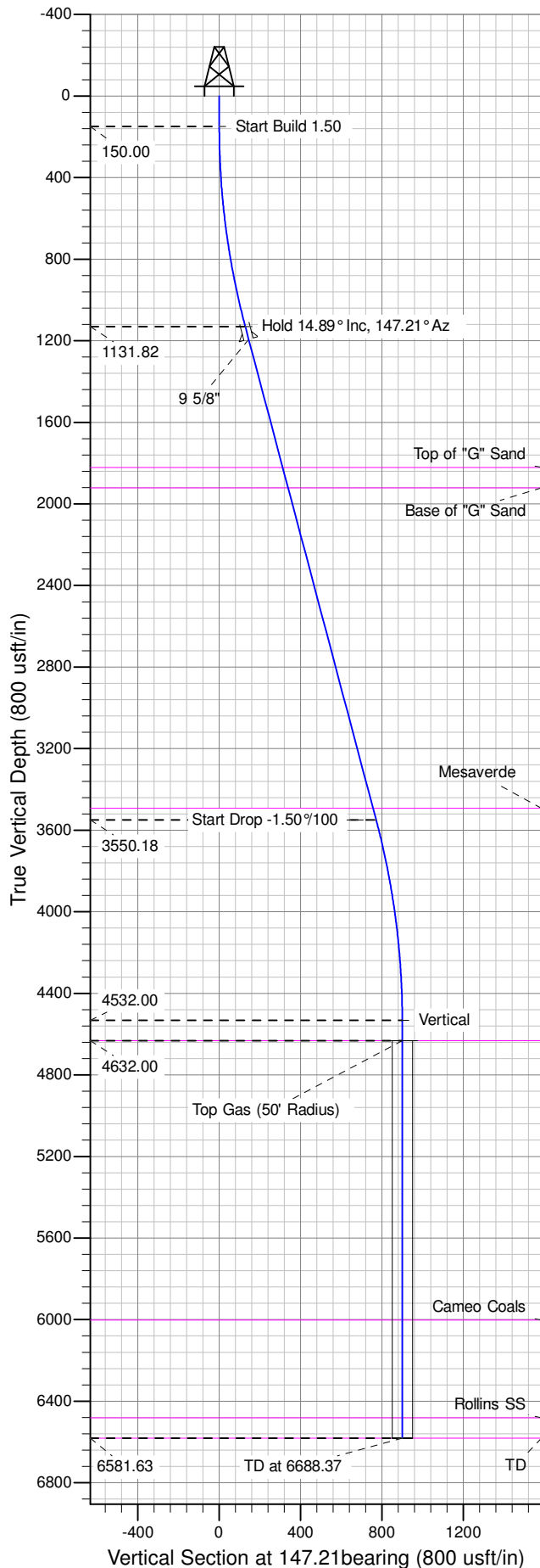
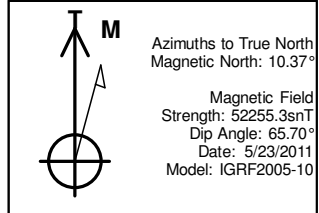
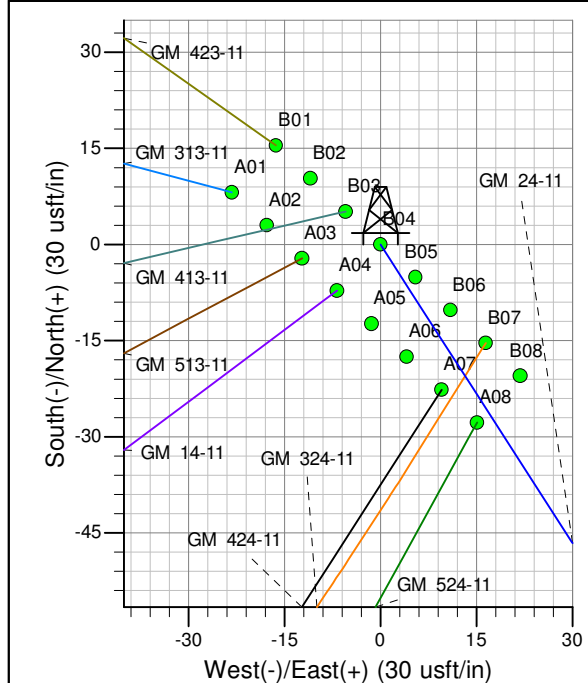
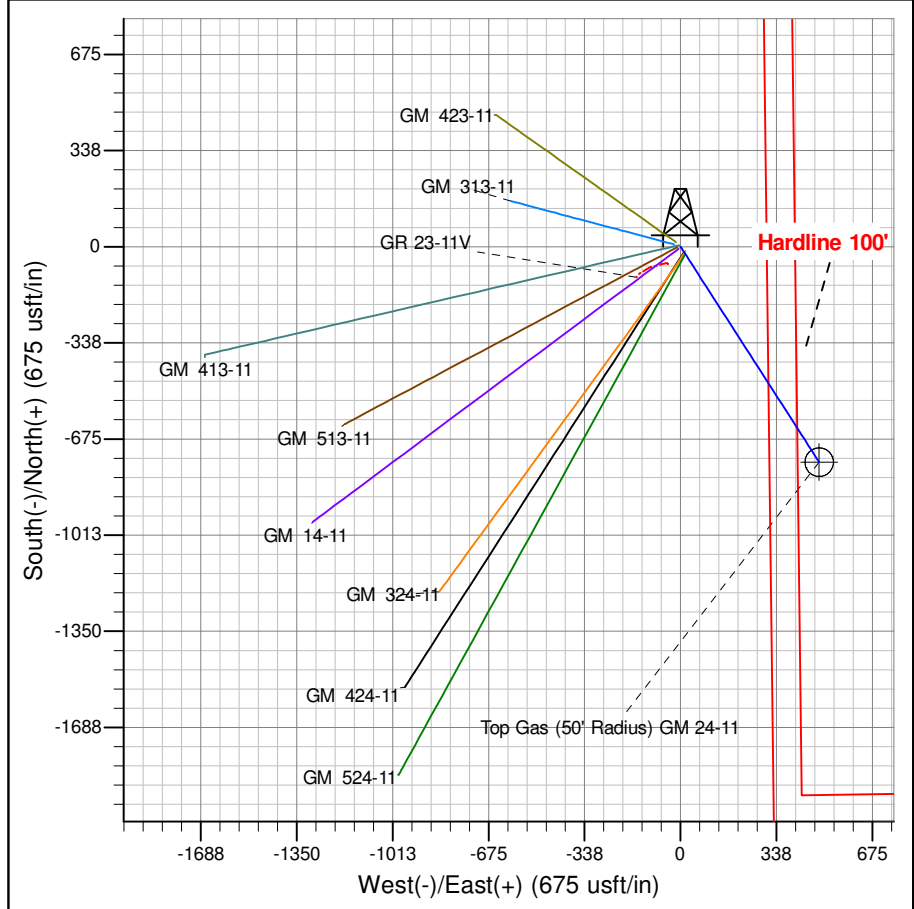




