



Weld County, Colorado
Section 34-T01N-R65W
Buford 33-01-3L
plan1

| | | | |
|------------------------------------------------|------------|-------------|---------------|
| Buford 33-01-3L | | | |
| Surf loc: 770 FSL 969 FWL Section 34-T01N-R65W | | | |
| NAD83 Colorado - HARN | | | |
| Universal Transverse Mercator (US Survey Feet) | | | |
| Zone 13N (108 W to 102 W) | | | |
| RKB=5136+25 @ 5161.00ft | | | |
| Northing | Easting | Latitude | Longitude |
| 14527893.60 | 1736725.30 | 40.00267568 | -104.65609011 |

Azimuth Corrections:

To convert a Magnetic Direction to a True Direction, Add 8.28° East

Section Details

| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | Vsect | Annotation |
|-----|----------|-------|--------|---------|---------|----------|-------|---------|---------------------------------|
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2 | 5000.00 | 0.00 | 0.00 | 5000.00 | 0.00 | 0.00 | 0.00 | 0.00 | KOP Begin 10°/100' build |
| 3 | 5406.25 | 40.62 | 230.27 | 5373.06 | -88.26 | -106.20 | 10.00 | -70.34 | Begin 40.62° tangent section |
| 4 | 7174.80 | 40.62 | 230.27 | 6715.37 | -824.29 | -991.78 | 0.00 | -656.94 | Begin 10°/100' build/turn |
| 5 | 8316.78 | 89.97 | 359.33 | 7388.00 | -307.30 | -1445.61 | 10.00 | -74.64 | LP Begin 89.97° lateral section |
| 6 | 13155.32 | 89.97 | 359.33 | 7390.50 | 4530.91 | -1502.27 | 0.00 | 4711.56 | Begin 2°/100' turn |
| 7 | 13190.89 | 89.97 | 0.04 | 7390.52 | 4566.47 | -1502.47 | 2.00 | 4746.71 | Begin 89.97° lateral section |
| 8 | 17977.14 | 89.97 | 0.04 | 7393.00 | 9352.72 | -1499.10 | 0.00 | 9472.10 | PBHL/TD 17977.14 MD 7393.00 TVD |

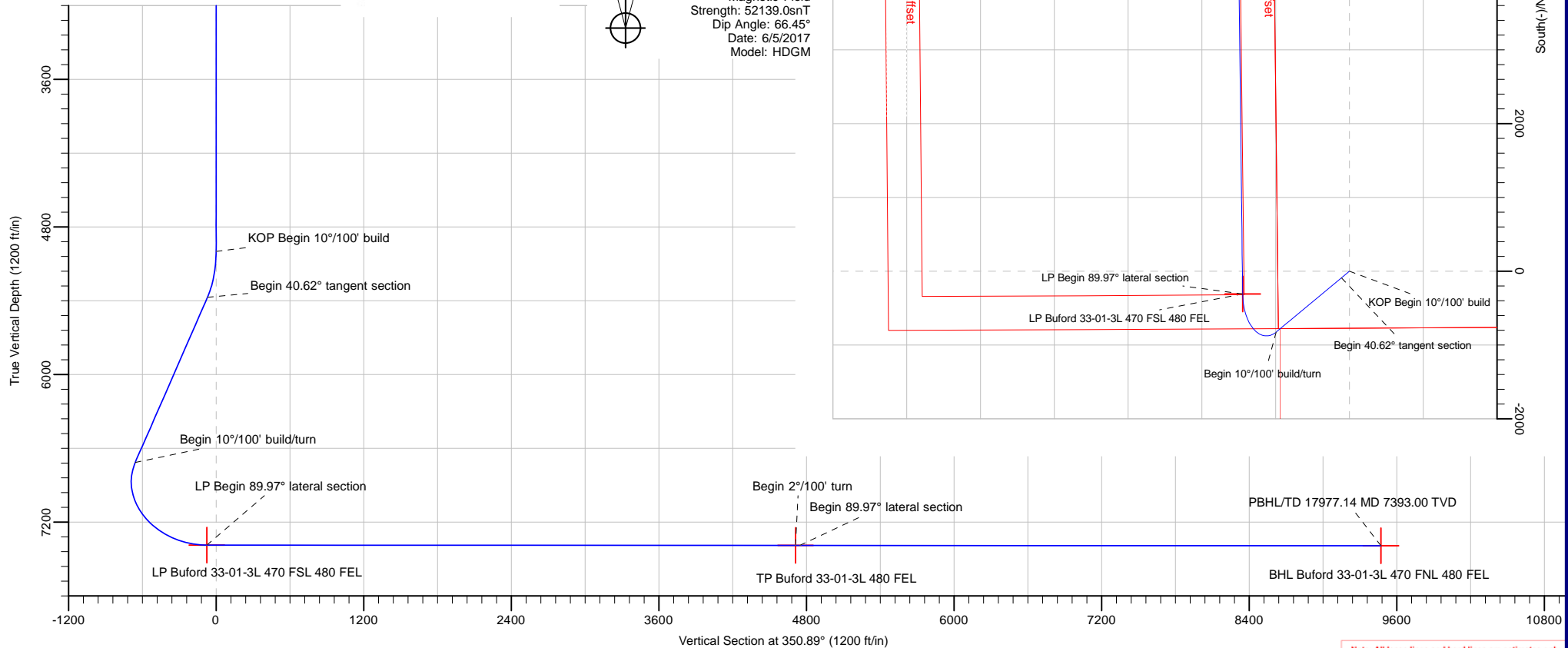
DESIGN TARGET DETAILS

| Name | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
|-------------------------------------|---------|---------|----------|-------------|------------|-------------|---------------|
| LP Buford 33-01-3L 470 FSL 480 FEL | 7388.00 | -307.30 | -1445.61 | 14527893.60 | 1735279.69 | 40.00184699 | -104.66125634 |
| TP Buford 33-01-3L 480 FEL | 7390.50 | 4530.91 | -1502.27 | 14532424.50 | 1735223.03 | 40.01513396 | -104.66139302 |
| BHL Buford 33-01-3L 470 FNL 480 FEL | 7393.00 | 9352.72 | -1499.10 | 14537246.30 | 1735226.20 | 40.02837524 | -104.66131624 |



Azimuths to Grid North
True North: -0.22°
Magnetic North: 8.06°

Magnetic Field
Strength: 52139.0snT
Dip Angle: 66.45°
Date: 6/5/2017
Model: HDGM



Note: All lease lines and hard lines are estimates only and are subject to customers approval.

| | | | |
|------------------|-----------------------|-------------------------------------|-------------------------|
| Database: | DB_Aug0116_LT_v14 | Local Co-ordinate Reference: | Well Buford 33-01-3L |
| Company: | Confluence Resources | TVD Reference: | RKB=5136+25 @ 5161.00ft |
| Project: | Weld County, Colorado | MD Reference: | RKB=5136+25 @ 5161.00ft |
| Site: | Section 34-T01N-R65W | North Reference: | Grid |
| Well: | Buford 33-01-3L | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Original Hole | | |
| Design: | plan1 | | |

| | | | |
|--------------------|------------------------------------------------|----------------------|----------------|
| Project | Weld County, Colorado | | |
| Map System: | Universal Transverse Mercator (US Survey Feet) | System Datum: | Mean Sea Level |
| Geo Datum: | NAD83 Colorado - HARN | | |
| Map Zone: | Zone 13N (108 W to 102 W) | | |

| | | | | | |
|-----------------------|---------|----------------------|--------------------|-------------------|---------------|
| Site | | Section 34-T01N-R65W | | | |
| Site Position: | | Northing: | 14,527,892.80 usft | Latitude: | 40.00267560 |
| From: | Map | Easting: | 1,736,525.30 usft | Longitude: | -104.65680429 |
| Position Uncertainty: | 0.00 ft | Slot Radius: | 13-3/16 " | Grid Convergence: | 0.22 ° |

| | | | | | | |
|----------------------|-----------------------------------------------------------------|-----------|---------------------|--------------------|---------------|---------------|
| Well | Buford 33-01-3L, Surf loc: 770 FSL 969 FWL Section 34-T01N-R65W | | | | | |
| Well Position | +N/-S | 0.80 ft | Northing: | 14,527,893.60 usft | Latitude: | 40.00267568 |
| | +E/-W | 200.00 ft | Easting: | 1,736,725.30 usft | Longitude: | -104.65609010 |
| Position Uncertainty | | 0.00 ft | Wellhead Elevation: | | Ground Level: | 5,136.00 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Original Hole | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | HDGM | 6/5/2017 | 8.28 | 66.45 | 52,139.00000000 |

| | | | | |
|--------------------------|------------------------------|-------------------|----------------------|----------------------|
| Design | plan1 | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PLAN | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) |
| | 0.00 | 0.00 | 0.00 | 350.89 |

| | | | | |
|---------------------------------|----------------------|--------------------------|-----------------------|----------------|
| Plan Survey Tool Program | Date | 6/5/2017 | | |
| Depth From (ft) | Depth To (ft) | Survey (Wellbore) | Tool Name | Remarks |
| 1 | 0.00 | 17,977.14 | plan1 (Original Hole) | |

| | | | | | | | | | | |
|----------------------------|------------------------|--------------------|----------------------------|-------------------|-------------------|------------------------------|-----------------------------|----------------------------|----------------|-----------------------|
| Plan Sections | | | | | | | | | | |
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 5,000.00 | 0.00 | 0.00 | 5,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 5,406.25 | 40.62 | 230.27 | 5,373.06 | -88.26 | -106.20 | 10.00 | 10.00 | 0.00 | 230.27 | |
| 7,174.80 | 40.62 | 230.27 | 6,715.37 | -824.29 | -991.78 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 8,316.78 | 89.97 | 359.33 | 7,388.00 | -307.30 | -1,445.61 | 10.00 | 4.32 | 11.30 | 121.65 | LP Buford 33-01-3L 4' |
| 13,155.32 | 89.97 | 359.33 | 7,390.50 | 4,530.91 | -1,502.27 | 0.00 | 0.00 | 0.00 | 0.00 | TP Buford 33-01-3L 4' |
| 13,190.89 | 89.97 | 0.04 | 7,390.52 | 4,566.47 | -1,502.47 | 2.00 | 0.00 | 2.00 | 90.01 | |
| 17,977.14 | 89.97 | 0.04 | 7,393.00 | 9,352.72 | -1,499.10 | 0.00 | 0.00 | 0.00 | 0.00 | BHL Buford 33-01-3L |

