

Hart 7H

| MD (usft) | CL (usft) | Inc (°) | Azi (°) | TVD (usft) | NS (usft) | EW (usft) | Northing (usft) | Easting (usft) | V.Sec (usft) | Dogleg (°/100usft) |
|-----------|-----------|---------|---------|------------|-----------|-----------|-----------------|----------------|--------------|--------------------|
| 0 | | 0 | 0 | 0 | 0 | 0 | 516921.6 | 1644567 | 0 | 0 |
| 100 | 100 | 0.25 | 143.81 | 100 | -0.18 | 0.13 | 516921.4 | 1644567 | 0.21 | 0.25 |
| 125 | 25 | 0.39 | 162.35 | 125 | -0.3 | 0.19 | 516921.3 | 1644567 | 0.34 | 0.69 |
| 150 | 25 | 0.38 | 151.88 | 150 | -0.46 | 0.25 | 516921.2 | 1644567 | 0.5 | 0.28 |
| 175 | 25 | 0.38 | 158.47 | 175 | -0.61 | 0.32 | 516921 | 1644567 | 0.65 | 0.1 |
| 200 | 25 | 0.29 | 149.4 | 200 | -0.74 | 0.38 | 516920.9 | 1644567 | 0.78 | 0.4 |
| 225 | 25 | 0.18 | 134.29 | 225 | -0.82 | 0.44 | 516920.8 | 1644567 | 0.88 | 0 |
| 250 | 25 | 0.28 | 133.6 | 250 | -0.89 | 0.52 | 516920.7 | 1644567 | 0.98 | 0.4 |
| 275 | 25 | 0.17 | 111.07 | 275 | -0.94 | 0.6 | 516920.7 | 1644567 | 1.08 | 0.56 |
| 300 | 25 | 0.22 | 75.2 | 300 | -0.95 | 0.68 | 516920.7 | 1644567 | 1.14 | 0.52 |
| 325 | 25 | 0.4 | 95.25 | 325 | -0.94 | 0.81 | 516920.7 | 1644567 | 1.23 | 0.83 |
| 350 | 25 | 0.59 | 98.19 | 350 | -0.97 | 1.02 | 516920.6 | 1644568 | 1.41 | 0.77 |
| 375 | 25 | 0.56 | 103.15 | 374.99 | -1.01 | 1.27 | 516920.6 | 1644568 | 1.62 | 0.23 |
| 400 | 25 | 0.42 | 117.53 | 399.99 | -1.08 | 1.47 | 516920.5 | 1644568 | 1.81 | 0.74 |
| 425 | 25 | 0.15 | 137.82 | 424.99 | -1.15 | 1.57 | 516920.4 | 1644568 | 1.93 | 1.14 |
| 450 | 25 | 0.1 | 180.29 | 449.99 | -1.2 | 1.6 | 516920.4 | 1644568 | 1.98 | 0.41 |
| 475 | 25 | 0.03 | 301.14 | 474.99 | -1.21 | 1.59 | 516920.4 | 1644568 | 1.99 | 0.47 |
| 500 | 25 | 0.07 | 178.81 | 499.99 | -1.23 | 1.58 | 516920.4 | 1644568 | 1.99 | 0.36 |
| 525 | 25 | 0.13 | 236.11 | 524.99 | -1.26 | 1.56 | 516920.3 | 1644568 | 2 | 0.44 |
| 550 | 25 | 0.1 | 261.74 | 549.99 | -1.28 | 1.52 | 516920.3 | 1644568 | 1.98 | 0.24 |
| 575 | 25 | 0.1 | 137.79 | 574.99 | -1.3 | 1.51 | 516920.3 | 1644568 | 1.99 | 0.71 |
| 600 | 25 | 0.1 | 131.95 | 599.99 | -1.33 | 1.54 | 516920.3 | 1644568 | 2.03 | 0.04 |
| 625 | 25 | 0.11 | 192.29 | 624.99 | -1.36 | 1.55 | 516920.2 | 1644568 | 2.06 | 0.42 |
| 650 | 25 | 0.18 | 275.65 | 649.99 | -1.38 | 1.51 | 516920.2 | 1644568 | 2.05 | 0.8 |