Well Name: GM 24-11
Surface Location: GR 23-11V Pad
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
Ground Elevation: 5793.00
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.00 0.00 1599230.70000 2271922.80000 39.450288 -108.078672 B04
KELLY BUSHING @ 5817.00usft (H&P 318 (24' RKB) mab)



| ANNOTATIONS | | | | | | | | | |
|-------------|---------|-------|--------|---------|--------|--------|-----------|-----------------------------|--|
| TVD | MD | Inc | Azi | +N/-S | +E/-W | Vsect | Departure | Annotation | |
| 150.00 | 150.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Start Build 1.50 | |
| 1131.82 | 1142.97 | 14.89 | 147.21 | -107.89 | 69.51 | 128.34 | 128.34 | Hold 14.89° Inc, 147.21° Az | |
| 3550.18 | 3645.41 | 14.89 | 147.21 | -648.60 | 417.90 | 771.57 | 771.57 | Start Drop -1.50°/100 | |
| 4532.00 | 4638.37 | 0.00 | 0.00 | -756.48 | 487.41 | 899.91 | 899.91 | Vertical | |
| 4632.00 | 4738.37 | 0.00 | 0.00 | -756.48 | 487.41 | 899.91 | 899.91 | Top Gas | |
| 6581.63 | 6688.00 | 0.00 | 0.00 | -756.48 | 487.41 | 899.91 | 899.91 | TD at 6688.37 | |