| | | | |
|------------------|-----------------------|-------------------------------------|-------------------------|
| Database: | DB_Aug0116_LT_v14 | Local Co-ordinate Reference: | Well Buford 33-01-3L |
| Company: | Confluence Resources | TVD Reference: | RKB=5136+25 @ 5161.00ft |
| Project: | Weld County, Colorado | MD Reference: | RKB=5136+25 @ 5161.00ft |
| Site: | Section 34-T01N-R65W | North Reference: | Grid |
| Well: | Buford 33-01-3L | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Original Hole | | |
| Design: | plan1 | | |

| Planned Survey | | | | | | | | | |
|--------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 200.00 | 0.00 | 0.00 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 300.00 | 0.00 | 0.00 | 300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 400.00 | 0.00 | 0.00 | 400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 500.00 | 0.00 | 0.00 | 500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 600.00 | 0.00 | 0.00 | 600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 700.00 | 0.00 | 0.00 | 700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 800.00 | 0.00 | 0.00 | 800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 900.00 | 0.00 | 0.00 | 900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,000.00 | 0.00 | 0.00 | 1,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,100.00 | 0.00 | 0.00 | 1,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,200.00 | 0.00 | 0.00 | 1,200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,300.00 | 0.00 | 0.00 | 1,300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,400.00 | 0.00 | 0.00 | 1,400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,500.00 | 0.00 | 0.00 | 1,500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,600.00 | 0.00 | 0.00 | 1,600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,700.00 | 0.00 | 0.00 | 1,700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,800.00 | 0.00 | 0.00 | 1,800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,900.00 | 0.00 | 0.00 | 1,900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,000.00 | 0.00 | 0.00 | 2,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,100.00 | 0.00 | 0.00 | 2,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,200.00 | 0.00 | 0.00 | 2,200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,300.00 | 0.00 | 0.00 | 2,300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,400.00 | 0.00 | 0.00 | 2,400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,500.01 | 0.00 | 0.00 | 2,500.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,600.01 | 0.00 | 0.00 | 2,600.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,700.01 | 0.00 | 0.00 | 2,700.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,800.01 | 0.00 | 0.00 | 2,800.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,900.01 | 0.00 | 0.00 | 2,900.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,000.01 | 0.00 | 0.00 | 3,000.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,100.01 | 0.00 | 0.00 | 3,100.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,200.01 | 0.00 | 0.00 | 3,200.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,300.01 | 0.00 | 0.00 | 3,300.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,400.01 | 0.00 | 0.00 | 3,400.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,500.01 | 0.00 | 0.00 | 3,500.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,600.01 | 0.00 | 0.00 | 3,600.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,700.01 | 0.00 | 0.00 | 3,700.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,800.01 | 0.00 | 0.00 | 3,800.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,900.01 | 0.00 | 0.00 | 3,900.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,000.01 | 0.00 | 0.00 | 4,000.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,100.01 | 0.00 | 0.00 | 4,100.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,200.01 | 0.00 | 0.00 | 4,200.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,300.01 | 0.00 | 0.00 | 4,300.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,400.01 | 0.00 | 0.00 | 4,400.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,500.01 | 0.00 | 0.00 | 4,500.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,600.01 | 0.00 | 0.00 | 4,600.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,700.01 | 0.00 | 0.00 | 4,700.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,800.01 | 0.00 | 0.00 | 4,800.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,900.01 | 0.00 | 0.00 | 4,900.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,000.00 | 0.00 | 0.00 | 5,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| KOP Begin 10°/100' build | | | | | | | | | |
| 5,000.01 | 0.00 | 230.27 | 5,000.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,100.01 | 10.00 | 230.27 | 5,099.50 | -5.56 | -6.70 | -4.44 | 10.00 | 10.00 | 0.00 |

| | | | |
|------------------|-----------------------|-------------------------------------|-------------------------|
| Database: | DB_Aug0116_LT_v14 | Local Co-ordinate Reference: | Well Buford 33-01-3L |
| Company: | Confluence Resources | TVD Reference: | RKB=5136+25 @ 5161.00ft |
| Project: | Weld County, Colorado | MD Reference: | RKB=5136+25 @ 5161.00ft |
| Site: | Section 34-T01N-R65W | North Reference: | Grid |
| Well: | Buford 33-01-3L | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Original Hole | | |
| Design: | plan1 | | |

| Planned Survey | | | | | | | | | |
|---------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 5,200.01 | 20.00 | 230.27 | 5,195.97 | -22.09 | -26.58 | -17.60 | 10.00 | 10.00 | 0.00 |
| 5,300.01 | 30.00 | 230.27 | 5,286.49 | -49.07 | -59.04 | -39.11 | 10.00 | 10.00 | 0.00 |
| 5,400.01 | 40.00 | 230.27 | 5,368.30 | -85.68 | -103.09 | -68.29 | 10.00 | 10.00 | 0.00 |
| 5,406.25 | 40.62 | 230.27 | 5,373.06 | -88.26 | -106.20 | -70.34 | 10.02 | 10.02 | 0.00 |
| Begin 40.62° tangent section | | | | | | | | | |
| 5,500.01 | 40.62 | 230.27 | 5,444.22 | -127.29 | -153.15 | -101.44 | 0.00 | 0.00 | 0.00 |
| 5,600.01 | 40.62 | 230.27 | 5,520.12 | -168.90 | -203.22 | -134.61 | 0.00 | 0.00 | 0.00 |
| 5,700.01 | 40.62 | 230.27 | 5,596.02 | -210.52 | -253.30 | -167.78 | 0.00 | 0.00 | 0.00 |
| 5,800.01 | 40.62 | 230.27 | 5,671.92 | -252.14 | -303.37 | -200.95 | 0.00 | 0.00 | 0.00 |
| 5,900.01 | 40.62 | 230.27 | 5,747.82 | -293.75 | -353.44 | -234.11 | 0.00 | 0.00 | 0.00 |
| 6,000.01 | 40.62 | 230.27 | 5,823.71 | -335.37 | -403.52 | -267.28 | 0.00 | 0.00 | 0.00 |
| 6,100.01 | 40.62 | 230.27 | 5,899.61 | -376.99 | -453.59 | -300.45 | 0.00 | 0.00 | 0.00 |
| 6,200.01 | 40.62 | 230.27 | 5,975.51 | -418.61 | -503.67 | -333.62 | 0.00 | 0.00 | 0.00 |
| 6,300.01 | 40.62 | 230.27 | 6,051.41 | -460.22 | -553.74 | -366.79 | 0.00 | 0.00 | 0.00 |
| 6,400.01 | 40.62 | 230.27 | 6,127.31 | -501.84 | -603.81 | -399.95 | 0.00 | 0.00 | 0.00 |
| 6,500.01 | 40.62 | 230.27 | 6,203.21 | -543.46 | -653.89 | -433.12 | 0.00 | 0.00 | 0.00 |
| 6,600.01 | 40.62 | 230.27 | 6,279.11 | -585.08 | -703.96 | -466.29 | 0.00 | 0.00 | 0.00 |
| 6,700.01 | 40.62 | 230.27 | 6,355.01 | -626.69 | -754.03 | -499.46 | 0.00 | 0.00 | 0.00 |
| 6,800.01 | 40.62 | 230.27 | 6,430.91 | -668.31 | -804.11 | -532.63 | 0.00 | 0.00 | 0.00 |
| 6,900.01 | 40.62 | 230.27 | 6,506.80 | -709.93 | -854.18 | -565.79 | 0.00 | 0.00 | 0.00 |
| 7,000.01 | 40.62 | 230.27 | 6,582.70 | -751.55 | -904.26 | -598.96 | 0.00 | 0.00 | 0.00 |
| 7,100.01 | 40.62 | 230.27 | 6,658.60 | -793.16 | -954.33 | -632.13 | 0.00 | 0.00 | 0.00 |
| 7,174.80 | 40.62 | 230.27 | 6,715.37 | -824.29 | -991.78 | -656.94 | 0.00 | 0.00 | 0.00 |
| Begin 10°/100' build/turn | | | | | | | | | |
| 7,200.01 | 39.35 | 233.65 | 6,734.68 | -834.27 | -1,004.53 | -664.78 | 9.99 | -5.05 | 13.42 |
| 7,300.01 | 35.41 | 248.84 | 6,814.30 | -863.59 | -1,057.22 | -685.39 | 10.00 | -3.94 | 15.19 |
| 7,400.01 | 33.70 | 266.26 | 6,896.86 | -875.89 | -1,112.06 | -688.85 | 10.00 | -1.71 | 17.42 |
| 7,500.02 | 34.55 | 284.07 | 6,979.85 | -870.79 | -1,167.39 | -675.06 | 10.00 | 0.85 | 17.81 |
| 7,600.02 | 37.79 | 300.15 | 7,060.75 | -848.45 | -1,221.52 | -644.43 | 10.00 | 3.24 | 16.08 |
| 7,700.02 | 42.87 | 313.50 | 7,137.11 | -809.55 | -1,272.82 | -597.90 | 10.00 | 5.08 | 13.35 |
| 7,800.02 | 49.21 | 324.27 | 7,206.60 | -755.26 | -1,319.71 | -536.88 | 10.00 | 6.34 | 10.77 |
| 7,900.02 | 56.37 | 333.06 | 7,267.11 | -687.25 | -1,360.78 | -463.22 | 10.00 | 7.16 | 8.78 |
| 8,000.02 | 64.05 | 340.44 | 7,316.80 | -607.56 | -1,394.78 | -379.16 | 10.00 | 7.68 | 7.39 |
| 8,100.02 | 72.06 | 346.90 | 7,354.17 | -518.64 | -1,420.68 | -287.26 | 10.00 | 8.01 | 6.46 |
| 8,200.02 | 80.27 | 352.79 | 7,378.07 | -423.17 | -1,437.68 | -190.30 | 10.00 | 8.21 | 5.89 |
| 8,300.02 | 88.57 | 358.40 | 7,387.79 | -324.06 | -1,445.28 | -91.24 | 10.00 | 8.30 | 5.61 |
| 8,316.78 | 89.97 | 359.33 | 7,388.00 | -307.30 | -1,445.61 | -74.64 | 10.01 | 8.33 | 5.55 |
| LP Begin 89.97° lateral section | | | | | | | | | |
| 8,400.02 | 89.97 | 359.33 | 7,388.04 | -224.07 | -1,446.59 | 7.70 | 0.00 | 0.00 | 0.00 |
| 8,500.02 | 89.97 | 359.33 | 7,388.09 | -124.08 | -1,447.76 | 106.62 | 0.00 | 0.00 | 0.00 |
| 8,600.02 | 89.97 | 359.33 | 7,388.15 | -24.08 | -1,448.93 | 205.53 | 0.00 | 0.00 | 0.00 |
| 8,700.02 | 89.97 | 359.33 | 7,388.20 | 75.91 | -1,450.10 | 304.45 | 0.00 | 0.00 | 0.00 |
| 8,800.02 | 89.97 | 359.33 | 7,388.25 | 175.90 | -1,451.27 | 403.37 | 0.00 | 0.00 | 0.00 |
| 8,900.02 | 89.97 | 359.33 | 7,388.30 | 275.90 | -1,452.44 | 502.29 | 0.00 | 0.00 | 0.00 |
| 9,000.02 | 89.97 | 359.33 | 7,388.35 | 375.89 | -1,453.61 | 601.21 | 0.00 | 0.00 | 0.00 |
| 9,100.02 | 89.97 | 359.33 | 7,388.40 | 475.88 | -1,454.78 | 700.13 | 0.00 | 0.00 | 0.00 |
| 9,200.02 | 89.97 | 359.33 | 7,388.46 | 575.88 | -1,455.96 | 799.04 | 0.00 | 0.00 | 0.00 |
| 9,300.02 | 89.97 | 359.33 | 7,388.51 | 675.87 | -1,457.13 | 897.96 | 0.00 | 0.00 | 0.00 |
| 9,400.02 | 89.97 | 359.33 | 7,388.56 | 775.86 | -1,458.30 | 996.88 | 0.00 | 0.00 | 0.00 |
| 9,500.02 | 89.97 | 359.33 | 7,388.61 | 875.86 | -1,459.47 | 1,095.80 | 0.00 | 0.00 | 0.00 |
| 9,600.02 | 89.97 | 359.33 | 7,388.66 | 975.85 | -1,460.64 | 1,194.72 | 0.00 | 0.00 | 0.00 |
| 9,700.02 | 89.97 | 359.33 | 7,388.71 | 1,075.84 | -1,461.81 | 1,293.64 | 0.00 | 0.00 | 0.00 |
| 9,800.02 | 89.97 | 359.33 | 7,388.77 | 1,175.84 | -1,462.98 | 1,392.55 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|-----------------------|-------------------------------------|-------------------------|
| Database: | DB_Aug0116_LT_v14 | Local Co-ordinate Reference: | Well Buford 33-01-3L |
| Company: | Confluence Resources | TVD Reference: | RKB=5136+25 @ 5161.00ft |
| Project: | Weld County, Colorado | MD Reference: | RKB=5136+25 @ 5161.00ft |
| Site: | Section 34-T01N-R65W | North Reference: | Grid |
| Well: | Buford 33-01-3L | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Original Hole | | |
| Design: | plan1 | | |

