



Project: Weld County, CO NAD 83  
Site: Anschutz Equus Farms 4-62-28\_27 NWSW Pad [GOOD]  
Well: Anschutz Equus Farms 4-62-29-4148C  
Wellbore: OH  
Design: OH

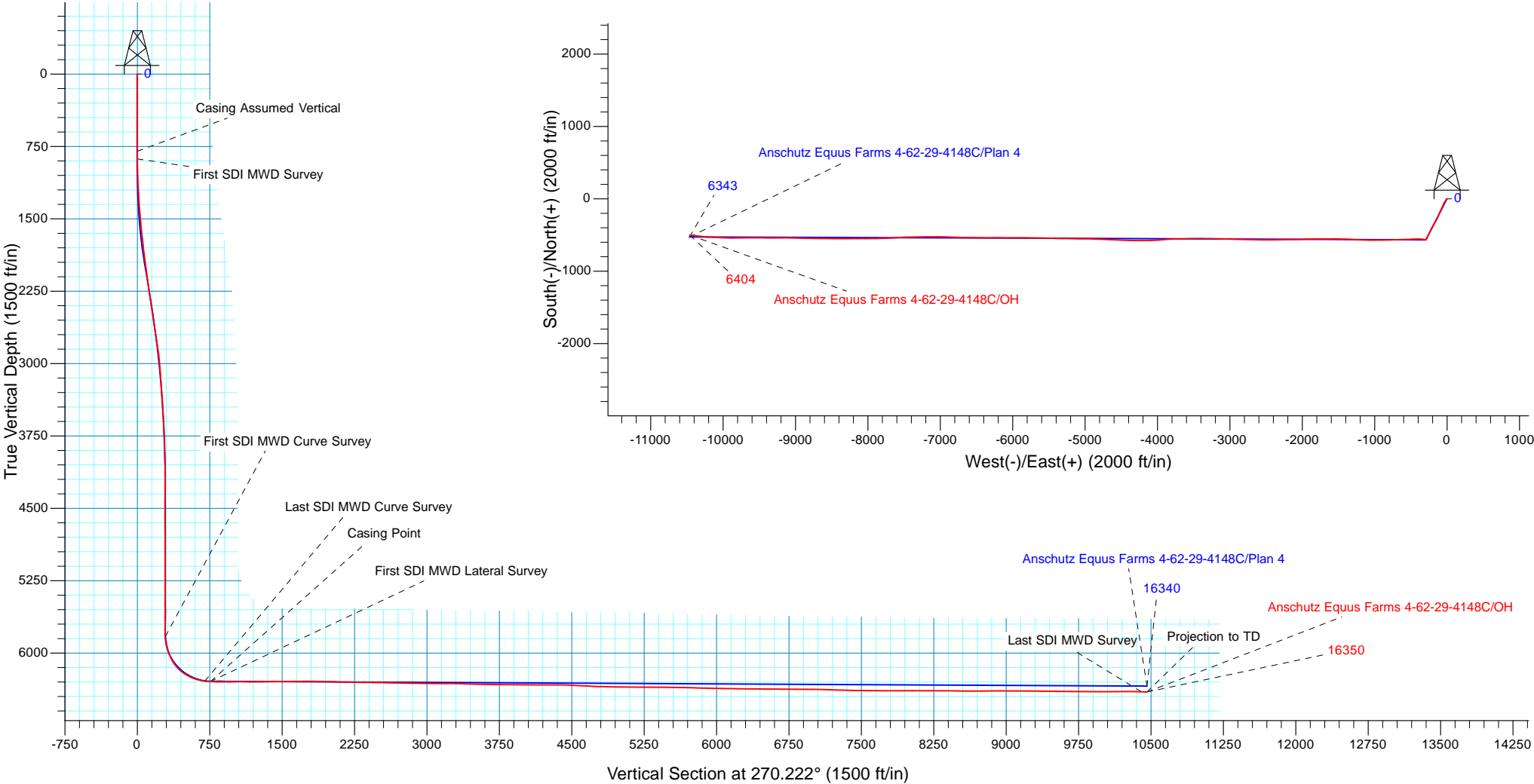


| WELL DETAILS: Anschutz Equus Farms 4-62-29-4148C |            |                  |                   |
|--|------------|------------------|-------------------|
| GL 4624.3' & KB 20' @ 4644.30ft (Savanna 802)    |            |                  |                   |
| GL 4624.30                                       |            |                  |                   |
| Northing   | Easting    | Latitude         | Longitude         |
| 1347514.94                                       | 3324350.54 | 40° 16' 53.370 N | 104° 20' 14.670 W |

| Design: OH (Anschutz Equus Farms 4-62-29-4148C/OH) |                 |
|--|-----------------|
| Created By: Seth Burstad                           | Date: 8-28-2017 |

| PROJECT DETAILS: Weld County, CO NAD 83 |                           |
|---|---------------------------|
| Geodetic System:                        | US State Plane 1983       |
| Datum:                                  | North American Datum 1983 |
| Ellipsoid:                              | GRS 1980                  |
| Zone:                                   | Colorado Northern Zone    |
| System Datum:                           | Mean Sea Level            |
| Local North:                            | True                      |

| ANNOTATIONS      |          |       |         |         |           |          |           |
|------------------|----------|-------|---------|---------|-----------|----------|-----------|
| TVD              | MD       | Inc   | Azi     | +N/-S   | +E/-W     | Vsect    | Departure |
| 800.00           | 800.00   | 0.00  | 0.000   | 0.00    | 0.00      | 0.00     | 0.00      |
| 879.00           | 879.00   | 0.97  | 322.600 | 0.53    | -0.41     | 0.41     | 0.67      |
| 5828.51          | 5909.00  | 4.77  | 282.350 | -567.07 | -294.28   | 292.08   | 660.19    |
| 6291.47          | 6584.00  | 82.32 | 268.520 | -564.29 | -700.77   | 698.58   | 1068.12   |
| 6296.21          | 6642.00  | 88.29 | 267.500 | -566.29 | -758.51   | 756.31   | 1125.90   |
| 6296.27          | 6644.00  | 88.27 | 267.544 | -566.38 | -760.51   | 758.31   | 1127.90   |
| 6402.50          | 16293.00 | 88.05 | 275.550 | -507.92 | -10403.40 | 10401.35 | 10775.31  |
| 6404.43          | 16350.00 | 88.05 | 275.550 | -502.41 | -10460.10 | 10458.07 | 10832.27  |
| Projection to TD |          |       |         |         |           |          |           |





