



Bison IV Operating LLC

Larimer Co., CO (NAD-83)

Centerra East Pad

CE 5-68 11-10-13H

OH

Plan: Plan #3

Standard Planning Report

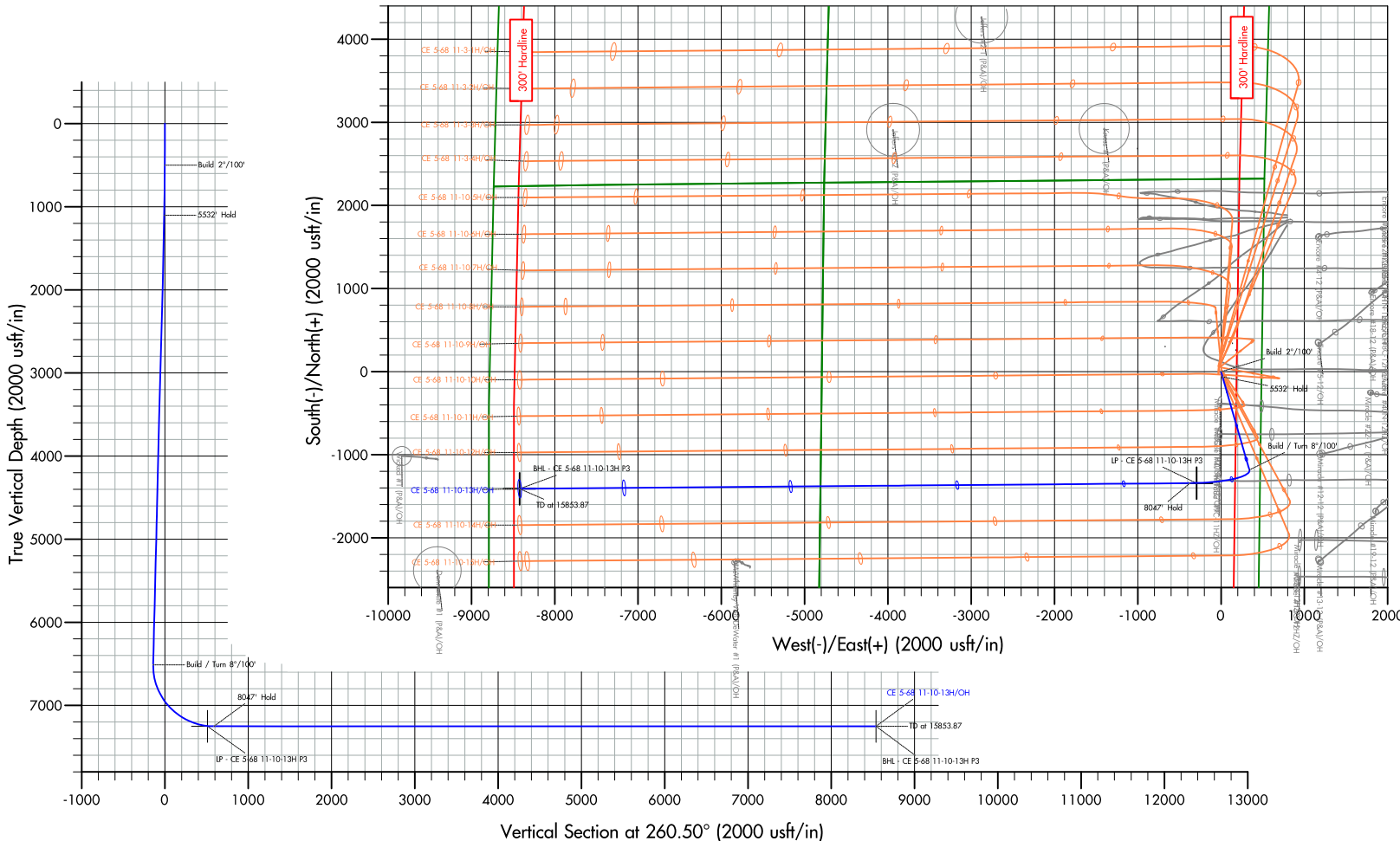
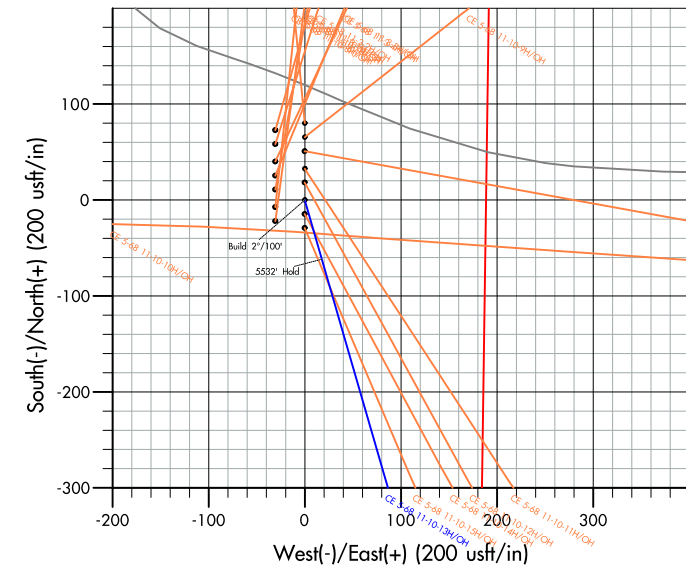
24 September, 2024