| 675 | 25 | 0.17 | 272.24 | 674.99 | -1.38 | 1.43 | 516920.2 | 1644568 | 1.99 | 0.06 |
| 700 | 25 | 0.21 | 273.93 | 699.99 | -1.37 | 1.35 | 516920.2 | 1644568 | 1.92 | 0.16 |
| 725 | 25 | 0.12 | 357.86 | 724.99 | -1.34 | 1.3 | 516920.3 | 1644568 | 1.87 | 0.92 |
| 750 | 25 | 0.24 | 53 | 749.99 | -1.29 | 1.34 | 516920.3 | 1644568 | 1.86 | 0.79 |
| 775 | 25 | 0.21 | 41.86 | 774.99 | -1.22 | 1.41 | 516920.4 | 1644568 | 1.87 | 0.21 |
| 800 | 25 | 0.21 | 52.82 | 799.99 | -1.16 | 1.48 | 516920.4 | 1644568 | 1.87 | 0.16 |
| 825 | 25 | 0.29 | 67.75 | 824.99 | -1.11 | 1.58 | 516920.5 | 1644568 | 1.91 | 0.41 |
| 837 | 12 | 0.23 | 62.33 | 836.99 | -1.09 | 1.63 | 516920.5 | 1644568 | 1.93 | 0.54 |
| 934 | 97 | 0.24 | 100.08 | 933.99 | -1.03 | 2 | 516920.6 | 1644569 | 2.16 | 0.16 |

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|-----------|-----------|---------|---------|------------|-----------|-----------|-----------------|----------------|--------------|--------------------|
| 965 | 31 | 0.44 | 115.75 | 964.99 | -1.09 | 2.17 | 516920.5 | 1644569 | 2.33 | 0.71 |
| 1059 | 94 | 2.48 | 116.48 | 1058.95 | -2.16 | 4.32 | 516919.4 | 1644571 | 4.62 | 2.17 |
| 1154 | 95 | 3.39 | 114.08 | 1153.83 | -4.22 | 8.72 | 516917.3 | 1644575 | 9.25 | 0.97 |
| 1249 | 95 | 4.18 | 112.32 | 1248.62 | -6.68 | 14.49 | 516914.7 | 1644581 | 15.13 | 0.84 |
| 1343 | 94 | 5.59 | 110.15 | 1342.28 | -9.56 | 21.95 | 516911.8 | 1644588 | 22.55 | 1.51 |
| 1438 | 95 | 4.65 | 110.83 | 1436.9 | -12.52 | 29.9 | 516908.7 | 1644596 | 30.37 | 0.99 |
| 1533 | 95 | 2.94 | 121.99 | 1531.69 | -15.18 | 35.56 | 516906 | 1644602 | 36.32 | 1.95 |
| 1627 | 94 | 1.87 | 113.55 | 1625.6 | -17.07 | 39.01 | 516904 | 1644605 | 40.13 | 1.2 |
| 1722 | 95 | 1.85 | 86.61 | 1720.55 | -17.6 | 41.97 | 516903.5 | 1644608 | 42.64 | 0.91 |
| 1817 | 95 | 1.13 | 59.67 | 1815.52 | -17.04 | 44.31 | 516904 | 1644611 | 43.96 | 1.04 |
| 1911 | 94 | 0.93 | 345.56 | 1909.51 | -15.83 | 44.92 | 516905.2 | 1644611 | 43.58 | 1.33 |
| 2005 | 94 | 1.43 | 319.53 | 2003.49 | -14.2 | 43.96 | 516906.9 | 1644610 | 41.77 | 0.77 |
| 2100 | 95 | 0.91 | 306.91 | 2098.47 | -12.84 | 42.59 | 516908.2 | 1644609 | 39.84 | 0.61 |
| 2161 | 61 | 1.22 | 274.74 | 2159.46 | -12.5 | 41.56 | 516908.6 | 1644608 | 38.85 | 1.08 |
| 2269 | 108 | 0.79 | 238.34 | 2267.45 | -12.8 | 39.78 | 516908.3 | 1644606 | 37.76 | 0.69 |
