



Project: Weld County, CO NAD 83
Site: Anschutz Equus Farms 4-62-28_27 NWSW Pad [GOOD]
Well: Anschutz Equus Farms 4-62-28-4841C
Wellbore: OH
Design: OH

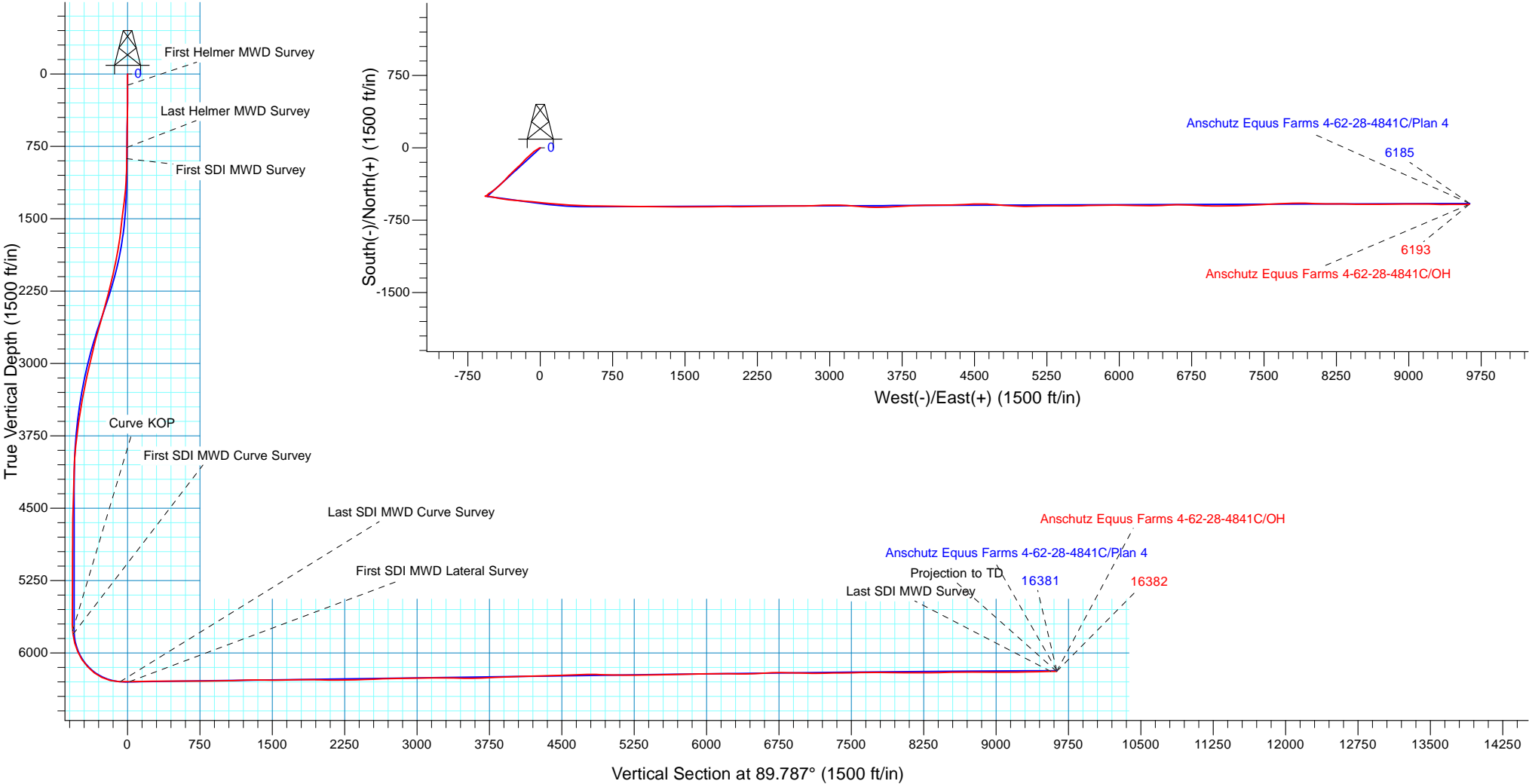


| WELL DETAILS: Anschutz Equus Farms 4-62-28-4841C | | | |
|--|------------|------------------|-------------------|
| GL 4624.3' & KB 20' @ 4644.30ft (Savanna 802) | 4624.30 | | |
| Northing | Easting | Latitude | Longitude |
| 1347532.35 | 3324530.93 | 40° 16' 53.518 N | 104° 20' 12.340 W |

| | |
|--|-----------------|
| Design: OH (Anschutz Equus Farms 4-62-28-4841C/OH) | |
| Created By: Seth Burstad | Date: 3-12-2018 |

| 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 | Annotation | |
| 117.00 | 117.00 | 0.20 | 340.800 | 0.19 | -0.07 | -0.07 | 0.20 | First Helmer MWD Survey | |
| 762.90 | 763.00 | 1.20 | 222.400 | -6.27 | -5.97 | -5.99 | 10.19 | Last Helmer MWD Survey | |
| 877.88 | 878.00 | 1.62 | 308.040 | -6.16 | -8.06 | -8.09 | 13.02 | First SDI MWD Survey | |
| 5773.96 | 5876.00 | 4.92 | 92.142 | -502.55 | -567.56 | -569.43 | 775.84 | Curve KOP | |
| 5806.76 | 5909.00 | 7.39 | 91.120 | -502.65 | -564.03 | -565.89 | 778.09 | First SDI MWD Curve Survey | |
| 6299.24 | 6670.00 | 88.15 | 95.280 | -561.21 | -74.07 | -76.15 | 1272.17 | Last SDI MWD Curve Survey | |
| 6299.44 | 6766.00 | 91.61 | 95.530 | -570.25 | 21.49 | 19.37 | 1368.15 | First SDI MWD Lateral Survey | |
| 6192.87 | 16321.00 | 90.03 | 88.040 | -586.44 | 9568.23 | 9565.99 | 10920.55 | Last SDI MWD Survey | |
| 6192.83 | 16382.00 | 90.03 | 88.040 | -584.35 | 9629.20 | 9626.96 | 10981.55 | 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 4-62-28-4841C