Project: Larimer Co., CO (NAD-83)
 Site: Centerra East Pad
 Well: CE 5-68 11-10-13H
 Wellbore: OH
 Design: Plan #3
 Lat: 40.415350
 Long: -104.965940
 GL: 4980.00
 KB: KB=20 @ 5000.00usft (Precision 460)

| WELL DETAILS: CE 5-68 11-10-13H | | | | | | | | | |
|------------------------------------|---------|------------|------------|------------|-------------|-----------|-------------|---------|----------------------|
| +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | | | | |
| 0.00 | 0.00 | 1394600.16 | 3148706.66 | 40.415350 | -104.965940 | | | | |
| WELLBORE TARGET DETAILS (LAT/LONG) | | | | | | | | | |
| Name | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | | |
| BHL - CE 5-68 11-10-13H P3 | 7253.00 | -1408.39 | -8420.73 | 1393141.08 | 3140294.57 | 40.411480 | -104.996180 | | |
| LP - CE 5-68 11-10-13H P3 | 7253.00 | -1340.71 | -293.35 | 1393257.71 | 3148421.39 | 40.411670 | -104.966993 | | |
| SECTION DETAILS | | | | | | | | | |
| MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | VSect | Annotation |
| 0.00 | 0.00 | 0.00 | 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 | Build 2°/100' |
| 1107.81 | 12.16 | 163.93 | 1103.26 | -61.72 | 17.79 | 2.00 | 163.93 | -7.36 | 5532' Hold |
| 6640.65 | 12.16 | 163.93 | 6512.04 | -1181.26 | 340.38 | 0.00 | 0.00 | -140.86 | Build / Turn 8°/100' |
| 7806.21 | 90.00 | 269.52 | 7253.00 | -1340.97 | -373.35 | 8.00 | 105.26 | 589.45 | 8047' Hold |
| 15853.87 | 90.00 | 269.52 | 7253.00 | -1408.39 | -8420.73 | 0.00 | 0.00 | 8537.70 | TD at 15853.87 |



| FORMATION TOPS | | |
|----------------|---------|----------------|
| TVDPath | MDPath | Formation |
| 534.00 | 534.00 | Upper Pierre |
| 1034.00 | 1037.14 | Pierre |
| 3524.00 | 3584.07 | Parkman |
| 4119.00 | 4192.72 | Sussex |
| 4568.00 | 4652.02 | Shannon |
| 6852.00 | 6998.11 | Sharon Springs |
| 6913.00 | 7068.82 | Niobrara |
| 7220.00 | 7585.63 | Fort Hays |
| 7244.00 | 7691.35 | Codell |

Azimuths to True North
 Magnetic North: 7.81°

Magnetic Field
 Strength: 51590.5nT
 Dip Angle: 66.49°
 Date: 8/26/2024
 Model: HRGM



| | | | |
|------------------|--------------------------|-------------------------------------|-------------------------------------|
| Database: | EDMProd | Local Co-ordinate Reference: | Well CE 5-68 11-10-13H |
| Company: | Bison IV Operating LLC | TVD Reference: | KB=20 @ 5000.00usft (Precision 460) |
| Project: | Larimer Co., CO (NAD-83) | MD Reference: | KB=20 @ 5000.00usft (Precision 460) |
| Site: | Centerra East Pad | North Reference: | True |
| Well: | CE 5-68 11-10-13H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan #3 | | |

| | | | |
|--------------------|---------------------------|----------------------|----------------|
| Project | Larimer Co., CO (NAD-83) | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Northern Zone | | |

| | | | | | |
|------------------------------|-------------------|---------------------|-------------------|-------------------|-------------|
| Site | Centerra East Pad | | | | |
| Site Position: | | Northing: | 1,394,680.31 usft | Latitude: | 40.415570 |
| From: | Lat/Long | Easting: | 3,148,706.18 usft | Longitude: | -104.965940 |
| Position Uncertainty: | 0.00 usft | Slot Radius: | 13-3/16 " | | |

| | | | | | | |
|-----------------------------|-------------------|-----------|----------------------------|-------------------|----------------------|---------------|
| Well | CE 5-68 11-10-13H | | | | | |
| Well Position | +N/-S | 0.00 usft | Northing: | 1,394,600.16 usft | Latitude: | 40.415350 |
| | +E/-W | 0.00 usft | Easting: | 3,148,706.66 usft | Longitude: | -104.965940 |
| Position Uncertainty | 0.00 usft | | Wellhead Elevation: | usft | Ground Level: | 4,980.00 usft |
| Grid Convergence: | 0.35 ° | | | | | |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | OH | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | HRGM | 8/26/2024 | 7.81 | 66.49 | 51,590.51881205 |

| | | | | |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| Design | Plan #3 | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PLAN | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) |
| | 0.00 | 0.00 | 0.00 | 260.51 |

| | | | | |
|---------------------------------|------------------------|--------------------------|------------------|------------------------|
| Plan Survey Tool Program | Date | 9/24/2024 | | |
| Depth From (usft) | Depth To (usft) | Survey (Wellbore) | Tool Name | Remarks |
| 1 | 0.00 | 15,853.87 Plan #3 (OH) | MWD+IFR1+MS | OWSG MWD + IFR1 + Mult |

| Plan Sections | | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|--------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target |
| 0.00 | 0.00 | 0.00 | 0.00 | 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 | |
| 1,107.81 | 12.16 | 163.93 | 1,103.26 | -61.72 | 17.79 | 2.00 | 2.00 | 0.00 | 163.93 | |
| 6,640.65 | 12.16 | 163.93 | 6,512.04 | -1,181.26 | 340.38 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,806.21 | 90.00 | 269.52 | 7,253.00 | -1,340.97 | -373.35 | 8.00 | 6.68 | 9.06 | 105.26 | |
| 15,853.87 | 90.00 | 269.52 | 7,253.00 | -1,408.39 | -8,420.73 | 0.00 | 0.00 | 0.00 | 0.00 | BHL - CE 5-68 11-1 |

| | | | |
|------------------|--------------------------|-------------------------------------|-------------------------------------|
| Database: | EDMProd | Local Co-ordinate Reference: | Well CE 5-68 11-10-13H |
| Company: | Bison IV Operating LLC | TVD Reference: | KB=20 @ 5000.00usft (Precision 460) |
| Project: | Larimer Co., CO (NAD-83) | MD Reference: | KB=20 @ 5000.00usft (Precision 460) |
| Site: | Centerra East Pad | North Reference: | True |
| Well: | CE 5-68 11-10-13H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan #3 | | |

