

BILL BARRETT CORP

WELD COUNTY, COLORADO

Merritt 6-66-9 Pad

Merritt 6-66-9-0560CH

Wellbore #1

Plan: Design #1

Standard Planning Report

18 June, 2013



Bill Barrett Corporation

COMPANY DETAILS: BILL BARRETT CORP

Calculation Method: Minimum Curvature
Error System: ISCWSA
Scan Method: Closest Approach 3D
Error Surface: Elliptical Conic
Warning Method: Error Ratio

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Merritt 6-66-9-0560CH, True North
Vertical (TVD) Reference: KB @ 4845.0ft (Original Well Elev)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: KB @ 4845.0ft (Original Well Elev)
Calculation Method: Minimum Curvature

WELL DETAILS: Merritt 6-66-9-0560CH

| +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
|-------|-------|------------|------------|------------------|-------------------|
| 0.0 | 0.0 | 1429196.03 | 3199884.94 | 40° 30' 33.552 N | 104° 46' 52.104 W |

SECTION DETAILS

| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | DLeg | TFace | VSec | Target |
|-----|---------|-------|--------|--------|---------|--------|-------|--------|--------|-------------|
| 1 | 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 2 | 1000.0 | 0.00 | 0.00 | 1000.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 3 | 1209.6 | 3.14 | 328.47 | 1209.5 | 4.9 | -3.0 | 1.50 | 328.47 | -4.8 | |
| 4 | 5991.9 | 3.14 | 328.47 | 5984.6 | 228.5 | -140.2 | 0.00 | 0.00 | -225.2 | |
| 5 | 6201.5 | 0.00 | 0.00 | 6194.1 | 233.4 | -143.2 | 1.50 | 180.00 | -230.0 | |
| 6 | 6701.5 | 0.00 | 0.00 | 6694.1 | 233.4 | -143.2 | 0.00 | 0.00 | -230.0 | |
| 7 | 7523.6 | 90.43 | 179.55 | 7215.0 | -291.4 | -139.0 | 11.00 | 179.55 | 294.5 | M 0560CH LP |
| 8 | 11748.3 | 90.43 | 179.55 | 7183.3 | -4515.8 | -105.5 | 0.00 | 0.00 | 4517.0 | |