| 2363 | 94 | 0.67 | 227.27 | 2361.44 | -13.51 | 38.82 | 516907.6 | 1644605 | 37.55 | 0.2 |
| 2458 | 95 | 0.62 | 243.34 | 2456.43 | -14.12 | 37.95 | 516907 | 1644604 | 37.33 | 0.2 |
| 2553 | 95 | 0.55 | 252.82 | 2551.43 | -14.48 | 37.06 | 516906.7 | 1644603 | 36.93 | 0.13 |
| 2648 | 95 | 0.44 | 255.2 | 2646.42 | -14.71 | 36.27 | 516906.4 | 1644603 | 36.51 | 0.12 |
| 2742 | 94 | 0.62 | 272.96 | 2740.42 | -14.78 | 35.41 | 516906.4 | 1644602 | 35.93 | 0.26 |
| 2837 | 95 | 0.5 | 281.99 | 2835.42 | -14.66 | 34.5 | 516906.5 | 1644601 | 35.18 | 0.16 |
| 2932 | 95 | 0.52 | 301.87 | 2930.41 | -14.35 | 33.72 | 516906.8 | 1644600 | 34.41 | 0.19 |
| 3027 | 95 | 0.59 | 309.15 | 3025.41 | -13.81 | 32.98 | 516907.4 | 1644599 | 33.5 | 0.1 |
| 3121 | 94 | 0.71 | 300.32 | 3119.4 | -13.21 | 32.1 | 516908 | 1644598 | 32.45 | 0.17 |
| 3215 | 94 | 0.77 | 301.52 | 3213.39 | -12.59 | 31.06 | 516908.6 | 1644597 | 31.26 | 0.07 |
| 3310 | 95 | 0.77 | 310.35 | 3308.39 | -11.84 | 30.03 | 516909.4 | 1644596 | 30 | 0.12 |
| 3405 | 95 | 0.77 | 307.81 | 3403.38 | -11.04 | 29.04 | 516910.2 | 1644595 | 28.72 | 0.04 |
| 3499 | 94 | 0.86 | 287.17 | 3497.37 | -10.44 | 27.86 | 516910.8 | 1644594 | 27.46 | 0.32 |
| 3594 | 95 | 0.93 | 294.45 | 3592.36 | -9.91 | 26.48 | 516911.4 | 1644593 | 26.09 | 0.14 |
| 3689 | 95 | 0.99 | 283.77 | 3687.34 | -9.4 | 24.98 | 516911.9 | 1644591 | 24.65 | 0.2 |
| 3784 | 95 | 0.99 | 300.69 | 3782.33 | -8.78 | 23.48 | 516912.5 | 1644590 | 23.13 | 0.31 |
| 3878 | 94 | 0.98 | 293.58 | 3876.31 | -8.05 | 22.04 | 516913.3 | 1644588 | 21.58 | 0.13 |
| 3972 | 94 | 1.01 | 296.75 | 3970.3 | -7.35 | 20.57 | 516914 | 1644587 | 20.03 | 0.07 |
| 4067 | 95 | 0.41 | 296.12 | 4065.29 | -6.83 | 19.52 | 516914.5 | 1644586 | 18.9 | 0.63 |
| 4162 | 95 | 0.52 | 310 | 4160.29 | -6.4 | 18.88 | 516915 | 1644585 | 18.14 | 0.16 |
| 4257 | 95 | 0.65 | 303.96 | 4255.28 | -5.82 | 18.1 | 516915.6 | 1644585 | 17.18 | 0.15 |
| 4352 | 95 | 0.43 | 295.56 | 4350.28 | -5.37 | 17.33 | 516916 | 1644584 | 16.31 | 0.25 |

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|-----------|-----------|---------|---------|------------|-----------|-----------|-----------------|----------------|--------------|--------------------|
| 4446 | 94 | 0.18 | 235.63 | 4444.28 | -5.3 | 16.89 | 516916.1 | 1644583 | 15.94 | 0.4 |