OH

Design: OH

Standard Survey Report

12 March, 2018



Scientific Drilling

www.scientificdrilling.com



| | | | |
|------------------|---|-------------------------------------|---|
| Company: | Bill Barrett Corp. | Local Co-ordinate Reference: | Well Anschutz Equus Farms 4-62-28-4841C |
| Project: | Weld County, CO NAD 83 | TVD Reference: | GL 4624.3' & KB 20' @ 4644.30ft (Savanna 802) |
| Site: | Anschutz Equus Farms 4-62-28_27 NWSW Pad [GOOD] | MD Reference: | GL 4624.3' & KB 20' @ 4644.30ft (Savanna 802) |
| Well: | Anschutz Equus Farms 4-62-28-4841C | North Reference: | True |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | OH | Database: | Casper District |

| | | | |
|--------------------|---------------------------|----------------------|----------------|
| 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 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 4-62-28-4841C, 2140' FSL 486' FWL Sec 28 T4N R62W | | | | | |
| Well Position | +N/-S | 0.00 ft | Northing: | 1,347,532.35 usft | Latitude: | 40° 16' 53.518 N |
| | +E/-W | 0.00 ft | Easting: | 3,324,530.94 usft | Longitude: | 104° 20' 12.340 W |
| Position Uncertainty | | 0.00 ft | Wellhead Elevation: | 0.00 ft | Ground Level: | 4,624.30 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | OH | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | BGGM2016 | 4/18/2017 | 8.14 | 66.86 | 52,417 |
| | HDGM | 6/28/2017 | 8.27 | 66.95 | 52,366 |

| | | | | | |
|--------------------------|------------------------------|-------------------|-------------------|----------------------|------|
| Design | OH | | | | |
| Audit Notes: | | | | | |
| Version: | 1.0 | Phase: | ACTUAL | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) | |
| | 0.00 | 0.00 | 0.00 | 89.787 | |

| | | | | | |
|-----------------------|----------------|-------------------------------|------------------|---------------------|--|
| Survey Program | Date | 3/12/2018 | | | |
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description | |
| 117.00 | 763.00 | Survey #1 - Surface (OH) | OWSG MWD | OWSG MWD - Standard | |
| 878.00 | 6,670.00 | Survey #2 - Intermediate (OH) | OWSG MWD | OWSG MWD - Standard | |
| 6,766.00 | 16,382.00 | Survey #3 - Lateral (OH) | OWSG MWD | OWSG MWD - Standard | |

| | | | | | | | | | | |
|--------------------------------|------------------------|--------------------|----------------------------|-------------------|-------------------|------------------------------|------------------------------|-----------------------------|----------------------------|--|
| 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 | |
| 117.00 | 0.20 | 340.800 | 117.00 | 0.19 | -0.07 | -0.07 | 0.17 | 0.17 | 0.00 | |
| First Helmer MWD Survey | | | | | | | | | | |
| 212.00 | 0.30 | 5.800 | 212.00 | 0.60 | -0.10 | -0.09 | 0.15 | 0.11 | 26.32 | |
| 307.00 | 0.50 | 231.900 | 307.00 | 0.59 | -0.40 | -0.40 | 0.78 | 0.21 | -140.95 | |
| 402.00 | 0.80 | 228.000 | 401.99 | -0.11 | -1.22 | -1.22 | 0.32 | 0.32 | -4.11 | |
| 498.00 | 1.10 | 225.300 | 497.98 | -1.21 | -2.37 | -2.37 | 0.32 | 0.31 | -2.81 | |