PROJECT DETAILS: WELD COUNTY, COLORADO

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Northern Zone

FORMATION TOP DETAILS

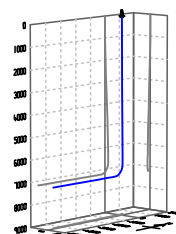
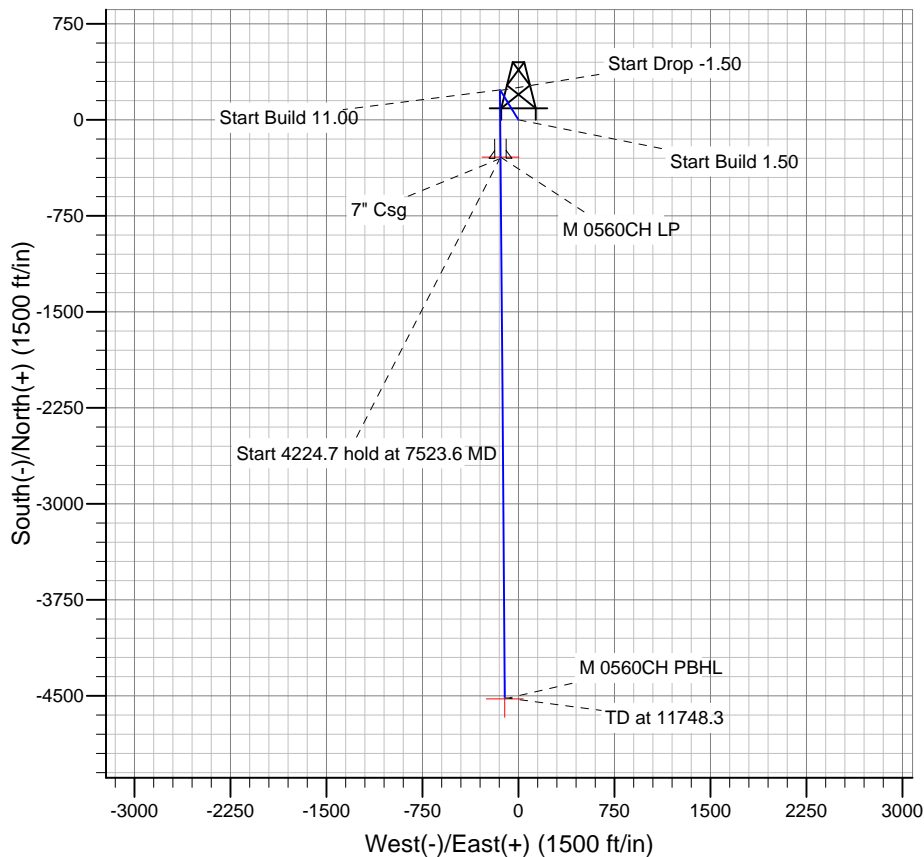
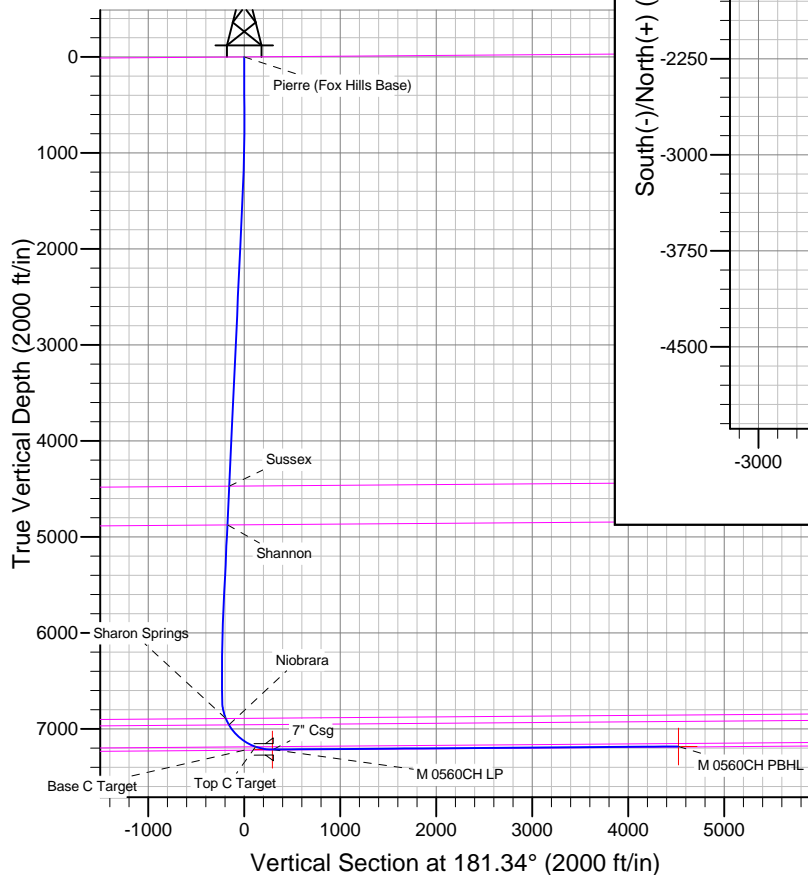
| TVDPath | MDPath | Formation |
|---------|--------|-------------------------|
| | | Base C Target |
| | | Pierre (Fox Hills Base) |
| 4471.2 | 4476.2 | Sussex |
| 4875.3 | 4881.0 | Shannon |
| 6891.5 | 6903.9 | Sharon Springs |
| 6958.2 | 6978.5 | Niobrara |
| 7186.1 | 7345.6 | Top C Target |

CASING DETAILS

| TVD | MD | Name | Size |
|--------|--------|--------|------|
| 7214.9 | 7535.0 | 7" Csg | 7 |

WELLBORE TARGET DETAILS

| Name | TVD | +N/-S | +E/-W | Shape |
|---------------|--------|---------|--------|-------|
| M 0560CH PBHL | 183.0 | -4524.7 | -105.7 | Point |
| M 0560CH LP | 7215.0 | -291.4 | -139.0 | Point |



Azimuths to True North
Magnetic North: 8.61°

Magnetic Field
Strength: 52975.1snT
Dip Angle: 67.07°
Date: 6/18/2013
Model: IGRF2010

