



# Survey Report

HOBBS OCDD  
FEB 20 2018  
RECEIVED

Service Company: Altitude Energy Partners

Location: Jal

Well: Tour Bus 23 State 504H

Rig: H & P 650

API or UWI:

Job Number: AEP-1764

State: New Mexico

Operating Company: Centennial Resource Development LLC

County: Lea County

Magnetic Declination: 7.7

Country: United States

Proposed Azimuth: 171.30°

Comment:

North Reference: TRUE

Latitude: 32.211181

Longitude: -103.466983

## Tie-In Data

| MD   | Inclination | Azimuth | TVD  | NS   | EW   |
|------|-------------|---------|------|------|------|
| 0.00 | 0.00        | 0.00    | 0.00 | 0.00 | 0.00 |

## Survey Data

| MD      | Inclination | Azimuth | TVD     | NS   | EW    | CA     | CD   | VS    | DLS  | TEMP |
|---------|-------------|---------|---------|------|-------|--------|------|-------|------|------|
| 169.00  | 0.53        | 281.12  | 169.00  | 0.15 | -0.77 | 281.12 | 0.78 | -0.27 | 0.31 |      |
| 231.00  | 0.56        | 290.21  | 230.99  | 0.31 | -1.33 | 283.12 | 1.37 | -0.51 | 0.15 |      |
| 326.00  | 0.62        | 300.24  | 325.99  | 0.73 | -2.21 | 288.26 | 2.33 | -1.06 | 0.13 |      |
| 504.00  | 0.28        | 291.66  | 503.98  | 1.38 | -3.45 | 291.75 | 3.71 | -1.88 | 0.19 |      |
| 692.00  | 0.06        | 312.20  | 691.98  | 1.61 | -3.95 | 292.20 | 4.26 | -2.19 | 0.12 |      |
| 881.00  | 0.17        | 40.06   | 880.98  | 1.89 | -3.84 | 296.23 | 4.28 | -2.45 | 0.09 |      |
| 1069.00 | 0.11        | 353.14  | 1068.98 | 2.28 | -3.68 | 301.81 | 4.33 | -2.82 | 0.07 |      |
| 1257.00 | 0.06        | 171.81  | 1256.98 | 2.37 | -3.69 | 302.67 | 4.38 | -2.90 | 0.09 |      |
| 1351.00 | 0.08        | 171.77  | 1350.98 | 2.25 | -3.67 | 301.51 | 4.31 | -2.78 | 0.02 |      |
| 1540.00 | 0.11        | 256.86  | 1539.98 | 2.08 | -3.83 | 298.50 | 4.36 | -2.64 | 0.07 |      |