| | | | |
|------------------|---|-------------------------------------|---|
| Company: | Bill Barrett Corp. | Local Co-ordinate Reference: | Well Anschutz Equus Farms 4-62-28-4841C |
| Project: | Weld County, CO NAD 83 | TVD Reference: | GL 4624.3' & KB 20' @ 4644.30ft (Savanna 802) |
| Site: | Anschutz Equus Farms 4-62-28_27 NWSW Pad [GOOD] | MD Reference: | GL 4624.3' & KB 20' @ 4644.30ft (Savanna 802) |
| Well: | Anschutz Equus Farms 4-62-28-4841C | North Reference: | True |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | OH | Database: | 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) |
| 593.00 | 1.40 | 214.300 | 592.96 | -2.81 | -3.67 | -3.68 | 0.40 | 0.32 | -11.58 |
| 688.00 | 1.50 | 210.100 | 687.93 | -4.84 | -4.95 | -4.97 | 0.15 | 0.11 | -4.42 |
| 763.00 | 1.20 | 222.400 | 762.90 | -6.27 | -5.97 | -5.99 | 0.55 | -0.40 | 16.40 |
| Last Helmer MWD Survey | | | | | | | | | |
| 878.00 | 1.62 | 308.040 | 877.88 | -6.16 | -8.06 | -8.09 | 1.69 | 0.37 | 74.47 |
| First SDI MWD Survey | | | | | | | | | |
| 969.00 | 1.29 | 299.460 | 968.85 | -4.86 | -9.97 | -9.99 | 0.43 | -0.36 | -9.43 |
| 1,060.00 | 2.81 | 245.630 | 1,059.80 | -5.28 | -12.89 | -12.91 | 2.53 | 1.67 | -59.15 |
| 1,152.00 | 4.91 | 230.770 | 1,151.58 | -8.70 | -18.00 | -18.03 | 2.51 | 2.28 | -16.15 |
| 1,243.00 | 6.75 | 236.190 | 1,242.11 | -14.14 | -25.46 | -25.51 | 2.11 | 2.02 | 5.96 |
| 1,334.00 | 8.32 | 238.780 | 1,332.32 | -20.53 | -35.53 | -35.61 | 1.76 | 1.73 | 2.85 |
| 1,425.00 | 8.66 | 240.330 | 1,422.33 | -27.33 | -47.12 | -47.22 | 0.45 | 0.37 | 1.70 |
| 1,517.00 | 7.67 | 238.160 | 1,513.39 | -34.00 | -58.35 | -58.48 | 1.13 | -1.08 | -2.36 |
| 1,608.00 | 8.53 | 230.210 | 1,603.49 | -41.52 | -68.70 | -68.85 | 1.55 | 0.95 | -8.74 |
| 1,699.00 | 11.00 | 225.710 | 1,693.16 | -51.91 | -80.10 | -80.29 | 2.84 | 2.71 | -4.95 |
| 1,791.00 | 12.13 | 226.550 | 1,783.29 | -64.68 | -93.40 | -93.64 | 1.24 | 1.23 | 0.91 |
| 1,881.00 | 13.50 | 227.700 | 1,871.05 | -78.26 | -108.03 | -108.32 | 1.55 | 1.52 | 1.28 |
| 1,973.00 | 15.35 | 227.340 | 1,960.14 | -93.74 | -124.93 | -125.28 | 2.01 | 2.01 | -0.39 |
| 2,065.00 | 17.11 | 227.550 | 2,048.47 | -111.12 | -143.87 | -144.29 | 1.91 | 1.91 | 0.23 |
| 2,156.00 | 18.21 | 222.200 | 2,135.19 | -130.69 | -163.31 | -163.79 | 2.15 | 1.21 | -5.88 |
| 2,247.00 | 20.18 | 223.770 | 2,221.13 | -152.57 | -183.72 | -184.28 | 2.24 | 2.16 | 1.73 |
| 2,338.00 | 20.70 | 224.960 | 2,306.40 | -175.28 | -205.94 | -206.59 | 0.73 | 0.57 | 1.31 |
| 2,432.00 | 21.30 | 227.480 | 2,394.16 | -198.58 | -230.26 | -231.00 | 1.15 | 0.64 | 2.68 |
| 2,525.00 | 21.16 | 226.010 | 2,480.85 | -221.65 | -254.79 | -255.61 | 0.59 | -0.15 | -1.58 |
| 2,619.00 | 20.92 | 226.190 | 2,568.58 | -245.05 | -279.11 | -280.01 | 0.26 | -0.26 | 0.19 |
| 2,713.00 | 20.90 | 225.750 | 2,656.39 | -268.37 | -303.23 | -304.22 | 0.17 | -0.02 | -0.47 |
| 2,807.00 | 20.62 | 224.750 | 2,744.29 | -291.82 | -326.89 | -327.97 | 0.48 | -0.30 | -1.06 |
| 2,902.00 | 19.79 | 221.990 | 2,833.44 | -315.66 | -349.43 | -350.60 | 1.33 | -0.87 | -2.91 |
| 2,996.00 | 19.38 | 223.920 | 2,922.00 | -338.72 | -370.89 | -372.15 | 0.81 | -0.44 | 2.05 |
| 3,090.00 | 18.75 | 222.900 | 3,010.85 | -361.02 | -391.99 | -393.33 | 0.76 | -0.67 | -1.09 |
| 3,184.00 | 17.17 | 226.930 | 3,100.27 | -381.56 | -412.41 | -413.83 | 2.14 | -1.68 | 4.29 |
| 3,277.00 | 15.02 | 229.380 | 3,189.62 | -398.79 | -431.59 | -433.07 | 2.42 | -2.31 | 2.63 |
| 3,371.00 | 13.70 | 231.050 | 3,280.68 | -413.71 | -449.50 | -451.03 | 1.47 | -1.40 | 1.78 |
| 3,465.00 | 13.41 | 230.090 | 3,372.06 | -427.70 | -466.51 | -468.10 | 0.39 | -0.31 | -1.02 |
| 3,559.00 | 11.94 | 233.800 | 3,463.77 | -440.44 | -482.72 | -484.36 | 1.79 | -1.56 | 3.95 |
| 3,653.00 | 10.75 | 235.480 | 3,555.93 | -451.15 | -497.79 | -499.47 | 1.31 | -1.27 | 1.79 |
| 3,747.00 | 9.21 | 237.480 | 3,648.51 | -460.17 | -511.36 | -513.07 | 1.68 | -1.64 | 2.13 |
| 3,841.00 | 8.02 | 239.870 | 3,741.44 | -467.50 | -523.37 | -525.11 | 1.32 | -1.27 | 2.54 |
| 3,936.00 | 7.31 | 231.860 | 3,835.60 | -474.56 | -533.86 | -535.62 | 1.35 | -0.75 | -8.43 |
| 4,029.00 | 6.32 | 223.280 | 3,927.94 | -481.94 | -542.02 | -543.81 | 1.52 | -1.06 | -9.23 |
| 4,123.00 | 4.45 | 216.440 | 4,021.52 | -488.64 | -547.74 | -549.55 | 2.10 | -1.99 | -7.28 |
| 4,217.00 | 2.66 | 206.450 | 4,115.34 | -493.53 | -550.87 | -552.71 | 2.01 | -1.90 | -10.63 |
| 4,311.00 | 1.81 | 253.440 | 4,209.27 | -495.91 | -553.27 | -555.11 | 2.07 | -0.90 | 49.99 |