| Planned Survey | | | | | | | | | |
|-------------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 9,900.02 | 89.97 | 359.33 | 7,388.82 | 1,275.83 | -1,464.15 | 1,491.47 | 0.00 | 0.00 | 0.00 |
| 10,000.02 | 89.97 | 359.33 | 7,388.87 | 1,375.82 | -1,465.32 | 1,590.39 | 0.00 | 0.00 | 0.00 |
| 10,100.02 | 89.97 | 359.33 | 7,388.92 | 1,475.82 | -1,466.49 | 1,689.31 | 0.00 | 0.00 | 0.00 |
| 10,200.02 | 89.97 | 359.33 | 7,388.97 | 1,575.81 | -1,467.67 | 1,788.23 | 0.00 | 0.00 | 0.00 |
| 10,300.02 | 89.97 | 359.33 | 7,389.02 | 1,675.80 | -1,468.84 | 1,887.15 | 0.00 | 0.00 | 0.00 |
| 10,400.02 | 89.97 | 359.33 | 7,389.08 | 1,775.80 | -1,470.01 | 1,986.07 | 0.00 | 0.00 | 0.00 |
| 10,500.02 | 89.97 | 359.33 | 7,389.13 | 1,875.79 | -1,471.18 | 2,084.98 | 0.00 | 0.00 | 0.00 |
| 10,600.02 | 89.97 | 359.33 | 7,389.18 | 1,975.78 | -1,472.35 | 2,183.90 | 0.00 | 0.00 | 0.00 |
| 10,700.02 | 89.97 | 359.33 | 7,389.23 | 2,075.78 | -1,473.52 | 2,282.82 | 0.00 | 0.00 | 0.00 |
| 10,800.02 | 89.97 | 359.33 | 7,389.28 | 2,175.77 | -1,474.69 | 2,381.74 | 0.00 | 0.00 | 0.00 |
| 10,900.02 | 89.97 | 359.33 | 7,389.33 | 2,275.76 | -1,475.86 | 2,480.66 | 0.00 | 0.00 | 0.00 |
| 11,000.02 | 89.97 | 359.33 | 7,389.39 | 2,375.76 | -1,477.03 | 2,579.58 | 0.00 | 0.00 | 0.00 |
| 11,100.02 | 89.97 | 359.33 | 7,389.44 | 2,475.75 | -1,478.21 | 2,678.49 | 0.00 | 0.00 | 0.00 |
| 11,200.02 | 89.97 | 359.33 | 7,389.49 | 2,575.74 | -1,479.38 | 2,777.41 | 0.00 | 0.00 | 0.00 |
| 11,300.02 | 89.97 | 359.33 | 7,389.54 | 2,675.74 | -1,480.55 | 2,876.33 | 0.00 | 0.00 | 0.00 |
| 11,400.02 | 89.97 | 359.33 | 7,389.59 | 2,775.73 | -1,481.72 | 2,975.25 | 0.00 | 0.00 | 0.00 |
| 11,500.02 | 89.97 | 359.33 | 7,389.64 | 2,875.72 | -1,482.89 | 3,074.17 | 0.00 | 0.00 | 0.00 |
| 11,600.02 | 89.97 | 359.33 | 7,389.70 | 2,975.72 | -1,484.06 | 3,173.09 | 0.00 | 0.00 | 0.00 |
| 11,700.02 | 89.97 | 359.33 | 7,389.75 | 3,075.71 | -1,485.23 | 3,272.00 | 0.00 | 0.00 | 0.00 |
| 11,800.02 | 89.97 | 359.33 | 7,389.80 | 3,175.70 | -1,486.40 | 3,370.92 | 0.00 | 0.00 | 0.00 |
| 11,900.02 | 89.97 | 359.33 | 7,389.85 | 3,275.70 | -1,487.57 | 3,469.84 | 0.00 | 0.00 | 0.00 |
| 12,000.02 | 89.97 | 359.33 | 7,389.90 | 3,375.69 | -1,488.74 | 3,568.76 | 0.00 | 0.00 | 0.00 |
| 12,100.02 | 89.97 | 359.33 | 7,389.95 | 3,475.68 | -1,489.92 | 3,667.68 | 0.00 | 0.00 | 0.00 |
| 12,200.02 | 89.97 | 359.33 | 7,390.01 | 3,575.68 | -1,491.09 | 3,766.60 | 0.00 | 0.00 | 0.00 |
| 12,300.02 | 89.97 | 359.33 | 7,390.06 | 3,675.67 | -1,492.26 | 3,865.52 | 0.00 | 0.00 | 0.00 |
| 12,400.03 | 89.97 | 359.33 | 7,390.11 | 3,775.66 | -1,493.43 | 3,964.43 | 0.00 | 0.00 | 0.00 |
| 12,500.03 | 89.97 | 359.33 | 7,390.16 | 3,875.66 | -1,494.60 | 4,063.35 | 0.00 | 0.00 | 0.00 |
| 12,600.03 | 89.97 | 359.33 | 7,390.21 | 3,975.65 | -1,495.77 | 4,162.27 | 0.00 | 0.00 | 0.00 |
| 12,700.03 | 89.97 | 359.33 | 7,390.26 | 4,075.64 | -1,496.94 | 4,261.19 | 0.00 | 0.00 | 0.00 |
| 12,800.03 | 89.97 | 359.33 | 7,390.32 | 4,175.64 | -1,498.11 | 4,360.11 | 0.00 | 0.00 | 0.00 |
| 12,900.03 | 89.97 | 359.33 | 7,390.37 | 4,275.63 | -1,499.28 | 4,459.03 | 0.00 | 0.00 | 0.00 |
| 13,000.03 | 89.97 | 359.33 | 7,390.42 | 4,375.62 | -1,500.45 | 4,557.94 | 0.00 | 0.00 | 0.00 |
| 13,100.03 | 89.97 | 359.33 | 7,390.47 | 4,475.62 | -1,501.63 | 4,656.86 | 0.00 | 0.00 | 0.00 |
| 13,155.32 | 89.97 | 359.33 | 7,390.50 | 4,530.91 | -1,502.27 | 4,711.56 | 0.00 | 0.00 | 0.00 |
| Begin 2°/100' turn | | | | | | | | | |
| 13,190.89 | 89.97 | 0.04 | 7,390.52 | 4,566.47 | -1,502.47 | 4,746.71 | 2.00 | 0.00 | 2.00 |
| Begin 89.97° lateral section | | | | | | | | | |
| 13,200.03 | 89.97 | 0.04 | 7,390.52 | 4,575.61 | -1,502.46 | 4,755.73 | 0.00 | 0.00 | 0.00 |
| 13,300.03 | 89.97 | 0.04 | 7,390.58 | 4,675.61 | -1,502.39 | 4,854.46 | 0.00 | 0.00 | 0.00 |
| 13,400.03 | 89.97 | 0.04 | 7,390.63 | 4,775.61 | -1,502.32 | 4,953.19 | 0.00 | 0.00 | 0.00 |
| 13,500.03 | 89.97 | 0.04 | 7,390.68 | 4,875.61 | -1,502.25 | 5,051.92 | 0.00 | 0.00 | 0.00 |
| 13,600.03 | 89.97 | 0.04 | 7,390.73 | 4,975.61 | -1,502.18 | 5,150.64 | 0.00 | 0.00 | 0.00 |
| 13,700.03 | 89.97 | 0.04 | 7,390.78 | 5,075.61 | -1,502.11 | 5,249.37 | 0.00 | 0.00 | 0.00 |
| 13,800.03 | 89.97 | 0.04 | 7,390.83 | 5,175.61 | -1,502.04 | 5,348.10 | 0.00 | 0.00 | 0.00 |
| 13,900.03 | 89.97 | 0.04 | 7,390.89 | 5,275.61 | -1,501.97 | 5,446.83 | 0.00 | 0.00 | 0.00 |
| 14,000.03 | 89.97 | 0.04 | 7,390.94 | 5,375.61 | -1,501.90 | 5,545.56 | 0.00 | 0.00 | 0.00 |
| 14,100.03 | 89.97 | 0.04 | 7,390.99 | 5,475.61 | -1,501.83 | 5,644.29 | 0.00 | 0.00 | 0.00 |
| 14,200.03 | 89.97 | 0.04 | 7,391.04 | 5,575.61 | -1,501.76 | 5,743.02 | 0.00 | 0.00 | 0.00 |
| 14,300.03 | 89.97 | 0.04 | 7,391.09 | 5,675.61 | -1,501.69 | 5,841.75 | 0.00 | 0.00 | 0.00 |
| 14,400.03 | 89.97 | 0.04 | 7,391.15 | 5,775.61 | -1,501.62 | 5,940.47 | 0.00 | 0.00 | 0.00 |
| 14,500.03 | 89.97 | 0.04 | 7,391.20 | 5,875.61 | -1,501.55 | 6,039.20 | 0.00 | 0.00 | 0.00 |
| 14,600.03 | 89.97 | 0.04 | 7,391.25 | 5,975.61 | -1,501.48 | 6,137.93 | 0.00 | 0.00 | 0.00 |
| 14,700.03 | 89.97 | 0.04 | 7,391.30 | 6,075.61 | -1,501.41 | 6,236.66 | 0.00 | 0.00 | 0.00 |
| 14,800.03 | 89.97 | 0.04 | 7,391.35 | 6,175.61 | -1,501.34 | 6,335.39 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|-----------------------|-------------------------------------|-------------------------|
| Database: | DB_Aug0116_LT_v14 | Local Co-ordinate Reference: | Well Buford 33-01-3L |
| Company: | Confluence Resources | TVD Reference: | RKB=5136+25 @ 5161.00ft |
| Project: | Weld County, Colorado | MD Reference: | RKB=5136+25 @ 5161.00ft |
| Site: | Section 34-T01N-R65W | North Reference: | Grid |
| Well: | Buford 33-01-3L | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Original Hole | | |
| Design: | plan1 | | |