Project: GV 11-07S-096W
Site: GR 23-11V Pad
Well: GM 24-11
Design #2 22Jul14 mab

PICEANCE VLY NAD 83

GV 11-07S-096W

GR 23-11V Pad

GM 24-11 - Slot B04

Wellbore #1

Plan: Design #2 22Jul14 mab

Standard Planning Report - Geographic

11 September, 2014

WPX
Planning Report - Geographic

| | | | |
|------------------|-----------------------|-------------------------------------|---|
| Database: | COMPASS-PICEANCE | Local Co-ordinate Reference: | Well GM 24-11 - Slot B04 |
| Company: | PICEANCE VLY NAD 83 | TVD Reference: | KELLY BUSHING @ 5817.00usft (H&P 318 (24' RKB) mab) |
| Project: | GV 11-07S-096W | MD Reference: | KELLY BUSHING @ 5817.00usft (H&P 318 (24' RKB) mab) |
| Site: | GR 23-11V Pad | North Reference: | True |
| Well: | GM 24-11 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #2 22Jul14 mab | | |

| | | | |
|--------------------|--|----------------------|-----------------------------|
| Project | GV 11-07S-096W, Garfield County, CO, 11-07S-096W | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Central Zone | | Using geodetic scale factor |

| | | | | |
|------------------------------|---------------|---------------------|----------------------|----------------------------------|
| Site | GR 23-11V Pad | | | |
| Site Position: | | Northing: | 1,599,207.80000 usft | Latitude: 39.450226 |
| From: Map | | Easting: | 2,271,931.70000 usft | Longitude: -108.078638 |
| Position Uncertainty: | 0.00 usft | Slot Radius: | 13.200 in | Grid Convergence: -1.63 ° |

| | | | | |
|-----------------------------|---------------------|-----------|----------------------------|----------------------|
| Well | GM 24-11 - Slot B04 | | | |
| Well Position | +N/-S | 0.00 usft | Northing: | 1,599,230.70000 usft |
| | +E/-W | 0.00 usft | Easting: | 2,271,922.80000 usft |
| Position Uncertainty | 0.00 usft | | Wellhead Elevation: | |
| | | | Ground Level: | 5,793.00 usft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2005-10 | 5/23/2011 | 10.37 | 65.70 | 52,255 |

| | | | | |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------------|
| Design | Design #2 22Jul14 mab | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PLAN | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (bearing) |
| | 0.00 | 0.00 | 0.00 | 147.21 |

| Plan Sections | | | | | | | | | | |
|-----------------------|-----------------|-------------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (bearing) | 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 | |
| 150.00 | 0.00 | 0.00 | 150.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,142.97 | 14.89 | 147.21 | 1,131.82 | -107.89 | 69.51 | 1.50 | 1.50 | 0.00 | 147.21 | |
| 3,645.41 | 14.89 | 147.21 | 3,550.18 | -648.60 | 417.90 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 4,638.37 | 0.00 | 0.00 | 4,532.00 | -756.48 | 487.41 | 1.50 | -1.50 | 0.00 | 180.00 | |
| 4,738.37 | 0.00 | 0.00 | 4,632.00 | -756.48 | 487.41 | 0.00 | 0.00 | 0.00 | 0.00 | Top Gas (50' Radius) |
| 6,688.37 | 0.00 | 0.00 | 6,582.00 | -756.48 | 487.41 | 0.00 | 0.00 | 0.00 | 0.00 | |

WPX
Planning Report - Geographic

| | | | |
|------------------|-----------------------|-------------------------------------|---|
| Database: | COMPASS-PICEANCE | Local Co-ordinate Reference: | Well GM 24-11 - Slot B04 |
| Company: | PICEANCE VLY NAD 83 | TVD Reference: | KELLY BUSHING @ 5817.00usft (H&P 318 (24' RKB) mab) |
| Project: | GV 11-07S-096W | MD Reference: | KELLY BUSHING @ 5817.00usft (H&P 318 (24' RKB) mab) |
| Site: | GR 23-11V Pad | North Reference: | True |
| Well: | GM 24-11 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #2 22Jul14 mab | | |