30-025-43935

|         |      |        |         |        |        |        |        |       |      |         |
|---------|------|--------|---------|--------|--------|--------|--------|-------|------|---------|
| 1690.00 | 0.13 | 307.20 | 1689.98 | 2.15   | -4.11  | 297.64 | 4.64   | -2.75 | 0.07 |         |
| 1806.00 | 0.08 | 222.77 | 1805.98 | 2.17   | -4.27  | 296.97 | 4.79   | -2.79 | 0.13 |         |
| 1900.00 | 0.17 | 211.50 | 1899.98 | 2.00   | -4.39  | 294.56 | 4.82   | -2.64 | 0.10 |         |
| 1994.00 | 0.62 | 103.43 | 1993.98 | 1.77   | -3.96  | 294.03 | 4.34   | -2.35 | 0.74 |         |
| 2088.00 | 1.68 | 104.75 | 2087.96 | 1.30   | -2.14  | 301.29 | 2.50   | -1.61 | 1.13 |         |
| 2182.00 | 2.92 | 100.89 | 2181.88 | 0.50   | 1.55   | 72.26  | 1.62   | -0.26 | 1.33 |         |
| 2276.00 | 4.70 | 99.57  | 2275.67 | -0.60  | 7.70   | 94.44  | 7.72   | 1.75  | 1.90 |         |
| 2371.00 | 6.18 | 99.92  | 2370.24 | -2.13  | 16.57  | 97.31  | 16.71  | 4.61  | 1.56 |         |
| 2465.00 | 6.65 | 99.55  | 2463.65 | -3.90  | 26.92  | 98.24  | 27.20  | 7.93  | 0.50 |         |
| 2559.00 | 6.57 | 99.32  | 2557.03 | -5.67  | 37.60  | 98.58  | 38.02  | 11.30 | 0.09 |         |
| 2653.00 | 6.69 | 99.31  | 2650.40 | -7.43  | 48.31  | 98.74  | 48.88  | 14.65 | 0.13 |         |
| 2747.00 | 6.70 | 101.17 | 2743.76 | -9.38  | 59.09  | 99.02  | 59.83  | 18.21 | 0.23 |         |
| 2841.00 | 6.81 | 99.23  | 2837.10 | -11.34 | 69.97  | 99.20  | 70.88  | 21.79 | 0.27 |         |
| 2936.00 | 6.99 | 98.74  | 2931.41 | -13.12 | 81.24  | 99.17  | 82.30  | 25.25 | 0.20 |         |
| 3030.00 | 7.08 | 97.13  | 3024.71 | -14.70 | 92.65  | 99.02  | 93.81  | 28.55 | 0.23 |         |
| 3124.00 | 7.07 | 96.67  | 3117.99 | -16.10 | 104.14 | 98.79  | 105.38 | 31.66 | 0.06 |         |
| 3218.00 | 7.05 | 97.08  | 3211.28 | -17.48 | 115.61 | 98.60  | 116.92 | 34.76 | 0.06 |         |
| 3312.00 | 6.96 | 96.02  | 3304.58 | -18.79 | 127.00 | 98.41  | 128.38 | 37.78 | 0.17 |         |
| 3406.00 | 7.07 | 96.98  | 3397.87 | -20.09 | 138.40 | 98.26  | 139.85 | 40.79 | 0.17 |         |
| 3500.00 | 6.57 | 96.90  | 3491.21 | -21.44 | 149.48 | 98.16  | 151.01 | 43.80 | 0.53 |         |
| 3594.00 | 6.23 | 97.90  | 3584.62 | -22.78 | 159.88 | 98.11  | 161.49 | 46.70 | 0.38 |         |
| 3688.00 | 5.86 | 97.17  | 3678.10 | -24.08 | 169.69 | 98.08  | 171.39 | 49.47 | 0.40 |         |
| 3782.00 | 5.52 | 96.57  | 3771.64 | -25.20 | 178.94 | 98.02  | 180.71 | 51.98 | 0.37 |         |
| 3876.00 | 5.28 | 97.99  | 3865.22 | -26.32 | 187.72 | 97.98  | 189.55 | 54.41 | 0.29 |         |
| 3970.00 | 4.94 | 99.30  | 3958.84 | -27.57 | 195.99 | 98.01  | 197.92 | 56.90 | 0.38 |         |
| 4065.00 | 5.33 | 101.57 | 4053.46 | -29.12 | 204.35 | 98.11  | 206.42 | 59.69 | 0.46 |         |
| 4159.00 | 5.71 | 98.93  | 4147.03 | -30.72 | 213.25 | 98.20  | 215.45 | 62.62 | 0.49 |         |
| 4253.00 | 5.37 | 97.60  | 4240.59 | -32.03 | 222.23 | 98.20  | 224.52 | 65.27 | 0.39 | 104.6°F |
| 4347.00 | 5.33 | 98.49  | 4334.18 | -33.25 | 230.91 | 98.20  | 233.29 | 67.80 | 0.10 | 101.0°F |
| 4441.00 | 5.74 | 102.98 | 4427.74 | -34.96 | 239.80 | 98.29  | 242.34 | 70.83 | 0.63 | 104.6°F |
| 4535.00 | 5.94 | 104.39 | 4521.25 | -37.22 | 249.10 | 98.50  | 251.86 | 74.47 | 0.26 | 104.6°F |
| 4630.00 | 6.00 | 105.64 | 4615.74 | -39.78 | 258.64 | 98.74  | 261.68 | 78.44 | 0.15 | 104.6°F |
| 4724.00 | 6.08 | 106.35 | 4709.22 | -42.51 | 268.15 | 99.01  | 271.50 | 82.58 | 0.12 | 104.6°F |
| 4818.00 | 5.87 | 106.20 | 4802.71 | -45.25 | 277.54 | 99.26  | 281.20 | 86.71 | 0.22 | 104.6°F |

