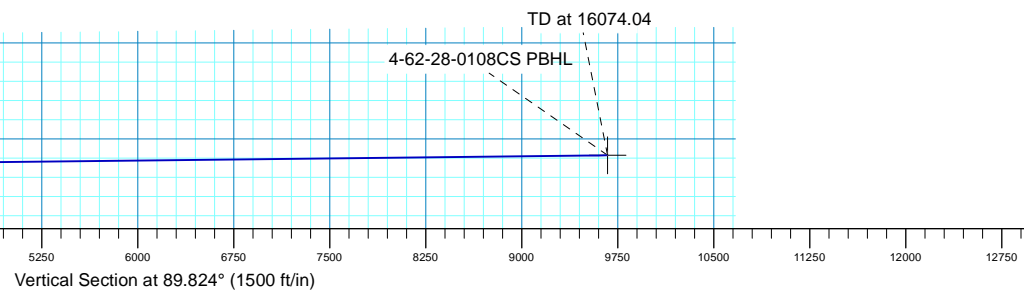
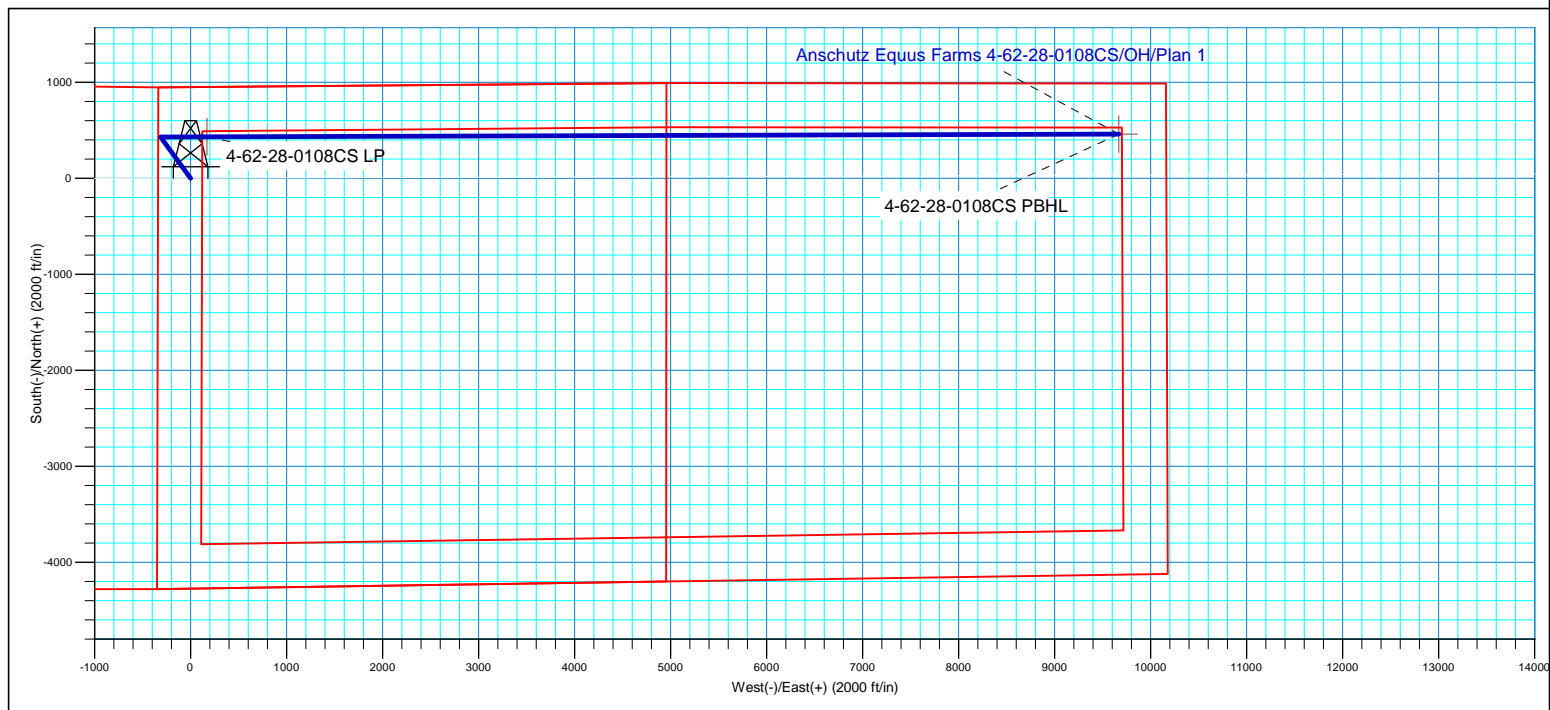
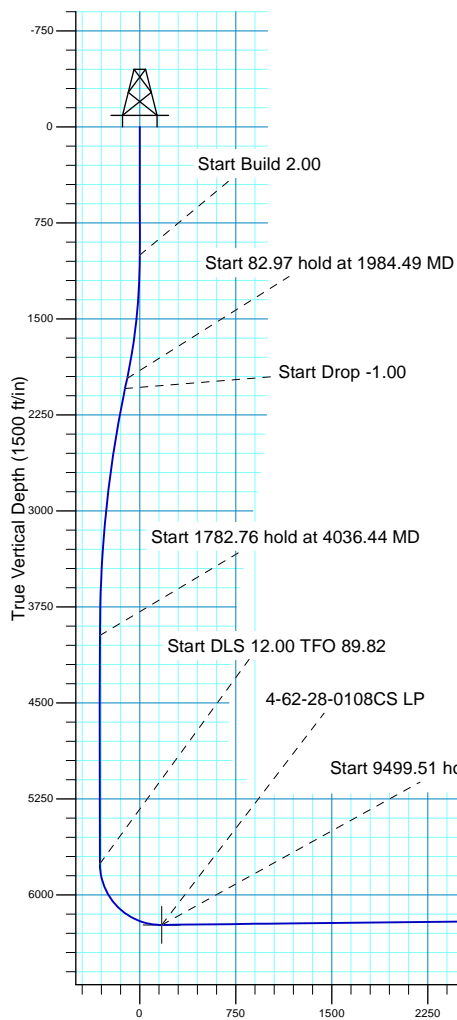