| Planned Survey | | | | | | | | | |
|---------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 14,900.03 | 89.97 | 0.04 | 7,391.40 | 6,275.61 | -1,501.27 | 6,434.12 | 0.00 | 0.00 | 0.00 |
| 15,000.03 | 89.97 | 0.04 | 7,391.46 | 6,375.61 | -1,501.20 | 6,532.85 | 0.00 | 0.00 | 0.00 |
| 15,100.03 | 89.97 | 0.04 | 7,391.51 | 6,475.61 | -1,501.13 | 6,631.58 | 0.00 | 0.00 | 0.00 |
| 15,200.03 | 89.97 | 0.04 | 7,391.56 | 6,575.61 | -1,501.06 | 6,730.30 | 0.00 | 0.00 | 0.00 |
| 15,300.03 | 89.97 | 0.04 | 7,391.61 | 6,675.61 | -1,500.99 | 6,829.03 | 0.00 | 0.00 | 0.00 |
| 15,400.03 | 89.97 | 0.04 | 7,391.66 | 6,775.61 | -1,500.92 | 6,927.76 | 0.00 | 0.00 | 0.00 |
| 15,500.03 | 89.97 | 0.04 | 7,391.72 | 6,875.61 | -1,500.84 | 7,026.49 | 0.00 | 0.00 | 0.00 |
| 15,600.03 | 89.97 | 0.04 | 7,391.77 | 6,975.61 | -1,500.77 | 7,125.22 | 0.00 | 0.00 | 0.00 |
| 15,700.03 | 89.97 | 0.04 | 7,391.82 | 7,075.61 | -1,500.70 | 7,223.95 | 0.00 | 0.00 | 0.00 |
| 15,800.03 | 89.97 | 0.04 | 7,391.87 | 7,175.62 | -1,500.63 | 7,322.68 | 0.00 | 0.00 | 0.00 |
| 15,900.03 | 89.97 | 0.04 | 7,391.92 | 7,275.62 | -1,500.56 | 7,421.40 | 0.00 | 0.00 | 0.00 |
| 16,000.03 | 89.97 | 0.04 | 7,391.98 | 7,375.62 | -1,500.49 | 7,520.13 | 0.00 | 0.00 | 0.00 |
| 16,100.03 | 89.97 | 0.04 | 7,392.03 | 7,475.62 | -1,500.42 | 7,618.86 | 0.00 | 0.00 | 0.00 |
| 16,200.03 | 89.97 | 0.04 | 7,392.08 | 7,575.62 | -1,500.35 | 7,717.59 | 0.00 | 0.00 | 0.00 |
| 16,300.03 | 89.97 | 0.04 | 7,392.13 | 7,675.62 | -1,500.28 | 7,816.32 | 0.00 | 0.00 | 0.00 |
| 16,400.03 | 89.97 | 0.04 | 7,392.18 | 7,775.62 | -1,500.21 | 7,915.05 | 0.00 | 0.00 | 0.00 |
| 16,500.03 | 89.97 | 0.04 | 7,392.23 | 7,875.62 | -1,500.14 | 8,013.78 | 0.00 | 0.00 | 0.00 |
| 16,600.03 | 89.97 | 0.04 | 7,392.29 | 7,975.62 | -1,500.07 | 8,112.51 | 0.00 | 0.00 | 0.00 |
| 16,700.03 | 89.97 | 0.04 | 7,392.34 | 8,075.62 | -1,500.00 | 8,211.23 | 0.00 | 0.00 | 0.00 |
| 16,800.03 | 89.97 | 0.04 | 7,392.39 | 8,175.62 | -1,499.93 | 8,309.96 | 0.00 | 0.00 | 0.00 |
| 16,900.03 | 89.97 | 0.04 | 7,392.44 | 8,275.62 | -1,499.86 | 8,408.69 | 0.00 | 0.00 | 0.00 |
| 17,000.03 | 89.97 | 0.04 | 7,392.49 | 8,375.62 | -1,499.79 | 8,507.42 | 0.00 | 0.00 | 0.00 |
| 17,100.03 | 89.97 | 0.04 | 7,392.55 | 8,475.62 | -1,499.72 | 8,606.15 | 0.00 | 0.00 | 0.00 |
| 17,200.03 | 89.97 | 0.04 | 7,392.60 | 8,575.62 | -1,499.65 | 8,704.88 | 0.00 | 0.00 | 0.00 |
| 17,300.03 | 89.97 | 0.04 | 7,392.65 | 8,675.62 | -1,499.58 | 8,803.61 | 0.00 | 0.00 | 0.00 |
| 17,400.04 | 89.97 | 0.04 | 7,392.70 | 8,775.62 | -1,499.51 | 8,902.34 | 0.00 | 0.00 | 0.00 |
| 17,500.04 | 89.97 | 0.04 | 7,392.75 | 8,875.62 | -1,499.44 | 9,001.06 | 0.00 | 0.00 | 0.00 |
| 17,600.04 | 89.97 | 0.04 | 7,392.80 | 8,975.62 | -1,499.37 | 9,099.79 | 0.00 | 0.00 | 0.00 |
| 17,700.04 | 89.97 | 0.04 | 7,392.86 | 9,075.62 | -1,499.30 | 9,198.52 | 0.00 | 0.00 | 0.00 |
| 17,800.04 | 89.97 | 0.04 | 7,392.91 | 9,175.62 | -1,499.23 | 9,297.25 | 0.00 | 0.00 | 0.00 |
| 17,900.04 | 89.97 | 0.04 | 7,392.96 | 9,275.62 | -1,499.16 | 9,395.98 | 0.00 | 0.00 | 0.00 |
| 17,977.14 | 89.97 | 0.04 | 7,393.00 | 9,352.72 | -1,499.10 | 9,472.10 | 0.00 | 0.00 | 0.00 |
| PBHL/TD 17977.14 MD 7393.00 TVD | | | | | | | | | |

| Design Targets | | | | | | | | | |
|----------------------------------------------------------------|---------------|--------------|----------|------------|------------|-----------------|----------------|-------------|---------------|
| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| LP Buford 33-01-3L 470 - plan hits target center - Point | 0.00 | 0.00 | 7,388.00 | -307.30 | -1,445.61 | 14,527,586.30 | 1,735,279.69 | 40.00184699 | -104.66125634 |
| TP Buford 33-01-3L 480 - plan hits target center - Point | 0.00 | 0.01 | 7,390.50 | 4,530.91 | -1,502.27 | 14,532,424.50 | 1,735,223.03 | 40.01513397 | -104.66139302 |
| BHL Buford 33-01-3L 47 - plan hits target center - Point | 0.00 | 0.00 | 7,393.00 | 9,352.72 | -1,499.10 | 14,537,246.30 | 1,735,226.20 | 40.02837525 | -104.66131623 |

| | | | |
|------------------|-----------------------|-------------------------------------|-------------------------|
| Database: | DB_Aug0116_LT_v14 | Local Co-ordinate Reference: | Well Buford 33-01-3L |
| Company: | Confluence Resources | TVD Reference: | RKB=5136+25 @ 5161.00ft |
| Project: | Weld County, Colorado | MD Reference: | RKB=5136+25 @ 5161.00ft |
| Site: | Section 34-T01N-R65W | North Reference: | Grid |
| Well: | Buford 33-01-3L | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Original Hole | | |
| Design: | plan1 | | |