| 4540 | 94 | 0.6 | 295.93 | 4538.28 | -5.17 | 16.33 | 516916.2 | 1644583 | 15.44 | 0.57 |
| 4635 | 95 | 0.63 | 296.44 | 4633.27 | -4.72 | 15.41 | 516916.7 | 1644582 | 14.47 | 0.03 |
| 4730 | 95 | 0.69 | 307.5 | 4728.27 | -4.14 | 14.49 | 516917.3 | 1644581 | 13.4 | 0.15 |
| 4824 | 94 | 0.84 | 293.91 | 4822.26 | -3.51 | 13.41 | 516917.9 | 1644580 | 12.18 | 0.25 |
| 4918 | 94 | 0.68 | 295.31 | 4916.25 | -2.99 | 12.28 | 516918.5 | 1644579 | 11 | 0.17 |
| 5013 | 95 | 0.76 | 317.28 | 5011.24 | -2.29 | 11.34 | 516919.2 | 1644578 | 9.84 | 0.3 |
| 5107 | 94 | 0.75 | 296.06 | 5105.23 | -1.56 | 10.37 | 516919.9 | 1644577 | 8.63 | 0.3 |
| 5202 | 95 | 0.95 | 296.49 | 5200.22 | -0.94 | 9.1 | 516920.6 | 1644576 | 7.28 | 0.21 |
| 5296 | 94 | 0.81 | 293.14 | 5294.21 | -0.33 | 7.8 | 516921.2 | 1644574 | 5.91 | 0.16 |
| 5381 | 85 | 1.32 | 41.75 | 5379.2 | 0.64 | 7.9 | 516922.2 | 1644574 | 5.32 | 2.06 |
| 5475 | 94 | 7.77 | 54.78 | 5472.86 | 5.12 | 13.81 | 516926.6 | 1644580 | 6.57 | 6.91 |
| 5570 | 95 | 13.34 | 50.86 | 5566.22 | 15.75 | 27.57 | 516937 | 1644594 | 9.32 | 5.91 |
| 5664 | 94 | 20.68 | 58.97 | 5656.05 | 31.17 | 50.24 | 516952.1 | 1644617 | 15.29 | 8.19 |
| 5759 | 95 | 26.33 | 60.54 | 5743.14 | 50.19 | 82.98 | 516970.7 | 1644650 | 26.14 | 5.98 |
| 5854 | 95 | 36.55 | 59.09 | 5824.08 | 75.15 | 125.71 | 516995.1 | 1644693 | 40.21 | 10.79 |
| 5948 | 94 | 42.87 | 55.23 | 5896.37 | 107.8 | 176.05 | 517027.1 | 1644744 | 54.56 | 7.21 |
| 6043 | 95 | 43.84 | 55.33 | 5965.45 | 144.95 | 229.66 | 517063.6 | 1644798 | 68.21 | 1.02 |
| 6138 | 95 | 43.92 | 55.34 | 6033.92 | 182.4 | 283.82 | 517100.4 | 1644853 | 82.06 | 0.08 |
| 6232 | 94 | 43.75 | 56.43 | 6101.73 | 218.92 | 337.72 | 517136.2 | 1644907 | 96.36 | 0.82 |
| 6326 | 94 | 42.92 | 59.8 | 6170.11 | 252.99 | 392.47 | 517169.5 | 1644962 | 112.96 | 2.61 |
| 6421 | 95 | 44.3 | 74.81 | 6239.08 | 278.03 | 452.6 | 517193.8 | 1645023 | 139.66 | 10.98 |
| 6515 | 94 | 49.44 | 83.99 | 6303.39 | 290.39 | 519.92 | 517205.3 | 1645090 | 180.27 | 8.97 |
| 6610 | 95 | 53.89 | 89.43 | 6362.33 | 294.55 | 594.25 | 517208.5 | 1645165 | 231.62 | 6.49 |
| 6704 | 94 | 58.89 | 95.68 | 6414.38 | 290.94 | 672.36 | 517203.9 | 1645243 | 291.04 | 7.67 |
| 6799 | 95 | 63.9 | 106.17 | 6459.95 | 274.99 | 754.03 | 517186.9 | 1645324 | 361.49 | 11.03 |
| 6893 | 94 | 68 | 113.36 | 6498.29 | 245.92 | 834.69 | 517156.8 | 1645404 | 440.2 | 8.23 |