**Bill Barrett Corporation**

## **Bill Barrett Corp.**

**Weld County, CO NAD 83**

**Anschutz Equus Farms 4-62-28\_27 NWSW Pad [GOOD]**

**Anschutz Equus Farms 4-62-29-4148C**

**OH**

**Design: OH**

## **Standard Survey Report**

**28 August, 2017**



**Scientific Drilling**

[www.scientificdrilling.com](http://www.scientificdrilling.com)



|                  |   |                                     |   |
|------------------|---|-------------------------------------|---|
| <b>Company:</b>  | Bill Barrett Corp.                              | <b>Local Co-ordinate Reference:</b> | Well Anschutz Equus Farms 4-62-29-4148C       |
| <b>Project:</b>  | Weld County, CO NAD 83                          | <b>TVD Reference:</b>               | GL 4624.3' & KB 20' @ 4644.30ft (Savanna 802) |
| <b>Site:</b>     | Anschutz Equus Farms 4-62-28_27 NWSW Pad [GOOD] | <b>MD Reference:</b>                | GL 4624.3' & KB 20' @ 4644.30ft (Savanna 802) |
| <b>Well:</b>     | Anschutz Equus Farms 4-62-29-4148C              | <b>North Reference:</b>             | True  |
| <b>Wellbore:</b> | OH  | <b>Survey Calculation Method:</b>   | Minimum Curvature                             |
| <b>Design:</b>   | OH  | <b>Database:</b>                    | Casper District                               |

|                    |                           |                      |                |
|--------------------|---------------------------|----------------------|----------------|
| <b>Project</b>     | Weld County, CO NAD 83    |                      |                |
| <b>Map System:</b> | US State Plane 1983       | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | North American Datum 1983 |                      |                |
| <b>Map Zone:</b>   | Colorado Northern Zone    |                      |                |

| Site                  | Anschutz Equus Farms 4-62-28_27 NWSW Pad [GOOD], Site Center : Anschutz Equus Farms 4-62-28-3240C |              |                   |                   |                   |
|-----------------------|---|--------------|-------------------|-------------------|-------------------|
| Site Position:        |   | Northing:    | 1,347,562.98 usft | Latitude:         | 40° 16' 53.821 N  |
| From:                 | Lat/Long  | Easting:     | 3,324,530.53 usft | Longitude:        | 104° 20' 12.340 W |
| Position Uncertainty: | 0.00 ft   | Slot Radius: | 13.200 in         | Grid Convergence: | 0.75 °            |

|                      |  |         |                     |                   |               |                   |
|----------------------|--|---------|---------------------|-------------------|---------------|-------------------|
| Well                 | Anschutz Equus Farms 4-62-29-4148C, 2128' FSL 306' FWL Sec 28 T4N R62W |         |                     |                   |               |                   |
| Well Position        | +N/-S  | 0.00 ft | Northing:           | 1,347,514.94 usft | Latitude:     | 40° 16' 53.370 N  |
|                      | +E/-W  | 0.00 ft | Easting:            | 3,324,350.54 usft | Longitude:    | 104° 20' 14.670 W |
| Position Uncertainty |  | 0.00 ft | Wellhead Elevation: | 0.00 ft           | Ground Level: | 4,624.30 ft       |

| <b>Wellbore</b> | OH         |             |                 |               |                     |
|-----------------|------------|-------------|-----------------|---------------|---------------------|
| Magnetics       | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|                 | HDGM       | 4/28/2017   | 8.28            | 66.95         | 52,386              |
|                 | HDGM       | 6/28/2017   | 8.27            | 66.95         | 52,366              |
|                 | HDGM       | 8/16/2017   | 8.25            | 66.95         | 52,350              |

|                   |                          |               |               |                  |      |
|-------------------|--------------------------|---------------|---------------|------------------|------|
| Design            | OH                       |               |               |                  |      |
| Audit Notes:      |                          |               |               |                  |      |
| Version:          | 1.0                      | Phase:        | ACTUAL        | Tie On Depth:    | 0.00 |
| Vertical Section: | Depth From (TVD)<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Direction<br>(°) |      |
|                   | 0.00                     | 0.00          | 0.00          | 270.222          |      |

| <b>Survey Program</b> | <b>Date</b> | 8/28/2017                     |           |                     |
|-----------------------|-------------|-------------------------------|-----------|---------------------|
| From (ft)             | To (ft)     | Survey (Wellbore)             | Tool Name | Description         |
| 800.00                | 6,584.00    | Survey #1 - Intermediate (OH) | OWSG MWD  | OWSG MWD - Standard |
| 6,642.00              | 16,350.00   | Survey #2 - Lateral (OH)      | OWSG MWD  | OWSG MWD - Standard |

| <b>Survey</b>                  |                 |             |                     |            |            |                       |                       |                      |                     |
|--------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 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                |
| 800.00                         | 0.00            | 0.000       | 800.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| <b>Casing Assumed Vertical</b> |                 |             |                     |            |            |                       |                       |                      |                     |
| 879.00                         | 0.97            | 322.600     | 879.00              | 0.53       | -0.41      | 0.41                  | 1.23                  | 1.23                 | 0.00                |
| <b>First SDI MWD Survey</b>    |                 |             |                     |            |            |                       |                       |                      |                     |
| 970.00                         | 1.78            | 252.190     | 969.97              | 0.71       | -2.22      | 2.22                  | 1.89                  | 0.89                 | -77.37              |
| 1,061.00                       | 2.96            | 222.000     | 1,060.90            | -1.47      | -5.14      | 5.13                  | 1.85                  | 1.30                 | -33.18              |