| | | | |
|------------------|---|-------------------------------------|---|
| Company: | Bill Barrett Corp. | Local Co-ordinate Reference: | Well Anschutz Equus Farms 4-62-28-4841C |
| Project: | Weld County, CO NAD 83 | TVD Reference: | GL 4624.3' & KB 20' @ 4644.30ft (Savanna 802) |
| Site: | Anschutz Equus Farms 4-62-28_27 NWSW Pad [GOOD] | MD Reference: | GL 4624.3' & KB 20' @ 4644.30ft (Savanna 802) |
| Well: | Anschutz Equus Farms 4-62-28-4841C | North Reference: | True |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | OH | Database: | 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) |
| 4,405.00 | 2.12 | 260.920 | 4,303.22 | -496.60 | -556.41 | -558.25 | 0.43 | 0.33 | 7.96 |
| 4,499.00 | 2.14 | 264.780 | 4,397.15 | -497.04 | -559.87 | -561.72 | 0.15 | 0.02 | 4.11 |
| 4,594.00 | 2.09 | 262.870 | 4,492.09 | -497.41 | -563.36 | -565.20 | 0.09 | -0.05 | -2.01 |
| 4,688.00 | 0.48 | 215.700 | 4,586.06 | -497.95 | -565.29 | -567.14 | 1.91 | -1.71 | -50.18 |
| 4,782.00 | 0.10 | 257.990 | 4,680.06 | -498.28 | -565.60 | -567.45 | 0.44 | -0.40 | 44.99 |
| 4,876.00 | 0.42 | 235.010 | 4,774.06 | -498.50 | -565.96 | -567.81 | 0.35 | 0.34 | -24.45 |
| 4,970.00 | 0.51 | 239.280 | 4,868.06 | -498.91 | -566.60 | -568.45 | 0.10 | 0.10 | 4.54 |
| 5,064.00 | 0.44 | 271.230 | 4,962.06 | -499.12 | -567.32 | -569.18 | 0.29 | -0.07 | 33.99 |
| 5,157.00 | 0.22 | 244.210 | 5,055.05 | -499.19 | -567.84 | -569.69 | 0.28 | -0.24 | -29.05 |
| 5,251.00 | 0.34 | 187.790 | 5,149.05 | -499.54 | -568.04 | -569.90 | 0.30 | 0.13 | -60.02 |
| 5,345.00 | 0.39 | 226.460 | 5,243.05 | -500.04 | -568.31 | -570.17 | 0.26 | 0.05 | 41.14 |
| 5,440.00 | 0.57 | 221.720 | 5,338.05 | -500.61 | -568.86 | -570.72 | 0.19 | 0.19 | -4.99 |
| 5,534.00 | 0.65 | 245.960 | 5,432.04 | -501.18 | -569.66 | -571.52 | 0.28 | 0.09 | 25.79 |
| 5,627.00 | 0.37 | 236.020 | 5,525.04 | -501.56 | -570.39 | -572.25 | 0.31 | -0.30 | -10.69 |
| 5,721.00 | 0.23 | 177.960 | 5,619.04 | -501.92 | -570.63 | -572.50 | 0.34 | -0.15 | -61.77 |
| 5,815.00 | 0.42 | 127.470 | 5,713.04 | -502.32 | -570.35 | -572.22 | 0.35 | 0.20 | -53.71 |
| 5,876.00 | 4.92 | 92.142 | 5,773.96 | -502.55 | -567.56 | -569.43 | 7.51 | 7.37 | -57.91 |
| Curve KOP | | | | | | | | | |
| 5,909.00 | 7.39 | 91.120 | 5,806.76 | -502.65 | -564.03 | -565.89 | 7.51 | 7.50 | -3.10 |
| 6,003.00 | 15.81 | 91.890 | 5,898.76 | -503.19 | -545.15 | -547.02 | 8.96 | 8.96 | 0.82 |
| 6,097.00 | 23.23 | 101.870 | 5,987.32 | -507.43 | -514.16 | -516.04 | 8.63 | 7.89 | 10.62 |
| 6,191.00 | 34.15 | 100.770 | 6,069.66 | -516.20 | -469.97 | -471.88 | 11.63 | 11.62 | -1.17 |
| 6,285.00 | 43.26 | 100.060 | 6,142.93 | -526.78 | -412.21 | -414.17 | 9.70 | 9.69 | -0.76 |
| 6,378.00 | 52.39 | 96.860 | 6,205.32 | -536.77 | -344.11 | -346.10 | 10.14 | 9.82 | -3.44 |
| 6,471.00 | 63.88 | 95.830 | 6,254.33 | -545.44 | -265.73 | -267.76 | 12.39 | 12.35 | -1.11 |
| 6,565.00 | 76.94 | 93.640 | 6,285.78 | -552.66 | -177.67 | -179.72 | 14.06 | 13.89 | -2.33 |
| 6,659.00 | 87.14 | 95.600 | 6,298.79 | -560.17 | -85.01 | -87.09 | 11.05 | 10.85 | 2.09 |
| 6,670.00 | 88.15 | 95.280 | 6,299.24 | -561.21 | -74.07 | -76.15 | 9.63 | 9.18 | -2.91 |
| Last SDI MWD Curve Survey | | | | | | | | | |
| 6,766.00 | 91.61 | 95.530 | 6,299.44 | -570.25 | 21.49 | 19.37 | 3.61 | 3.60 | 0.26 |
| First SDI MWD Lateral Survey | | | | | | | | | |
| 6,860.00 | 91.44 | 95.090 | 6,296.94 | -578.95 | 115.06 | 112.90 | 0.50 | -0.18 | -0.47 |
| 6,953.00 | 91.44 | 94.920 | 6,294.60 | -587.06 | 207.67 | 205.49 | 0.18 | 0.00 | -0.18 |
| 7,048.00 | 90.60 | 92.800 | 6,292.91 | -593.46 | 302.43 | 300.23 | 2.40 | -0.88 | -2.23 |
| 7,142.00 | 90.23 | 92.570 | 6,292.23 | -597.86 | 396.33 | 394.10 | 0.46 | -0.39 | -0.24 |
| 7,236.00 | 89.83 | 91.730 | 6,292.18 | -601.38 | 490.26 | 488.02 | 0.99 | -0.43 | -0.89 |
| 7,329.00 | 89.70 | 90.700 | 6,292.56 | -603.36 | 583.24 | 580.99 | 1.12 | -0.14 | -1.11 |
| 7,422.00 | 90.57 | 90.930 | 6,292.34 | -604.68 | 676.23 | 673.98 | 0.97 | 0.94 | 0.25 |
| 7,516.00 | 90.47 | 90.240 | 6,291.49 | -605.64 | 770.22 | 767.96 | 0.74 | -0.11 | -0.73 |
| 7,609.00 | 90.27 | 90.350 | 6,290.89 | -606.12 | 863.22 | 860.96 | 0.25 | -0.22 | 0.12 |
| 7,703.00 | 89.70 | 90.780 | 6,290.91 | -607.05 | 957.21 | 954.95 | 0.76 | -0.61 | 0.46 |
| 7,797.00 | 91.85 | 91.370 | 6,289.64 | -608.81 | 1,051.18 | 1,048.91 | 2.37 | 2.29 | 0.63 |
| 7,891.00 | 92.48 | 90.910 | 6,286.09 | -610.68 | 1,145.09 | 1,142.81 | 0.83 | 0.67 | -0.49 |