| Planned Survey | | | | | | | | | | |
|------------------------------------|-----------------|-------------------|-----------------------|--------------|--------------|---------------------|--------------------|-----------|-------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (bearing) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1,599,230.70000 | 2,271,922.80000 | 39.450288 | -108.078672 | |
| 150.00 | 0.00 | 0.00 | 150.00 | 0.00 | 0.00 | 1,599,230.70000 | 2,271,922.80000 | 39.450288 | -108.078672 | |
| Start Build 1.50 | | | | | | | | | | |
| 200.00 | 0.75 | 147.21 | 200.00 | -0.28 | 0.18 | 1,599,230.42000 | 2,271,922.96936 | 39.450287 | -108.078671 | |
| 400.00 | 3.75 | 147.21 | 399.82 | -6.87 | 4.43 | 1,599,223.70251 | 2,271,927.03247 | 39.450269 | -108.078656 | |
| 600.00 | 6.75 | 147.21 | 598.96 | -22.26 | 14.34 | 1,599,208.04626 | 2,271,936.50225 | 39.450227 | -108.078621 | |
| 800.00 | 9.75 | 147.21 | 796.87 | -46.38 | 29.88 | 1,599,183.49415 | 2,271,951.35272 | 39.450161 | -108.078566 | |
| 1,000.00 | 12.75 | 147.21 | 993.00 | -79.17 | 51.01 | 1,599,150.11350 | 2,271,971.54319 | 39.450071 | -108.078491 | |
| 1,142.97 | 14.89 | 147.21 | 1,131.82 | -107.89 | 69.51 | 1,599,120.89053 | 2,271,989.21886 | 39.449992 | -108.078426 | |
| Hold 14.89° Inc, 147.21° Az | | | | | | | | | | |
| 1,200.00 | 14.89 | 147.21 | 1,186.94 | -120.21 | 77.45 | 1,599,108.34739 | 2,271,996.80564 | 39.449958 | -108.078398 | |
| 1,206.24 | 14.89 | 147.21 | 1,192.97 | -121.56 | 78.32 | 1,599,106.97458 | 2,271,997.63599 | 39.449954 | -108.078395 | |
| 9 5/8" | | | | | | | | | | |
| 1,400.00 | 14.89 | 147.21 | 1,380.22 | -163.42 | 105.30 | 1,599,064.36189 | 2,272,023.41052 | 39.449839 | -108.078299 | |
| 1,600.00 | 14.89 | 147.21 | 1,573.50 | -206.64 | 133.14 | 1,599,020.37639 | 2,272,050.01539 | 39.449721 | -108.078201 | |
| 1,800.00 | 14.89 | 147.21 | 1,766.78 | -249.85 | 160.98 | 1,598,976.39089 | 2,272,076.62027 | 39.449602 | -108.078102 | |
| 1,857.14 | 14.89 | 147.21 | 1,822.00 | -262.20 | 168.94 | 1,598,963.82382 | 2,272,084.22152 | 39.449568 | -108.078074 | |
| Top of "G" Sand | | | | | | | | | | |
| 1,960.62 | 14.89 | 147.21 | 1,922.00 | -284.56 | 183.34 | 1,598,941.06644 | 2,272,097.98645 | 39.449507 | -108.078023 | |
| Base of "G" Sand | | | | | | | | | | |
| 2,000.00 | 14.89 | 147.21 | 1,960.06 | -293.07 | 188.83 | 1,598,932.40538 | 2,272,103.22514 | 39.449483 | -108.078003 | |
| 2,200.00 | 14.89 | 147.21 | 2,153.34 | -336.28 | 216.67 | 1,598,888.41988 | 2,272,129.83001 | 39.449365 | -108.077905 | |
| 2,400.00 | 14.89 | 147.21 | 2,346.62 | -379.50 | 244.51 | 1,598,844.43437 | 2,272,156.43489 | 39.449246 | -108.077806 | |
| 2,600.00 | 14.89 | 147.21 | 2,539.90 | -422.71 | 272.36 | 1,598,800.44887 | 2,272,183.03976 | 39.449127 | -108.077708 | |