| Planned Survey | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 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 |
| Build 2°/100' | | | | | | | | | |
| 534.00 | 0.68 | 163.93 | 534.00 | -0.19 | 0.06 | -0.02 | 2.00 | 2.00 | 0.00 |
| Upper Pierre | | | | | | | | | |
| 600.00 | 2.00 | 163.93 | 599.98 | -1.68 | 0.48 | -0.20 | 2.00 | 2.00 | 0.00 |
| 700.00 | 4.00 | 163.93 | 699.84 | -6.71 | 1.93 | -0.80 | 2.00 | 2.00 | 0.00 |
| 800.00 | 6.00 | 163.93 | 799.45 | -15.08 | 4.35 | -1.80 | 2.00 | 2.00 | 0.00 |
| 900.00 | 8.00 | 163.93 | 898.70 | -26.79 | 7.72 | -3.19 | 2.00 | 2.00 | 0.00 |
| 1,000.00 | 10.00 | 163.93 | 997.47 | -41.82 | 12.05 | -4.99 | 2.00 | 2.00 | 0.00 |
| 1,037.14 | 10.74 | 163.93 | 1,034.00 | -48.25 | 13.90 | -5.75 | 2.00 | 2.00 | 0.00 |
| Pierre | | | | | | | | | |
| 1,107.81 | 12.16 | 163.93 | 1,103.26 | -61.72 | 17.79 | -7.36 | 2.00 | 2.00 | 0.00 |
| 5532' Hold | | | | | | | | | |
| 1,200.00 | 12.16 | 163.93 | 1,193.38 | -80.38 | 23.16 | -9.58 | 0.00 | 0.00 | 0.00 |
| 1,300.00 | 12.16 | 163.93 | 1,291.14 | -100.61 | 28.99 | -12.00 | 0.00 | 0.00 | 0.00 |
| 1,400.00 | 12.16 | 163.93 | 1,388.90 | -120.85 | 34.82 | -14.41 | 0.00 | 0.00 | 0.00 |
| 1,500.00 | 12.16 | 163.93 | 1,486.66 | -141.08 | 40.65 | -16.82 | 0.00 | 0.00 | 0.00 |
| 1,600.00 | 12.16 | 163.93 | 1,584.41 | -161.32 | 46.48 | -19.24 | 0.00 | 0.00 | 0.00 |
| 1,700.00 | 12.16 | 163.93 | 1,682.17 | -181.55 | 52.31 | -21.65 | 0.00 | 0.00 | 0.00 |
| 1,800.00 | 12.16 | 163.93 | 1,779.93 | -201.78 | 58.15 | -24.06 | 0.00 | 0.00 | 0.00 |
| 1,900.00 | 12.16 | 163.93 | 1,877.69 | -222.02 | 63.98 | -26.47 | 0.00 | 0.00 | 0.00 |
| 2,000.00 | 12.16 | 163.93 | 1,975.45 | -242.25 | 69.81 | -28.89 | 0.00 | 0.00 | 0.00 |
| 2,100.00 | 12.16 | 163.93 | 2,073.20 | -262.49 | 75.64 | -31.30 | 0.00 | 0.00 | 0.00 |
| 2,200.00 | 12.16 | 163.93 | 2,170.96 | -282.72 | 81.47 | -33.71 | 0.00 | 0.00 | 0.00 |
| 2,300.00 | 12.16 | 163.93 | 2,268.72 | -302.96 | 87.30 | -36.13 | 0.00 | 0.00 | 0.00 |
| 2,400.00 | 12.16 | 163.93 | 2,366.48 | -323.19 | 93.13 | -38.54 | 0.00 | 0.00 | 0.00 |
| 2,500.00 | 12.16 | 163.93 | 2,464.23 | -343.43 | 98.96 | -40.95 | 0.00 | 0.00 | 0.00 |
| 2,600.00 | 12.16 | 163.93 | 2,561.99 | -363.66 | 104.79 | -43.36 | 0.00 | 0.00 | 0.00 |
| 2,700.00 | 12.16 | 163.93 | 2,659.75 | -383.89 | 110.62 | -45.78 | 0.00 | 0.00 | 0.00 |
| 2,800.00 | 12.16 | 163.93 | 2,757.51 | -404.13 | 116.45 | -48.19 | 0.00 | 0.00 | 0.00 |
| 2,900.00 | 12.16 | 163.93 | 2,855.26 | -424.36 | 122.28 | -50.60 | 0.00 | 0.00 | 0.00 |
| 3,000.00 | 12.16 | 163.93 | 2,953.02 | -444.60 | 128.11 | -53.02 | 0.00 | 0.00 | 0.00 |
| 3,100.00 | 12.16 | 163.93 | 3,050.78 | -464.83 | 133.94 | -55.43 | 0.00 | 0.00 | 0.00 |
| 3,200.00 | 12.16 | 163.93 | 3,148.54 | -485.07 | 139.77 | -57.84 | 0.00 | 0.00 | 0.00 |
| 3,300.00 | 12.16 | 163.93 | 3,246.30 | -505.30 | 145.60 | -60.25 | 0.00 | 0.00 | 0.00 |
| 3,400.00 | 12.16 | 163.93 | 3,344.05 | -525.53 | 151.44 | -62.67 | 0.00 | 0.00 | 0.00 |
| 3,500.00 | 12.16 | 163.93 | 3,441.81 | -545.77 | 157.27 | -65.08 | 0.00 | 0.00 | 0.00 |
| 3,584.07 | 12.16 | 163.93 | 3,524.00 | -562.78 | 162.17 | -67.11 | 0.00 | 0.00 | 0.00 |
| Parkman | | | | | | | | | |
| 3,600.00 | 12.16 | 163.93 | 3,539.57 | -566.00 | 163.10 | -67.49 | 0.00 | 0.00 | 0.00 |
| 3,700.00 | 12.16 | 163.93 | 3,637.33 | -586.24 | 168.93 | -69.91 | 0.00 | 0.00 | 0.00 |
| 3,800.00 | 12.16 | 163.93 | 3,735.08 | -606.47 | 174.76 | -72.32 | 0.00 | 0.00 | 0.00 |
| 3,900.00 | 12.16 | 163.93 | 3,832.84 | -626.71 | 180.59 | -74.73 | 0.00 | 0.00 | 0.00 |
| 4,000.00 | 12.16 | 163.93 | 3,930.60 | -646.94 | 186.42 | -77.14 | 0.00 | 0.00 | 0.00 |
| 4,100.00 | 12.16 | 163.93 | 4,028.36 | -667.17 | 192.25 | -79.56 | 0.00 | 0.00 | 0.00 |
| 4,192.72 | 12.16 | 163.93 | 4,119.00 | -685.94 | 197.66 | -81.79 | 0.00 | 0.00 | 0.00 |
| Sussex | | | | | | | | | |
| 4,200.00 | 12.16 | 163.93 | 4,126.12 | -687.41 | 198.08 | -81.97 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|--------------------------|-------------------------------------|-------------------------------------|
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| Project: | Larimer Co., CO (NAD-83) | MD Reference: | KB=20 @ 5000.00usft (Precision 460) |
| Site: | Centerra East Pad | North Reference: | True |
| Well: | CE 5-68 11-10-13H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan #3 | | |