|         |      |        |         |         |        |        |        |        |      |         |
|---------|------|--------|---------|---------|--------|--------|--------|--------|------|---------|
| 4912.00 | 5.72 | 107.13 | 4896.22 | -47.97  | 286.63 | 99.50  | 290.62 | 90.77  | 0.19 | 104.6°F |
| 5006.00 | 5.51 | 108.05 | 4989.77 | -50.75  | 295.40 | 99.75  | 299.73 | 94.85  | 0.24 | 104.6°F |
| 5100.00 | 5.38 | 108.46 | 5083.35 | -53.54  | 303.87 | 99.99  | 308.55 | 98.89  | 0.14 | 104.6°F |
| 5195.00 | 5.80 | 104.63 | 5177.90 | -56.16  | 312.74 | 100.18 | 317.74 | 102.82 | 0.59 | 104.6°F |
| 5289.00 | 6.21 | 101.73 | 5271.38 | -58.40  | 322.31 | 100.27 | 327.56 | 106.48 | 0.54 | 104.6°F |
| 5383.00 | 6.12 | 103.58 | 5364.84 | -60.61  | 332.16 | 100.34 | 337.65 | 110.15 | 0.23 | 104.6°F |
| 5477.00 | 5.94 | 104.62 | 5458.32 | -63.01  | 341.74 | 100.45 | 347.50 | 113.98 | 0.22 | 104.6°F |
| 5571.00 | 5.64 | 105.16 | 5551.84 | -65.45  | 350.90 | 100.56 | 356.95 | 117.77 | 0.32 | 104.6°F |
| 5612.00 | 5.75 | 105.66 | 5592.64 | -66.53  | 354.83 | 100.62 | 361.01 | 119.43 | 0.29 | 104.6°F |
| 5664.00 | 5.42 | 105.21 | 5644.39 | -67.88  | 359.70 | 100.69 | 366.05 | 121.50 | 0.64 | 104.6°F |
| 5758.00 | 5.64 | 106.65 | 5737.95 | -70.36  | 368.41 | 100.81 | 375.07 | 125.28 | 0.28 | 104.6°F |
| 5852.00 | 6.04 | 102.37 | 5831.46 | -72.75  | 377.67 | 100.90 | 384.61 | 129.04 | 0.63 | 106.5°F |
| 5946.00 | 6.30 | 102.87 | 5924.92 | -74.95  | 387.53 | 100.95 | 394.71 | 132.71 | 0.28 | 108.3°F |
| 6041.00 | 6.34 | 104.47 | 6019.34 | -77.43  | 397.69 | 101.02 | 405.16 | 136.69 | 0.19 | 111.9°F |
| 6135.00 | 6.50 | 103.90 | 6112.75 | -80.00  | 407.88 | 101.10 | 415.65 | 140.78 | 0.18 | 111.9°F |
| 6229.00 | 6.82 | 100.01 | 6206.12 | -82.25  | 418.54 | 101.12 | 426.54 | 144.61 | 0.59 | 108.3°F |
| 6324.00 | 7.11 | 99.91  | 6300.42 | -84.24  | 429.89 | 101.09 | 438.06 | 148.30 | 0.31 | 111.9°F |
| 6418.00 | 7.35 | 100.33 | 6393.67 | -86.32  | 441.53 | 101.06 | 449.89 | 152.11 | 0.26 | 111.9°F |
| 6512.00 | 7.59 | 100.36 | 6486.87 | -88.52  | 453.55 | 101.04 | 462.11 | 156.10 | 0.26 | 111.9°F |
| 6606.00 | 7.91 | 100.44 | 6580.01 | -90.80  | 466.02 | 101.03 | 474.79 | 160.25 | 0.34 | 111.9°F |
| 6700.00 | 7.68 | 100.53 | 6673.14 | -93.12  | 478.56 | 101.01 | 487.53 | 164.44 | 0.25 | 115.5°F |
| 6795.00 | 7.61 | 101.21 | 6767.30 | -95.51  | 490.97 | 101.01 | 500.17 | 168.67 | 0.12 | 115.5°F |
| 6889.00 | 7.76 | 101.93 | 6860.46 | -98.03  | 503.28 | 101.02 | 512.74 | 173.03 | 0.19 | 119.1°F |
| 6983.00 | 7.79 | 101.60 | 6953.59 | -100.62 | 515.73 | 101.04 | 525.46 | 177.47 | 0.06 | 119.1°F |
| 7077.00 | 7.54 | 99.24  | 7046.75 | -102.89 | 528.06 | 101.03 | 537.99 | 181.58 | 0.43 | 119.1°F |
| 7172.00 | 6.71 | 94.73  | 7141.02 | -104.35 | 539.74 | 100.94 | 549.74 | 184.79 | 1.05 | 119.1°F |
| 7266.00 | 5.26 | 97.95  | 7234.50 | -105.40 | 549.49 | 100.86 | 559.50 | 187.30 | 1.58 | 119.1°F |
| 7360.00 | 4.45 | 103.49 | 7328.17 | -106.85 | 557.30 | 100.85 | 567.45 | 189.92 | 0.99 | 122.7°F |
| 7455.00 | 4.79 | 94.00  | 7422.86 | -107.98 | 564.84 | 100.82 | 575.07 | 192.18 | 0.88 | 122.7°F |
| 7549.00 | 5.12 | 90.98  | 7516.51 | -108.33 | 572.95 | 100.71 | 583.10 | 193.75 | 0.45 | 122.7°F |
| 7643.00 | 5.11 | 101.31 | 7610.13 | -109.22 | 581.25 | 100.64 | 591.42 | 195.89 | 0.98 | 122.7°F |
| 7737.00 | 5.10 | 105.49 | 7703.76 | -111.16 | 589.38 | 100.68 | 599.77 | 199.03 | 0.40 | 122.7°F |
| 7832.00 | 5.10 | 104.77 | 7798.39 | -113.36 | 597.53 | 100.74 | 608.19 | 202.44 | 0.07 | 126.3°F |
| 7926.00 | 4.98 | 105.57 | 7892.02 | -115.52 | 605.50 | 100.80 | 616.42 | 205.78 | 0.15 | 126.3°F |