| 2,800.00 | 14.89 | 147.21 | 2,733.18 | -465.93 | 300.20 | 1,598,756.46336 | 2,272,209.64464 | 39.449009 | -108.077609 | |
| 3,000.00 | 14.89 | 147.21 | 2,926.46 | -509.14 | 328.05 | 1,598,712.47786 | 2,272,236.24951 | 39.448890 | -108.077510 | |
| 3,200.00 | 14.89 | 147.21 | 3,119.74 | -552.36 | 355.89 | 1,598,668.49235 | 2,272,262.85439 | 39.448772 | -108.077412 | |
| 3,400.00 | 14.89 | 147.21 | 3,313.02 | -595.57 | 383.73 | 1,598,624.50686 | 2,272,289.45926 | 39.448653 | -108.077313 | |
| 3,585.20 | 14.89 | 147.21 | 3,492.00 | -635.59 | 409.52 | 1,598,583.77552 | 2,272,314.09583 | 39.448543 | -108.077222 | |
| Mesaverde | | | | | | | | | | |
| 3,600.00 | 14.89 | 147.21 | 3,506.30 | -638.78 | 411.58 | 1,598,580.52135 | 2,272,316.06414 | 39.448534 | -108.077215 | |
| 3,645.41 | 14.89 | 147.21 | 3,550.18 | -648.60 | 417.90 | 1,598,570.53548 | 2,272,322.10415 | 39.448507 | -108.077192 | |
| Start Drop -1.50°/100 | | | | | | | | | | |
| 3,800.00 | 12.58 | 147.21 | 3,700.34 | -679.45 | 437.78 | 1,598,539.13158 | 2,272,341.09897 | 39.448423 | -108.077122 | |
| 4,000.00 | 9.58 | 147.21 | 3,896.60 | -711.74 | 458.59 | 1,598,506.26194 | 2,272,360.98035 | 39.448334 | -108.077048 | |
| 4,200.00 | 6.58 | 147.21 | 4,094.59 | -735.36 | 473.80 | 1,598,482.22542 | 2,272,375.51896 | 39.448269 | -108.076994 | |
| 4,400.00 | 3.58 | 147.21 | 4,293.78 | -750.23 | 483.38 | 1,598,467.08792 | 2,272,384.67497 | 39.448228 | -108.076960 | |
| 4,600.00 | 0.58 | 147.21 | 4,493.63 | -756.32 | 487.31 | 1,598,460.89091 | 2,272,388.42326 | 39.448212 | -108.076946 | |
| 4,638.37 | 0.00 | 0.00 | 4,532.00 | -756.48 | 487.41 | 1,598,460.72600 | 2,272,388.52301 | 39.448211 | -108.076946 | |
| Vertical | | | | | | | | | | |
| 4,738.37 | 0.00 | 0.00 | 4,632.00 | -756.48 | 487.41 | 1,598,460.72600 | 2,272,388.52301 | 39.448211 | -108.076946 | |
| Top Gas - Approx. Top Gas | | | | | | | | | | |
| 4,800.00 | 0.00 | 0.00 | 4,693.63 | -756.48 | 487.41 | 1,598,460.72600 | 2,272,388.52301 | 39.448211 | -108.076946 | |
| 5,000.00 | 0.00 | 0.00 | 4,893.63 | -756.48 | 487.41 | 1,598,460.72600 | 2,272,388.52301 | 39.448211 | -108.076946 | |
| 5,200.00 | 0.00 | 0.00 | 5,093.63 | -756.48 | 487.41 | 1,598,460.72600 | 2,272,388.52301 | 39.448211 | -108.076946 | |
| 5,400.00 | 0.00 | 0.00 | 5,293.63 | -756.48 | 487.41 | 1,598,460.72600 | 2,272,388.52301 | 39.448211 | -108.076946 | |
| 5,600.00 | 0.00 | 0.00 | 5,493.63 | -756.48 | 487.41 | 1,598,460.72600 | 2,272,388.52301 | 39.448211 | -108.076946 | |
| 5,800.00 | 0.00 | 0.00 | 5,693.63 | -756.48 | 487.41 | 1,598,460.72600 | 2,272,388.52301 | 39.448211 | -108.076946 | |
| 6,000.00 | 0.00 | 0.00 | 5,893.63 | -756.48 | 487.41 | 1,598,460.72600 | 2,272,388.52301 | 39.448211 | -108.076946 | |
| 6,108.37 | 0.00 | 0.00 | 6,002.00 | -756.48 | 487.41 | 1,598,460.72600 | 2,272,388.52301 | 39.448211 | -108.076946 | |
| Cameo Coals | | | | | | | | | | |