| | | | |
|------------------|---|-------------------------------------|---|
| Company: | Bill Barrett Corp. | Local Co-ordinate Reference: | Well Anschutz Equus Farms 4-62-28-4841C |
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| Site: | Anschutz Equus Farms 4-62-28_27 NWSW Pad [GOOD] | MD Reference: | GL 4624.3' & KB 20' @ 4644.30ft (Savanna 802) |
| Well: | Anschutz Equus Farms 4-62-28-4841C | North Reference: | True |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | OH | Database: | 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) |
| 7,985.00 | 91.68 | 90.950 | 6,282.68 | -612.20 | 1,239.02 | 1,236.73 | 0.85 | -0.85 | 0.04 |
| 8,080.00 | 89.83 | 90.210 | 6,281.43 | -613.16 | 1,334.00 | 1,331.71 | 2.10 | -1.95 | -0.78 |
| 8,173.00 | 89.13 | 90.140 | 6,282.27 | -613.45 | 1,427.00 | 1,424.70 | 0.76 | -0.75 | -0.08 |
| 8,267.00 | 89.36 | 89.510 | 6,283.51 | -613.16 | 1,520.99 | 1,518.70 | 0.71 | 0.24 | -0.67 |
| 8,361.00 | 91.91 | 89.160 | 6,282.47 | -612.07 | 1,614.97 | 1,612.68 | 2.74 | 2.71 | -0.37 |
| 8,454.00 | 91.44 | 89.530 | 6,279.75 | -611.01 | 1,707.92 | 1,705.64 | 0.64 | -0.51 | 0.40 |
| 8,549.00 | 90.50 | 87.910 | 6,278.14 | -608.88 | 1,802.88 | 1,800.60 | 1.97 | -0.99 | -1.71 |
| 8,643.00 | 89.77 | 90.170 | 6,277.92 | -607.31 | 1,896.86 | 1,894.59 | 2.53 | -0.78 | 2.40 |
| 8,737.00 | 88.16 | 93.310 | 6,279.62 | -610.16 | 1,990.78 | 1,988.50 | 3.75 | -1.71 | 3.34 |
| 8,830.00 | 88.66 | 87.950 | 6,282.20 | -611.18 | 2,083.71 | 2,081.42 | 5.79 | 0.54 | -5.76 |
| 8,924.00 | 91.07 | 89.920 | 6,282.42 | -609.44 | 2,177.68 | 2,175.40 | 3.31 | 2.56 | 2.10 |
| 9,018.00 | 90.84 | 88.590 | 6,280.85 | -608.22 | 2,271.66 | 2,269.38 | 1.44 | -0.24 | -1.41 |
| 9,112.00 | 91.58 | 89.430 | 6,278.87 | -606.59 | 2,365.62 | 2,363.35 | 1.19 | 0.79 | 0.89 |
| 9,206.00 | 91.51 | 88.380 | 6,276.33 | -604.80 | 2,459.57 | 2,457.30 | 1.12 | -0.07 | -1.12 |
| 9,300.00 | 92.41 | 90.140 | 6,273.12 | -603.58 | 2,553.50 | 2,551.24 | 2.10 | 0.96 | 1.87 |
| 9,393.00 | 92.58 | 90.540 | 6,269.07 | -604.13 | 2,646.41 | 2,644.15 | 0.47 | 0.18 | 0.43 |
| 9,487.00 | 91.98 | 89.000 | 6,265.33 | -603.76 | 2,740.33 | 2,738.07 | 1.76 | -0.64 | -1.64 |
| 9,581.00 | 90.03 | 86.320 | 6,263.68 | -599.92 | 2,834.23 | 2,831.98 | 3.53 | -2.07 | -2.85 |
| 9,675.00 | 90.84 | 88.690 | 6,262.97 | -595.83 | 2,928.13 | 2,925.89 | 2.66 | 0.86 | 2.52 |