| 6988 | 95 | 72.78 | 120.77 | 6530.21 | 205.17 | 914.25 | 517115 | 1645483 | 526.09 | 8.9 |
| 7083 | 95 | 76.46 | 127.98 | 6555.43 | 153.46 | 989.76 | 517062.3 | 1645558 | 616.53 | 8.28 |
| 7177 | 94 | 82.03 | 136.23 | 6572.99 | 91.57 | 1058.14 | 516999.6 | 1645626 | 708.74 | 10.46 |
| 7272 | 95 | 89.04 | 139.22 | 6580.38 | 21.54 | 1121.8 | 516928.7 | 1645688 | 803.09 | 8.02 |
| 7366 | 94 | 88.49 | 138.45 | 6582.41 | -49.21 | 1183.65 | 516857.2 | 1645749 | 896.61 | 1.01 |
| 7461 | 95 | 88.49 | 139.48 | 6584.91 | -120.84 | 1246 | 516784.8 | 1645811 | 991.09 | 1.08 |
| 7555 | 94 | 88.43 | 139.67 | 6587.44 | -192.38 | 1306.93 | 516712.5 | 1645871 | 1084.48 | 0.21 |
| 7650 | 95 | 88.46 | 141.08 | 6590.02 | -265.52 | 1367.5 | 516638.5 | 1645930 | 1178.7 | 1.48 |
| 7744 | 94 | 88.83 | 141.72 | 6592.24 | -338.96 | 1426.12 | 516564.3 | 1645988 | 1271.71 | 0.79 |
| 7839 | 95 | 89.26 | 142.63 | 6593.82 | -413.99 | 1484.37 | 516488.6 | 1646045 | 1365.53 | 1.06 |

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|-----------|-----------|---------|---------|------------|-----------|-----------|-----------------|----------------|--------------|--------------------|
| 7933 | 94 | 89.23 | 137.79 | 6595.06 | -486.19 | 1544.51 | 516415.6 | 1646105 | 1458.79 | 5.15 |
| 8028 | 95 | 89.17 | 137.91 | 6596.39 | -556.62 | 1608.26 | 516344.4 | 1646167 | 1553.47 | 0.14 |
| 8123 | 95 | 89.26 | 138.11 | 6597.69 | -627.22 | 1671.8 | 516273 | 1646230 | 1648.12 | 0.23 |
| 8217 | 94 | 89.29 | 139.86 | 6598.88 | -698.14 | 1733.48 | 516201.3 | 1646291 | 1741.63 | 1.86 |
| 8312 | 95 | 89.35 | 142.2 | 6600.01 | -771.99 | 1793.22 | 516126.6 | 1646350 | 1835.73 | 2.46 |
| 8407 | 95 | 89.32 | 141.65 | 6601.11 | -846.77 | 1851.8 | 516051.1 | 1646407 | 1929.62 | 0.58 |
| 8501 | 94 | 89.29 | 140 | 6602.25 | -919.63 | 1911.18 | 515977.5 | 1646466 | 2022.78 | 1.76 |
| 8596 | 95 | 89.29 | 136.91 | 6603.43 | -990.72 | 1974.17 | 515905.6 | 1646528 | 2117.36 | 3.25 |
| 8690 | 94 | 89.14 | 135.18 | 6604.72 | -1058.38 | 2039.41 | 515837.1 | 1646592 | 2211.23 | 1.85 |
| 8785 | 95 | 89.01 | 134.29 | 6606.25 | -1125.23 | 2106.88 | 515769.4 | 1646659 | 2306.19 | 0.95 |
| 8880 | 95 | 89.04 | 134.59 | 6607.87 | -1191.74 | 2174.7 | 515702 | 1646726 | 2401.15 | 0.32 |
| 8973 | 93 | 89.01 | 135.45 | 6609.45 | -1257.51 | 2240.43 | 515635.4 | 1646791 | 2494.09 | 0.93 |