| Planned Survey | | | | | | | | | |
|-----------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 4,300.00 | 12.16 | 163.93 | 4,223.87 | -707.64 | 203.91 | -84.38 | 0.00 | 0.00 | 0.00 |
| 4,400.00 | 12.16 | 163.93 | 4,321.63 | -727.88 | 209.74 | -86.80 | 0.00 | 0.00 | 0.00 |
| 4,500.00 | 12.16 | 163.93 | 4,419.39 | -748.11 | 215.57 | -89.21 | 0.00 | 0.00 | 0.00 |
| 4,600.00 | 12.16 | 163.93 | 4,517.15 | -768.35 | 221.40 | -91.62 | 0.00 | 0.00 | 0.00 |
| 4,652.02 | 12.16 | 163.93 | 4,568.00 | -778.87 | 224.44 | -92.88 | 0.00 | 0.00 | 0.00 |
| Shannon | | | | | | | | | |
| 4,700.00 | 12.16 | 163.93 | 4,614.90 | -788.58 | 227.23 | -94.03 | 0.00 | 0.00 | 0.00 |
| 4,800.00 | 12.16 | 163.93 | 4,712.66 | -808.81 | 233.06 | -96.45 | 0.00 | 0.00 | 0.00 |
| 4,900.00 | 12.16 | 163.93 | 4,810.42 | -829.05 | 238.89 | -98.86 | 0.00 | 0.00 | 0.00 |
| 5,000.00 | 12.16 | 163.93 | 4,908.18 | -849.28 | 244.72 | -101.27 | 0.00 | 0.00 | 0.00 |
| 5,100.00 | 12.16 | 163.93 | 5,005.94 | -869.52 | 250.56 | -103.69 | 0.00 | 0.00 | 0.00 |
| 5,200.00 | 12.16 | 163.93 | 5,103.69 | -889.75 | 256.39 | -106.10 | 0.00 | 0.00 | 0.00 |
| 5,300.00 | 12.16 | 163.93 | 5,201.45 | -909.99 | 262.22 | -108.51 | 0.00 | 0.00 | 0.00 |
| 5,400.00 | 12.16 | 163.93 | 5,299.21 | -930.22 | 268.05 | -110.92 | 0.00 | 0.00 | 0.00 |
| 5,500.00 | 12.16 | 163.93 | 5,396.97 | -950.45 | 273.88 | -113.34 | 0.00 | 0.00 | 0.00 |
| 5,600.00 | 12.16 | 163.93 | 5,494.72 | -970.69 | 279.71 | -115.75 | 0.00 | 0.00 | 0.00 |
| 5,700.00 | 12.16 | 163.93 | 5,592.48 | -990.92 | 285.54 | -118.16 | 0.00 | 0.00 | 0.00 |
| 5,800.00 | 12.16 | 163.93 | 5,690.24 | -1,011.16 | 291.37 | -120.58 | 0.00 | 0.00 | 0.00 |
| 5,900.00 | 12.16 | 163.93 | 5,788.00 | -1,031.39 | 297.20 | -122.99 | 0.00 | 0.00 | 0.00 |
| 6,000.00 | 12.16 | 163.93 | 5,885.76 | -1,051.63 | 303.03 | -125.40 | 0.00 | 0.00 | 0.00 |
| 6,100.00 | 12.16 | 163.93 | 5,983.51 | -1,071.86 | 308.86 | -127.81 | 0.00 | 0.00 | 0.00 |
| 6,200.00 | 12.16 | 163.93 | 6,081.27 | -1,092.09 | 314.69 | -130.23 | 0.00 | 0.00 | 0.00 |
| 6,300.00 | 12.16 | 163.93 | 6,179.03 | -1,112.33 | 320.52 | -132.64 | 0.00 | 0.00 | 0.00 |
| 6,400.00 | 12.16 | 163.93 | 6,276.79 | -1,132.56 | 326.35 | -135.05 | 0.00 | 0.00 | 0.00 |
| 6,500.00 | 12.16 | 163.93 | 6,374.54 | -1,152.80 | 332.18 | -137.47 | 0.00 | 0.00 | 0.00 |
| 6,600.00 | 12.16 | 163.93 | 6,472.30 | -1,173.03 | 338.01 | -139.88 | 0.00 | 0.00 | 0.00 |
| 6,640.65 | 12.16 | 163.93 | 6,512.04 | -1,181.26 | 340.38 | -140.86 | 0.00 | 0.00 | 0.00 |
| Build / Turn 8°/100' | | | | | | | | | |
| 6,650.00 | 11.98 | 167.40 | 6,521.18 | -1,183.15 | 340.87 | -141.02 | 8.00 | -1.88 | 37.20 |
| 6,700.00 | 11.82 | 186.88 | 6,570.13 | -1,193.30 | 341.39 | -139.86 | 8.00 | -0.33 | 38.95 |
| 6,750.00 | 12.93 | 204.89 | 6,618.99 | -1,203.46 | 338.42 | -135.26 | 8.00 | 2.23 | 36.03 |
| 6,800.00 | 15.05 | 219.01 | 6,667.51 | -1,213.59 | 331.98 | -127.23 | 8.00 | 4.23 | 28.23 |
| 6,850.00 | 17.81 | 229.29 | 6,715.48 | -1,223.62 | 322.09 | -115.83 | 8.00 | 5.52 | 20.56 |
| 6,900.00 | 20.96 | 236.73 | 6,762.64 | -1,233.52 | 308.81 | -101.10 | 8.00 | 6.31 | 14.88 |
| 6,950.00 | 24.36 | 242.24 | 6,808.78 | -1,243.23 | 292.20 | -83.11 | 8.00 | 6.79 | 11.02 |
| 6,998.11 | 27.77 | 246.31 | 6,852.00 | -1,252.36 | 273.15 | -62.82 | 8.00 | 7.09 | 8.46 |
| Sharon Springs | | | | | | | | | |
| 7,000.00 | 27.90 | 246.45 | 6,853.67 | -1,252.71 | 272.35 | -61.97 | 8.00 | 7.20 | 7.45 |
| 7,050.00 | 31.55 | 249.77 | 6,897.09 | -1,261.91 | 249.34 | -37.75 | 8.00 | 7.29 | 6.64 |
| 7,068.82 | 32.94 | 250.85 | 6,913.00 | -1,265.29 | 239.88 | -27.87 | 8.00 | 7.40 | 5.71 |
| Niobrara | | | | | | | | | |
| 7,100.00 | 35.27 | 252.46 | 6,938.82 | -1,270.79 | 223.29 | -10.60 | 8.00 | 7.46 | 5.18 |
| 7,150.00 | 39.03 | 254.69 | 6,978.67 | -1,279.30 | 194.33 | 19.37 | 8.00 | 7.53 | 4.47 |
| 7,200.00 | 42.84 | 256.59 | 7,016.43 | -1,287.40 | 162.60 | 52.00 | 8.00 | 7.60 | 3.79 |
| 7,250.00 | 46.67 | 258.23 | 7,051.94 | -1,295.05 | 128.25 | 87.15 | 8.00 | 7.66 | 3.28 |
| 7,300.00 | 50.52 | 259.68 | 7,085.00 | -1,302.22 | 91.45 | 124.62 | 8.00 | 7.70 | 2.89 |
| 7,350.00 | 54.38 | 260.97 | 7,115.47 | -1,308.87 | 52.38 | 164.25 | 8.00 | 7.73 | 2.59 |
| 7,400.00 | 58.26 | 262.15 | 7,143.20 | -1,314.97 | 11.23 | 205.85 | 8.00 | 7.76 | 2.35 |
| 7,450.00 | 62.15 | 263.23 | 7,168.04 | -1,320.48 | -31.80 | 249.20 | 8.00 | 7.78 | 2.16 |
| 7,500.00 | 66.05 | 264.23 | 7,189.87 | -1,325.39 | -76.50 | 294.09 | 8.00 | 7.79 | 2.01 |
| 7,550.00 | 69.95 | 265.18 | 7,208.60 | -1,329.66 | -122.65 | 340.32 | 8.00 | 7.81 | 1.89 |
| 7,585.63 | 72.73 | 265.82 | 7,220.00 | -1,332.31 | -156.30 | 373.94 | 8.00 | 7.81 | 1.81 |
| Fort Hays | | | | | | | | | |