| 9,768.00 | 90.84 | 89.960 | 6,261.61 | -594.73 | 3,021.11 | 3,018.88 | 1.37 | 0.00 | 1.37 |
| 9,862.00 | 90.37 | 90.770 | 6,260.61 | -595.33 | 3,115.10 | 3,112.87 | 1.00 | -0.50 | 0.86 |
| 9,956.00 | 90.44 | 94.580 | 6,259.95 | -599.72 | 3,208.98 | 3,206.73 | 4.05 | 0.07 | 4.05 |
| 10,049.00 | 90.23 | 95.390 | 6,259.40 | -607.80 | 3,301.62 | 3,299.34 | 0.90 | -0.23 | 0.87 |
| 10,143.00 | 88.29 | 92.960 | 6,260.62 | -614.64 | 3,395.36 | 3,393.05 | 3.31 | -2.06 | -2.59 |
| 10,237.00 | 89.20 | 90.220 | 6,262.68 | -617.25 | 3,489.29 | 3,486.97 | 3.07 | 0.97 | -2.91 |
| 10,331.00 | 90.70 | 87.310 | 6,262.76 | -615.22 | 3,583.25 | 3,580.94 | 3.48 | 1.60 | -3.10 |
| 10,422.00 | 91.71 | 87.220 | 6,260.85 | -610.88 | 3,674.13 | 3,671.83 | 1.11 | 1.11 | -0.10 |
| 10,513.00 | 92.15 | 86.260 | 6,257.78 | -605.71 | 3,764.93 | 3,762.65 | 1.16 | 0.48 | -1.05 |
| 10,604.00 | 92.45 | 87.130 | 6,254.13 | -600.47 | 3,855.70 | 3,853.44 | 1.01 | 0.33 | 0.96 |
| 10,696.00 | 93.83 | 88.060 | 6,249.09 | -596.61 | 3,947.48 | 3,945.23 | 1.81 | 1.50 | 1.01 |
| 10,787.00 | 92.41 | 89.690 | 6,244.14 | -594.83 | 4,038.32 | 4,036.08 | 2.37 | -1.56 | 1.79 |
| 10,878.00 | 91.41 | 90.280 | 6,241.10 | -594.80 | 4,129.27 | 4,127.03 | 1.28 | -1.10 | 0.65 |
| 10,969.00 | 91.01 | 88.850 | 6,239.18 | -594.11 | 4,220.24 | 4,218.01 | 1.63 | -0.44 | -1.57 |
| 11,059.00 | 90.10 | 87.450 | 6,238.31 | -591.21 | 4,310.19 | 4,307.96 | 1.86 | -1.01 | -1.56 |
| 11,150.00 | 91.84 | 87.700 | 6,236.77 | -587.36 | 4,401.09 | 4,398.88 | 1.93 | 1.91 | 0.27 |
| 11,241.00 | 92.48 | 88.350 | 6,233.34 | -584.22 | 4,491.97 | 4,489.77 | 1.00 | 0.70 | 0.71 |
| 11,333.00 | 92.72 | 90.500 | 6,229.17 | -583.30 | 4,583.87 | 4,581.67 | 2.35 | 0.26 | 2.34 |
| 11,424.00 | 90.77 | 93.370 | 6,226.39 | -586.37 | 4,674.76 | 4,672.55 | 3.81 | -2.14 | 3.15 |
| 11,515.00 | 92.21 | 95.050 | 6,224.03 | -593.05 | 4,765.48 | 4,763.24 | 2.43 | 1.58 | 1.85 |
| 11,606.00 | 88.69 | 94.070 | 6,223.31 | -600.28 | 4,856.17 | 4,853.91 | 4.02 | -3.87 | -1.08 |
| 11,698.00 | 87.62 | 92.550 | 6,226.28 | -605.59 | 4,947.97 | 4,945.68 | 2.02 | -1.16 | -1.65 |
| 11,789.00 | 88.36 | 89.660 | 6,229.47 | -607.35 | 5,038.88 | 5,036.59 | 3.28 | 0.81 | -3.18 |
| 11,880.00 | 89.80 | 88.890 | 6,230.93 | -606.20 | 5,129.86 | 5,127.57 | 1.79 | 1.58 | -0.85 |