SECTION DETAILS

| MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | VSect |
|----------|-------|---------|---------|--------|---------|-------|--------|---------|
| 0.00 | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1000.00 | 0.00 | 0.000 | 1000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1984.49 | 19.69 | 323.928 | 1965.23 | 135.39 | -98.63 | 2.00 | 323.93 | -98.21 |
| 2067.46 | 19.69 | 323.928 | 2043.35 | 157.98 | -115.09 | 0.00 | 0.00 | -114.60 |
| 4036.44 | 0.00 | 0.000 | 3973.80 | 428.76 | -312.34 | 1.00 | 180.00 | -311.02 |
| 5819.20 | 0.00 | 0.000 | 5756.56 | 428.76 | -312.34 | 0.00 | 0.00 | -311.02 |
| 6574.53 | 90.64 | 89.824 | 6234.00 | 430.25 | 170.45 | 12.00 | 89.82 | 171.77 |
| 16074.04 | 90.64 | 89.824 | 6128.00 | 459.47 | 9669.32 | 0.00 | 0.00 | 9670.69 |

WELL DETAILS: Anschutz Equus Farms 4-62-28-0108CS

| +N/-S | +E/-W | GL 4574' & KB 20' @ | 4594.00ft | 4574.00 | Longitude |
|----------|---------|---------------------|------------|------------------|-------------------|
| Northing | Easting | Latitude | | | |
| 0.00 | 0.00 | 1349662.40 | 3324353.45 | 40° 17' 14.589 N | 104° 20' 14.269 W |





Bill Barrett Corporation

Bill Barrett Corp.

Weld County, CO NAD 83

Anschutz Equus Farms 4-62-28_27 NWNW Pad

Anschutz Equus Farms 4-62-28-0108CS

OH

Plan: Plan 1

Standard Planning Report

24 April, 2017



Scientific Drilling

www.scientificdrilling.com



| | | | |
|------------------|--|-------------------------------------|--|
| Database: | Casper District | Local Co-ordinate Reference: | Well Anschutz Equus Farms 4-62-28-0108CS |
| Company: | Bill Barrett Corp. | TVD Reference: | GL 4574' & KB 20' @ 4594.00ft |
| Project: | Weld County, CO NAD 83 | MD Reference: | GL 4574' & KB 20' @ 4594.00ft |
| Site: | Anschutz Equus Farms 4-62-28_27 NWNW Pad | North Reference: | True |
| Well: | Anschutz Equus Farms 4-62-28-0108CS | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan 1 | | |

| | | | |
|--------------------|---------------------------|----------------------|----------------|
| Project | Weld County, 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 | | | | | | Anschutz Equus Farms 4-62-28_27 NWNW Pad | | | | | | | | | | | |
|-----------------------|--|--|-----------|--|--|--|--|--|-------------------|--|--|-------------------|--|--|-------------------|--|--|
| Site Position: | | | Northing: | | | 1,350,001.24 usft | | | Latitude: | | | 40° 17' 17.948 N | | | | | |
| From: | | | Lat/Long | | | Easting: | | | 3,324,269.21 usft | | | Longitude: | | | 104° 20' 15.299 W | | |
| Position Uncertainty: | | | 0.00 ft | | | Slot Radius: | | | 13.200 in | | | Grid Convergence: | | | 0.75 | | |

| | | | | | | |
|----------------------|--|------------|---------------------|-------------------|---------------|-------------------|
| Well | Anschutz Equus Farms 4-62-28-0108CS, 951' FNL 331' FWL Sec 28 T4N R62W | | | | | |
| Well Position | +N/-S | -339.90 ft | Northing: | 1,349,662.41 usft | Latitude: | 40° 17' 14.589 N |
| | +E/-W | 79.79 ft | Easting: | 3,324,353.45 usft | Longitude: | 104° 20' 14.269 W |
| Position Uncertainty | | 0.00 ft | Wellhead Elevation: | 0.00 ft | Ground Level: | 4,574.00 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | OH | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | BGGM2016 | 4/24/2017 | 8.14 | 66.87 | 52,418 |

| | | | | |
|--------------------------|-------------------------|-------------------|----------------------|----------------------|
| Design | Plan 1 | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PLAN | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) | +N/-S (ft) | +E/-W (ft) | Direction (°) |
| | 0.00 | 0.00 | 0.00 | 89.824 |