| Plan Annotations | | | | | |
|---------------------------|---------------------------|-------------------|---------------|---------------------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates | | Comment | |
| | | +N/-S (ft) | +E/-W (ft) | | |
| 5,000.00 | 5,000.00 | 0.00 | 0.00 | KOP Begin 10°/100' build | |
| 5,406.25 | 5,373.06 | -88.26 | -106.20 | Begin 40.62° tangent section | |
| 7,174.80 | 6,715.37 | -824.29 | -991.78 | Begin 10°/100' build/turn | |
| 8,316.78 | 7,388.00 | -307.30 | -1,445.61 | LP Begin 89.97° lateral section | |
| 13,155.32 | 7,390.50 | 4,530.91 | -1,502.27 | Begin 2°/100' turn | |
| 13,190.89 | 7,390.52 | 4,566.47 | -1,502.47 | Begin 89.97° lateral section | |
| 17,977.14 | 7,393.00 | 9,352.72 | -1,499.10 | PBHL/TD 17977.14 MD 7393.00 TVD | |

| | | | |
|------------------|-----------------------|-------------------------------------|-------------------------|
| Database: | DB_Aug0116_LT_v14 | Local Co-ordinate Reference: | Well Buford 33-01-3L |
| Company: | Confluence Resources | TVD Reference: | RKB=5136+25 @ 5161.00ft |
| Project: | Weld County, Colorado | MD Reference: | RKB=5136+25 @ 5161.00ft |
| Site: | Section 34-T01N-R65W | North Reference: | Grid |
| Well: | Buford 33-01-3L | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Original Hole | | |
| Design: | plan1 | | |

| | | | |
|--------------------|------------------------------------------------|----------------------|----------------|
| Project | Weld County, Colorado | | |
| Map System: | Universal Transverse Mercator (US Survey Feet) | System Datum: | Mean Sea Level |
| Geo Datum: | NAD83 Colorado - HARN | | |
| Map Zone: | Zone 13N (108 W to 102 W) | | |

| | | | | | |
|-----------------------|---------|----------------------|--------------------|-------------------|---------------|
| Site | | Section 34-T01N-R65W | | | |
| Site Position: | | Northing: | 14,527,892.80 usft | Latitude: | 40.00267560 |
| From: | Map | Easting: | 1,736,525.30 usft | Longitude: | -104.65680429 |
| Position Uncertainty: | 0.00 ft | Slot Radius: | 13-3/16 " | Grid Convergence: | 0.22 ° |

| | | | | | | |
|----------------------|-----------------------------------------------------------------|---------|---------------------|--------------------|---------------|---------------|
| Well | Buford 33-01-3L, Surf loc: 770 FSL 969 FWL Section 34-T01N-R65W | | | | | |
| Well Position | +N/-S | 0.00 ft | Northing: | 14,527,893.60 usft | Latitude: | 40.00267568 |
| | +E/-W | 0.00 ft | Easting: | 1,736,725.30 usft | Longitude: | -104.65609010 |
| Position Uncertainty | | 0.00 ft | Wellhead Elevation: | | Ground Level: | 5,136.00 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Original Hole | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | HDGM | 6/5/2017 | 8.28 | 66.45 | 52,139.00000000 |

| | | | | |
|--------------------------|------------------------------|-------------------|----------------------|----------------------|
| Design | plan1 | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PLAN | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) |
| | 0.00 | 0.00 | 0.00 | 350.89 |

| | | | | |
|---------------------------------|----------------------|---------------------------------|------------------|----------------|
| Plan Survey Tool Program | Date | 6/5/2017 | | |
| Depth From (ft) | Depth To (ft) | Survey (Wellbore) | Tool Name | Remarks |
| 1 | 0.00 | 17,977.14 plan1 (Original Hole) | | |

| | | | | | | | | | | |
|----------------------------|------------------------|--------------------|----------------------------|-------------------|-------------------|------------------------------|-----------------------------|----------------------------|----------------|-----------------------|
| Plan Sections | | | | | | | | | | |
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 5,000.00 | 0.00 | 0.00 | 5,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 5,406.25 | 40.62 | 230.27 | 5,373.06 | -88.26 | -106.20 | 10.00 | 10.00 | 0.00 | 230.27 | |
| 7,174.80 | 40.62 | 230.27 | 6,715.37 | -824.29 | -991.78 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 8,316.78 | 89.97 | 359.33 | 7,388.00 | -307.30 | -1,445.61 | 10.00 | 4.32 | 11.30 | 121.65 | LP Buford 33-01-3L 4' |
| 13,155.32 | 89.97 | 359.33 | 7,390.50 | 4,530.91 | -1,502.27 | 0.00 | 0.00 | 0.00 | 0.00 | TP Buford 33-01-3L 4' |
| 13,190.89 | 89.97 | 0.04 | 7,390.52 | 4,566.47 | -1,502.47 | 2.00 | 0.00 | 2.00 | 90.01 | |
| 17,977.14 | 89.97 | 0.04 | 7,393.00 | 9,352.72 | -1,499.10 | 0.00 | 0.00 | 0.00 | 0.00 | BHL Buford 33-01-3L |

| | | | |
|------------------|-----------------------|-------------------------------------|-------------------------|
| Database: | DB_Aug0116_LT_v14 | Local Co-ordinate Reference: | Well Buford 33-01-3L |
| Company: | Confluence Resources | TVD Reference: | RKB=5136+25 @ 5161.00ft |
| Project: | Weld County, Colorado | MD Reference: | RKB=5136+25 @ 5161.00ft |
| Site: | Section 34-T01N-R65W | North Reference: | Grid |
| Well: | Buford 33-01-3L | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Original Hole | | |
| Design: | plan1 | | |

| Planned Survey | | | | | | | | | |
|--------------------------|-----------------|-------------|---------------------|------------|------------|---------------------|--------------------|-------------|---------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 100.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 200.00 | 0.00 | 0.00 | 200.00 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 300.00 | 0.00 | 0.00 | 300.00 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 400.00 | 0.00 | 0.00 | 400.00 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 500.00 | 0.00 | 0.00 | 500.00 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 600.00 | 0.00 | 0.00 | 600.00 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 700.00 | 0.00 | 0.00 | 700.00 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 800.00 | 0.00 | 0.00 | 800.00 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 900.00 | 0.00 | 0.00 | 900.00 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 1,000.00 | 0.00 | 0.00 | 1,000.00 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 1,100.00 | 0.00 | 0.00 | 1,100.00 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 1,200.00 | 0.00 | 0.00 | 1,200.00 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 1,300.00 | 0.00 | 0.00 | 1,300.00 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 1,400.00 | 0.00 | 0.00 | 1,400.00 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 1,500.00 | 0.00 | 0.00 | 1,500.00 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 1,600.00 | 0.00 | 0.00 | 1,600.00 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 1,700.00 | 0.00 | 0.00 | 1,700.00 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 1,800.00 | 0.00 | 0.00 | 1,800.00 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 1,900.00 | 0.00 | 0.00 | 1,900.00 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 2,000.00 | 0.00 | 0.00 | 2,000.00 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 2,100.00 | 0.00 | 0.00 | 2,100.00 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 2,200.00 | 0.00 | 0.00 | 2,200.00 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 2,300.00 | 0.00 | 0.00 | 2,300.00 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 2,400.00 | 0.00 | 0.00 | 2,400.00 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 2,500.01 | 0.00 | 0.00 | 2,500.01 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 2,600.01 | 0.00 | 0.00 | 2,600.01 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 2,700.01 | 0.00 | 0.00 | 2,700.01 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 2,800.01 | 0.00 | 0.00 | 2,800.01 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 2,900.01 | 0.00 | 0.00 | 2,900.01 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 3,000.01 | 0.00 | 0.00 | 3,000.01 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 3,100.01 | 0.00 | 0.00 | 3,100.01 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 3,200.01 | 0.00 | 0.00 | 3,200.01 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 3,300.01 | 0.00 | 0.00 | 3,300.01 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 3,400.01 | 0.00 | 0.00 | 3,400.01 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 3,500.01 | 0.00 | 0.00 | 3,500.01 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 3,600.01 | 0.00 | 0.00 | 3,600.01 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 3,700.01 | 0.00 | 0.00 | 3,700.01 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 3,800.01 | 0.00 | 0.00 | 3,800.01 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 3,900.01 | 0.00 | 0.00 | 3,900.01 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 4,000.01 | 0.00 | 0.00 | 4,000.01 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 4,100.01 | 0.00 | 0.00 | 4,100.01 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 4,200.01 | 0.00 | 0.00 | 4,200.01 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 4,300.01 | 0.00 | 0.00 | 4,300.01 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 4,400.01 | 0.00 | 0.00 | 4,400.01 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 4,500.01 | 0.00 | 0.00 | 4,500.01 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 4,600.01 | 0.00 | 0.00 | 4,600.01 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 4,700.01 | 0.00 | 0.00 | 4,700.01 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 4,800.01 | 0.00 | 0.00 | 4,800.01 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 4,900.01 | 0.00 | 0.00 | 4,900.01 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 5,000.00 | 0.00 | 0.00 | 5,000.00 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| KOP Begin 10°/100' build | | | | | | | | | |
| 5,000.01 | 0.00 | 230.27 | 5,000.01 | 0.00 | 0.00 | 14,527,893.60 | 1,736,725.30 | 40.00267568 | -104.65609010 |
| 5,100.01 | 10.00 | 230.27 | 5,099.50 | -5.56 | -6.70 | 14,527,888.04 | 1,736,718.60 | 40.00266047 | -104.65611409 |

| | | | |
|------------------|-----------------------|-------------------------------------|-------------------------|
| Database: | DB_Aug0116_LT_v14 | Local Co-ordinate Reference: | Well Buford 33-01-3L |
| Company: | Confluence Resources | TVD Reference: | RKB=5136+25 @ 5161.00ft |
| Project: | Weld County, Colorado | MD Reference: | RKB=5136+25 @ 5161.00ft |
| Site: | Section 34-T01N-R65W | North Reference: | Grid |
| Well: | Buford 33-01-3L | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Original Hole | | |
| Design: | plan1 | | |