|                  |   |                                     |   |
|------------------|---|-------------------------------------|---|
| <b>Company:</b>  | Bill Barrett Corp.                              | <b>Local Co-ordinate Reference:</b> | Well Anschutz Equus Farms 4-62-29-4148C       |
| <b>Project:</b>  | Weld County, CO NAD 83                          | <b>TVD Reference:</b>               | GL 4624.3' & KB 20' @ 4644.30ft (Savanna 802) |
| <b>Site:</b>     | Anschutz Equus Farms 4-62-28_27 NWSW Pad [GOOD] | <b>MD Reference:</b>                | GL 4624.3' & KB 20' @ 4644.30ft (Savanna 802) |
| <b>Well:</b>     | Anschutz Equus Farms 4-62-29-4148C              | <b>North Reference:</b>             | True  |
| <b>Wellbore:</b> | OH  | <b>Survey Calculation Method:</b>   | Minimum Curvature                             |
| <b>Design:</b>   | OH  | <b>Database:</b>                    | Casper District                               |

| 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) |
| 1,152.00            | 4.43            | 212.660     | 1,151.71            | -6.17      | -8.61      | 8.58                  | 1.74                  | 1.62                 | -10.26              |
| 1,243.00            | 5.76            | 210.590     | 1,242.35            | -13.06     | -12.83     | 12.78                 | 1.48                  | 1.46                 | -2.27               |
| 1,333.00            | 7.48            | 211.000     | 1,331.74            | -21.97     | -18.14     | 18.06                 | 1.91                  | 1.91                 | 0.46                |
| 1,424.00            | 9.07            | 215.600     | 1,421.79            | -32.88     | -25.37     | 25.24                 | 1.89                  | 1.75                 | 5.05                |
| 1,516.00            | 10.51           | 214.080     | 1,512.45            | -45.73     | -34.29     | 34.12                 | 1.59                  | 1.57                 | -1.65               |
| 1,608.00            | 12.07           | 206.370     | 1,602.67            | -61.30     | -43.27     | 43.03                 | 2.36                  | 1.70                 | -8.38               |
| 1,699.00            | 14.10           | 203.670     | 1,691.31            | -79.98     | -51.95     | 51.64                 | 2.33                  | 2.23                 | -2.97               |
| 1,790.00            | 14.83           | 204.400     | 1,779.42            | -100.74    | -61.21     | 60.82                 | 0.83                  | 0.80                 | 0.80                |
| 1,882.00            | 16.55           | 202.230     | 1,867.99            | -123.59    | -71.03     | 70.55                 | 1.98                  | 1.87                 | -2.36               |
| 1,973.00            | 18.21           | 201.600     | 1,954.83            | -148.81    | -81.17     | 80.59                 | 1.84                  | 1.82                 | -0.69               |
| 2,064.00            | 19.78           | 204.590     | 2,040.88            | -176.03    | -92.81     | 92.13                 | 2.03                  | 1.73                 | 3.29                |
| 2,156.00            | 20.13           | 207.090     | 2,127.36            | -204.28    | -106.50    | 105.70                | 1.00                  | 0.38                 | 2.72                |
| 2,247.00            | 19.56           | 202.470     | 2,212.96            | -232.30    | -119.45    | 118.55                | 1.83                  | -0.63                | -5.08               |
| 2,338.00            | 18.42           | 203.550     | 2,299.00            | -259.56    | -131.02    | 130.01                | 1.31                  | -1.25                | 1.19                |
| 2,433.00            | 17.83           | 207.220     | 2,389.29            | -286.25    | -143.67    | 142.56                | 1.35                  | -0.62                | 3.86                |
| 2,527.00            | 18.28           | 211.810     | 2,478.67            | -311.58    | -158.02    | 156.81                | 1.59                  | 0.48                 | 4.88                |
| 2,622.00            | 18.09           | 208.940     | 2,568.92            | -337.15    | -173.01    | 171.70                | 0.96                  | -0.20                | -3.02               |
| 2,715.00            | 18.44           | 208.180     | 2,657.24            | -362.75    | -186.95    | 185.54                | 0.46                  | 0.38                 | -0.82               |
| 2,809.00            | 17.27           | 209.030     | 2,746.71            | -388.05    | -200.74    | 199.23                | 1.28                  | -1.24                | 0.90                |
| 2,904.00            | 16.65           | 209.190     | 2,837.58            | -412.27    | -214.22    | 212.62                | 0.65                  | -0.65                | 0.17                |
| 2,997.00            | 14.07           | 205.530     | 2,927.25            | -434.10    | -225.59    | 223.91                | 2.96                  | -2.77                | -3.94               |
| 3,091.00            | 11.33           | 205.200     | 3,018.94            | -452.77    | -234.45    | 232.69                | 2.92                  | -2.91                | -0.35               |
| 3,186.00            | 10.23           | 204.830     | 3,112.26            | -468.87    | -241.96    | 240.15                | 1.16                  | -1.16                | -0.39               |
| 3,280.00            | 9.29            | 200.430     | 3,204.90            | -483.56    | -248.12    | 246.24                | 1.28                  | -1.00                | -4.68               |
| 3,374.00            | 8.43            | 208.760     | 3,297.78            | -496.71    | -254.08    | 252.16                | 1.64                  | -0.91                | 8.86                |
| 3,468.00            | 8.34            | 212.240     | 3,390.78            | -508.52    | -261.03    | 259.06                | 0.55                  | -0.10                | 3.70                |
| 3,562.00            | 7.75            | 205.360     | 3,483.86            | -520.01    | -267.39    | 265.37                | 1.20                  | -0.63                | -7.32               |
| 3,657.00            | 6.58            | 201.740     | 3,578.11            | -530.85    | -272.14    | 270.09                | 1.32                  | -1.23                | -3.81               |
| 3,751.00            | 5.81            | 202.480     | 3,671.56            | -540.25    | -275.96    | 273.86                | 0.82                  | -0.82                | 0.79                |
| 3,845.00            | 4.76            | 211.890     | 3,765.17            | -547.96    | -279.84    | 277.71                | 1.44                  | -1.12                | 10.01               |
| 3,938.00            | 3.46            | 218.480     | 3,857.92            | -553.43    | -283.62    | 281.48                | 1.48                  | -1.40                | 7.09                |
| 4,032.00            | 2.02            | 240.810     | 3,951.82            | -556.46    | -286.84    | 284.68                | 1.88                  | -1.53                | 23.76               |
| 4,126.00            | 2.02            | 244.160     | 4,045.76            | -557.99    | -289.77    | 287.61                | 0.13                  | 0.00                 | 3.56                |
| 4,220.00            | 1.31            | 218.920     | 4,139.72            | -559.55    | -291.94    | 289.77                | 1.07                  | -0.76                | -26.85              |
| 4,314.00            | 1.61            | 123.390     | 4,233.70            | -561.11    | -291.51    | 289.33                | 2.31                  | 0.32                 | -101.63             |
| 4,407.00            | 0.61            | 89.070      | 4,326.68            | -561.82    | -289.93    | 287.75                | 1.25                  | -1.08                | -36.90              |
| 4,500.00            | 0.92            | 17.260      | 4,419.68            | -561.10    | -289.21    | 287.03                | 1.00                  | 0.33                 | -77.22              |
| 4,595.00            | 0.67            | 0.790       | 4,514.67            | -559.82    | -288.97    | 286.80                | 0.35                  | -0.26                | -17.34              |
| 4,689.00            | 0.39            | 300.990     | 4,608.66            | -559.11    | -289.24    | 287.07                | 0.62                  | -0.30                | -63.62              |
| 4,783.00            | 0.41            | 284.670     | 4,702.66            | -558.86    | -289.84    | 287.67                | 0.12                  | 0.02                 | -17.36              |
| 4,877.00            | 0.46            | 257.570     | 4,796.66            | -558.85    | -290.53    | 288.37                | 0.22                  | 0.05                 | -28.83              |
| 4,971.00            | 0.30            | 234.800     | 4,890.66            | -559.08    | -291.10    | 288.94                | 0.23                  | -0.17                | -24.22              |
| 5,065.00            | 0.31            | 216.050     | 4,984.66            | -559.42    | -291.46    | 289.29                | 0.11                  | 0.01                 | -19.95              |