|          |       |        |          |         |        |        |        |        |       |         |
|----------|-------|--------|----------|---------|--------|--------|--------|--------|-------|---------|
| 8021.00  | 4.86  | 99.81  | 7986.67  | -117.32 | 613.44 | 100.83 | 624.56 | 208.76 | 0.53  | 126.3°F |
| 8115.00  | 4.97  | 95.69  | 8080.33  | -118.40 | 621.41 | 100.79 | 632.59 | 211.03 | 0.39  | 129.9°F |
| 8209.00  | 4.71  | 96.55  | 8173.99  | -119.24 | 629.30 | 100.73 | 640.50 | 213.06 | 0.29  | 129.9°F |
| 8303.00  | 5.30  | 93.94  | 8267.63  | -119.98 | 637.46 | 100.66 | 648.66 | 215.02 | 0.67  | 129.9°F |
| 8397.00  | 5.18  | 93.65  | 8361.24  | -120.55 | 646.03 | 100.57 | 657.18 | 216.88 | 0.13  | 133.6°F |
| 8491.00  | 4.71  | 94.22  | 8454.89  | -121.10 | 654.11 | 100.49 | 665.23 | 218.65 | 0.50  | 133.6°F |
| 8585.00  | 4.24  | 96.45  | 8548.60  | -121.78 | 661.42 | 100.43 | 672.53 | 220.42 | 0.53  | 133.6°F |
| 8680.00  | 4.12  | 99.11  | 8643.35  | -122.71 | 668.28 | 100.41 | 679.45 | 222.38 | 0.24  | 133.6°F |
| 8774.00  | 5.05  | 97.09  | 8737.05  | -123.76 | 675.72 | 100.38 | 686.96 | 224.54 | 1.00  | 133.6°F |
| 8868.00  | 5.31  | 96.13  | 8830.67  | -124.73 | 684.15 | 100.33 | 695.42 | 226.78 | 0.29  | 137.2°F |
| 8962.00  | 5.07  | 94.94  | 8924.28  | -125.55 | 692.61 | 100.27 | 703.90 | 228.87 | 0.28  | 137.2°F |
| 9057.00  | 5.06  | 97.07  | 9018.91  | -126.43 | 700.95 | 100.22 | 712.26 | 231.00 | 0.20  | 137.2°F |
| 9151.00  | 4.74  | 100.82 | 9112.57  | -127.67 | 708.88 | 100.21 | 720.28 | 233.43 | 0.48  | 137.2°F |
| 9246.00  | 4.15  | 104.20 | 9207.28  | -129.25 | 716.06 | 100.23 | 727.64 | 236.08 | 0.68  | 133.6°F |
| 9341.00  | 4.60  | 110.25 | 9302.00  | -131.41 | 722.97 | 100.30 | 734.82 | 239.26 | 0.68  | 133.6°F |
| 9435.00  | 4.59  | 109.96 | 9395.70  | -134.00 | 730.04 | 100.40 | 742.24 | 242.89 | 0.03  | 133.6°F |