| 9068 | 95 | 89.14 | 136.39 | 6610.98 | -1325.75 | 2306.51 | 515566.3 | 1646856 | 2588.97 | 1 |
| 9162 | 94 | 89.08 | 136.02 | 6612.44 | -1393.59 | 2371.55 | 515497.7 | 1646920 | 2682.83 | 0.4 |
| 9257 | 95 | 89.05 | 137.48 | 6613.99 | -1462.77 | 2436.64 | 515427.6 | 1646984 | 2777.63 | 1.54 |
| 9352 | 95 | 89.08 | 139 | 6615.54 | -1533.62 | 2499.9 | 515356 | 1647046 | 2872.24 | 1.6 |
| 9446 | 94 | 89.26 | 140.42 | 6616.91 | -1605.32 | 2560.67 | 515283.5 | 1647106 | 2965.62 | 1.52 |
| 9541 | 95 | 89.11 | 140.83 | 6618.26 | -1678.75 | 2620.94 | 515209.3 | 1647166 | 3059.82 | 0.46 |
| 9635 | 94 | 88.4 | 140.47 | 6620.3 | -1751.42 | 2680.52 | 515135.9 | 1647224 | 3153 | 0.85 |
| 9730 | 95 | 88.71 | 141 | 6622.69 | -1824.94 | 2740.63 | 515061.6 | 1647283 | 3247.15 | 0.65 |
| 9824 | 94 | 88.99 | 140.76 | 6624.58 | -1897.86 | 2799.93 | 514987.9 | 1647342 | 3340.28 | 0.39 |
| 9919 | 95 | 88.99 | 140.05 | 6626.26 | -1971.05 | 2860.47 | 514914 | 1647401 | 3434.52 | 0.75 |
| 10014 | 95 | 89.01 | 139.46 | 6627.91 | -2043.55 | 2921.83 | 514840.7 | 1647462 | 3528.88 | 0.62 |
| 10108 | 94 | 89.35 | 141.73 | 6629.26 | -2116.17 | 2981.49 | 514767.3 | 1647521 | 3622.08 | 2.44 |
| 10203 | 95 | 89.54 | 141.94 | 6630.18 | -2190.86 | 3040.19 | 514691.9 | 1647578 | 3716 | 0.3 |
| 10298 | 95 | 89.32 | 141.19 | 6631.12 | -2265.27 | 3099.24 | 514616.7 | 1647636 | 3809.98 | 0.82 |
| 10393 | 95 | 89.26 | 140.7 | 6632.3 | -2339.03 | 3159.09 | 514542.2 | 1647695 | 3904.11 | 0.52 |
| 10487 | 94 | 89.2 | 139.89 | 6633.57 | -2411.35 | 3219.14 | 514469.1 | 1647754 | 3997.38 | 0.86 |
| 10582 | 95 | 89.23 | 139.18 | 6634.87 | -2483.62 | 3280.79 | 514396 | 1647815 | 4091.79 | 0.75 |
| 10676 | 94 | 89.29 | 138.43 | 6636.08 | -2554.34 | 3342.69 | 514324.5 | 1647876 | 4185.33 | 0.8 |
| 10770 | 94 | 89.29 | 138.59 | 6637.25 | -2624.75 | 3404.96 | 514253.3 | 1647937 | 4278.92 | 0.17 |
| 10865 | 95 | 89.29 | 139.33 | 6638.42 | -2696.4 | 3467.33 | 514180.9 | 1647999 | 4373.43 | 0.78 |
| 10959 | 94 | 89.29 | 139.3 | 6639.59 | -2767.67 | 3528.61 | 514108.8 | 1648059 | 4466.88 | 0.03 |
| 11054 | 95 | 89.32 | 139.03 | 6640.74 | -2839.54 | 3590.72 | 514036.1 | 1648120 | 4561.36 | 0.29 |
| 11148 | 94 | 89.35 | 138.23 | 6641.83 | -2910.08 | 3652.84 | 513964.8 | 1648182 | 4654.93 | 0.85 |