| 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 | 0.000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,000.00 | 0.00 | 0.000 | 1,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,984.49 | 19.69 | 323.928 | 1,965.23 | 135.39 | -98.63 | 2.00 | 2.00 | 0.00 | 323.93 | |
| 2,067.46 | 19.69 | 323.928 | 2,043.35 | 157.98 | -115.09 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 4,036.44 | 0.00 | 0.000 | 3,973.80 | 428.76 | -312.34 | 1.00 | -1.00 | 0.00 | 180.00 | |
| 5,819.20 | 0.00 | 0.000 | 5,756.56 | 428.76 | -312.34 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,574.53 | 90.64 | 89.824 | 6,234.00 | 430.24 | 170.45 | 12.00 | 12.00 | 11.89 | 89.82 | |
| 16,074.04 | 90.64 | 89.824 | 6,128.00 | 459.46 | 9,669.32 | 0.00 | 0.00 | 0.00 | 0.00 | 4-62-28-0108CS PBH |

| | | | |
|------------------|--|-------------------------------------|--|
| Database: | Casper District | Local Co-ordinate Reference: | Well Anschutz Equus Farms 4-62-28-0108CS |
| Company: | Bill Barrett Corp. | TVD Reference: | GL 4574' & KB 20' @ 4594.00ft |
| Project: | Weld County, CO NAD 83 | MD Reference: | GL 4574' & KB 20' @ 4594.00ft |
| Site: | Anschutz Equus Farms 4-62-28_27 NWNW Pad | North Reference: | True |
| Well: | Anschutz Equus Farms 4-62-28-0108CS | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan 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) |
|---|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 0.00 | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100.00 | 0.00 | 0.000 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 200.00 | 0.00 | 0.000 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 300.00 | 0.00 | 0.000 | 300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 400.00 | 0.00 | 0.000 | 400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 500.00 | 0.00 | 0.000 | 500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 600.00 | 0.00 | 0.000 | 600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 700.00 | 0.00 | 0.000 | 700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 800.00 | 0.00 | 0.000 | 800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 900.00 | 0.00 | 0.000 | 900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,000.00 | 0.00 | 0.000 | 1,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Start Build 2.00 | | | | | | | | | |
| 1,100.00 | 2.00 | 323.928 | 1,099.98 | 1.41 | -1.03 | -1.02 | 2.00 | 2.00 | 0.00 |
| 1,200.00 | 4.00 | 323.928 | 1,199.84 | 5.64 | -4.11 | -4.09 | 2.00 | 2.00 | 0.00 |
| 1,300.00 | 6.00 | 323.928 | 1,299.45 | 12.68 | -9.24 | -9.20 | 2.00 | 2.00 | 0.00 |
| 1,400.00 | 8.00 | 323.928 | 1,398.70 | 22.53 | -16.42 | -16.35 | 2.00 | 2.00 | 0.00 |
| 1,500.00 | 10.00 | 323.928 | 1,497.47 | 35.18 | -25.63 | -25.52 | 2.00 | 2.00 | 0.00 |
| 1,600.00 | 12.00 | 323.928 | 1,595.62 | 50.60 | -36.86 | -36.71 | 2.00 | 2.00 | 0.00 |
| 1,700.00 | 14.00 | 323.928 | 1,693.06 | 68.78 | -50.11 | -49.89 | 2.00 | 2.00 | 0.00 |
| 1,800.00 | 16.00 | 323.928 | 1,789.64 | 89.70 | -65.34 | -65.07 | 2.00 | 2.00 | 0.00 |
| 1,900.00 | 18.00 | 323.928 | 1,885.27 | 113.33 | -82.56 | -82.21 | 2.00 | 2.00 | 0.00 |
| 1,984.49 | 19.69 | 323.928 | 1,965.23 | 135.39 | -98.63 | -98.21 | 2.00 | 2.00 | 0.00 |
| Start 82.97 hold at 1984.49 MD | | | | | | | | | |
| 2,000.00 | 19.69 | 323.928 | 1,979.83 | 139.61 | -101.70 | -101.27 | 0.00 | 0.00 | 0.00 |
| 2,067.46 | 19.69 | 323.928 | 2,043.35 | 157.98 | -115.09 | -114.60 | 0.00 | 0.00 | 0.00 |
| Start Drop -1.00 | | | | | | | | | |
| 2,100.00 | 19.36 | 323.928 | 2,074.01 | 166.77 | -121.49 | -120.98 | 1.00 | -1.00 | 0.00 |
| 2,200.00 | 18.36 | 323.928 | 2,168.64 | 192.91 | -140.53 | -139.94 | 1.00 | -1.00 | 0.00 |
| 2,300.00 | 17.36 | 323.928 | 2,263.82 | 217.70 | -158.59 | -157.92 | 1.00 | -1.00 | 0.00 |