|                  |   |                                     |   |
|------------------|---|-------------------------------------|---|
| <b>Company:</b>  | Bill Barrett Corp.                              | <b>Local Co-ordinate Reference:</b> | Well Anschutz Equus Farms 4-62-29-4148C       |
| <b>Project:</b>  | Weld County, CO NAD 83                          | <b>TVD Reference:</b>               | GL 4624.3' & KB 20' @ 4644.30ft (Savanna 802) |
| <b>Site:</b>     | Anschutz Equus Farms 4-62-28_27 NWSW Pad [GOOD] | <b>MD Reference:</b>                | GL 4624.3' & KB 20' @ 4644.30ft (Savanna 802) |
| <b>Well:</b>     | Anschutz Equus Farms 4-62-29-4148C              | <b>North Reference:</b>             | True  |
| <b>Wellbore:</b> | OH  | <b>Survey Calculation Method:</b>   | Minimum Curvature                             |
| <b>Design:</b>   | OH  | <b>Database:</b>                    | Casper District                               |

| Survey                       |                    |                |                           |               |               |                             |                             |                            |                           |  |
|------------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|-----------------------------|----------------------------|---------------------------|--|
| Measured<br>Depth<br>(ft)    | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Vertical<br>Section<br>(ft) | Dogleg<br>Rate<br>(°/100ft) | Build<br>Rate<br>(°/100ft) | Turn<br>Rate<br>(°/100ft) |  |
| 5,159.00                     | 0.50               | 179.570        | 5,078.65                  | -560.04       | -291.60       | 289.43                      | 0.33                        | 0.20                       | -38.81                    |  |
| 5,252.00                     | 0.57               | 175.470        | 5,171.65                  | -560.91       | -291.56       | 289.39                      | 0.09                        | 0.08                       | -4.41                     |  |
| 5,346.00                     | 0.72               | 179.810        | 5,265.64                  | -561.96       | -291.52       | 289.34                      | 0.17                        | 0.16                       | 4.62                      |  |
| 5,440.00                     | 0.66               | 199.700        | 5,359.64                  | -563.06       | -291.70       | 289.52                      | 0.26                        | -0.06                      | 21.16                     |  |
| 5,534.00                     | 0.66               | 183.950        | 5,453.63                  | -564.11       | -291.92       | 289.74                      | 0.19                        | 0.00                       | -16.76                    |  |
| 5,628.00                     | 0.97               | 188.140        | 5,547.62                  | -565.44       | -292.07       | 289.88                      | 0.34                        | 0.33                       | 4.46                      |  |
| 5,721.00                     | 0.72               | 138.580        | 5,640.61                  | -566.66       | -291.80       | 289.60                      | 0.80                        | -0.27                      | -53.29                    |  |
| 5,815.00                     | 0.76               | 130.380        | 5,734.60                  | -567.50       | -290.93       | 288.73                      | 0.12                        | 0.04                       | -8.72                     |  |
| 5,909.00                     | 4.77               | 282.350        | 5,828.51                  | -567.07       | -294.28       | 292.08                      | 5.80                        | 4.27                       | 161.67                    |  |
| First SDI MWD Curve Survey   |                    |                |                           |               |               |                             |                             |                            |                           |  |
| 6,003.00                     | 12.28              | 284.270        | 5,921.40                  | -563.77       | -307.80       | 305.62                      | 7.99                        | 7.99                       | 2.04                      |  |
| 6,097.00                     | 19.87              | 280.210        | 6,011.66                  | -558.46       | -333.25       | 331.09                      | 8.16                        | 8.07                       | -4.32                     |  |
| 6,191.00                     | 32.50              | 272.470        | 6,095.87                  | -554.53       | -374.38       | 372.23                      | 13.89                       | 13.44                      | -8.23                     |  |
| 6,285.00                     | 46.51              | 267.310        | 6,168.24                  | -555.04       | -433.98       | 431.83                      | 15.30                       | 14.90                      | -5.49                     |  |
| 6,379.00                     | 58.64              | 267.320        | 6,225.26                  | -558.53       | -508.41       | 506.25                      | 12.90                       | 12.90                      | 0.01                      |  |
| 6,473.00                     | 70.41              | 268.700        | 6,265.62                  | -561.42       | -593.07       | 590.89                      | 12.59                       | 12.52                      | 1.47                      |  |
| 6,567.00                     | 80.78              | 268.290        | 6,288.97                  | -563.82       | -683.96       | 681.77                      | 11.04                       | 11.03                      | -0.44                     |  |
| 6,584.00                     | 82.32              | 268.520        | 6,291.47                  | -564.29       | -700.77       | 698.58                      | 9.16                        | 9.06                       | 1.35                      |  |
| Last SDI MWD Curve Survey    |                    |                |                           |               |               |                             |                             |                            |                           |  |
| 6,642.00                     | 88.29              | 267.500        | 6,296.21                  | -566.29       | -758.51       | 756.31                      | 10.44                       | 10.29                      | -1.76                     |  |