| | | | |
|------------------|--------------------------|-------------------------------------|-------------------------------------|
| Database: | EDMProd | Local Co-ordinate Reference: | Well CE 5-68 11-10-13H |
| Company: | Bison IV Operating LLC | TVD Reference: | KB=20 @ 5000.00usft (Precision 460) |
| Project: | Larimer Co., CO (NAD-83) | MD Reference: | KB=20 @ 5000.00usft (Precision 460) |
| Site: | Centerra East Pad | North Reference: | True |
| Well: | CE 5-68 11-10-13H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan #3 | | |

| Planned Survey | | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | |
| 7,600.00 | 73.86 | 266.08 | 7,224.13 | -1,333.28 | -170.03 | 387.64 | 8.00 | 7.82 | 1.77 | |
| 7,650.00 | 77.77 | 266.94 | 7,236.39 | -1,336.23 | -218.41 | 435.84 | 8.00 | 7.82 | 1.73 | |
| 7,691.35 | 81.00 | 267.64 | 7,244.00 | -1,338.15 | -259.00 | 476.19 | 8.00 | 7.83 | 1.68 | |
| Codell | | | | | | | | | | |
| 7,700.00 | 81.68 | 267.78 | 7,245.30 | -1,338.49 | -267.54 | 484.68 | 8.00 | 7.83 | 1.66 | |
| 7,750.00 | 85.60 | 268.60 | 7,250.84 | -1,340.05 | -317.20 | 533.91 | 8.00 | 7.83 | 1.65 | |
| 7,800.00 | 89.51 | 269.42 | 7,252.97 | -1,340.92 | -367.14 | 583.31 | 8.00 | 7.83 | 1.63 | |
| 7,806.21 | 90.00 | 269.52 | 7,253.00 | -1,340.97 | -373.35 | 589.45 | 8.00 | 7.83 | 1.63 | |
| 8047' Hold | | | | | | | | | | |
| 7,900.00 | 90.00 | 269.52 | 7,253.00 | -1,341.76 | -467.13 | 682.07 | 0.00 | 0.00 | 0.00 | |
| 8,000.00 | 90.00 | 269.52 | 7,253.00 | -1,342.60 | -567.13 | 780.84 | 0.00 | 0.00 | 0.00 | |
| 8,100.00 | 90.00 | 269.52 | 7,253.00 | -1,343.43 | -667.13 | 879.60 | 0.00 | 0.00 | 0.00 | |
| 8,200.00 | 90.00 | 269.52 | 7,253.00 | -1,344.27 | -767.12 | 978.37 | 0.00 | 0.00 | 0.00 | |
| 8,300.00 | 90.00 | 269.52 | 7,253.00 | -1,345.11 | -867.12 | 1,077.13 | 0.00 | 0.00 | 0.00 | |
| 8,400.00 | 90.00 | 269.52 | 7,253.00 | -1,345.95 | -967.12 | 1,175.90 | 0.00 | 0.00 | 0.00 | |
| 8,500.00 | 90.00 | 269.52 | 7,253.00 | -1,346.79 | -1,067.11 | 1,274.66 | 0.00 | 0.00 | 0.00 | |
| 8,600.00 | 90.00 | 269.52 | 7,253.00 | -1,347.62 | -1,167.11 | 1,373.43 | 0.00 | 0.00 | 0.00 | |
| 8,700.00 | 90.00 | 269.52 | 7,253.00 | -1,348.46 | -1,267.11 | 1,472.19 | 0.00 | 0.00 | 0.00 | |
| 8,800.00 | 90.00 | 269.52 | 7,253.00 | -1,349.30 | -1,367.10 | 1,570.96 | 0.00 | 0.00 | 0.00 | |
| 8,900.00 | 90.00 | 269.52 | 7,253.00 | -1,350.14 | -1,467.10 | 1,669.72 | 0.00 | 0.00 | 0.00 | |
| 9,000.00 | 90.00 | 269.52 | 7,253.00 | -1,350.97 | -1,567.09 | 1,768.48 | 0.00 | 0.00 | 0.00 | |
| 9,100.00 | 90.00 | 269.52 | 7,253.00 | -1,351.81 | -1,667.09 | 1,867.25 | 0.00 | 0.00 | 0.00 | |
| 9,200.00 | 90.00 | 269.52 | 7,253.00 | -1,352.65 | -1,767.09 | 1,966.01 | 0.00 | 0.00 | 0.00 | |
| 9,300.00 | 90.00 | 269.52 | 7,253.00 | -1,353.49 | -1,867.08 | 2,064.78 | 0.00 | 0.00 | 0.00 | |
| 9,400.00 | 90.00 | 269.52 | 7,253.00 | -1,354.32 | -1,967.08 | 2,163.54 | 0.00 | 0.00 | 0.00 | |