Bill Barrett Corp

Planning Report

| | | | |
|------------------|-----------------------|-------------------------------------|------------------------------------|
| Database: | Compass | Local Co-ordinate Reference: | Well Merritt 6-66-9-0560CH |
| Company: | BILL BARRETT CORP | TVD Reference: | KB @ 4845.0ft (Original Well Elev) |
| Project: | WELD COUNTY, COLORADO | MD Reference: | KB @ 4845.0ft (Original Well Elev) |
| Site: | Merritt 6-66-9 Pad | North Reference: | True |
| Well: | Merritt 6-66-9-0560CH | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 | | |

| | | | |
|--------------------|---------------------------|----------------------|----------------|
| Project | WELD COUNTY, COLORADO | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Northern Zone | | |

| | | | | | | |
|-----------------------|----------|--------------------|-----------------|------------|-------------------|--------|
| Site | | Merritt 6-66-9 Pad | | | | |
| Site Position: | | Northing: | 1,429,195.92 ft | Latitude: | 40° 30' 33.552 N | |
| From: | Lat/Long | Easting: | 3,199,871.01 ft | Longitude: | 104° 46' 52.284 W | |
| Position Uncertainty: | | 0.0 ft | Slot Radius: | " | Grid Convergence: | 0.46 ° |

| | | | | | | |
|----------------------|-----------------------|---------|---------------------|-----------------|---------------|-------------------|
| Well | Merritt 6-66-9-0560CH | | | | | |
| Well Position | +N-S | 0.0 ft | Northing: | 1,429,196.03 ft | Latitude: | 40° 30' 33.552 N |
| | +E-W | 13.9 ft | Easting: | 3,199,884.91 ft | Longitude: | 104° 46' 52.104 W |
| Position Uncertainty | | 0.0 ft | Wellhead Elevation: | ft | Ground Level: | 4,822.0 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 6/18/2013 | 8.61 | 67.07 | 52,975 |

| | | | | |
|--------------------------|------------------------------|-------------------|----------------------|----------------------|
| Design | Design #1 | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PLAN | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) |
| | 0.0 | 0.0 | 0.0 | 181.34 |

| 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 |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,000.0 | 0.00 | 0.00 | 1,000.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,209.6 | 3.14 | 328.47 | 1,209.5 | 4.9 | -3.0 | 1.50 | 1.50 | 0.00 | 328.47 | |
| 5,991.9 | 3.14 | 328.47 | 5,984.6 | 228.5 | -140.2 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,201.5 | 0.00 | 0.00 | 6,194.1 | 233.4 | -143.2 | 1.50 | -1.50 | 0.00 | 180.00 | |
| 6,701.5 | 0.00 | 0.00 | 6,694.1 | 233.4 | -143.2 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,523.6 | 90.43 | 179.55 | 7,215.0 | -291.4 | -139.0 | 11.00 | 11.00 | 0.00 | 179.55 | M 0560CH LP |
| 11,748.3 | 90.43 | 179.55 | 7,183.3 | -4,515.8 | -105.5 | 0.00 | 0.00 | 0.00 | 0.00 | |

Bill Barrett Corp

Planning Report

| | | | |
|------------------|-----------------------|-------------------------------------|------------------------------------|
| Database: | Compass | Local Co-ordinate Reference: | Well Merritt 6-66-9-0560CH |
| Company: | BILL BARRETT CORP | TVD Reference: | KB @ 4845.0ft (Original Well Elev) |
| Project: | WELD COUNTY, COLORADO | MD Reference: | KB @ 4845.0ft (Original Well Elev) |
| Site: | Merritt 6-66-9 Pad | North Reference: | True |
| Well: | Merritt 6-66-9-0560CH | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 | | |