| 9529.00  | 2.85  | 91.22  | 9489.50  | -135.34 | 735.92 | 100.42 | 748.26 | 245.09 | 2.23  | 133.6°F |
| 9623.00  | 1.49  | 45.96  | 9583.44  | -134.54 | 739.13 | 100.32 | 751.27 | 244.79 | 2.22  | 137.2°F |
| 9663.00  | 1.59  | 16.61  | 9623.43  | -133.64 | 739.66 | 100.24 | 751.64 | 243.99 | 1.97  | 137.2°F |
| 9729.00  | 1.30  | 15.84  | 9689.40  | -132.04 | 740.13 | 100.12 | 751.82 | 242.48 | 0.44  | 129.9°F |
| 9760.00  | 1.13  | 176.77 | 9720.40  | -132.01 | 740.24 | 100.11 | 751.92 | 242.46 | 7.73  | 129.9°F |
| 9792.00  | 4.13  | 182.05 | 9752.36  | -133.48 | 740.22 | 100.22 | 752.16 | 243.91 | 9.40  | 129.9°F |
| 9823.00  | 6.63  | 178.83 | 9783.23  | -136.38 | 740.22 | 100.44 | 752.67 | 246.78 | 8.12  | 129.9°F |
| 9854.00  | 9.92  | 176.78 | 9813.90  | -140.84 | 740.40 | 100.77 | 753.68 | 251.21 | 10.65 | 133.6°F |
| 9886.00  | 12.79 | 178.78 | 9845.27  | -147.13 | 740.63 | 101.24 | 755.11 | 257.47 | 9.05  | 133.6°F |
| 9917.00  | 15.53 | 175.31 | 9875.32  | -154.70 | 741.04 | 101.79 | 757.02 | 265.01 | 9.25  | 133.6°F |
| 9948.00  | 19.12 | 172.53 | 9904.91  | -163.88 | 742.04 | 102.45 | 759.92 | 274.23 | 11.88 | 133.6°F |
| 9980.00  | 20.78 | 174.45 | 9934.99  | -174.72 | 743.27 | 103.23 | 763.54 | 285.14 | 5.58  | 133.6°F |
| 10012.00 | 23.21 | 176.91 | 9964.66  | -186.67 | 744.16 | 104.08 | 767.22 | 297.09 | 8.12  | 133.6°F |
| 10043.00 | 27.06 | 178.60 | 9992.72  | -199.83 | 744.67 | 105.02 | 771.01 | 310.17 | 12.63 | 133.6°F |
| 10074.00 | 30.06 | 180.21 | 10019.95 | -214.64 | 744.81 | 106.08 | 775.12 | 324.83 | 9.99  | 137.2°F |
| 10106.00 | 33.12 | 180.34 | 10047.20 | -231.40 | 744.73 | 107.26 | 779.85 | 341.39 | 9.56  | 137.2°F |
| 10137.00 | 36.69 | 179.20 | 10072.62 | -249.14 | 744.81 | 108.50 | 785.37 | 358.93 | 11.71 | 137.2°F |
| 10169.00 | 39.92 | 178.37 | 10097.73 | -268.97 | 745.23 | 109.85 | 792.28 | 378.60 | 10.22 | 137.2°F |