| | | | |
|------------------|---|-------------------------------------|---|
| Company: | Bill Barrett Corp. | Local Co-ordinate Reference: | Well Anschutz Equus Farms 4-62-28-4841C |
| Project: | Weld County, CO NAD 83 | TVD Reference: | GL 4624.3' & KB 20' @ 4644.30ft (Savanna 802) |
| Site: | Anschutz Equus Farms 4-62-28_27 NWSW Pad [GOOD] | MD Reference: | GL 4624.3' & KB 20' @ 4644.30ft (Savanna 802) |
| Well: | Anschutz Equus Farms 4-62-28-4841C | North Reference: | True |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | OH | Database: | 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) |
| 11,972.00 | 89.83 | 88.530 | 6,231.23 | -604.12 | 5,221.84 | 5,219.55 | 0.39 | 0.03 | -0.39 |
| 12,063.00 | 90.87 | 88.240 | 6,230.67 | -601.56 | 5,312.80 | 5,310.52 | 1.19 | 1.14 | -0.32 |
| 12,154.00 | 91.71 | 91.430 | 6,228.62 | -601.30 | 5,403.76 | 5,401.49 | 3.62 | 0.92 | 3.51 |
| 12,246.00 | 90.84 | 90.450 | 6,226.57 | -602.81 | 5,495.72 | 5,493.45 | 1.42 | -0.95 | -1.07 |
| 12,337.00 | 89.93 | 88.090 | 6,225.96 | -601.65 | 5,586.71 | 5,584.43 | 2.78 | -1.00 | -2.59 |
| 12,428.00 | 91.41 | 88.920 | 6,224.90 | -599.27 | 5,677.67 | 5,675.40 | 1.86 | 1.63 | 0.91 |
| 12,520.00 | 91.61 | 89.160 | 6,222.47 | -597.73 | 5,769.62 | 5,767.36 | 0.34 | 0.22 | 0.26 |
| 12,611.00 | 91.34 | 88.470 | 6,220.13 | -595.85 | 5,860.57 | 5,858.32 | 0.81 | -0.30 | -0.76 |
| 12,702.00 | 91.88 | 90.030 | 6,217.57 | -594.66 | 5,951.53 | 5,949.27 | 1.81 | 0.59 | 1.71 |
| 12,794.00 | 90.07 | 90.720 | 6,216.01 | -595.26 | 6,043.51 | 6,041.25 | 2.11 | -1.97 | 0.75 |
| 12,885.00 | 89.93 | 92.070 | 6,216.01 | -597.48 | 6,134.48 | 6,132.21 | 1.49 | -0.15 | 1.48 |
| 12,976.00 | 89.23 | 91.850 | 6,216.68 | -600.59 | 6,225.42 | 6,223.14 | 0.81 | -0.77 | -0.24 |
| 13,067.00 | 90.07 | 88.600 | 6,217.23 | -600.95 | 6,316.40 | 6,314.13 | 3.69 | 0.92 | -3.57 |
| 13,159.00 | 89.56 | 87.260 | 6,217.53 | -597.62 | 6,408.34 | 6,406.08 | 1.56 | -0.55 | -1.46 |
| 13,250.00 | 92.65 | 88.040 | 6,215.77 | -593.89 | 6,499.24 | 6,496.98 | 3.50 | 3.40 | 0.86 |
| 13,341.00 | 93.59 | 88.650 | 6,210.82 | -591.27 | 6,590.06 | 6,587.82 | 1.23 | 1.03 | 0.67 |
| 13,432.00 | 92.98 | 92.250 | 6,205.61 | -591.98 | 6,680.89 | 6,678.65 | 4.01 | -0.67 | 3.96 |
| 13,523.00 | 89.03 | 92.730 | 6,204.01 | -595.94 | 6,771.78 | 6,769.51 | 4.37 | -4.34 | 0.53 |
| 13,614.00 | 87.65 | 92.500 | 6,206.65 | -600.09 | 6,862.64 | 6,860.36 | 1.54 | -1.52 | -0.25 |
| 13,705.00 | 89.43 | 90.500 | 6,208.96 | -602.47 | 6,953.57 | 6,951.28 | 2.94 | 1.96 | -2.20 |
| 13,797.00 | 88.56 | 89.970 | 6,210.58 | -602.84 | 7,045.56 | 7,043.27 | 1.11 | -0.95 | -0.58 |
| 13,888.00 | 90.03 | 88.790 | 6,211.70 | -601.86 | 7,136.54 | 7,134.25 | 2.07 | 1.62 | -1.30 |
| 13,979.00 | 91.14 | 89.330 | 6,210.77 | -600.37 | 7,227.52 | 7,225.24 | 1.36 | 1.22 | 0.59 |
| 14,070.00 | 90.54 | 87.290 | 6,209.43 | -597.68 | 7,318.47 | 7,316.19 | 2.34 | -0.66 | -2.24 |
| 14,161.00 | 90.67 | 87.190 | 6,208.47 | -593.30 | 7,409.36 | 7,407.10 | 0.18 | 0.14 | -0.11 |
| 14,253.00 | 89.97 | 87.090 | 6,207.96 | -588.71 | 7,501.24 | 7,499.00 | 0.77 | -0.76 | -0.11 |
| 14,344.00 | 92.05 | 86.430 | 6,206.36 | -583.57 | 7,592.07 | 7,589.85 | 2.40 | 2.29 | -0.73 |
| 14,435.00 | 91.75 | 87.250 | 6,203.34 | -578.55 | 7,682.88 | 7,680.68 | 0.96 | -0.33 | 0.90 |
| 14,526.00 | 90.00 | 88.820 | 6,201.95 | -575.44 | 7,773.81 | 7,771.62 | 2.58 | -1.92 | 1.73 |
| 14,618.00 | 88.32 | 89.900 | 6,203.30 | -574.41 | 7,865.79 | 7,863.60 | 2.17 | -1.83 | 1.17 |
| 14,709.00 | 89.83 | 91.430 | 6,204.77 | -575.46 | 7,956.77 | 7,954.58 | 2.36 | 1.66 | 1.68 |
| 14,800.00 | 88.92 | 92.570 | 6,205.76 | -578.64 | 8,047.71 | 8,045.50 | 1.60 | -1.00 | 1.25 |
| 14,891.00 | 90.43 | 91.070 | 6,206.28 | -581.53 | 8,138.65 | 8,136.44 | 2.34 | 1.66 | -1.65 |
| 14,982.00 | 90.00 | 90.070 | 6,205.93 | -582.43 | 8,229.65 | 8,227.43 | 1.20 | -0.47 | -1.10 |
| 15,073.00 | 90.10 | 89.850 | 6,205.85 | -582.37 | 8,320.65 | 8,318.43 | 0.27 | 0.11 | -0.24 |
| 15,165.00 | 91.14 | 91.210 | 6,204.86 | -583.22 | 8,412.64 | 8,410.41 | 1.86 | 1.13 | 1.48 |
| 15,256.00 | 91.41 | 91.270 | 6,202.83 | -585.19 | 8,503.59 | 8,501.36 | 0.30 | 0.30 | 0.07 |
| 15,347.00 | 91.28 | 91.240 | 6,200.70 | -587.18 | 8,594.54 | 8,592.30 | 0.15 | -0.14 | -0.03 |
| 15,439.00 | 90.84 | 90.200 | 6,199.00 | -588.34 | 8,686.52 | 8,684.27 | 1.23 | -0.48 | -1.13 |
| 15,529.00 | 88.63 | 87.420 | 6,199.41 | -586.47 | 8,776.49 | 8,774.24 | 3.95 | -2.46 | -3.09 |
| 15,620.00 | 89.16 | 88.810 | 6,201.17 | -583.48 | 8,867.42 | 8,865.19 | 1.63 | 0.58 | 1.53 |
| 15,712.00 | 90.34 | 89.160 | 6,201.57 | -581.85 | 8,959.40 | 8,957.17 | 1.34 | 1.28 | 0.38 |