| 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) |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 100.0 | 0.00 | 0.00 | 100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 300.0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 400.0 | 0.00 | 0.00 | 400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 500.0 | 0.00 | 0.00 | 500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 600.0 | 0.00 | 0.00 | 600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 700.0 | 0.00 | 0.00 | 700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 800.0 | 0.00 | 0.00 | 800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 900.0 | 0.00 | 0.00 | 900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,000.0 | 0.00 | 0.00 | 1,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,100.0 | 1.50 | 328.47 | 1,100.0 | 1.1 | -0.7 | -1.1 | 1.50 | 1.50 | 0.00 |
| 1,200.0 | 3.00 | 328.47 | 1,199.9 | 4.5 | -2.7 | -4.4 | 1.50 | 1.50 | 0.00 |
| 1,209.6 | 3.14 | 328.47 | 1,209.5 | 4.9 | -3.0 | -4.8 | 1.50 | 1.50 | 0.00 |
| 1,300.0 | 3.14 | 328.47 | 1,299.8 | 9.1 | -5.6 | -9.0 | 0.00 | 0.00 | 0.00 |
| 1,400.0 | 3.14 | 328.47 | 1,399.6 | 13.8 | -8.5 | -13.6 | 0.00 | 0.00 | 0.00 |
| 1,500.0 | 3.14 | 328.47 | 1,499.5 | 18.5 | -11.3 | -18.2 | 0.00 | 0.00 | 0.00 |
| 1,600.0 | 3.14 | 328.47 | 1,599.3 | 23.2 | -14.2 | -22.8 | 0.00 | 0.00 | 0.00 |
| 1,700.0 | 3.14 | 328.47 | 1,699.2 | 27.8 | -17.1 | -27.4 | 0.00 | 0.00 | 0.00 |
| 1,800.0 | 3.14 | 328.47 | 1,799.0 | 32.5 | -19.9 | -32.0 | 0.00 | 0.00 | 0.00 |
| 1,900.0 | 3.14 | 328.47 | 1,898.9 | 37.2 | -22.8 | -36.6 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 3.14 | 328.47 | 1,998.7 | 41.9 | -25.7 | -41.2 | 0.00 | 0.00 | 0.00 |
| 2,100.0 | 3.14 | 328.47 | 2,098.6 | 46.5 | -28.5 | -45.9 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 3.14 | 328.47 | 2,198.4 | 51.2 | -31.4 | -50.5 | 0.00 | 0.00 | 0.00 |
| 2,300.0 | 3.14 | 328.47 | 2,298.3 | 55.9 | -34.3 | -55.1 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 3.14 | 328.47 | 2,398.1 | 60.6 | -37.2 | -59.7 | 0.00 | 0.00 | 0.00 |
| 2,500.0 | 3.14 | 328.47 | 2,498.0 | 65.2 | -40.0 | -64.3 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 3.14 | 328.47 | 2,597.8 | 69.9 | -42.9 | -68.9 | 0.00 | 0.00 | 0.00 |
| 2,700.0 | 3.14 | 328.47 | 2,697.7 | 74.6 | -45.8 | -73.5 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 3.14 | 328.47 | 2,797.5 | 79.3 | -48.6 | -78.1 | 0.00 | 0.00 | 0.00 |
| 2,900.0 | 3.14 | 328.47 | 2,897.3 | 83.9 | -51.5 | -82.7 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 3.14 | 328.47 | 2,997.2 | 88.6 | -54.4 | -87.3 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 3.14 | 328.47 | 3,097.0 | 93.3 | -57.2 | -91.9 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 3.14 | 328.47 | 3,196.9 | 98.0 | -60.1 | -96.5 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 3.14 | 328.47 | 3,296.7 | 102.6 | -63.0 | -101.1 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 3.14 | 328.47 | 3,396.6 | 107.3 | -65.8 | -105.7 | 0.00 | 0.00 | 0.00 |
| 3,500.0 | 3.14 | 328.47 | 3,496.4 | 112.0 | -68.7 | -110.4 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 3.14 | 328.47 | 3,596.3 | 116.7 | -71.6 | -115.0 | 0.00 | 0.00 | 0.00 |
| 3,700.0 | 3.14 | 328.47 | 3,696.1 | 121.3 | -74.4 | -119.6 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 3.14 | 328.47 | 3,796.0 | 126.0 | -77.3 | -124.2 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 3.14 | 328.47 | 3,895.8 | 130.7 | -80.2 | -128.8 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 3.14 | 328.47 | 3,995.7 | 135.4 | -83.1 | -133.4 | 0.00 | 0.00 | 0.00 |
| 4,100.0 | 3.14 | 328.47 | 4,095.5 | 140.0 | -85.9 | -138.0 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 3.14 | 328.47 | 4,195.4 | 144.7 | -88.8 | -142.6 | 0.00 | 0.00 | 0.00 |
| 4,300.0 | 3.14 | 328.47 | 4,295.2 | 149.4 | -91.7 | -147.2 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 3.14 | 328.47 | 4,395.1 | 154.1 | -94.5 | -151.8 | 0.00 | 0.00 | 0.00 |
| 4,476.2 | 3.14 | 328.47 | 4,471.2 | 157.6 | -96.7 | -155.3 | 0.00 | 0.00 | 0.00 |
| Sussex | | | | | | | | | |
| 4,500.0 | 3.14 | 328.47 | 4,494.9 | 158.7 | -97.4 | -156.4 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 3.14 | 328.47 | 4,594.8 | 163.4 | -100.3 | -161.0 | 0.00 | 0.00 | 0.00 |
| 4,700.0 | 3.14 | 328.47 | 4,694.6 | 168.1 | -103.1 | -165.6 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 3.14 | 328.47 | 4,794.5 | 172.8 | -106.0 | -170.2 | 0.00 | 0.00 | 0.00 |
| 4,881.0 | 3.14 | 328.47 | 4,875.3 | 176.6 | -108.3 | -174.0 | 0.00 | 0.00 | 0.00 |
| Shannon | | | | | | | | | |