WPX
Planning Report - Geographic

| | | | |
|------------------|-----------------------|-------------------------------------|---|
| Database: | COMPASS-PICEANCE | Local Co-ordinate Reference: | Well GM 24-11 - Slot B04 |
| Company: | PICEANCE VLY NAD 83 | TVD Reference: | KELLY BUSHING @ 5817.00usft (H&P 318 (24' RKB) mab) |
| Project: | GV 11-07S-096W | MD Reference: | KELLY BUSHING @ 5817.00usft (H&P 318 (24' RKB) mab) |
| Site: | GR 23-11V Pad | North Reference: | True |
| Well: | GM 24-11 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #2 22Jul14 mab | | |

| Planned Survey | | | | | | | | | | |
|-----------------------|-----------------|-------------------|-----------------------|--------------|--------------|---------------------|--------------------|-----------|-------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (bearing) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude | |
| 6,200.00 | 0.00 | 0.00 | 6,093.63 | -756.48 | 487.41 | 1,598,460.72600 | 2,272,388.52301 | 39.448211 | -108.076946 | |
| 6,400.00 | 0.00 | 0.00 | 6,293.63 | -756.48 | 487.41 | 1,598,460.72600 | 2,272,388.52301 | 39.448211 | -108.076946 | |
| 6,588.37 | 0.00 | 0.00 | 6,482.00 | -756.48 | 487.41 | 1,598,460.72600 | 2,272,388.52301 | 39.448211 | -108.076946 | |
| Rollins SS | | | | | | | | | | |
| 6,600.00 | 0.00 | 0.00 | 6,493.63 | -756.48 | 487.41 | 1,598,460.72600 | 2,272,388.52301 | 39.448211 | -108.076946 | |
| 6,688.37 | 0.00 | 0.00 | 6,582.00 | -756.48 | 487.41 | 1,598,460.72600 | 2,272,388.52301 | 39.448211 | -108.076946 | |
| TD at 6688.37 - TD | | | | | | | | | | |

| Design Targets | | | | | | | | | | |
|---------------------------|---------------|--------------------|------------|--------------|--------------|-----------------|-----------------|-----------|-------------|--|
| Target Name | Dip Angle (°) | Dip Dir. (bearing) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude | |
| - hit/miss target | | | | | | | | | | |
| - Shape | | | | | | | | | | |
| Top Gas (50' Radius) G1 | 0.00 | 0.00 | 4,632.00 | -756.48 | 487.41 | 1,598,460.72600 | 2,272,388.52301 | 39.448211 | -108.076946 | |
| - plan hits target center | | | | | | | | | | |
| - Circle (radius 50.00) | | | | | | | | | | |

| Casing Points | | | | | | | Casing Diameter (in) | Hole Diameter (in) |
|-----------------------|-----------------------|--------|--|--|--|--|----------------------|--------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Name | | | | | | |
| 1,206.24 | 1,192.97 | 9 5/8" | | | | | 9.625 | 13.500 |

| Formations | | | | | | | Dip (°) | Dip Direction (bearing) |
|-----------------------|-----------------------|------------------|-----------|--|--|--|---------|-------------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | | | | | |
| 1,857.14 | 1,822.00 | Top of "G" Sand | | | | | 0.00 | |
| 1,960.62 | 1,922.00 | Base of "G" Sand | | | | | 0.00 | |
| 3,585.20 | 3,492.00 | Mesaverde | | | | | 0.00 | |
| 4,738.37 | 4,632.00 | Approx. Top Gas | | | | | 0.00 | |
| 6,108.37 | 6,002.00 | Cameo Coals | | | | | 0.00 | |
| 6,588.37 | 6,482.00 | Rollins SS | | | | | 0.00 | |
| 6,688.37 | 6,582.00 | TD | | | | | 0.00 | |

| Plan Annotations | | | | | |
|-----------------------|-----------------------|-------------------|--------------|-----------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment | |
| | | +N/-S (usft) | +E/-W (usft) | | |
| 150.00 | 150.00 | 0.00 | 0.00 | Start Build 1.50 | |
| 1,142.97 | 1,131.82 | -107.89 | 69.51 | Hold 14.89° Inc, 147.21° Az | |
| 3,645.41 | 3,550.18 | -648.60 | 417.90 | Start Drop -1.50°/100 | |
| 4,638.37 | 4,532.00 | -756.48 | 487.41 | Vertical | |
| 4,738.37 | 4,632.00 | -756.48 | 487.41 | Top Gas | |
| 6,688.37 | 6,582.00 | -756.48 | 487.41 | TD at 6688.37 | |