| First SDI MWD Lateral Survey |                    |                |                           |               |               |                             |                             |                            |                           |  |
| 6,644.00                     | 88.27              | 267.544        | 6,296.27                  | -566.38       | -760.51       | 758.31                      | 2.41                        | -0.94                      | 2.22                      |  |
| Casing Point                 |                    |                |                           |               |               |                             |                             |                            |                           |  |
| 6,674.00                     | 87.99              | 268.210        | 6,297.25                  | -567.49       | -790.47       | 788.27                      | 2.41                        | -0.94                      | 2.22                      |  |
| 6,768.00                     | 89.56              | 269.880        | 6,299.26                  | -569.06       | -884.43       | 882.22                      | 2.44                        | 1.67                       | 1.78                      |  |
| 6,861.00                     | 91.24              | 269.650        | 6,298.61                  | -569.44       | -977.43       | 975.21                      | 1.82                        | 1.81                       | -0.25                     |  |
| 6,956.00                     | 89.93              | 269.930        | 6,297.64                  | -569.79       | -1,072.42     | 1,070.20                    | 1.41                        | -1.38                      | 0.29                      |  |
| 7,050.00                     | 89.40              | 271.310        | 6,298.19                  | -568.77       | -1,166.41     | 1,164.20                    | 1.57                        | -0.56                      | 1.47                      |  |
| 7,143.00                     | 90.64              | 273.490        | 6,298.16                  | -564.88       | -1,259.32     | 1,257.12                    | 2.70                        | 1.33                       | 2.34                      |  |
| 7,237.00                     | 91.51              | 273.740        | 6,296.40                  | -558.95       | -1,353.12     | 1,350.94                    | 0.96                        | 0.93                       | 0.27                      |  |
| 7,331.00                     | 90.34              | 272.030        | 6,294.88                  | -554.22       | -1,446.98     | 1,444.82                    | 2.20                        | -1.24                      | -1.82                     |  |
| 7,425.00                     | 88.49              | 268.630        | 6,295.84                  | -553.68       | -1,540.95     | 1,538.80                    | 4.12                        | -1.97                      | -3.62                     |  |
| 7,518.00                     | 91.04              | 271.320        | 6,296.22                  | -553.72       | -1,633.94     | 1,631.78                    | 3.99                        | 2.74                       | 2.89                      |  |
| 7,612.00                     | 90.74              | 269.490        | 6,294.76                  | -553.05       | -1,727.92     | 1,725.76                    | 1.97                        | -0.32                      | -1.95                     |  |
| 7,706.00                     | 90.84              | 269.810        | 6,293.46                  | -553.63       | -1,821.91     | 1,819.75                    | 0.36                        | 0.11                       | 0.34                      |  |
| 7,801.00                     | 88.09              | 267.540        | 6,294.35                  | -555.82       | -1,916.86     | 1,914.70                    | 3.75                        | -2.89                      | -2.39                     |  |
| 7,894.00                     | 88.02              | 268.480        | 6,297.51                  | -559.05       | -2,009.75     | 2,007.57                    | 1.01                        | -0.08                      | 1.01                      |  |
| 7,988.00                     | 89.40              | 269.260        | 6,299.62                  | -560.91       | -2,103.71     | 2,101.52                    | 1.69                        | 1.47                       | 0.83                      |  |
| 8,082.00                     | 88.52              | 268.740        | 6,301.33                  | -562.55       | -2,197.68     | 2,195.48                    | 1.09                        | -0.94                      | -0.55                     |  |
| 8,177.00                     | 88.69              | 269.170        | 6,303.64                  | -564.28       | -2,292.63     | 2,290.43                    | 0.49                        | 0.18                       | 0.45                      |  |
| 8,271.00                     | 90.20              | 269.800        | 6,304.55                  | -565.12       | -2,386.62     | 2,384.41                    | 1.74                        | 1.61                       | 0.67                      |  |
| 8,364.00                     | 88.32              | 267.850        | 6,305.75                  | -567.03       | -2,479.59     | 2,477.37                    | 2.91                        | -2.02                      | -2.10                     |  |
| 8,459.00                     | 88.69              | 271.320        | 6,308.23                  | -567.72       | -2,574.54     | 2,572.32                    | 3.67                        | 0.39                       | 3.65                      |  |

|                  |   |                                     |   |
|------------------|---|-------------------------------------|---|
| <b>Company:</b>  | Bill Barrett Corp.                              | <b>Local Co-ordinate Reference:</b> | Well Anschutz Equus Farms 4-62-29-4148C       |
| <b>Project:</b>  | Weld County, CO NAD 83                          | <b>TVD Reference:</b>               | GL 4624.3' & KB 20' @ 4644.30ft (Savanna 802) |
| <b>Site:</b>     | Anschutz Equus Farms 4-62-28_27 NWSW Pad [GOOD] | <b>MD Reference:</b>                | GL 4624.3' & KB 20' @ 4644.30ft (Savanna 802) |
| <b>Well:</b>     | Anschutz Equus Farms 4-62-29-4148C              | <b>North Reference:</b>             | True  |
| <b>Wellbore:</b> | OH  | <b>Survey Calculation Method:</b>   | Minimum Curvature                             |
| <b>Design:</b>   | OH  | <b>Database:</b>                    | Casper District                               |