| Planned Survey | | | | | | | | | |
|---------------------------------|-----------------|-------------|---------------------|------------|------------|---------------------|--------------------|-------------|---------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
| 5,200.01 | 20.00 | 230.27 | 5,195.97 | -22.09 | -26.58 | 14,527,871.52 | 1,736,698.72 | 40.00261531 | -104.65618531 |
| 5,300.01 | 30.00 | 230.27 | 5,286.49 | -49.07 | -59.04 | 14,527,844.54 | 1,736,666.26 | 40.00254156 | -104.65630160 |
| 5,400.01 | 40.00 | 230.27 | 5,368.30 | -85.68 | -103.09 | 14,527,807.92 | 1,736,622.20 | 40.00244147 | -104.65645942 |
| 5,406.25 | 40.62 | 230.27 | 5,373.06 | -88.26 | -106.20 | 14,527,805.34 | 1,736,619.10 | 40.00243442 | -104.65647054 |
| Begin 40.62° tangent section | | | | | | | | | |
| 5,500.01 | 40.62 | 230.27 | 5,444.22 | -127.29 | -153.15 | 14,527,766.32 | 1,736,572.15 | 40.00232776 | -104.65663873 |
| 5,600.01 | 40.62 | 230.27 | 5,520.12 | -168.90 | -203.22 | 14,527,724.70 | 1,736,522.08 | 40.00221400 | -104.65681810 |
| 5,700.01 | 40.62 | 230.27 | 5,596.02 | -210.52 | -253.30 | 14,527,683.09 | 1,736,472.00 | 40.00210024 | -104.65699748 |
| 5,800.01 | 40.62 | 230.27 | 5,671.92 | -252.14 | -303.37 | 14,527,641.47 | 1,736,421.93 | 40.00198649 | -104.65717686 |
| 5,900.01 | 40.62 | 230.27 | 5,747.82 | -293.75 | -353.44 | 14,527,599.85 | 1,736,371.86 | 40.00187273 | -104.65735623 |
| 6,000.01 | 40.62 | 230.27 | 5,823.71 | -335.37 | -403.52 | 14,527,558.23 | 1,736,321.78 | 40.00175897 | -104.65753561 |
| 6,100.01 | 40.62 | 230.27 | 5,899.61 | -376.99 | -453.59 | 14,527,516.62 | 1,736,271.71 | 40.00164521 | -104.65771498 |
| 6,200.01 | 40.62 | 230.27 | 5,975.51 | -418.61 | -503.67 | 14,527,475.00 | 1,736,221.63 | 40.00153145 | -104.65789435 |
| 6,300.01 | 40.62 | 230.27 | 6,051.41 | -460.22 | -553.74 | 14,527,433.38 | 1,736,171.56 | 40.00141769 | -104.65807373 |
| 6,400.01 | 40.62 | 230.27 | 6,127.31 | -501.84 | -603.81 | 14,527,391.76 | 1,736,121.49 | 40.00130393 | -104.65825310 |
| 6,500.01 | 40.62 | 230.27 | 6,203.21 | -543.46 | -653.89 | 14,527,350.15 | 1,736,071.41 | 40.00119017 | -104.65843247 |
| 6,600.01 | 40.62 | 230.27 | 6,279.11 | -585.08 | -703.96 | 14,527,308.53 | 1,736,021.34 | 40.00107641 | -104.65861184 |
| 6,700.01 | 40.62 | 230.27 | 6,355.01 | -626.69 | -754.03 | 14,527,266.91 | 1,735,971.27 | 40.00096265 | -104.65879121 |
| 6,800.01 | 40.62 | 230.27 | 6,430.91 | -668.31 | -804.11 | 14,527,225.29 | 1,735,921.19 | 40.00084889 | -104.65897058 |
| 6,900.01 | 40.62 | 230.27 | 6,506.80 | -709.93 | -854.18 | 14,527,183.68 | 1,735,871.12 | 40.00073513 | -104.65914995 |
| 7,000.01 | 40.62 | 230.27 | 6,582.70 | -751.55 | -904.26 | 14,527,142.06 | 1,735,821.05 | 40.00062137 | -104.65932932 |
| 7,100.01 | 40.62 | 230.27 | 6,658.60 | -793.16 | -954.33 | 14,527,100.44 | 1,735,770.97 | 40.00050760 | -104.65950869 |
| 7,174.80 | 40.62 | 230.27 | 6,715.37 | -824.29 | -991.78 | 14,527,069.32 | 1,735,733.52 | 40.00042252 | -104.65964284 |
| Begin 10°/100' build/turn | | | | | | | | | |
| 7,200.01 | 39.35 | 233.65 | 6,734.68 | -834.27 | -1,004.53 | 14,527,059.33 | 1,735,720.77 | 40.00039524 | -104.65968850 |
| 7,300.01 | 35.41 | 248.84 | 6,814.30 | -863.59 | -1,057.22 | 14,527,030.01 | 1,735,668.08 | 40.00031527 | -104.65987704 |
| 7,400.01 | 33.70 | 266.26 | 6,896.86 | -875.89 | -1,112.06 | 14,527,017.71 | 1,735,613.24 | 40.00028207 | -104.66007304 |
| 7,500.02 | 34.55 | 284.07 | 6,979.85 | -870.79 | -1,167.39 | 14,527,022.81 | 1,735,557.91 | 40.00029666 | -104.66027053 |
| 7,600.02 | 37.79 | 300.15 | 7,060.75 | -848.45 | -1,221.52 | 14,527,045.15 | 1,735,503.78 | 40.00035858 | -104.66046352 |
| 7,700.02 | 42.87 | 313.50 | 7,137.11 | -809.55 | -1,272.82 | 14,527,084.06 | 1,735,452.49 | 40.00046595 | -104.66064614 |
| 7,800.02 | 49.21 | 324.27 | 7,206.60 | -755.26 | -1,319.71 | 14,527,138.34 | 1,735,405.59 | 40.00061551 | -104.66081285 |
| 7,900.02 | 56.37 | 333.06 | 7,267.11 | -687.25 | -1,360.78 | 14,527,206.36 | 1,735,364.52 | 40.00080273 | -104.66095858 |
| 8,000.02 | 64.05 | 340.44 | 7,316.80 | -607.56 | -1,394.78 | 14,527,286.04 | 1,735,330.52 | 40.00102190 | -104.66107891 |
| 8,100.02 | 72.06 | 346.90 | 7,354.17 | -518.64 | -1,420.68 | 14,527,374.97 | 1,735,304.62 | 40.00126637 | -104.66117017 |
| 8,200.02 | 80.27 | 352.79 | 7,378.07 | -423.17 | -1,437.68 | 14,527,470.44 | 1,735,287.62 | 40.00152872 | -104.66122960 |
| 8,300.02 | 88.57 | 358.40 | 7,387.79 | -324.06 | -1,445.28 | 14,527,569.54 | 1,735,280.06 | 40.00180096 | -104.66125538 |
| 8,316.78 | 89.97 | 359.33 | 7,388.00 | -307.30 | -1,445.61 | 14,527,586.30 | 1,735,279.69 | 40.00184699 | -104.66125634 |
| LP Begin 89.97° lateral section | | | | | | | | | |
| 8,400.02 | 89.97 | 359.33 | 7,388.04 | -224.07 | -1,446.59 | 14,527,669.53 | 1,735,278.71 | 40.00207556 | -104.66125869 |
| 8,500.02 | 89.97 | 359.33 | 7,388.09 | -124.08 | -1,447.76 | 14,527,769.53 | 1,735,277.54 | 40.00235017 | -104.66126151 |
| 8,600.02 | 89.97 | 359.33 | 7,388.15 | -24.08 | -1,448.93 | 14,527,869.52 | 1,735,276.37 | 40.00262478 | -104.66126434 |
| 8,700.02 | 89.97 | 359.33 | 7,388.20 | 75.91 | -1,450.10 | 14,527,969.51 | 1,735,275.20 | 40.00289939 | -104.66126716 |
| 8,800.02 | 89.97 | 359.33 | 7,388.25 | 175.90 | -1,451.27 | 14,528,069.51 | 1,735,274.03 | 40.00317399 | -104.66126999 |
| 8,900.02 | 89.97 | 359.33 | 7,388.30 | 275.90 | -1,452.44 | 14,528,169.50 | 1,735,272.86 | 40.00344860 | -104.66127281 |
| 9,000.02 | 89.97 | 359.33 | 7,388.35 | 375.89 | -1,453.61 | 14,528,269.49 | 1,735,271.69 | 40.00372321 | -104.66127564 |
| 9,100.02 | 89.97 | 359.33 | 7,388.40 | 475.88 | -1,454.78 | 14,528,369.49 | 1,735,270.52 | 40.00399782 | -104.66127846 |
| 9,200.02 | 89.97 | 359.33 | 7,388.46 | 575.88 | -1,455.96 | 14,528,469.48 | 1,735,269.35 | 40.00427242 | -104.66128129 |
| 9,300.02 | 89.97 | 359.33 | 7,388.51 | 675.87 | -1,457.13 | 14,528,569.47 | 1,735,268.17 | 40.00454703 | -104.66128411 |
| 9,400.02 | 89.97 | 359.33 | 7,388.56 | 775.86 | -1,458.30 | 14,528,669.47 | 1,735,267.00 | 40.00482164 | -104.66128694 |
| 9,500.02 | 89.97 | 359.33 | 7,388.61 | 875.86 | -1,459.47 | 14,528,769.46 | 1,735,265.83 | 40.00509625 | -104.66128976 |
| 9,600.02 | 89.97 | 359.33 | 7,388.66 | 975.85 | -1,460.64 | 14,528,869.45 | 1,735,264.66 | 40.00537085 | -104.66129258 |
| 9,700.02 | 89.97 | 359.33 | 7,388.71 | 1,075.84 | -1,461.81 | 14,528,969.44 | 1,735,263.49 | 40.00564546 | -104.66129541 |
| 9,800.02 | 89.97 | 359.33 | 7,388.77 | 1,175.84 | -1,462.98 | 14,529,069.44 | 1,735,262.32 | 40.00592007 | -104.66129823 |
| 9,900.02 | 89.97 | 359.33 | 7,388.82 | 1,275.83 | -1,464.15 | 14,529,169.43 | 1,735,261.15 | 40.00619468 | -104.66130106 |

| | | | |
|------------------|-----------------------|-------------------------------------|-------------------------|
| Database: | DB_Aug0116_LT_v14 | Local Co-ordinate Reference: | Well Buford 33-01-3L |
| Company: | Confluence Resources | TVD Reference: | RKB=5136+25 @ 5161.00ft |
| Project: | Weld County, Colorado | MD Reference: | RKB=5136+25 @ 5161.00ft |
| Site: | Section 34-T01N-R65W | North Reference: | Grid |
| Well: | Buford 33-01-3L | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Original Hole | | |
| Design: | plan1 | | |