Bill Barrett Corp

Planning Report

| | | | |
|------------------|-----------------------|-------------------------------------|------------------------------------|
| Database: | Compass | Local Co-ordinate Reference: | Well Merritt 6-66-9-0560CH |
| Company: | BILL BARRETT CORP | TVD Reference: | KB @ 4845.0ft (Original Well Elev) |
| Project: | WELD COUNTY, COLORADO | MD Reference: | KB @ 4845.0ft (Original Well Elev) |
| Site: | Merritt 6-66-9 Pad | North Reference: | True |
| Well: | Merritt 6-66-9-0560CH | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 | | |

| 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) |
| 4,900.0 | 3.14 | 328.47 | 4,894.3 | 177.4 | -108.9 | -174.9 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 3.14 | 328.47 | 4,994.2 | 182.1 | -111.7 | -179.5 | 0.00 | 0.00 | 0.00 |
| 5,100.0 | 3.14 | 328.47 | 5,094.0 | 186.8 | -114.6 | -184.1 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 3.14 | 328.47 | 5,193.9 | 191.5 | -117.5 | -188.7 | 0.00 | 0.00 | 0.00 |
| 5,300.0 | 3.14 | 328.47 | 5,293.7 | 196.1 | -120.3 | -193.3 | 0.00 | 0.00 | 0.00 |
| 5,400.0 | 3.14 | 328.47 | 5,393.6 | 200.8 | -123.2 | -197.9 | 0.00 | 0.00 | 0.00 |
| 5,500.0 | 3.14 | 328.47 | 5,493.4 | 205.5 | -126.1 | -202.5 | 0.00 | 0.00 | 0.00 |
| 5,600.0 | 3.14 | 328.47 | 5,593.3 | 210.2 | -129.0 | -207.1 | 0.00 | 0.00 | 0.00 |
| 5,700.0 | 3.14 | 328.47 | 5,693.1 | 214.9 | -131.8 | -211.7 | 0.00 | 0.00 | 0.00 |
| 5,800.0 | 3.14 | 328.47 | 5,793.0 | 219.5 | -134.7 | -216.3 | 0.00 | 0.00 | 0.00 |
| 5,900.0 | 3.14 | 328.47 | 5,892.8 | 224.2 | -137.6 | -220.9 | 0.00 | 0.00 | 0.00 |
| 5,991.9 | 3.14 | 328.47 | 5,984.6 | 228.5 | -140.2 | -225.2 | 0.00 | 0.00 | 0.00 |
| 6,000.0 | 3.02 | 328.47 | 5,992.7 | 228.9 | -140.4 | -225.5 | 1.50 | -1.50 | 0.00 |
| 6,100.0 | 1.52 | 328.47 | 6,092.6 | 232.3 | -142.5 | -228.9 | 1.50 | -1.50 | 0.00 |
| 6,200.0 | 0.02 | 328.47 | 6,192.6 | 233.4 | -143.2 | -230.0 | 1.50 | -1.50 | 0.00 |
| 6,201.5 | 0.00 | 0.00 | 6,194.1 | 233.4 | -143.2 | -230.0 | 1.50 | -1.50 | 0.00 |
| 6,300.0 | 0.00 | 0.00 | 6,292.6 | 233.4 | -143.2 | -230.0 | 0.00 | 0.00 | 0.00 |
| 6,400.0 | 0.00 | 0.00 | 6,392.6 | 233.4 | -143.2 | -230.0 | 0.00 | 0.00 | 0.00 |
| 6,500.0 | 0.00 | 0.00 | 6,492.6 | 233.4 | -143.2 | -230.0 | 0.00 | 0.00 | 0.00 |
| 6,600.0 | 0.00 | 0.00 | 6,592.6 | 233.4 | -143.2 | -230.0 | 0.00 | 0.00 | 0.00 |
| 6,700.0 | 0.00 | 0.00 | 6,692.6 | 233.4 | -143.2 | -230.0 | 0.00 | 0.00 | 0.00 |
