 | 344.57 | 0.12 |