| 2,400.00 | 16.36 | 323.928 | 2,359.52 | 241.15 | -175.67 | -174.93 | 1.00 | -1.00 | 0.00 |
| 2,500.00 | 15.36 | 323.928 | 2,455.71 | 263.25 | -191.77 | -190.96 | 1.00 | -1.00 | 0.00 |
| 2,600.00 | 14.36 | 323.928 | 2,552.36 | 283.98 | -206.87 | -206.00 | 1.00 | -1.00 | 0.00 |
| 2,700.00 | 13.36 | 323.928 | 2,649.44 | 303.35 | -220.98 | -220.05 | 1.00 | -1.00 | 0.00 |
| 2,800.00 | 12.36 | 323.928 | 2,746.93 | 321.34 | -234.09 | -233.10 | 1.00 | -1.00 | 0.00 |
| 2,900.00 | 11.36 | 323.928 | 2,844.80 | 337.96 | -246.20 | -245.16 | 1.00 | -1.00 | 0.00 |
| 3,000.00 | 10.36 | 323.928 | 2,943.00 | 353.20 | -257.29 | -256.21 | 1.00 | -1.00 | 0.00 |
| 3,100.00 | 9.36 | 323.928 | 3,041.52 | 367.04 | -267.38 | -266.25 | 1.00 | -1.00 | 0.00 |
| 3,200.00 | 8.36 | 323.928 | 3,140.33 | 379.50 | -276.45 | -275.29 | 1.00 | -1.00 | 0.00 |
| 3,300.00 | 7.36 | 323.928 | 3,239.38 | 390.56 | -284.51 | -283.31 | 1.00 | -1.00 | 0.00 |
| 3,400.00 | 6.36 | 323.928 | 3,338.67 | 400.22 | -291.55 | -290.32 | 1.00 | -1.00 | 0.00 |
| 3,500.00 | 5.36 | 323.928 | 3,438.14 | 408.48 | -297.56 | -296.31 | 1.00 | -1.00 | 0.00 |
| 3,600.00 | 4.36 | 323.928 | 3,537.78 | 415.33 | -302.56 | -301.28 | 1.00 | -1.00 | 0.00 |
| 3,700.00 | 3.36 | 323.928 | 3,637.55 | 420.78 | -306.53 | -305.23 | 1.00 | -1.00 | 0.00 |
| 3,800.00 | 2.36 | 323.928 | 3,737.43 | 424.82 | -309.47 | -308.16 | 1.00 | -1.00 | 0.00 |
| 3,900.00 | 1.36 | 323.928 | 3,837.37 | 427.45 | -311.38 | -310.07 | 1.00 | -1.00 | 0.00 |
| 4,000.00 | 0.36 | 323.928 | 3,937.36 | 428.67 | -312.27 | -310.95 | 1.00 | -1.00 | 0.00 |
| 4,036.44 | 0.00 | 0.000 | 3,973.80 | 428.76 | -312.34 | -311.02 | 1.00 | -1.00 | 0.00 |
| Start 1782.76 hold at 4036.44 MD | | | | | | | | | |
| 4,100.00 | 0.00 | 0.000 | 4,037.36 | 428.76 | -312.34 | -311.02 | 0.00 | 0.00 | 0.00 |
| 4,200.00 | 0.00 | 0.000 | 4,137.36 | 428.76 | -312.34 | -311.02 | 0.00 | 0.00 | 0.00 |
| 4,300.00 | 0.00 | 0.000 | 4,237.36 | 428.76 | -312.34 | -311.02 | 0.00 | 0.00 | 0.00 |
| 4,400.00 | 0.00 | 0.000 | 4,337.36 | 428.76 | -312.34 | -311.02 | 0.00 | 0.00 | 0.00 |
| 4,500.00 | 0.00 | 0.000 | 4,437.36 | 428.76 | -312.34 | -311.02 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|--|-------------------------------------|--|
| Database: | Casper District | Local Co-ordinate Reference: | Well Anschutz Equus Farms 4-62-28-0108CS |
| Company: | Bill Barrett Corp. | TVD Reference: | GL 4574' & KB 20' @ 4594.00ft |
| Project: | Weld County, CO NAD 83 | MD Reference: | GL 4574' & KB 20' @ 4594.00ft |
| Site: | Anschutz Equus Farms 4-62-28_27 NWNW Pad | North Reference: | True |
| Well: | Anschutz Equus Farms 4-62-28-0108CS | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan 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) |
| 4,600.00 | 0.00 | 0.000 | 4,537.36 | 428.76 | -312.34 | -311.02 | 0.00 | 0.00 | 0.00 |
| 4,700.00 | 0.00 | 0.000 | 4,637.36 | 428.76 | -312.34 | -311.02 | 0.00 | 0.00 | 0.00 |
| 4,800.00 | 0.00 | 0.000 | 4,737.36 | 428.76 | -312.34 | -311.02 | 0.00 | 0.00 | 0.00 |
| 4,900.00 | 0.00 | 0.000 | 4,837.36 | 428.76 | -312.34 | -311.02 | 0.00 | 0.00 | 0.00 |
| 5,000.00 | 0.00 | 0.000 | 4,937.36 | 428.76 | -312.34 | -311.02 | 0.00 | 0.00 | 0.00 |
| 5,100.00 | 0.00 | 0.000 | 5,037.36 | 428.76 | -312.34 | -311.02 | 0.00 | 0.00 | 0.00 |
| 5,200.00 | 0.00 | 0.000 | 5,137.36 | 428.76 | -312.34 | -311.02 | 0.00 | 0.00 | 0.00 |
| 5,300.00 | 0.00 | 0.000 | 5,237.36 | 428.76 | -312.34 | -311.02 | 0.00 | 0.00 | 0.00 |
| 5,400.00 | 0.00 | 0.000 | 5,337.36 | 428.76 | -312.34 | -311.02 | 0.00 | 0.00 | 0.00 |
| 5,500.00 | 0.00 | 0.000 | 5,437.36 | 428.76 | -312.34 | -311.02 | 0.00 | 0.00 | 0.00 |
| 5,600.00 | 0.00 | 0.000 | 5,537.36 | 428.76 | -312.34 | -311.02 | 0.00 | 0.00 | 0.00 |