| 6,701.5 | 0.00 | 0.00 | 6,694.1 | 233.4 | -143.2 | -230.0 | 0.00 | 0.00 | 0.00 |
| 6,800.0 | 10.83 | 179.55 | 6,792.0 | 224.1 | -143.1 | -220.7 | 11.00 | 11.00 | 0.00 |
| 6,900.0 | 21.83 | 179.55 | 6,887.8 | 196.0 | -142.9 | -192.6 | 11.00 | 11.00 | 0.00 |
| 6,903.9 | 22.27 | 179.55 | 6,891.5 | 194.6 | -142.9 | -191.2 | 11.00 | 11.00 | 0.00 |
| Sharon Springs | | | | | | | | | |
| 6,978.5 | 30.47 | 179.55 | 6,958.2 | 161.5 | -142.6 | -158.1 | 11.00 | 11.00 | 0.00 |
| Niobrara | | | | | | | | | |
| 7,000.0 | 32.83 | 179.55 | 6,976.5 | 150.2 | -142.5 | -146.8 | 11.00 | 11.00 | 0.00 |
| 7,100.0 | 43.83 | 179.55 | 7,054.8 | 88.3 | -142.0 | -84.9 | 11.00 | 11.00 | 0.00 |
| 7,200.0 | 54.83 | 179.55 | 7,119.9 | 12.5 | -141.4 | -9.2 | 11.00 | 11.00 | 0.00 |
| 7,300.0 | 65.83 | 179.55 | 7,169.3 | -74.2 | -140.8 | 77.5 | 11.00 | 11.00 | 0.00 |
| 7,345.6 | 70.85 | 179.55 | 7,186.1 | -116.6 | -140.4 | 119.8 | 11.00 | 11.00 | 0.00 |
| Top C Target | | | | | | | | | |
| 7,400.0 | 76.83 | 179.55 | 7,201.3 | -168.8 | -140.0 | 172.0 | 11.00 | 11.00 | 0.00 |
| 7,500.0 | 87.83 | 179.55 | 7,214.6 | -267.8 | -139.2 | 270.9 | 11.00 | 11.00 | 0.00 |
| 7,523.6 | 90.43 | 179.55 | 7,215.0 | -291.4 | -139.0 | 294.5 | 11.00 | 11.00 | 0.00 |
| 7,523.7 | 90.43 | 179.55 | 7,215.0 | -291.4 | -139.0 | 294.6 | 0.00 | 0.00 | 0.00 |
| M 0560CH LP | | | | | | | | | |
| 7,535.0 | 90.43 | 179.55 | 7,214.9 | -302.8 | -138.9 | 305.9 | 0.00 | 0.00 | 0.00 |
| 7" Csg | | | | | | | | | |
| 7,600.0 | 90.43 | 179.55 | 7,214.4 | -367.8 | -138.4 | 370.9 | 0.00 | 0.00 | 0.00 |
| 7,700.0 | 90.43 | 179.55 | 7,213.6 | -467.8 | -137.6 | 470.8 | 0.00 | 0.00 | 0.00 |
| 7,800.0 | 90.43 | 179.55 | 7,212.9 | -567.7 | -136.8 | 570.8 | 0.00 | 0.00 | 0.00 |
| 7,900.0 | 90.43 | 179.55 | 7,212.1 | -667.7 | -136.0 | 670.7 | 0.00 | 0.00 | 0.00 |
| 8,000.0 | 90.43 | 179.55 | 7,211.4 | -767.7 | -135.3 | 770.7 | 0.00 | 0.00 | 0.00 |
| 8,100.0 | 90.43 | 179.55 | 7,210.6 | -867.7 | -134.5 | 870.6 | 0.00 | 0.00 | 0.00 |
| 8,200.0 | 90.43 | 179.55 | 7,209.9 | -967.7 | -133.7 | 970.6 | 0.00 | 0.00 | 0.00 |
| 8,300.0 | 90.43 | 179.55 | 7,209.1 | -1,067.7 | -132.9 | 1,070.5 | 0.00 | 0.00 | 0.00 |
| 8,400.0 | 90.43 | 179.55 | 7,208.4 | -1,167.7 | -132.1 | 1,170.5 | 0.00 | 0.00 | 0.00 |
| 8,500.0 | 90.43 | 179.55 | 7,207.6 | -1,267.7 | -131.3 | 1,270.4 | 0.00 | 0.00 | 0.00 |
| 8,600.0 | 90.43 | 179.55 | 7,206.9 | -1,367.7 | -130.5 | 1,370.4 | 0.00 | 0.00 | 0.00 |
| 8,700.0 | 90.43 | 179.55 | 7,206.1 | -1,467.7 | -129.7 | 1,470.3 | 0.00 | 0.00 | 0.00 |