| 9,500.00 | 90.00 | 269.52 | 7,253.00 | -1,355.16 | -2,067.08 | 2,262.31 | 0.00 | 0.00 | 0.00 | |
| 9,600.00 | 90.00 | 269.52 | 7,253.00 | -1,356.00 | -2,167.07 | 2,361.07 | 0.00 | 0.00 | 0.00 | |
| 9,700.00 | 90.00 | 269.52 | 7,253.00 | -1,356.84 | -2,267.07 | 2,459.84 | 0.00 | 0.00 | 0.00 | |
| 9,800.00 | 90.00 | 269.52 | 7,253.00 | -1,357.68 | -2,367.07 | 2,558.60 | 0.00 | 0.00 | 0.00 | |
| 9,900.00 | 90.00 | 269.52 | 7,253.00 | -1,358.51 | -2,467.06 | 2,657.37 | 0.00 | 0.00 | 0.00 | |
| 10,000.00 | 90.00 | 269.52 | 7,253.00 | -1,359.35 | -2,567.06 | 2,756.13 | 0.00 | 0.00 | 0.00 | |
| 10,100.00 | 90.00 | 269.52 | 7,253.00 | -1,360.19 | -2,667.06 | 2,854.90 | 0.00 | 0.00 | 0.00 | |
| 10,200.00 | 90.00 | 269.52 | 7,253.00 | -1,361.03 | -2,767.05 | 2,953.66 | 0.00 | 0.00 | 0.00 | |
| 10,300.00 | 90.00 | 269.52 | 7,253.00 | -1,361.86 | -2,867.05 | 3,052.43 | 0.00 | 0.00 | 0.00 | |
| 10,400.00 | 90.00 | 269.52 | 7,253.00 | -1,362.70 | -2,967.05 | 3,151.19 | 0.00 | 0.00 | 0.00 | |
| 10,500.00 | 90.00 | 269.52 | 7,253.00 | -1,363.54 | -3,067.04 | 3,249.96 | 0.00 | 0.00 | 0.00 | |
| 10,600.00 | 90.00 | 269.52 | 7,253.00 | -1,364.38 | -3,167.04 | 3,348.72 | 0.00 | 0.00 | 0.00 | |
| 10,700.00 | 90.00 | 269.52 | 7,253.00 | -1,365.22 | -3,267.04 | 3,447.49 | 0.00 | 0.00 | 0.00 | |
| 10,800.00 | 90.00 | 269.52 | 7,253.00 | -1,366.05 | -3,367.03 | 3,546.25 | 0.00 | 0.00 | 0.00 | |
| 10,900.00 | 90.00 | 269.52 | 7,253.00 | -1,366.89 | -3,467.03 | 3,645.01 | 0.00 | 0.00 | 0.00 | |
| 11,000.00 | 90.00 | 269.52 | 7,253.00 | -1,367.73 | -3,567.02 | 3,743.78 | 0.00 | 0.00 | 0.00 | |
| 11,100.00 | 90.00 | 269.52 | 7,253.00 | -1,368.57 | -3,667.02 | 3,842.54 | 0.00 | 0.00 | 0.00 | |
| 11,200.00 | 90.00 | 269.52 | 7,253.00 | -1,369.40 | -3,767.02 | 3,941.31 | 0.00 | 0.00 | 0.00 | |
| 11,300.00 | 90.00 | 269.52 | 7,253.00 | -1,370.24 | -3,867.01 | 4,040.07 | 0.00 | 0.00 | 0.00 | |
| 11,400.00 | 90.00 | 269.52 | 7,253.00 | -1,371.08 | -3,967.01 | 4,138.84 | 0.00 | 0.00 | 0.00 | |
| 11,500.00 | 90.00 | 269.52 | 7,253.00 | -1,371.92 | -4,067.01 | 4,237.60 | 0.00 | 0.00 | 0.00 | |
| 11,600.00 | 90.00 | 269.52 | 7,253.00 | -1,372.76 | -4,167.00 | 4,336.37 | 0.00 | 0.00 | 0.00 | |
| 11,700.00 | 90.00 | 269.52 | 7,253.00 | -1,373.59 | -4,267.00 | 4,435.13 | 0.00 | 0.00 | 0.00 | |
| 11,800.00 | 90.00 | 269.52 | 7,253.00 | -1,374.43 | -4,367.00 | 4,533.90 | 0.00 | 0.00 | 0.00 | |
| 11,900.00 | 90.00 | 269.52 | 7,253.00 | -1,375.27 | -4,466.99 | 4,632.66 | 0.00 | 0.00 | 0.00 | |
| 12,000.00 | 90.00 | 269.52 | 7,253.00 | -1,376.11 | -4,566.99 | 4,731.43 | 0.00 | 0.00 | 0.00 | |
| 12,100.00 | 90.00 | 269.52 | 7,253.00 | -1,376.94 | -4,666.99 | 4,830.19 | 0.00 | 0.00 | 0.00 | |
| 12,200.00 | 90.00 | 269.52 | 7,253.00 | -1,377.78 | -4,766.98 | 4,928.96 | 0.00 | 0.00 | 0.00 | |
| 12,300.00 | 90.00 | 269.52 | 7,253.00 | -1,378.62 | -4,866.98 | 5,027.72 | 0.00 | 0.00 | 0.00 | |