| 5,700.00 | 0.00 | 0.000 | 5,637.36 | 428.76 | -312.34 | -311.02 | 0.00 | 0.00 | 0.00 |
| 5,800.00 | 0.00 | 0.000 | 5,737.36 | 428.76 | -312.34 | -311.02 | 0.00 | 0.00 | 0.00 |
| 5,819.20 | 0.00 | 0.000 | 5,756.56 | 428.76 | -312.34 | -311.02 | 0.00 | 0.00 | 0.00 |
| Start DLS 12.00 TFO 89.82 | | | | | | | | | |
| 5,900.00 | 9.70 | 89.824 | 5,836.97 | 428.78 | -305.52 | -304.20 | 12.00 | 12.00 | 0.00 |
| 6,000.00 | 21.70 | 89.824 | 5,933.07 | 428.86 | -278.52 | -277.20 | 12.00 | 12.00 | 0.00 |
| 6,100.00 | 33.70 | 89.824 | 6,021.45 | 429.01 | -232.12 | -230.80 | 12.00 | 12.00 | 0.00 |
| 6,200.00 | 45.70 | 89.824 | 6,098.25 | 429.20 | -168.37 | -167.05 | 12.00 | 12.00 | 0.00 |
| 6,300.00 | 57.70 | 89.824 | 6,160.12 | 429.44 | -90.04 | -88.72 | 12.00 | 12.00 | 0.00 |
| 6,400.00 | 69.70 | 89.824 | 6,204.36 | 429.72 | -0.56 | 0.76 | 12.00 | 12.00 | 0.00 |
| 6,500.00 | 81.70 | 89.824 | 6,229.02 | 430.02 | 96.16 | 97.48 | 12.00 | 12.00 | 0.00 |
| 6,574.53 | 90.64 | 89.824 | 6,234.00 | 430.24 | 170.45 | 171.77 | 12.00 | 12.00 | 0.00 |
| Start 9499.51 hold at 6574.53 MD | | | | | | | | | |
| 6,600.00 | 90.64 | 89.824 | 6,233.71 | 430.32 | 195.92 | 197.24 | 0.00 | 0.00 | 0.00 |
| 6,700.00 | 90.64 | 89.824 | 6,232.60 | 430.63 | 295.91 | 297.23 | 0.00 | 0.00 | 0.00 |
| 6,800.00 | 90.64 | 89.824 | 6,231.48 | 430.94 | 395.91 | 397.23 | 0.00 | 0.00 | 0.00 |
| 6,900.00 | 90.64 | 89.824 | 6,230.36 | 431.25 | 495.90 | 497.22 | 0.00 | 0.00 | 0.00 |
| 7,000.00 | 90.64 | 89.824 | 6,229.25 | 431.55 | 595.89 | 597.22 | 0.00 | 0.00 | 0.00 |
| 7,100.00 | 90.64 | 89.824 | 6,228.13 | 431.86 | 695.89 | 697.21 | 0.00 | 0.00 | 0.00 |
| 7,200.00 | 90.64 | 89.824 | 6,227.02 | 432.17 | 795.88 | 797.20 | 0.00 | 0.00 | 0.00 |
| 7,300.00 | 90.64 | 89.824 | 6,225.90 | 432.48 | 895.87 | 897.20 | 0.00 | 0.00 | 0.00 |
| 7,400.00 | 90.64 | 89.824 | 6,224.78 | 432.78 | 995.87 | 997.19 | 0.00 | 0.00 | 0.00 |
| 7,500.00 | 90.64 | 89.824 | 6,223.67 | 433.09 | 1,095.86 | 1,097.18 | 0.00 | 0.00 | 0.00 |
| 7,600.00 | 90.64 | 89.824 | 6,222.55 | 433.40 | 1,195.85 | 1,197.18 | 0.00 | 0.00 | 0.00 |
| 7,700.00 | 90.64 | 89.824 | 6,221.44 | 433.71 | 1,295.85 | 1,297.17 | 0.00 | 0.00 | 0.00 |
| 7,800.00 | 90.64 | 89.824 | 6,220.32 | 434.01 | 1,395.84 | 1,397.17 | 0.00 | 0.00 | 0.00 |
| 7,900.00 | 90.64 | 89.824 | 6,219.21 | 434.32 | 1,495.83 | 1,497.16 | 0.00 | 0.00 | 0.00 |
| 8,000.00 | 90.64 | 89.824 | 6,218.09 | 434.63 | 1,595.83 | 1,597.15 | 0.00 | 0.00 | 0.00 |
| 8,100.00 | 90.64 | 89.824 | 6,216.97 | 434.94 | 1,695.82 | 1,697.15 | 0.00 | 0.00 | 0.00 |
| 8,200.00 | 90.64 | 89.824 | 6,215.86 | 435.24 | 1,795.81 | 1,797.14 | 0.00 | 0.00 | 0.00 |
| 8,300.00 | 90.64 | 89.824 | 6,214.74 | 435.55 | 1,895.81 | 1,897.13 | 0.00 | 0.00 | 0.00 |
| 8,400.00 | 90.64 | 89.824 | 6,213.63 | 435.86 | 1,995.80 | 1,997.13 | 0.00 | 0.00 | 0.00 |
| 8,500.00 | 90.64 | 89.824 | 6,212.51 | 436.17 | 2,095.79 | 2,097.12 | 0.00 | 0.00 | 0.00 |
| 8,600.00 | 90.64 | 89.824 | 6,211.40 | 436.47 | 2,195.79 | 2,197.12 | 0.00 | 0.00 | 0.00 |
| 8,700.00 | 90.64 | 89.824 | 6,210.28 | 436.78 | 2,295.78 | 2,297.11 | 0.00 | 0.00 | 0.00 |
| 8,800.00 | 90.64 | 89.824 | 6,209.16 | 437.09 | 2,395.77 | 2,397.10 | 0.00 | 0.00 | 0.00 |
| 8,900.00 | 90.64 | 89.824 | 6,208.05 | 437.40 | 2,495.77 | 2,497.10 | 0.00 | 0.00 | 0.00 |
| 9,000.00 | 90.64 | 89.824 | 6,206.93 | 437.70 | 2,595.76 | 2,597.09 | 0.00 | 0.00 | 0.00 |
| 9,100.00 | 90.64 | 89.824 | 6,205.82 | 438.01 | 2,695.75 | 2,697.08 | 0.00 | 0.00 | 0.00 |
| 9,200.00 | 90.64 | 89.824 | 6,204.70 | 438.32 | 2,795.75 | 2,797.08 | 0.00 | 0.00 | 0.00 |
| 9,300.00 | 90.64 | 89.824 | 6,203.58 | 438.63 | 2,895.74 | 2,897.07 | 0.00 | 0.00 | 0.00 |
| 9,400.00 | 90.64 | 89.824 | 6,202.47 | 438.93 | 2,995.73 | 2,997.07 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|--|-------------------------------------|--|