|          |       |        |          |          |        |        |         |         |       |          |
|----------|-------|--------|----------|----------|--------|--------|---------|---------|-------|----------|
| 10200.00 | 42.24 | 178.02 | 10121.10 | -289.32  | 745.88 | 111.20 | 800.02  | 398.82  | 7.52  | 137.2°F  |
| 10231.00 | 44.06 | 177.82 | 10143.71 | -310.51  | 746.65 | 112.58 | 808.64  | 419.88  | 5.89  | 137.2°F  |
| 10263.00 | 46.33 | 176.83 | 10166.26 | -333.19  | 747.71 | 114.02 | 818.59  | 442.45  | 7.43  | 137.2°F  |
| 10294.00 | 48.86 | 176.29 | 10187.16 | -356.03  | 749.09 | 115.42 | 829.39  | 465.25  | 8.26  | 137.2°F  |
| 10326.00 | 52.83 | 176.90 | 10207.37 | -380.80  | 750.55 | 116.90 | 841.63  | 489.95  | 12.49 | 137.2°F  |
| 10357.00 | 56.68 | 177.70 | 10225.25 | -406.08  | 751.74 | 118.38 | 854.41  | 515.12  | 12.60 | 137.2°F  |
| 10389.00 | 60.37 | 178.09 | 10241.96 | -433.35  | 752.74 | 119.93 | 868.57  | 542.23  | 11.58 | 137.2°F  |
| 10420.00 | 64.22 | 178.65 | 10256.37 | -460.78  | 753.52 | 121.45 | 883.24  | 569.46  | 12.52 | 140.8°F  |
| 10451.00 | 66.08 | 179.06 | 10269.39 | -488.91  | 754.08 | 122.96 | 898.70  | 597.34  | 6.12  | 140.8°F  |
| 10483.00 | 67.61 | 179.51 | 10281.98 | -518.32  | 754.45 | 124.49 | 915.34  | 626.48  | 4.95  | 140.8°F  |
| 10514.00 | 69.24 | 179.75 | 10293.38 | -547.15  | 754.64 | 125.94 | 932.12  | 655.00  | 5.31  | 137.2°F  |
| 10546.00 | 71.28 | 179.93 | 10304.18 | -577.27  | 754.72 | 127.41 | 950.18  | 684.79  | 6.40  | 140.8°F  |
| 10577.00 | 73.33 | 180.24 | 10313.60 | -606.80  | 754.67 | 128.80 | 968.37  | 713.97  | 6.68  | 140.8°F  |
| 10609.00 | 75.24 | 180.64 | 10322.27 | -637.60  | 754.44 | 130.20 | 987.78  | 744.38  | 6.09  | 140.8°F  |
| 10640.00 | 77.51 | 180.43 | 10329.57 | -667.73  | 754.16 | 131.52 | 1007.28 | 774.12  | 7.35  | 140.8°F  |
| 10672.00 | 79.50 | 181.22 | 10335.95 | -699.08  | 753.70 | 132.85 | 1028.00 | 805.04  | 6.67  | 140.8°F  |