| 11243 | 95 | 89.35 | 137.33 | 6642.91 | -2980.43 | 3716.67 | 513893.7 | 1648245 | 4749.62 | 0.95 |
| 11338 | 95 | 89.29 | 136.54 | 6644.04 | -3049.83 | 3781.54 | 513823.4 | 1648309 | 4844.41 | 0.83 |

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|-----------|-----------|---------|---------|------------|-----------|-----------|-----------------|----------------|--------------|--------------------|
| 11432 | 94 | 89.29 | 137.55 | 6645.2 | -3118.62 | 3845.59 | 513753.8 | 1648372 | 4938.19 | 1.07 |
| 11527 | 95 | 89.26 | 136.86 | 6646.4 | -3188.32 | 3910.12 | 513683.3 | 1648435 | 5032.95 | 0.73 |
| 11621 | 94 | 89.26 | 135.43 | 6647.62 | -3256.1 | 3975.24 | 513614.7 | 1648500 | 5126.81 | 1.52 |
| 11716 | 95 | 89.26 | 133.44 | 6648.84 | -3322.6 | 4043.07 | 513547.3 | 1648567 | 5221.78 | 2.09 |
| 11810 | 94 | 88.86 | 132.54 | 6650.39 | -3386.69 | 4111.81 | 513482.4 | 1648634 | 5315.76 | 1.05 |
| 11905 | 95 | 88.8 | 133.68 | 6652.33 | -3451.6 | 4181.15 | 513416.6 | 1648703 | 5410.74 | 1.2 |
| 11999 | 94 | 88.49 | 137.16 | 6654.55 | -3518.52 | 4247.1 | 513348.8 | 1648768 | 5504.63 | 3.72 |
| 12094 | 95 | 88.43 | 141.48 | 6657.1 | -3590.52 | 4308.99 | 513276 | 1648829 | 5599.03 | 4.55 |
| 12188 | 94 | 88.37 | 143.1 | 6659.73 | -3664.85 | 4366.46 | 513200.9 | 1648886 | 5691.81 | 1.72 |
| 12283 | 95 | 88.31 | 144.11 | 6662.48 | -3741.29 | 4422.81 | 513123.8 | 1648941 | 5785.21 | 1.06 |
| 12377 | 94 | 88.4 | 144.76 | 6665.18 | -3817.72 | 4477.46 | 513046.7 | 1648995 | 5877.37 | 0.7 |
| 12472 | 95 | 88.8 | 143.03 | 6667.5 | -3894.45 | 4533.42 | 512969.2 | 1649049 | 5970.68 | 1.87 |
| 12567 | 95 | 89.02 | 141.98 | 6669.31 | -3969.81 | 4591.23 | 512893.1 | 1649106 | 6064.41 | 1.13 |
| 12661 | 94 | 89.45 | 140.08 | 6670.56 | -4042.88 | 4650.34 | 512819.3 | 1649165 | 6157.52 | 2.07 |
| 12756 | 95 | 89.57 | 137.7 | 6671.38 | -4114.45 | 4712.8 | 512746.9 | 1649226 | 6252.04 | 2.51 |
| 12850 | 94 | 88.95 | 137.35 | 6672.59 | -4183.78 | 4776.27 | 512676.8 | 1649289 | 6345.77 | 0.76 |
| 12945 | 95 | 89.05 | 137.48 | 6674.25 | -4253.71 | 4840.54 | 512606 | 1649352 | 6440.49 | 0.17 |
| 13039 | 94 | 88.98 | 138.89 | 6675.86 | -4323.76 | 4903.2 | 512535.2 | 1649414 | 6534.12 | 1.5 |
| 13134 | 95 | 89.05 | 140 | 6677.5 | -4395.93 | 4964.96 | 512462.2 | 1649475 | 6628.54 | 1.17 |
| 13228 | 94 | 89.04 | 140.5 | 6679.06 | -4468.19 | 5025.06 | 512389.2 | 1649534 | 6721.82 | 0.53 |