| | | | |
|------------------|--------------------------|-------------------------------------|-------------------------------------|
| Database: | EDMProd | Local Co-ordinate Reference: | Well CE 5-68 11-10-13H |
| Company: | Bison IV Operating LLC | TVD Reference: | KB=20 @ 5000.00usft (Precision 460) |
| Project: | Larimer Co., CO (NAD-83) | MD Reference: | KB=20 @ 5000.00usft (Precision 460) |
| Site: | Centerra East Pad | North Reference: | True |
| Well: | CE 5-68 11-10-13H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan #3 | | |

| Planned Survey | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 12,400.00 | 90.00 | 269.52 | 7,253.00 | -1,379.46 | -4,966.98 | 5,126.49 | 0.00 | 0.00 | 0.00 |
| 12,500.00 | 90.00 | 269.52 | 7,253.00 | -1,380.30 | -5,066.97 | 5,225.25 | 0.00 | 0.00 | 0.00 |
| 12,600.00 | 90.00 | 269.52 | 7,253.00 | -1,381.13 | -5,166.97 | 5,324.02 | 0.00 | 0.00 | 0.00 |
| 12,700.00 | 90.00 | 269.52 | 7,253.00 | -1,381.97 | -5,266.97 | 5,422.78 | 0.00 | 0.00 | 0.00 |
| 12,800.00 | 90.00 | 269.52 | 7,253.00 | -1,382.81 | -5,366.96 | 5,521.54 | 0.00 | 0.00 | 0.00 |
| 12,900.00 | 90.00 | 269.52 | 7,253.00 | -1,383.65 | -5,466.96 | 5,620.31 | 0.00 | 0.00 | 0.00 |
| 13,000.00 | 90.00 | 269.52 | 7,253.00 | -1,384.48 | -5,566.95 | 5,719.07 | 0.00 | 0.00 | 0.00 |
| 13,100.00 | 90.00 | 269.52 | 7,253.00 | -1,385.32 | -5,666.95 | 5,817.84 | 0.00 | 0.00 | 0.00 |
| 13,200.00 | 90.00 | 269.52 | 7,253.00 | -1,386.16 | -5,766.95 | 5,916.60 | 0.00 | 0.00 | 0.00 |
| 13,300.00 | 90.00 | 269.52 | 7,253.00 | -1,387.00 | -5,866.94 | 6,015.37 | 0.00 | 0.00 | 0.00 |
| 13,400.00 | 90.00 | 269.52 | 7,253.00 | -1,387.83 | -5,966.94 | 6,114.13 | 0.00 | 0.00 | 0.00 |
| 13,500.00 | 90.00 | 269.52 | 7,253.00 | -1,388.67 | -6,066.94 | 6,212.90 | 0.00 | 0.00 | 0.00 |
| 13,600.00 | 90.00 | 269.52 | 7,253.00 | -1,389.51 | -6,166.93 | 6,311.66 | 0.00 | 0.00 | 0.00 |
| 13,700.00 | 90.00 | 269.52 | 7,253.00 | -1,390.35 | -6,266.93 | 6,410.43 | 0.00 | 0.00 | 0.00 |
| 13,800.00 | 90.00 | 269.52 | 7,253.00 | -1,391.19 | -6,366.93 | 6,509.19 | 0.00 | 0.00 | 0.00 |
| 13,900.00 | 90.00 | 269.52 | 7,253.00 | -1,392.02 | -6,466.92 | 6,607.96 | 0.00 | 0.00 | 0.00 |
| 14,000.00 | 90.00 | 269.52 | 7,253.00 | -1,392.86 | -6,566.92 | 6,706.72 | 0.00 | 0.00 | 0.00 |
| 14,100.00 | 90.00 | 269.52 | 7,253.00 | -1,393.70 | -6,666.92 | 6,805.49 | 0.00 | 0.00 | 0.00 |
| 14,200.00 | 90.00 | 269.52 | 7,253.00 | -1,394.54 | -6,766.91 | 6,904.25 | 0.00 | 0.00 | 0.00 |
| 14,300.00 | 90.00 | 269.52 | 7,253.00 | -1,395.37 | -6,866.91 | 7,003.02 | 0.00 | 0.00 | 0.00 |
| 14,400.00 | 90.00 | 269.52 | 7,253.00 | -1,396.21 | -6,966.91 | 7,101.78 | 0.00 | 0.00 | 0.00 |
| 14,500.00 | 90.00 | 269.52 | 7,253.00 | -1,397.05 | -7,066.90 | 7,200.55 | 0.00 | 0.00 | 0.00 |
| 14,600.00 | 90.00 | 269.52 | 7,253.00 | -1,397.89 | -7,166.90 | 7,299.31 | 0.00 | 0.00 | 0.00 |
| 14,700.00 | 90.00 | 269.52 | 7,253.00 | -1,398.73 | -7,266.90 | 7,398.07 | 0.00 | 0.00 | 0.00 |
| 14,800.00 | 90.00 | 269.52 | 7,253.00 | -1,399.56 | -7,366.89 | 7,496.84 | 0.00 | 0.00 | 0.00 |
| 14,900.00 | 90.00 | 269.52 | 7,253.00 | -1,400.40 | -7,466.89 | 7,595.60 | 0.00 | 0.00 | 0.00 |
| 15,000.00 | 90.00 | 269.52 | 7,253.00 | -1,401.24 | -7,566.88 | 7,694.37 | 0.00 | 0.00 | 0.00 |
| 15,100.00 | 90.00 | 269.52 | 7,253.00 | -1,402.08 | -7,666.88 | 7,793.13 | 0.00 | 0.00 | 0.00 |
| 15,200.00 | 90.00 | 269.52 | 7,253.00 | -1,402.91 | -7,766.88 | 7,891.90 | 0.00 | 0.00 | 0.00 |
| 15,300.00 | 90.00 | 269.52 | 7,253.00 | -1,403.75 | -7,866.87 | 7,990.66 | 0.00 | 0.00 | 0.00 |
| 15,400.00 | 90.00 | 269.52 | 7,253.00 | -1,404.59 | -7,966.87 | 8,089.43 | 0.00 | 0.00 | 0.00 |
| 15,500.00 | 90.00 | 269.52 | 7,253.00 | -1,405.43 | -8,066.87 | 8,188.19 | 0.00 | 0.00 | 0.00 |
| 15,600.00 | 90.00 | 269.52 | 7,253.00 | -1,406.27 | -8,166.86 | 8,286.96 | 0.00 | 0.00 | 0.00 |
| 15,700.00 | 90.00 | 269.52 | 7,253.00 | -1,407.10 | -8,266.86 | 8,385.72 | 0.00 | 0.00 | 0.00 |
| 15,800.00 | 90.00 | 269.52 | 7,253.00 | -1,407.94 | -8,366.86 | 8,484.49 | 0.00 | 0.00 | 0.00 |
| 15,853.87 | 90.00 | 269.52 | 7,253.00 | -1,408.39 | -8,420.73 | 8,537.70 | 0.00 | 0.00 | 0.00 |
| TD at 15853.87 | | | | | | | | | |