| Database: | Casper District | Local Co-ordinate Reference: | Well Anschutz Equus Farms 4-62-28-0108CS |
| Company: | Bill Barrett Corp. | TVD Reference: | GL 4574' & KB 20' @ 4594.00ft |
| Project: | Weld County, CO NAD 83 | MD Reference: | GL 4574' & KB 20' @ 4594.00ft |
| Site: | Anschutz Equus Farms 4-62-28_27 NWNW Pad | North Reference: | True |
| Well: | Anschutz Equus Farms 4-62-28-0108CS | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan 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) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 9,500.00 | 90.64 | 89.824 | 6,201.35 | 439.24 | 3,095.72 | 3,097.06 | 0.00 | 0.00 | 0.00 |
| 9,600.00 | 90.64 | 89.824 | 6,200.24 | 439.55 | 3,195.72 | 3,197.05 | 0.00 | 0.00 | 0.00 |
| 9,700.00 | 90.64 | 89.824 | 6,199.12 | 439.86 | 3,295.71 | 3,297.05 | 0.00 | 0.00 | 0.00 |
| 9,800.00 | 90.64 | 89.824 | 6,198.01 | 440.16 | 3,395.70 | 3,397.04 | 0.00 | 0.00 | 0.00 |
| 9,900.00 | 90.64 | 89.824 | 6,196.89 | 440.47 | 3,495.70 | 3,497.03 | 0.00 | 0.00 | 0.00 |
| 10,000.00 | 90.64 | 89.824 | 6,195.77 | 440.78 | 3,595.69 | 3,597.03 | 0.00 | 0.00 | 0.00 |
| 10,100.00 | 90.64 | 89.824 | 6,194.66 | 441.09 | 3,695.68 | 3,697.02 | 0.00 | 0.00 | 0.00 |
| 10,200.00 | 90.64 | 89.824 | 6,193.54 | 441.39 | 3,795.68 | 3,797.02 | 0.00 | 0.00 | 0.00 |
| 10,300.00 | 90.64 | 89.824 | 6,192.43 | 441.70 | 3,895.67 | 3,897.01 | 0.00 | 0.00 | 0.00 |
| 10,400.00 | 90.64 | 89.824 | 6,191.31 | 442.01 | 3,995.66 | 3,997.00 | 0.00 | 0.00 | 0.00 |
| 10,500.00 | 90.64 | 89.824 | 6,190.20 | 442.32 | 4,095.66 | 4,097.00 | 0.00 | 0.00 | 0.00 |
| 10,600.00 | 90.64 | 89.824 | 6,189.08 | 442.62 | 4,195.65 | 4,196.99 | 0.00 | 0.00 | 0.00 |
| 10,700.00 | 90.64 | 89.824 | 6,187.96 | 442.93 | 4,295.64 | 4,296.98 | 0.00 | 0.00 | 0.00 |
| 10,800.00 | 90.64 | 89.824 | 6,186.85 | 443.24 | 4,395.64 | 4,396.98 | 0.00 | 0.00 | 0.00 |
| 10,900.00 | 90.64 | 89.824 | 6,185.73 | 443.55 | 4,495.63 | 4,496.97 | 0.00 | 0.00 | 0.00 |
| 11,000.00 | 90.64 | 89.824 | 6,184.62 | 443.85 | 4,595.62 | 4,596.97 | 0.00 | 0.00 | 0.00 |
| 11,100.00 | 90.64 | 89.824 | 6,183.50 | 444.16 | 4,695.62 | 4,696.96 | 0.00 | 0.00 | 0.00 |
| 11,200.00 | 90.64 | 89.824 | 6,182.38 | 444.47 | 4,795.61 | 4,796.95 | 0.00 | 0.00 | 0.00 |
| 11,300.00 | 90.64 | 89.824 | 6,181.27 | 444.78 | 4,895.60 | 4,896.95 | 0.00 | 0.00 | 0.00 |
| 11,400.00 | 90.64 | 89.824 | 6,180.15 | 445.08 | 4,995.60 | 4,996.94 | 0.00 | 0.00 | 0.00 |
| 11,500.00 | 90.64 | 89.824 | 6,179.04 | 445.39 | 5,095.59 | 5,096.94 | 0.00 | 0.00 | 0.00 |
| 11,600.00 | 90.64 | 89.824 | 6,177.92 | 445.70 | 5,195.58 | 5,196.93 | 0.00 | 0.00 | 0.00 |
| 11,700.00 | 90.64 | 89.824 | 6,176.81 | 446.01 | 5,295.58 | 5,296.92 | 0.00 | 0.00 | 0.00 |
| 11,800.00 | 90.64 | 89.824 | 6,175.69 | 446.31 | 5,395.57 | 5,396.92 | 0.00 | 0.00 | 0.00 |
| 11,900.00 | 90.64 | 89.824 | 6,174.57 | 446.62 | 5,495.56 | 5,496.91 | 0.00 | 0.00 | 0.00 |
| 12,000.00 | 90.64 | 89.824 | 6,173.46 | 446.93 | 5,595.56 | 5,596.90 | 0.00 | 0.00 | 0.00 |
| 12,100.00 | 90.64 | 89.824 | 6,172.34 | 447.24 | 5,695.55 | 5,696.90 | 0.00 | 0.00 | 0.00 |
| 12,200.00 | 90.64 | 89.824 | 6,171.23 | 447.54 | 5,795.54 | 5,796.89 | 0.00 | 0.00 | 0.00 |
| 12,300.00 | 90.64 | 89.824 | 6,170.11 | 447.85 | 5,895.54 | 5,896.89 | 0.00 | 0.00 | 0.00 |
| 12,400.00 | 90.64 | 89.824 | 6,168.99 | 448.16 | 5,995.53 | 5,996.88 | 0.00 | 0.00 | 0.00 |
| 12,500.00 | 90.64 | 89.824 | 6,167.88 | 448.47 | 6,095.52 | 6,096.87 | 0.00 | 0.00 | 0.00 |
| 12,600.00 | 90.64 | 89.824 | 6,166.76 | 448.77 | 6,195.52 | 6,196.87 | 0.00 | 0.00 | 0.00 |
| 12,700.00 | 90.64 | 89.824 | 6,165.65 | 449.08 | 6,295.51 | 6,296.86 | 0.00 | 0.00 | 0.00 |
| 12,800.00 | 90.64 | 89.824 | 6,164.53 | 449.39 | 6,395.50 | 6,396.85 | 0.00 | 0.00 | 0.00 |