| Planned Survey | | | | | | | | | |
|------------------------------|-----------------|-------------|---------------------|------------|------------|---------------------|--------------------|-------------|---------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
| 10,000.02 | 89.97 | 359.33 | 7,388.87 | 1,375.82 | -1,465.32 | 14,529,269.42 | 1,735,259.98 | 40.00646929 | -104.66130388 |
| 10,100.02 | 89.97 | 359.33 | 7,388.92 | 1,475.82 | -1,466.49 | 14,529,369.42 | 1,735,258.81 | 40.00674389 | -104.66130671 |
| 10,200.02 | 89.97 | 359.33 | 7,388.97 | 1,575.81 | -1,467.67 | 14,529,469.41 | 1,735,257.64 | 40.00701850 | -104.66130953 |
| 10,300.02 | 89.97 | 359.33 | 7,389.02 | 1,675.80 | -1,468.84 | 14,529,569.40 | 1,735,256.46 | 40.00729311 | -104.66131236 |
| 10,400.02 | 89.97 | 359.33 | 7,389.08 | 1,775.80 | -1,470.01 | 14,529,669.40 | 1,735,255.29 | 40.00756772 | -104.66131518 |
| 10,500.02 | 89.97 | 359.33 | 7,389.13 | 1,875.79 | -1,471.18 | 14,529,769.39 | 1,735,254.12 | 40.00784232 | -104.66131801 |
| 10,600.02 | 89.97 | 359.33 | 7,389.18 | 1,975.78 | -1,472.35 | 14,529,869.38 | 1,735,252.95 | 40.00811693 | -104.66132083 |
| 10,700.02 | 89.97 | 359.33 | 7,389.23 | 2,075.78 | -1,473.52 | 14,529,969.38 | 1,735,251.78 | 40.00839154 | -104.66132366 |
| 10,800.02 | 89.97 | 359.33 | 7,389.28 | 2,175.77 | -1,474.69 | 14,530,069.37 | 1,735,250.61 | 40.00866615 | -104.66132648 |
| 10,900.02 | 89.97 | 359.33 | 7,389.33 | 2,275.76 | -1,475.86 | 14,530,169.36 | 1,735,249.44 | 40.00894075 | -104.66132931 |
| 11,000.02 | 89.97 | 359.33 | 7,389.39 | 2,375.76 | -1,477.03 | 14,530,269.36 | 1,735,248.27 | 40.00921536 | -104.66133213 |
| 11,100.02 | 89.97 | 359.33 | 7,389.44 | 2,475.75 | -1,478.21 | 14,530,369.35 | 1,735,247.10 | 40.00948997 | -104.66133496 |
| 11,200.02 | 89.97 | 359.33 | 7,389.49 | 2,575.74 | -1,479.38 | 14,530,469.34 | 1,735,245.93 | 40.00976458 | -104.66133778 |
| 11,300.02 | 89.97 | 359.33 | 7,389.54 | 2,675.74 | -1,480.55 | 14,530,569.33 | 1,735,244.75 | 40.01003918 | -104.66134061 |
| 11,400.02 | 89.97 | 359.33 | 7,389.59 | 2,775.73 | -1,481.72 | 14,530,669.33 | 1,735,243.58 | 40.01031379 | -104.66134343 |
| 11,500.02 | 89.97 | 359.33 | 7,389.64 | 2,875.72 | -1,482.89 | 14,530,769.32 | 1,735,242.41 | 40.01058840 | -104.66134626 |
| 11,600.02 | 89.97 | 359.33 | 7,389.70 | 2,975.72 | -1,484.06 | 14,530,869.31 | 1,735,241.24 | 40.01086301 | -104.66134908 |
| 11,700.02 | 89.97 | 359.33 | 7,389.75 | 3,075.71 | -1,485.23 | 14,530,969.31 | 1,735,240.07 | 40.01113761 | -104.66135191 |
| 11,800.02 | 89.97 | 359.33 | 7,389.80 | 3,175.70 | -1,486.40 | 14,531,069.30 | 1,735,238.90 | 40.01141222 | -104.66135473 |
| 11,900.02 | 89.97 | 359.33 | 7,389.85 | 3,275.70 | -1,487.57 | 14,531,169.29 | 1,735,237.73 | 40.01168683 | -104.66135756 |
| 12,000.02 | 89.97 | 359.33 | 7,389.90 | 3,375.69 | -1,488.74 | 14,531,269.29 | 1,735,236.56 | 40.01196143 | -104.66136038 |
| 12,100.02 | 89.97 | 359.33 | 7,389.95 | 3,475.68 | -1,489.92 | 14,531,369.28 | 1,735,235.39 | 40.01223604 | -104.66136321 |
| 12,200.02 | 89.97 | 359.33 | 7,390.01 | 3,575.68 | -1,491.09 | 14,531,469.27 | 1,735,234.22 | 40.01251065 | -104.66136603 |
| 12,300.02 | 89.97 | 359.33 | 7,390.06 | 3,675.67 | -1,492.26 | 14,531,569.27 | 1,735,233.04 | 40.01278526 | -104.66136886 |
| 12,400.03 | 89.97 | 359.33 | 7,390.11 | 3,775.66 | -1,493.43 | 14,531,669.26 | 1,735,231.87 | 40.01305986 | -104.66137168 |
| 12,500.03 | 89.97 | 359.33 | 7,390.16 | 3,875.66 | -1,494.60 | 14,531,769.25 | 1,735,230.70 | 40.01333447 | -104.66137451 |
| 12,600.03 | 89.97 | 359.33 | 7,390.21 | 3,975.65 | -1,495.77 | 14,531,869.25 | 1,735,229.53 | 40.01360908 | -104.66137733 |
| 12,700.03 | 89.97 | 359.33 | 7,390.26 | 4,075.64 | -1,496.94 | 14,531,969.24 | 1,735,228.36 | 40.01388369 | -104.66138016 |
| 12,800.03 | 89.97 | 359.33 | 7,390.32 | 4,175.64 | -1,498.11 | 14,532,069.23 | 1,735,227.19 | 40.01415829 | -104.66138298 |
| 12,900.03 | 89.97 | 359.33 | 7,390.37 | 4,275.63 | -1,499.28 | 14,532,169.22 | 1,735,226.02 | 40.01443290 | -104.66138581 |
| 13,000.03 | 89.97 | 359.33 | 7,390.42 | 4,375.62 | -1,500.45 | 14,532,269.22 | 1,735,224.85 | 40.01470751 | -104.66138863 |
| 13,100.03 | 89.97 | 359.33 | 7,390.47 | 4,475.62 | -1,501.63 | 14,532,369.21 | 1,735,223.68 | 40.01498211 | -104.66139146 |
| 13,155.32 | 89.97 | 359.33 | 7,390.50 | 4,530.91 | -1,502.27 | 14,532,424.50 | 1,735,223.03 | 40.01513397 | -104.66139302 |
| Begin 2°/100' turn | | | | | | | | | |
| 13,190.89 | 89.97 | 0.04 | 7,390.52 | 4,566.47 | -1,502.47 | 14,532,460.07 | 1,735,222.83 | 40.01523162 | -104.66139324 |
| Begin 89.97° lateral section | | | | | | | | | |
| 13,200.03 | 89.97 | 0.04 | 7,390.52 | 4,575.61 | -1,502.46 | 14,532,469.21 | 1,735,222.84 | 40.01525672 | -104.66139309 |
| 13,300.03 | 89.97 | 0.04 | 7,390.58 | 4,675.61 | -1,502.39 | 14,532,569.21 | 1,735,222.91 | 40.01553134 | -104.66139148 |
| 13,400.03 | 89.97 | 0.04 | 7,390.63 | 4,775.61 | -1,502.32 | 14,532,669.21 | 1,735,222.98 | 40.01580595 | -104.66138987 |
| 13,500.03 | 89.97 | 0.04 | 7,390.68 | 4,875.61 | -1,502.25 | 14,532,769.21 | 1,735,223.05 | 40.01608056 | -104.66138826 |
| 13,600.03 | 89.97 | 0.04 | 7,390.73 | 4,975.61 | -1,502.18 | 14,532,869.21 | 1,735,223.12 | 40.01635518 | -104.66138666 |
| 13,700.03 | 89.97 | 0.04 | 7,390.78 | 5,075.61 | -1,502.11 | 14,532,969.21 | 1,735,223.19 | 40.01662979 | -104.66138505 |
| 13,800.03 | 89.97 | 0.04 | 7,390.83 | 5,175.61 | -1,502.04 | 14,533,069.21 | 1,735,223.26 | 40.01690440 | -104.66138344 |
| 13,900.03 | 89.97 | 0.04 | 7,390.89 | 5,275.61 | -1,501.97 | 14,533,169.21 | 1,735,223.33 | 40.01717901 | -104.66138183 |
| 14,000.03 | 89.97 | 0.04 | 7,390.94 | 5,375.61 | -1,501.90 | 14,533,269.21 | 1,735,223.40 | 40.01745363 | -104.66138022 |
| 14,100.03 | 89.97 | 0.04 | 7,390.99 | 5,475.61 | -1,501.83 | 14,533,369.21 | 1,735,223.47 | 40.01772824 | -104.66137861 |
| 14,200.03 | 89.97 | 0.04 | 7,391.04 | 5,575.61 | -1,501.76 | 14,533,469.21 | 1,735,223.54 | 40.01800285 | -104.66137701 |
| 14,300.03 | 89.97 | 0.04 | 7,391.09 | 5,675.61 | -1,501.69 | 14,533,569.21 | 1,735,223.61 | 40.01827747 | -104.66137540 |
| 14,400.03 | 89.97 | 0.04 | 7,391.15 | 5,775.61 | -1,501.62 | 14,533,669.21 | 1,735,223.68 | 40.01855208 | -104.66137379 |
| 14,500.03 | 89.97 | 0.04 | 7,391.20 | 5,875.61 | -1,501.55 | 14,533,769.21 | 1,735,223.75 | 40.01882669 | -104.66137218 |
| 14,600.03 | 89.97 | 0.04 | 7,391.25 | 5,975.61 | -1,501.48 | 14,533,869.21 | 1,735,223.82 | 40.01910130 | -104.66137057 |
| 14,700.03 | 89.97 | 0.04 | 7,391.30 | 6,075.61 | -1,501.41 | 14,533,969.21 | 1,735,223.89 | 40.01937592 | -104.66136896 |
| 14,800.03 | 89.97 | 0.04 | 7,391.35 | 6,175.61 | -1,501.34 | 14,534,069.21 | 1,735,223.96 | 40.01965053 | -104.66136735 |
| 14,900.03 | 89.97 | 0.04 | 7,391.40 | 6,275.61 | -1,501.27 | 14,534,169.21 | 1,735,224.03 | 40.01992514 | -104.66136574 |