| 13323 | 95 | 88.98 | 140.53 | 6680.7 | -4541.5 | 5085.46 | 512315.1 | 1649593 | 6816.03 | 0.07 |
| 13417 | 94 | 89.01 | 139.06 | 6682.35 | -4613.28 | 5146.13 | 512242.6 | 1649653 | 6909.39 | 1.56 |
| 13512 | 95 | 89.26 | 137.86 | 6683.79 | -4684.37 | 5209.12 | 512170.7 | 1649715 | 7003.97 | 1.29 |
| 13607 | 95 | 89.26 | 136.87 | 6685.01 | -4754.26 | 5273.46 | 512100 | 1649778 | 7098.71 | 1.04 |
| 13701 | 94 | 89.26 | 136.99 | 6686.23 | -4822.92 | 5337.64 | 512030.5 | 1649842 | 7192.51 | 0.13 |
| 13796 | 95 | 89.32 | 138.4 | 6687.41 | -4893.17 | 5401.58 | 511959.4 | 1649905 | 7287.2 | 1.49 |
| 13890 | 94 | 89.29 | 139.06 | 6688.55 | -4963.82 | 5463.58 | 511888 | 1649966 | 7380.76 | 0.7 |
| 13985 | 95 | 89.29 | 139.11 | 6689.72 | -5035.6 | 5525.79 | 511815.4 | 1650027 | 7475.25 | 0.05 |
| 14080 | 95 | 89.02 | 137.07 | 6691.12 | -5106.29 | 5589.24 | 511743.9 | 1650090 | 7569.89 | 2.17 |
| 14175 | 95 | 89.02 | 134.84 | 6692.75 | -5174.56 | 5655.27 | 511674.8 | 1650155 | 7664.76 | 2.35 |
| 14269 | 94 | 89.08 | 136.59 | 6694.31 | -5241.84 | 5720.89 | 511606.7 | 1650220 | 7758.65 | 1.86 |
| 14459 | 190 | 89.11 | 137.87 | 6697.31 | -5381.3 | 5849.89 | 511465.6 | 1650347 | 7948.15 | 0.67 |
| 14553 | 94 | 89.05 | 137.09 | 6698.82 | -5450.57 | 5913.42 | 511395.5 | 1650409 | 8041.87 | 0.83 |
| 14648 | 95 | 89.08 | 135.72 | 6700.37 | -5519.36 | 5978.91 | 511325.9 | 1650474 | 8136.71 | 1.44 |
| 14837 | 189 | 89.02 | 140.21 | 6703.5 | -5659.68 | 6105.42 | 511183.9 | 1650599 | 8324.98 | 2.38 |
| 14932 | 95 | 88.71 | 141.83 | 6705.39 | -5733.52 | 6165.16 | 511109.3 | 1650657 | 8419.07 | 1.74 |
| 15026 | 94 | 88.65 | 141.84 | 6707.55 | -5807.4 | 6223.23 | 511034.7 | 1650715 | 8511.98 | 0.06 |

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| MD (usft) | CL (usft) | Inc (°) | Azi (°) | TVD (usft) | NS (usft) | EW (usft) | Northing (usft) | Easting (usft) | V.Sec (usft) | Dogleg (°/100usft) |
|-----------|-----------|---------|---------|------------|-----------|-----------|-----------------|----------------|--------------|--------------------|
| 15121 | 95 | 88.68 | 142.51 | 6709.76 | -5882.42 | 6281.47 | 510958.9 | 1650772 | 8605.79 | 0.71 |
| 15189 | 68 | 88.68 | 142.51 | 6711.33 | -5936.36 | 6322.85 | 510904.5 | 1650813 | 8672.88 | |

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