Bill Barrett Corp

Planning Report

| | | | |
|------------------|-----------------------|-------------------------------------|------------------------------------|
| Database: | Compass | Local Co-ordinate Reference: | Well Merritt 6-66-9-0560CH |
| Company: | BILL BARRETT CORP | TVD Reference: | KB @ 4845.0ft (Original Well Elev) |
| Project: | WELD COUNTY, COLORADO | MD Reference: | KB @ 4845.0ft (Original Well Elev) |
| Site: | Merritt 6-66-9 Pad | North Reference: | True |
| Well: | Merritt 6-66-9-0560CH | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 | | |

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) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 8,800.0 | 90.43 | 179.55 | 7,205.4 | -1,567.7 | -128.9 | 1,570.3 | 0.00 | 0.00 | 0.00 |
| 8,900.0 | 90.43 | 179.55 | 7,204.6 | -1,667.7 | -128.1 | 1,670.2 | 0.00 | 0.00 | 0.00 |
| 9,000.0 | 90.43 | 179.55 | 7,203.9 | -1,767.7 | -127.3 | 1,770.2 | 0.00 | 0.00 | 0.00 |
| 9,100.0 | 90.43 | 179.55 | 7,203.1 | -1,867.7 | -126.5 | 1,870.1 | 0.00 | 0.00 | 0.00 |
| 9,200.0 | 90.43 | 179.55 | 7,202.4 | -1,967.7 | -125.7 | 1,970.1 | 0.00 | 0.00 | 0.00 |
| 9,300.0 | 90.43 | 179.55 | 7,201.6 | -2,067.7 | -124.9 | 2,070.0 | 0.00 | 0.00 | 0.00 |
| 9,400.0 | 90.43 | 179.55 | 7,200.9 | -2,167.6 | -124.1 | 2,170.0 | 0.00 | 0.00 | 0.00 |
| 9,500.0 | 90.43 | 179.55 | 7,200.1 | -2,267.6 | -123.3 | 2,269.9 | 0.00 | 0.00 | 0.00 |
| 9,600.0 | 90.43 | 179.55 | 7,199.4 | -2,367.6 | -122.5 | 2,369.9 | 0.00 | 0.00 | 0.00 |
| 9,700.0 | 90.43 | 179.55 | 7,198.6 | -2,467.6 | -121.8 | 2,469.8 | 0.00 | 0.00 | 0.00 |
| 9,800.0 | 90.43 | 179.55 | 7,197.9 | -2,567.6 | -121.0 | 2,569.7 | 0.00 | 0.00 | 0.00 |
| 9,900.0 | 90.43 | 179.55 | 7,197.1 | -2,667.6 | -120.2 | 2,669.7 | 0.00 | 0.00 | 0.00 |
| 10,000.0 | 90.43 | 179.55 | 7,196.4 | -2,767.6 | -119.4 | 2,769.6 | 0.00 | 0.00 | 0.00 |
| 10,100.0 | 90.43 | 179.55 | 7,195.6 | -2,867.6 | -118.6 | 2,869.6 | 0.00 | 0.00 | 0.00 |
| 10,200.0 | 90.43 | 179.55 | 7,194.9 | -2,967.6 | -117.8 | 2,969.5 | 0.00 | 0.00 | 0.00 |
| 10,300.0 | 90.43 | 179.55 | 7,194.1 | -3,067.6 | -117.0 | 3,069.5 | 0.00 | 0.00 | 0.00 |
| 10,400.0 | 90.43 | 179.55 | 7,193.4 | -3,167.6 | -116.2 | 3,169.4 | 0.00 | 0.00 | 0.00 |
| 10,500.0 | 90.43 | 179.55 | 7,192.6 | -3,267.6 | -115.4 | 3,269.4 | 0.00 | 0.00 | 0.00 |
| 10,600.0 | 90.43 | 179.55 | 7,191.9 | -3,367.6 | -114.6 | 3,369.3 | 0.00 | 0.00 | 0.00 |
| 10,700.0 | 90.43 | 179.55 | 7,191.1 | -3,467.6 | -113.8 | 3,469.3 | 0.00 | 0.00 | 0.00 |
| 10,800.0 | 90.43 | 179.55 | 7,190.4 | -3,567.6 | -113.0 | 3,569.2 | 0.00 | 0.00 | 0.00 |
| 10,900.0 | 90.43 | 179.55 | 7,189.6 | -3,667.6 | -112.2 | 3,669.2 | 0.00 | 0.00 | 0.00 |
| 11,000.0 | 90.43 | 179.55 | 7,188.9 | -3,767.6 | -111.4 | 3,769.1 | 0.00 | 0.00 | 0.00 |
| 11,100.0 | 90.43 | 179.55 | 7,188.1 | -3,867.5 | -110.6 | 3,869.1 | 0.00 | 0.00 | 0.00 |
| 11,200.0 | 90.43 | 179.55 | 7,187.4 | -3,967.5 | -109.8 | 3,969.0 | 0.00 | 0.00 | 0.00 |
| 11,300.0 | 90.43 | 179.55 | 7,186.6 | -4,067.5 | -109.0 | 4,069.0 | 0.00 | 0.00 | 0.00 |
| 11,400.0 | 90.43 | 179.55 | 7,185.9 | -4,167.5 | -108.3 | 4,168.9 | 0.00 | 0.00 | 0.00 |
| 11,500.0 | 90.43 | 179.55 | 7,185.1 | -4,267.5 | -107.5 | 4,268.9 | 0.00 | 0.00 | 0.00 |
| 11,600.0 | 90.43 | 179.55 | 7,184.4 | -4,367.5 | -106.7 | 4,368.8 | 0.00 | 0.00 | 0.00 |
| 11,700.0 | 90.43 | 179.55 | 7,183.6 | -4,467.5 | -105.9 | 4,468.8 | 0.00 | 0.00 | 0.00 |
| 11,748.3 | 90.43 | 179.55 | 7,183.3 | -4,515.8 | -105.5 | 4,517.0 | 0.00 | 0.00 | 0.00 |
| M 0560CH PBHL | | | | | | | | | |