| | | | |
|------------------|-----------------------|-------------------------------------|-------------------------|
| Database: | DB_Aug0116_LT_v14 | Local Co-ordinate Reference: | Well Buford 33-01-3L |
| Company: | Confluence Resources | TVD Reference: | RKB=5136+25 @ 5161.00ft |
| Project: | Weld County, Colorado | MD Reference: | RKB=5136+25 @ 5161.00ft |
| Site: | Section 34-T01N-R65W | North Reference: | Grid |
| Well: | Buford 33-01-3L | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Original Hole | | |
| Design: | plan1 | | |

| Planned Survey | | | | | | | | | | |
|---------------------------------|-----------------|-------------|---------------------|------------|------------|---------------------|--------------------|-------------|---------------|--|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude | |
| 15,000.03 | 89.97 | 0.04 | 7,391.46 | 6,375.61 | -1,501.20 | 14,534,269.21 | 1,735,224.11 | 40.02019976 | -104.66136414 | |
| 15,100.03 | 89.97 | 0.04 | 7,391.51 | 6,475.61 | -1,501.13 | 14,534,369.21 | 1,735,224.18 | 40.02047437 | -104.66136253 | |
| 15,200.03 | 89.97 | 0.04 | 7,391.56 | 6,575.61 | -1,501.06 | 14,534,469.21 | 1,735,224.25 | 40.02074898 | -104.66136092 | |
| 15,300.03 | 89.97 | 0.04 | 7,391.61 | 6,675.61 | -1,500.99 | 14,534,569.21 | 1,735,224.32 | 40.02102359 | -104.66135931 | |
| 15,400.03 | 89.97 | 0.04 | 7,391.66 | 6,775.61 | -1,500.92 | 14,534,669.21 | 1,735,224.39 | 40.02129821 | -104.66135770 | |
| 15,500.03 | 89.97 | 0.04 | 7,391.72 | 6,875.61 | -1,500.84 | 14,534,769.21 | 1,735,224.46 | 40.02157282 | -104.66135609 | |
| 15,600.03 | 89.97 | 0.04 | 7,391.77 | 6,975.61 | -1,500.77 | 14,534,869.21 | 1,735,224.53 | 40.02184743 | -104.66135448 | |
| 15,700.03 | 89.97 | 0.04 | 7,391.82 | 7,075.61 | -1,500.70 | 14,534,969.21 | 1,735,224.60 | 40.02212204 | -104.66135287 | |
| 15,800.03 | 89.97 | 0.04 | 7,391.87 | 7,175.62 | -1,500.63 | 14,535,069.21 | 1,735,224.67 | 40.02239666 | -104.66135127 | |
| 15,900.03 | 89.97 | 0.04 | 7,391.92 | 7,275.62 | -1,500.56 | 14,535,169.21 | 1,735,224.74 | 40.02267127 | -104.66134966 | |
| 16,000.03 | 89.97 | 0.04 | 7,391.98 | 7,375.62 | -1,500.49 | 14,535,269.21 | 1,735,224.81 | 40.02294588 | -104.66134805 | |
| 16,100.03 | 89.97 | 0.04 | 7,392.03 | 7,475.62 | -1,500.42 | 14,535,369.21 | 1,735,224.88 | 40.02322049 | -104.66134644 | |
| 16,200.03 | 89.97 | 0.04 | 7,392.08 | 7,575.62 | -1,500.35 | 14,535,469.21 | 1,735,224.95 | 40.02349511 | -104.66134483 | |
| 16,300.03 | 89.97 | 0.04 | 7,392.13 | 7,675.62 | -1,500.28 | 14,535,569.21 | 1,735,225.02 | 40.02376972 | -104.66134322 | |
| 16,400.03 | 89.97 | 0.04 | 7,392.18 | 7,775.62 | -1,500.21 | 14,535,669.21 | 1,735,225.09 | 40.02404433 | -104.66134161 | |
| 16,500.03 | 89.97 | 0.04 | 7,392.23 | 7,875.62 | -1,500.14 | 14,535,769.21 | 1,735,225.16 | 40.02431895 | -104.66134000 | |
| 16,600.03 | 89.97 | 0.04 | 7,392.29 | 7,975.62 | -1,500.07 | 14,535,869.21 | 1,735,225.23 | 40.02459356 | -104.66133839 | |
| 16,700.03 | 89.97 | 0.04 | 7,392.34 | 8,075.62 | -1,500.00 | 14,535,969.21 | 1,735,225.30 | 40.02486817 | -104.66133679 | |
| 16,800.03 | 89.97 | 0.04 | 7,392.39 | 8,175.62 | -1,499.93 | 14,536,069.21 | 1,735,225.37 | 40.02514278 | -104.66133518 | |
| 16,900.03 | 89.97 | 0.04 | 7,392.44 | 8,275.62 | -1,499.86 | 14,536,169.20 | 1,735,225.44 | 40.02541740 | -104.66133357 | |
| 17,000.03 | 89.97 | 0.04 | 7,392.49 | 8,375.62 | -1,499.79 | 14,536,269.20 | 1,735,225.51 | 40.02569201 | -104.66133196 | |
| 17,100.03 | 89.97 | 0.04 | 7,392.55 | 8,475.62 | -1,499.72 | 14,536,369.20 | 1,735,225.58 | 40.02596662 | -104.66133035 | |
| 17,200.03 | 89.97 | 0.04 | 7,392.60 | 8,575.62 | -1,499.65 | 14,536,469.20 | 1,735,225.65 | 40.02624123 | -104.66132874 | |
| 17,300.03 | 89.97 | 0.04 | 7,392.65 | 8,675.62 | -1,499.58 | 14,536,569.20 | 1,735,225.72 | 40.02651585 | -104.66132713 | |
| 17,400.04 | 89.97 | 0.04 | 7,392.70 | 8,775.62 | -1,499.51 | 14,536,669.20 | 1,735,225.79 | 40.02679046 | -104.66132552 | |
| 17,500.04 | 89.97 | 0.04 | 7,392.75 | 8,875.62 | -1,499.44 | 14,536,769.20 | 1,735,225.86 | 40.02706507 | -104.66132391 | |
| 17,600.04 | 89.97 | 0.04 | 7,392.80 | 8,975.62 | -1,499.37 | 14,536,869.20 | 1,735,225.93 | 40.02733968 | -104.66132230 | |
| 17,700.04 | 89.97 | 0.04 | 7,392.86 | 9,075.62 | -1,499.30 | 14,536,969.20 | 1,735,226.00 | 40.02761429 | -104.66132069 | |
| 17,800.04 | 89.97 | 0.04 | 7,392.91 | 9,175.62 | -1,499.23 | 14,537,069.20 | 1,735,226.07 | 40.02788891 | -104.66131908 | |
| 17,900.04 | 89.97 | 0.04 | 7,392.96 | 9,275.62 | -1,499.16 | 14,537,169.20 | 1,735,226.14 | 40.02816352 | -104.66131748 | |
| 17,977.14 | 89.97 | 0.04 | 7,393.00 | 9,352.72 | -1,499.10 | 14,537,246.30 | 1,735,226.20 | 40.02837525 | -104.66131623 | |
| PBHL/TD 17977.14 MD 7393.00 TVD | | | | | | | | | | |

| Design Targets | | | | | | | | | | |
|----------------------------------------------------------------|---------------|--------------|----------|------------|------------|-----------------|----------------|-------------|---------------|--|
| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (usft) | Easting (usft) | Latitude | Longitude | |
| LP Buford 33-01-3L 470 - plan hits target center - Point | 0.00 | 0.00 | 7,388.00 | -307.30 | -1,445.61 | 14,527,586.30 | 1,735,279.69 | 40.00184699 | -104.66125634 | |
| TP Buford 33-01-3L 480 - plan hits target center - Point | 0.00 | 0.01 | 7,390.50 | 4,530.91 | -1,502.27 | 14,532,424.50 | 1,735,223.03 | 40.01513397 | -104.66139302 | |
| BHL Buford 33-01-3L 47 - plan hits target center - Point | 0.00 | 0.00 | 7,393.00 | 9,352.72 | -1,499.10 | 14,537,246.30 | 1,735,226.20 | 40.02837525 | -104.66131623 | |

| | | | |
|------------------|-----------------------|-------------------------------------|-------------------------|
| Database: | DB_Aug0116_LT_v14 | Local Co-ordinate Reference: | Well Buford 33-01-3L |
| Company: | Confluence Resources | TVD Reference: | RKB=5136+25 @ 5161.00ft |
| Project: | Weld County, Colorado | MD Reference: | RKB=5136+25 @ 5161.00ft |
| Site: | Section 34-T01N-R65W | North Reference: | Grid |
| Well: | Buford 33-01-3L | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Original Hole | | |
| Design: | plan1 | | |

| Plan Annotations | | | | |
|---------------------------|---------------------------|-------------------|---------------|---------------------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates | | Comment |
| | | +N/-S (ft) | +E/-W (ft) | |
| 5,000.00 | 5,000.00 | 0.00 | 0.00 | KOP Begin 10°/100' build |
| 5,406.25 | 5,373.06 | -88.26 | -106.20 | Begin 40.62° tangent section |
| 7,174.80 | 6,715.37 | -824.29 | -991.78 | Begin 10°/100' build/turn |
| 8,316.78 | 7,388.00 | -307.30 | -1,445.61 | LP Begin 89.97° lateral section |
| 13,155.32 | 7,390.50 | 4,530.91 | -1,502.27 | Begin 2°/100' turn |
| 13,190.89 | 7,390.52 | 4,566.47 | -1,502.47 | Begin 89.97° lateral section |
| 17,977.14 | 7,393.00 | 9,352.72 | -1,499.10 | PBHL/TD 17977.14 MD 7393.00 TVD |