| 10703.00 | 80.99 | 181.84 | 10341.20 | -729.62  | 752.89 | 134.10 | 1048.42 | 835.11  | 5.19  | 140.8°F  |
| 10766.00 | 85.91 | 181.92 | 10348.39 | -792.16  | 750.84 | 136.53 | 1091.45 | 896.61  | 7.81  | 140.8°F  |
| 10785.00 | 86.81 | 181.98 | 10349.59 | -811.11  | 750.19 | 137.23 | 1104.84 | 915.25  | 4.75  | 144.6°F  |
| 10879.00 | 89.10 | 181.97 | 10352.95 | -904.98  | 746.95 | 140.46 | 1173.43 | 1007.56 | 2.44  | 144.6°F  |
| 10974.00 | 90.32 | 181.47 | 10353.43 | -999.94  | 744.10 | 143.35 | 1246.42 | 1100.99 | 1.39  | 148..0°F |
| 11068.00 | 89.61 | 180.59 | 10353.49 | -1093.92 | 742.41 | 145.84 | 1322.06 | 1193.63 | 1.20  | 148.0°F  |
| 11162.00 | 89.27 | 179.91 | 10354.40 | -1187.91 | 742.00 | 148.01 | 1400.61 | 1286.48 | 0.81  | 148.0°F  |
| 11256.00 | 89.22 | 179.16 | 10355.64 | -1281.90 | 742.76 | 149.91 | 1481.54 | 1379.50 | 0.80  | 148.0°F  |
| 11351.00 | 90.00 | 179.51 | 10356.29 | -1376.89 | 743.87 | 151.62 | 1564.98 | 1473.57 | 0.90  | 151.6°F  |
| 11445.00 | 91.23 | 179.34 | 10355.28 | -1470.88 | 744.81 | 153.14 | 1648.71 | 1566.62 | 1.32  | 151.6°F  |
| 11539.00 | 90.22 | 179.22 | 10354.09 | -1564.87 | 745.99 | 154.51 | 1733.58 | 1659.70 | 1.08  | 151.6°F  |
| 11633.00 | 91.51 | 179.14 | 10352.67 | -1658.84 | 747.34 | 155.75 | 1819.42 | 1752.80 | 1.37  | 155.2°F  |
| 11728.00 | 91.12 | 179.20 | 10350.49 | -1753.81 | 748.71 | 156.88 | 1906.94 | 1846.88 | 0.42  | 155.2°F  |
| 11822.00 | 89.78 | 179.03 | 10349.75 | -1847.79 | 750.16 | 157.90 | 1994.26 | 1940.00 | 1.44  | 155.6°F  |
| 11916.00 | 87.14 | 178.73 | 10352.28 | -1941.73 | 752.00 | 158.83 | 2082.26 | 2033.14 | 2.83  | 155.2°F  |
| 12010.00 | 86.97 | 178.19 | 10357.11 | -2035.57 | 754.52 | 159.66 | 2170.91 | 2126.28 | 0.60  | 155.2°F  |
| 12104.00 | 87.48 | 178.40 | 10361.66 | -2129.42 | 757.32 | 160.42 | 2260.08 | 2219.47 | 0.59  | 158.9°F  |
| 12199.00 | 87.31 | 178.50 | 10365.98 | -2224.29 | 759.88 | 161.14 | 2350.51 | 2313.64 | 0.21  | 158.9°F  |