| 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) |
| 8,552.00            | 89.13           | 272.320     | 6,310.00            | -564.76    | -2,667.47  | 2,665.26              | 1.17                  | 0.47                 | 1.08                |
| 8,647.00            | 89.36           | 272.620     | 6,311.25            | -560.67    | -2,762.37  | 2,760.18              | 0.40                  | 0.24                 | 0.32                |
| 8,741.00            | 88.12           | 270.170     | 6,313.32            | -558.38    | -2,856.32  | 2,854.13              | 2.92                  | -1.32                | -2.61               |
| 8,835.00            | 90.30           | 270.800     | 6,314.62            | -557.59    | -2,950.30  | 2,948.11              | 2.41                  | 2.32                 | 0.67                |
| 8,930.00            | 89.53           | 271.310     | 6,314.76            | -555.84    | -3,045.28  | 3,043.10              | 0.97                  | -0.81                | 0.54                |
| 9,024.00            | 90.30           | 272.750     | 6,314.90            | -552.51    | -3,139.22  | 3,137.05              | 1.74                  | 0.82                 | 1.53                |
| 9,118.00            | 89.56           | 271.430     | 6,315.01            | -549.08    | -3,233.15  | 3,231.00              | 1.61                  | -0.79                | -1.40               |
| 9,211.00            | 87.62           | 269.510     | 6,317.30            | -548.32    | -3,326.11  | 3,323.96              | 2.93                  | -2.09                | -2.06               |
| 9,305.00            | 89.06           | 270.640     | 6,320.02            | -548.19    | -3,420.07  | 3,417.92              | 1.95                  | 1.53                 | 1.20                |
| 9,400.00            | 87.65           | 267.720     | 6,322.75            | -549.55    | -3,515.01  | 3,512.85              | 3.41                  | -1.48                | -3.07               |
| 9,494.00            | 88.99           | 269.100     | 6,325.51            | -552.16    | -3,608.93  | 3,606.76              | 2.05                  | 1.43                 | 1.47                |
| 9,588.00            | 89.23           | 269.790     | 6,326.97            | -553.07    | -3,702.91  | 3,700.74              | 0.78                  | 0.26                 | 0.73                |
| 9,682.00            | 89.43           | 267.200     | 6,328.07            | -555.54    | -3,796.86  | 3,794.68              | 2.76                  | 0.21                 | -2.76               |
| 9,776.00            | 89.83           | 265.460     | 6,328.67            | -561.55    | -3,890.66  | 3,888.46              | 1.90                  | 0.43                 | -1.85               |
| 9,871.00            | 89.73           | 264.940     | 6,329.04            | -569.50    | -3,985.33  | 3,983.09              | 0.56                  | -0.11                | -0.55               |
| 9,966.00            | 90.00           | 268.450     | 6,329.26            | -574.98    | -4,080.16  | 4,077.90              | 3.71                  | 0.28                 | 3.69                |
| 10,060.00           | 89.56           | 269.720     | 6,329.62            | -576.48    | -4,174.14  | 4,171.88              | 1.43                  | -0.47                | 1.35                |
| 10,154.00           | 90.03           | 271.090     | 6,329.96            | -575.81    | -4,268.14  | 4,265.87              | 1.54                  | 0.50                 | 1.46                |
| 10,248.00           | 89.60           | 271.870     | 6,330.26            | -573.39    | -4,362.10  | 4,359.85              | 0.95                  | -0.46                | 0.83                |
| 10,342.00           | 87.92           | 272.090     | 6,332.30            | -570.14    | -4,456.02  | 4,453.78              | 1.80                  | -1.79                | 0.23                |
| 10,433.00           | 87.05           | 272.510     | 6,336.29            | -566.49    | -4,546.86  | 4,544.63              | 1.06                  | -0.96                | 0.46                |
| 10,525.00           | 86.78           | 271.620     | 6,341.24            | -563.18    | -4,638.67  | 4,636.45              | 1.01                  | -0.29                | -0.97               |
| 10,616.00           | 87.32           | 271.830     | 6,345.93            | -560.44    | -4,729.50  | 4,727.30              | 0.64                  | 0.59                 | 0.23                |
| 10,707.00           | 89.26           | 271.520     | 6,348.64            | -557.79    | -4,820.42  | 4,818.22              | 2.16                  | 2.13                 | -0.34               |
| 10,798.00           | 89.06           | 271.230     | 6,349.98            | -555.60    | -4,911.38  | 4,909.19              | 0.39                  | -0.22                | -0.32               |
| 10,890.00           | 89.13           | 271.370     | 6,351.43            | -553.52    | -5,003.35  | 5,001.17              | 0.17                  | 0.08                 | 0.15                |
| 10,981.00           | 88.92           | 271.260     | 6,352.98            | -551.43    | -5,094.31  | 5,092.14              | 0.26                  | -0.23                | -0.12               |
| 11,072.00           | 89.87           | 270.970     | 6,353.94            | -549.66    | -5,185.29  | 5,183.12              | 1.09                  | 1.04                 | -0.32               |
| 11,162.00           | 89.97           | 270.220     | 6,354.06            | -548.72    | -5,275.28  | 5,273.12              | 0.84                  | 0.11                 | -0.83               |
| 11,253.00           | 88.96           | 270.210     | 6,354.91            | -548.38    | -5,366.28  | 5,364.11              | 1.11                  | -1.11                | -0.01               |
| 11,344.00           | 89.90           | 272.080     | 6,355.82            | -546.56    | -5,457.25  | 5,455.09              | 2.30                  | 1.03                 | 2.05                |
| 11,435.00           | 89.87           | 273.330     | 6,356.00            | -542.27    | -5,548.15  | 5,546.00              | 1.37                  | -0.03                | 1.37                |
| 11,526.00           | 87.85           | 270.890     | 6,357.81            | -538.92    | -5,639.05  | 5,636.92              | 3.48                  | -2.22                | -2.68               |
| 11,617.00           | 88.59           | 270.300     | 6,360.64            | -537.97    | -5,730.00  | 5,727.88              | 1.04                  | 0.81                 | -0.65               |
| 11,709.00           | 88.26           | 269.830     | 6,363.17            | -537.87    | -5,821.97  | 5,819.84              | 0.62                  | -0.36                | -0.51               |
| 11,801.00           | 89.63           | 269.560     | 6,364.86            | -538.36    | -5,913.95  | 5,911.82              | 1.52                  | 1.49                 | -0.29               |
| 11,892.00           | 88.99           | 270.270     | 6,365.96            | -538.49    | -6,004.94  | 6,002.81              | 1.05                  | -0.70                | 0.78                |
| 11,983.00           | 89.23           | 271.000     | 6,367.37            | -537.49    | -6,095.92  | 6,093.80              | 0.84                  | 0.26                 | 0.80                |
| 12,075.00           | 88.42           | 270.110     | 6,369.26            | -536.59    | -6,187.90  | 6,185.77              | 1.31                  | -0.88                | -0.97               |
| 12,165.00           | 89.36           | 269.740     | 6,371.00            | -536.71    | -6,277.88  | 6,275.75              | 1.12                  | 1.04                 | -0.41               |
| 12,257.00           | 89.33           | 269.850     | 6,372.05            | -537.04    | -6,369.87  | 6,367.75              | 0.12                  | -0.03                | 0.12                |
| 12,348.00           | 89.40           | 270.050     | 6,373.06            | -537.12    | -6,460.87  | 6,458.74              | 0.23                  | 0.08                 | 0.22                |
| 12,439.00           | 89.23           | 270.050     | 6,374.15            | -537.04    | -6,551.86  | 6,549.73              | 0.19                  | -0.19                | 0.00                |