| Design Targets | | | | | | | | | |
|------------------------------------------------------------------------------------------------|---------------|--------------|------------|--------------|--------------|-----------------|----------------|-----------|-------------|
| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| LP - CE 5-68 11-10-13 - hit/miss target - Shape - Point | 0.00 | 0.00 | 7,253.00 | -1,340.71 | -293.35 | 1,393,257.71 | 3,148,421.39 | 40.411670 | -104.966994 |
| - plan misses target center by 4.55usft at 7726.57usft MD (7248.67 TVD, -1339.41 N, -293.88 E) | | | | | | | | | |
| BHL - CE 5-68 11-10-13 - plan hits target center - Point | 0.00 | 0.00 | 7,253.00 | -1,408.39 | -8,420.73 | 1,393,141.08 | 3,140,294.57 | 40.411480 | -104.996180 |

| | | | |
|------------------|--------------------------|-------------------------------------|-------------------------------------|
| Database: | EDMProd | Local Co-ordinate Reference: | Well CE 5-68 11-10-13H |
| Company: | Bison IV Operating LLC | TVD Reference: | KB=20 @ 5000.00usft (Precision 460) |
| Project: | Larimer Co., CO (NAD-83) | MD Reference: | KB=20 @ 5000.00usft (Precision 460) |
| Site: | Centerra East Pad | North Reference: | True |
| Well: | CE 5-68 11-10-13H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan #3 | | |

| Formations | | | | | | |
|-----------------------|-----------------------|----------------|-----------|---------|-------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (°) | |
| 534.00 | 534.00 | Upper Pierre | | | | |
| 1,037.14 | 1,034.00 | Pierre | | | | |
| 3,584.07 | 3,524.00 | Parkman | | | | |
| 4,192.72 | 4,119.00 | Sussex | | | | |
| 4,652.02 | 4,568.00 | Shannon | | | | |
| 6,998.11 | 6,852.00 | Sharon Springs | | | | |
| 7,068.82 | 6,913.00 | Niobrara | | | | |
| 7,585.63 | 7,220.00 | Fort Hays | | | | |
| 7,691.35 | 7,244.00 | Codell | | | | |

| Plan Annotations | | | | | |
|-----------------------|-----------------------|-------------------|--------------|----------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment | |
| | | +N/-S (usft) | +E/-W (usft) | | |
| 500.00 | 500.00 | 0.00 | 0.00 | Build 2°/100' | |
| 1,107.81 | 1,103.26 | -61.72 | 17.79 | 5532' Hold | |
| 6,640.65 | 6,512.04 | -1,181.26 | 340.38 | Build / Turn 8°/100' | |
| 7,806.21 | 7,253.00 | -1,340.97 | -373.35 | 8047' Hold | |
| 15,853.87 | 7,253.00 | -1,408.39 | -8,420.73 | TD at 15853.87 | |