| 12,900.00 | 90.64 | 89.824 | 6,163.42 | 449.70 | 6,495.50 | 6,496.85 | 0.00 | 0.00 | 0.00 |
| 13,000.00 | 90.64 | 89.824 | 6,162.30 | 450.00 | 6,595.49 | 6,596.84 | 0.00 | 0.00 | 0.00 |
| 13,100.00 | 90.64 | 89.824 | 6,161.18 | 450.31 | 6,695.48 | 6,696.84 | 0.00 | 0.00 | 0.00 |
| 13,200.00 | 90.64 | 89.824 | 6,160.07 | 450.62 | 6,795.48 | 6,796.83 | 0.00 | 0.00 | 0.00 |
| 13,300.00 | 90.64 | 89.824 | 6,158.95 | 450.93 | 6,895.47 | 6,896.82 | 0.00 | 0.00 | 0.00 |
| 13,400.00 | 90.64 | 89.824 | 6,157.84 | 451.23 | 6,995.46 | 6,996.82 | 0.00 | 0.00 | 0.00 |
| 13,500.00 | 90.64 | 89.824 | 6,156.72 | 451.54 | 7,095.46 | 7,096.81 | 0.00 | 0.00 | 0.00 |
| 13,600.00 | 90.64 | 89.824 | 6,155.61 | 451.85 | 7,195.45 | 7,196.80 | 0.00 | 0.00 | 0.00 |
| 13,700.00 | 90.64 | 89.824 | 6,154.49 | 452.16 | 7,295.44 | 7,296.80 | 0.00 | 0.00 | 0.00 |
| 13,800.00 | 90.64 | 89.824 | 6,153.37 | 452.46 | 7,395.44 | 7,396.79 | 0.00 | 0.00 | 0.00 |
| 13,900.00 | 90.64 | 89.824 | 6,152.26 | 452.77 | 7,495.43 | 7,496.79 | 0.00 | 0.00 | 0.00 |
| 14,000.00 | 90.64 | 89.824 | 6,151.14 | 453.08 | 7,595.42 | 7,596.78 | 0.00 | 0.00 | 0.00 |
| 14,100.00 | 90.64 | 89.824 | 6,150.03 | 453.39 | 7,695.42 | 7,696.77 | 0.00 | 0.00 | 0.00 |
| 14,200.00 | 90.64 | 89.824 | 6,148.91 | 453.69 | 7,795.41 | 7,796.77 | 0.00 | 0.00 | 0.00 |
| 14,300.00 | 90.64 | 89.824 | 6,147.79 | 454.00 | 7,895.40 | 7,896.76 | 0.00 | 0.00 | 0.00 |
| 14,400.00 | 90.64 | 89.824 | 6,146.68 | 454.31 | 7,995.40 | 7,996.75 | 0.00 | 0.00 | 0.00 |
| 14,500.00 | 90.64 | 89.824 | 6,145.56 | 454.62 | 8,095.39 | 8,096.75 | 0.00 | 0.00 | 0.00 |
| 14,600.00 | 90.64 | 89.824 | 6,144.45 | 454.92 | 8,195.38 | 8,196.74 | 0.00 | 0.00 | 0.00 |
| 14,700.00 | 90.64 | 89.824 | 6,143.33 | 455.23 | 8,295.38 | 8,296.74 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|--|-------------------------------------|--|
| Database: | Casper District | Local Co-ordinate Reference: | Well Anschutz Equus Farms 4-62-28-0108CS |
| Company: | Bill Barrett Corp. | TVD Reference: | GL 4574' & KB 20' @ 4594.00ft |
| Project: | Weld County, CO NAD 83 | MD Reference: | GL 4574' & KB 20' @ 4594.00ft |
| Site: | Anschutz Equus Farms 4-62-28_27 NWNW Pad | North Reference: | True |
| Well: | Anschutz Equus Farms 4-62-28-0108CS | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan 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) | |
| 14,800.00 | 90.64 | 89.824 | 6,142.22 | 455.54 | 8,395.37 | 8,396.73 | 0.00 | 0.00 | 0.00 | |
| 14,900.00 | 90.64 | 89.824 | 6,141.10 | 455.85 | 8,495.36 | 8,496.72 | 0.00 | 0.00 | 0.00 | |
| 15,000.00 | 90.64 | 89.824 | 6,139.98 | 456.15 | 8,595.36 | 8,596.72 | 0.00 | 0.00 | 0.00 | |
| 15,100.00 | 90.64 | 89.824 | 6,138.87 | 456.46 | 8,695.35 | 8,696.71 | 0.00 | 0.00 | 0.00 | |
| 15,200.00 | 90.64 | 89.824 | 6,137.75 | 456.77 | 8,795.34 | 8,796.70 | 0.00 | 0.00 | 0.00 | |
| 15,300.00 | 90.64 | 89.824 | 6,136.64 | 457.08 | 8,895.34 | 8,896.70 | 0.00 | 0.00 | 0.00 | |
| 15,400.00 | 90.64 | 89.824 | 6,135.52 | 457.39 | 8,995.33 | 8,996.69 | 0.00 | 0.00 | 0.00 | |
| 15,500.00 | 90.64 | 89.824 | 6,134.41 | 457.69 | 9,095.32 | 9,096.69 | 0.00 | 0.00 | 0.00 | |
| 15,600.00 | 90.64 | 89.824 | 6,133.29 | 458.00 | 9,195.32 | 9,196.68 | 0.00 | 0.00 | 0.00 | |
| 15,700.00 | 90.64 | 89.824 | 6,132.17 | 458.31 | 9,295.31 | 9,296.67 | 0.00 | 0.00 | 0.00 | |
| 15,800.00 | 90.64 | 89.824 | 6,131.06 | 458.62 | 9,395.30 | 9,396.67 | 0.00 | 0.00 | 0.00 | |
| 15,900.00 | 90.64 | 89.824 | 6,129.94 | 458.92 | 9,495.30 | 9,496.66 | 0.00 | 0.00 | 0.00 | |
| 16,000.00 | 90.64 | 89.824 | 6,128.83 | 459.23 | 9,595.29 | 9,596.66 | 0.00 | 0.00 | 0.00 | |
| 16,074.04 | 90.64 | 89.824 | 6,128.00 | 459.46 | 9,669.32 | 9,670.69 | 0.00 | 0.00 | 0.00 | |
| TD at 16074.04 | | | | | | | | | | |