|                  |   |                                     |   |
|------------------|---|-------------------------------------|---|
| <b>Company:</b>  | Bill Barrett Corp.                              | <b>Local Co-ordinate Reference:</b> | Well Anschutz Equus Farms 4-62-29-4148C       |
| <b>Project:</b>  | Weld County, CO NAD 83                          | <b>TVD Reference:</b>               | GL 4624.3' & KB 20' @ 4644.30ft (Savanna 802) |
| <b>Site:</b>     | Anschutz Equus Farms 4-62-28_27 NWSW Pad [GOOD] | <b>MD Reference:</b>                | GL 4624.3' & KB 20' @ 4644.30ft (Savanna 802) |
| <b>Well:</b>     | Anschutz Equus Farms 4-62-29-4148C              | <b>North Reference:</b>             | True  |
| <b>Wellbore:</b> | OH  | <b>Survey Calculation Method:</b>   | Minimum Curvature                             |
| <b>Design:</b>   | OH  | <b>Database:</b>                    | Casper District                               |

| 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) |
| 12,531.00           | 90.50           | 272.920     | 6,374.37            | -534.66    | -6,643.82  | 6,641.70              | 3.41                  | 1.38                 | 3.12                |
| 12,622.00           | 88.99           | 270.240     | 6,374.77            | -532.15    | -6,734.77  | 6,732.66              | 3.38                  | -1.66                | -2.95               |
| 12,713.00           | 90.07           | 272.830     | 6,375.52            | -529.71    | -6,825.73  | 6,823.63              | 3.08                  | 1.19                 | 2.85                |
| 12,804.00           | 89.36           | 270.950     | 6,375.97            | -526.71    | -6,916.67  | 6,914.58              | 2.21                  | -0.78                | -2.07               |
| 12,895.00           | 89.30           | 271.560     | 6,377.03            | -524.72    | -7,007.64  | 7,005.56              | 0.67                  | -0.07                | 0.67                |
| 12,986.00           | 88.29           | 269.780     | 6,378.95            | -523.65    | -7,098.61  | 7,096.53              | 2.25                  | -1.11                | -1.96               |
| 13,077.00           | 88.22           | 269.070     | 6,381.72            | -524.57    | -7,189.57  | 7,187.48              | 0.78                  | -0.08                | -0.78               |
| 13,169.00           | 87.99           | 269.130     | 6,384.76            | -526.01    | -7,281.50  | 7,279.41              | 0.26                  | -0.25                | 0.07                |
| 13,260.00           | 88.89           | 268.960     | 6,387.24            | -527.53    | -7,372.46  | 7,370.36              | 1.01                  | 0.99                 | -0.19               |
| 13,351.00           | 88.86           | 268.320     | 6,389.03            | -529.69    | -7,463.41  | 7,461.31              | 0.70                  | -0.03                | -0.70               |
| 13,442.00           | 89.83           | 267.530     | 6,390.07            | -532.98    | -7,554.35  | 7,552.22              | 1.37                  | 1.07                 | -0.87               |
| 13,533.00           | 89.26           | 266.230     | 6,390.79            | -537.93    | -7,645.21  | 7,643.06              | 1.56                  | -0.63                | -1.43               |
| 13,624.00           | 89.50           | 267.040     | 6,391.77            | -543.27    | -7,736.04  | 7,733.88              | 0.93                  | 0.26                 | 0.89                |
| 13,715.00           | 90.80           | 268.490     | 6,391.53            | -546.82    | -7,826.97  | 7,824.79              | 2.14                  | 1.43                 | 1.59                |
| 13,806.00           | 90.97           | 269.690     | 6,390.13            | -548.27    | -7,917.95  | 7,915.76              | 1.33                  | 0.19                 | 1.32                |
| 13,898.00           | 90.17           | 270.550     | 6,389.21            | -548.08    | -8,009.94  | 8,007.76              | 1.28                  | -0.87                | 0.93                |
| 13,989.00           | 88.99           | 268.340     | 6,389.88            | -548.96    | -8,100.92  | 8,098.74              | 2.75                  | -1.30                | -2.43               |
| 14,081.00           | 89.46           | 270.250     | 6,391.13            | -550.09    | -8,192.91  | 8,190.71              | 2.14                  | 0.51                 | 2.08                |
| 14,172.00           | 89.03           | 269.710     | 6,392.32            | -550.12    | -8,283.90  | 8,281.70              | 0.76                  | -0.47                | -0.59               |
| 14,264.00           | 89.30           | 269.930     | 6,393.67            | -550.41    | -8,375.89  | 8,373.69              | 0.38                  | 0.29                 | 0.24                |
| 14,355.00           | 89.36           | 270.530     | 6,394.73            | -550.04    | -8,466.88  | 8,464.68              | 0.66                  | 0.07                 | 0.66                |
| 14,447.00           | 90.07           | 271.290     | 6,395.19            | -548.58    | -8,558.86  | 8,556.68              | 1.13                  | 0.77                 | 0.83                |
| 14,539.00           | 90.13           | 270.650     | 6,395.03            | -547.03    | -8,650.85  | 8,648.67              | 0.70                  | 0.07                 | -0.70               |
| 14,630.00           | 90.17           | 270.170     | 6,394.79            | -546.37    | -8,741.85  | 8,739.67              | 0.53                  | 0.04                 | -0.53               |
| 14,721.00           | 90.57           | 271.350     | 6,394.20            | -545.17    | -8,832.84  | 8,830.66              | 1.37                  | 0.44                 | 1.30                |
| 14,812.00           | 90.40           | 271.550     | 6,393.43            | -542.86    | -8,923.80  | 8,921.63              | 0.29                  | -0.19                | 0.22                |
| 14,904.00           | 90.34           | 271.070     | 6,392.84            | -540.76    | -9,015.78  | 9,013.61              | 0.53                  | -0.07                | -0.52               |
| 14,995.00           | 90.37           | 270.170     | 6,392.27            | -539.78    | -9,106.77  | 9,104.61              | 0.99                  | 0.03                 | -0.99               |
| 15,086.00           | 88.86           | 270.250     | 6,392.88            | -539.44    | -9,197.76  | 9,195.61              | 1.66                  | -1.66                | 0.09                |
| 15,178.00           | 88.62           | 269.610     | 6,394.91            | -539.56    | -9,289.74  | 9,287.58              | 0.74                  | -0.26                | -0.70               |
| 15,269.00           | 89.50           | 270.840     | 6,396.40            | -539.20    | -9,380.73  | 9,378.57              | 1.66                  | 0.97                 | 1.35                |
| 15,360.00           | 89.80           | 271.220     | 6,396.96            | -537.56    | -9,471.71  | 9,469.56              | 0.53                  | 0.33                 | 0.42                |
| 15,451.00           | 88.96           | 268.610     | 6,397.94            | -537.70    | -9,562.70  | 9,560.54              | 3.01                  | -0.92                | -2.87               |
| 15,543.00           | 89.93           | 270.120     | 6,398.83            | -538.72    | -9,654.68  | 9,652.52              | 1.95                  | 1.05                 | 1.64                |
| 15,635.00           | 89.83           | 269.550     | 6,399.02            | -538.98    | -9,746.68  | 9,744.52              | 0.63                  | -0.11                | -0.62               |
| 15,726.00           | 89.70           | 269.210     | 6,399.40            | -539.97    | -9,837.67  | 9,835.51              | 0.40                  | -0.14                | -0.37               |
| 15,820.00           | 89.46           | 271.650     | 6,400.09            | -539.26    | -9,931.66  | 9,929.50              | 2.61                  | -0.26                | 2.60                |
| 15,914.00           | 89.83           | 271.730     | 6,400.67            | -536.49    | -10,025.62 | 10,023.47             | 0.40                  | 0.39                 | 0.09                |
| 16,008.00           | 90.50           | 273.190     | 6,400.40            | -532.45    | -10,119.53 | 10,117.39             | 1.71                  | 0.71                 | 1.55                |
| 16,103.00           | 90.67           | 274.660     | 6,399.43            | -525.95    | -10,214.30 | 10,212.18             | 1.56                  | 0.18                 | 1.55                |
| 16,198.00           | 88.79           | 275.790     | 6,399.88            | -517.30    | -10,308.90 | 10,306.82             | 2.31                  | -1.98                | 1.19                |
| 16,293.00           | 88.05           | 275.550     | 6,402.50            | -507.92    | -10,403.40 | 10,401.35             | 0.82                  | -0.78                | -0.25               |