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|----------|-------|--------|----------|----------|--------|--------|---------|---------|------|---------|
| 12294.00 | 86.64 | 178.96 | 10370.99 | -2319.13 | 761.99 | 161.81 | 2441.10 | 2407.71 | 0.86 | 158.9°F |
| 12388.00 | 86.81 | 179.16 | 10376.36 | -2412.96 | 763.53 | 162.44 | 2530.88 | 2500.69 | 0.28 | 158.9°F |
| 12482.00 | 86.53 | 179.84 | 10381.82 | -2506.80 | 764.35 | 163.04 | 2620.74 | 2593.57 | 0.78 | 158.9°F |
| 12576.00 | 86.30 | 180.05 | 10387.70 | -2600.62 | 764.44 | 163.62 | 2710.64 | 2686.32 | 0.33 | 158.9°F |
| 12670.00 | 87.03 | 180.16 | 10393.17 | -2694.46 | 764.26 | 164.16 | 2800.75 | 2779.06 | 0.79 | 158.9°F |
| 12765.00 | 88.38 | 180.74 | 10396.97 | -2789.38 | 763.52 | 164.69 | 2891.99 | 2872.77 | 1.55 | 158.9°F |
| 12859.00 | 89.55 | 181.11 | 10398.67 | -2883.35 | 762.00 | 165.20 | 2982.34 | 2965.43 | 1.31 | 158.9°F |
| 12953.00 | 89.94 | 180.53 | 10399.09 | -2977.34 | 760.66 | 165.67 | 3072.97 | 3058.14 | 0.74 | 158.9°F |
| 13047.00 | 89.72 | 180.31 | 10399.37 | -3071.33 | 759.97 | 166.10 | 3163.96 | 3150.95 | 0.33 | 58.9°F  |
| 13142.00 | 90.39 | 180.08 | 10399.28 | -3166.33 | 759.64 | 166.51 | 3256.18 | 3244.80 | 0.75 | 158.9°F |
| 13236.00 | 89.66 | 180.01 | 10399.23 | -3260.33 | 759.57 | 166.89 | 3347.64 | 3337.71 | 0.78 | 158.9°F |
| 13330.00 | 88.71 | 180.41 | 10400.57 | -3354.32 | 759.22 | 167.25 | 3439.17 | 3430.56 | 1.10 | 158.9°F |
| 13424.00 | 89.38 | 180.41 | 10402.14 | -3448.30 | 758.55 | 167.59 | 3530.75 | 3523.37 | 0.71 | 158.9°F |
| 13518.00 | 90.06 | 180.04 | 10402.60 | -3542.30 | 758.18 | 167.92 | 3622.53 | 3616.23 | 0.82 | 158.9°F |
| 13613.00 | 89.89 | 180.05 | 10402.64 | -3637.30 | 758.11 | 168.23 | 3715.47 | 3710.12 | 0.18 | 158.9°F |
| 13707.00 | 89.10 | 179.78 | 10403.47 | -3731.30 | 758.25 | 168.51 | 3807.56 | 3803.06 | 0.89 | 158.9°F |
| 13801.00 | 89.55 | 179.32 | 10404.58 | -3825.29 | 758.99 | 168.78 | 3899.86 | 3896.08 | 0.68 | 158.9°F |
| 13895.00 | 90.06 | 179.25 | 10404.90 | -3919.28 | 760.16 | 169.02 | 3992.32 | 3989.16 | 0.55 | 158.9°F |
| 13989.00 | 87.98 | 179.35 | 10406.50 | -4013.25 | 761.31 | 169.26 | 4084.82 | 4082.23 | 2.22 | 158.9°F |
| 14084.00 | 88.94 | 179.57 | 10409.06 | -4108.21 | 762.20 | 169.49 | 4178.32 | 4176.23 | 1.04 | 158.9°F |
| 14178.00 | 88.15 | 179.26 | 10411.44 | -4202.18 | 763.16 | 169.71 | 4270.91 | 4269.26 | 0.90 | 158.9°F |
| 14273.00 | 88.10 | 178.85 | 10414.55 | -4297.11 | 764.73 | 169.91 | 4364.63 | 4363.34 | 0.43 | 162.5°F |
| 14367.00 | 88.54 | 178.82 | 10417.31 | -4391.05 | 766.64 | 170.10 | 4457.47 | 4456.49 | 0.47 | 162.5°F |
| 14461.00 | 88.93 | 178.49 | 10419.38 | -4485.00 | 768.84 | 170.27 | 4550.43 | 4549.69 | 0.54 | 162.5°F |
| 14556.00 | 89.10 | 178.79 | 10421.02 | -4579.96 | 771.10 | 170.44 | 4644.42 | 4643.90 | 0.36 | 162.5°F |
| 14650.00 | 89.72 | 178.70 | 10421.98 | -4673.93 | 773.16 | 170.61 | 4737.45 | 4737.10 | 0.67 | 162.5°F |
| 14719.00 | 90.11 | 178.73 | 10422.09 | -4742.92 | 774.70 | 170.72 | 4805.77 | 4805.53 | 0.57 | 162.5°F |
| 14782.00 | 90.11 | 178.73 | 10421.95 | -4805.90 | 776.10 | 170.83 | 4868.16 | 4868.00 | 0.00 | 162.5°F |
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Bit Projection