| Design Targets | | | | | | | | | | |
|---|---------------|--------------|----------|------------|------------|-----------------|----------------|------------------|-------------------|--|
| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (usft) | Easting (usft) | Latitude | Longitude | |
| 4-62-28-0108CS PBHL | 0.00 | 0.000 | 6,128.00 | 459.46 | 9,669.32 | 1,350,248.61 | 3,334,015.90 | 40° 17' 19.111 N | 104° 18' 9.490 W | |
| - hit/miss target | | | | | | | | | | |
| - Shape | | | | | | | | | | |
| - Point | | | | | | | | | | |
| 4-62-28-0108CS LP | 0.00 | 0.000 | 6,234.00 | 430.25 | 170.45 | 1,350,094.85 | 3,324,518.24 | 40° 17' 18.841 N | 104° 20' 12.070 W | |
| - plan misses target center by 0.01ft at 6574.53ft MD (6234.00 TVD, 430.24 N, 170.45 E) | | | | | | | | | | |
| - Point | | | | | | | | | | |

| Plan Annotations | | | | | |
|---------------------|---------------------|-------------------|------------|----------------------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates | | | |
| | | +N/-S (ft) | +E/-W (ft) | Comment | |
| 1,000.00 | 1,000.00 | 0.00 | 0.00 | Start Build 2.00 | |
| 1,984.49 | 1,965.23 | 135.39 | -98.63 | Start 82.97 hold at 1984.49 MD | |
| 2,067.46 | 2,043.35 | 157.98 | -115.09 | Start Drop -1.00 | |
| 4,036.44 | 3,973.80 | 428.76 | -312.34 | Start 1782.76 hold at 4036.44 MD | |
| 5,819.20 | 5,756.56 | 428.76 | -312.34 | Start DLS 12.00 TFO 89.82 | |
| 6,574.53 | 6,234.00 | 430.24 | 170.45 | Start 9499.51 hold at 6574.53 MD | |
| 16,074.04 | 6,128.00 | 459.46 | 9,669.32 | TD at 16074.04 | |