Casing Points

| Measured Depth (ft) | Vertical Depth (ft) | Name | Casing Diameter (") | Hole Diameter (") |
|---------------------|---------------------|--------|---------------------|-------------------|
| 7,535.0 | 7,214.9 | 7" Csg | 7 | 8-3/4 |

Bill Barrett Corp

Planning Report

| | | | |
|------------------|-----------------------|-------------------------------------|------------------------------------|
| Database: | Compass | Local Co-ordinate Reference: | Well Merritt 6-66-9-0560CH |
| Company: | BILL BARRETT CORP | TVD Reference: | KB @ 4845.0ft (Original Well Elev) |
| Project: | WELD COUNTY, COLORADO | MD Reference: | KB @ 4845.0ft (Original Well Elev) |
| Site: | Merritt 6-66-9 Pad | North Reference: | True |
| Well: | Merritt 6-66-9-0560CH | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 | | |

| Formations | | | | | | |
|---------------------|---------------------|-------------------------|-----------|---------|-------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) | |
| | 0.0 | Pierre (Fox Hills Base) | | -0.43 | 179.55 | |
| 4,476.2 | 4,470.0 | Sussex | | -0.43 | 179.55 | |
| 4,881.0 | 4,874.0 | Shannon | | -0.43 | 179.55 | |
| 6,903.9 | 6,890.0 | Sharon Springs | | -0.43 | 179.55 | |
| 6,978.5 | 6,957.0 | Niobrara | | -0.43 | 179.55 | |
| 7,345.6 | 7,187.0 | Top C Target | | -0.43 | 179.55 | |
| | 7,222.0 | Base C Target | | -0.43 | 179.55 | |