|                  |   |                                     |   |
|------------------|---|-------------------------------------|---|
| <b>Company:</b>  | Bill Barrett Corp.                              | <b>Local Co-ordinate Reference:</b> | Well Anschutz Equus Farms 4-62-29-4148C       |
| <b>Project:</b>  | Weld County, CO NAD 83                          | <b>TVD Reference:</b>               | GL 4624.3' & KB 20' @ 4644.30ft (Savanna 802) |
| <b>Site:</b>     | Anschutz Equus Farms 4-62-28_27 NWSW Pad [GOOD] | <b>MD Reference:</b>                | GL 4624.3' & KB 20' @ 4644.30ft (Savanna 802) |
| <b>Well:</b>     | Anschutz Equus Farms 4-62-29-4148C              | <b>North Reference:</b>             | True  |
| <b>Wellbore:</b> | OH  | <b>Survey Calculation Method:</b>   | Minimum Curvature                             |
| <b>Design:</b>   | OH  | <b>Database:</b>                    | Casper District                               |

| 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) |
| <b>Last SDI MWD Survey</b> |                 |             |                     |            |            |                       |                       |                      |                     |
| 16,350.00                  | 88.05           | 275.550     | 6,404.44            | -502.41    | -10,460.10 | 10,458.07             | 0.00                  | 0.00                 | 0.00                |
| <b>Projection to TD</b>    |                 |             |                     |            |            |                       |                       |                      |                     |

| Design Annotations  |                     |                   |            |                              |
|---------------------|---------------------|-------------------|------------|------------------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates |            | Comment                      |
|                     |                     | +N/-S (ft)        | +E/-W (ft) |                              |
| 800.00              | 800.00              | 0.00              | 0.00       | Casing Assumed Vertical      |
| 879.00              | 879.00              | 0.53              | -0.41      | First SDI MWD Survey         |
| 5,909.00            | 5,828.51            | -567.07           | -294.28    | First SDI MWD Curve Survey   |
| 6,584.00            | 6,291.47            | -564.29           | -700.77    | Last SDI MWD Curve Survey    |
| 6,642.00            | 6,296.21            | -566.29           | -758.51    | First SDI MWD Lateral Survey |
| 6,644.00            | 6,296.27            | -566.38           | -760.51    | Casing Point                 |
| 16,293.00           | 6,402.50            | -507.92           | -10,403.40 | Last SDI MWD Survey          |
| 16,350.00           | 6,404.44            | -502.41           | -10,460.10 | Projection to TD             |

|                   |                    |             |
|-------------------|--------------------|-------------|
| Checked By: _____ | Approved By: _____ | Date: _____ |
|-------------------|--------------------|-------------|