| | | | |
|------------------|---|-------------------------------------|---|
| Company: | Bill Barrett Corp. | Local Co-ordinate Reference: | Well Anschutz Equus Farms 4-62-28-4841C |
| Project: | Weld County, CO NAD 83 | TVD Reference: | GL 4624.3' & KB 20' @ 4644.30ft (Savanna 802) |
| Site: | Anschutz Equus Farms 4-62-28_27 NWSW Pad [GOOD] | MD Reference: | GL 4624.3' & KB 20' @ 4644.30ft (Savanna 802) |
| Well: | Anschutz Equus Farms 4-62-28-4841C | North Reference: | True |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | OH | Database: | 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) | |
| 15,803.00 | 90.34 | 91.180 | 6,201.03 | -582.12 | 9,050.39 | 9,048.17 | 2.22 | 0.00 | 2.22 | |
| 15,896.00 | 91.15 | 91.670 | 6,199.82 | -584.43 | 9,143.36 | 9,141.12 | 1.02 | 0.87 | 0.53 | |
| 15,990.00 | 91.54 | 91.490 | 6,197.61 | -587.02 | 9,237.29 | 9,235.05 | 0.46 | 0.41 | -0.19 | |
| 16,083.00 | 90.07 | 89.370 | 6,196.31 | -587.72 | 9,330.27 | 9,328.02 | 2.77 | -1.58 | -2.28 | |
| 16,177.00 | 91.31 | 89.920 | 6,195.17 | -587.14 | 9,424.26 | 9,422.02 | 1.44 | 1.32 | 0.59 | |
| 16,270.00 | 90.98 | 90.190 | 6,193.32 | -587.23 | 9,517.24 | 9,515.00 | 0.46 | -0.35 | 0.29 | |
| 16,321.00 | 90.03 | 88.040 | 6,192.87 | -586.44 | 9,568.23 | 9,565.99 | 4.61 | -1.86 | -4.22 | |
| Last SDI MWD Survey | | | | | | | | | | |
| 16,382.00 | 90.03 | 88.040 | 6,192.83 | -584.35 | 9,629.20 | 9,626.96 | 0.00 | 0.00 | 0.00 | |
| Projection to TD | | | | | | | | | | |

| Design Annotations | | | | | |
|---------------------|---------------------|-------------------|------------|------------------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates | | Comment | |
| | | +N/-S (ft) | +E/-W (ft) | | |
| 117.00 | 117.00 | 0.19 | -0.07 | First Helmer MWD Survey | |
| 763.00 | 762.90 | -6.27 | -5.97 | Last Helmer MWD Survey | |
| 878.00 | 877.88 | -6.16 | -8.06 | First SDI MWD Survey | |
| 5,876.00 | 5,773.96 | -502.55 | -567.56 | Curve KOP | |
| 6,670.00 | 6,299.24 | -561.21 | -74.07 | Last SDI MWD Curve Survey | |
| 6,766.00 | 6,299.44 | -570.25 | 21.49 | First SDI MWD Lateral Survey | |
| 16,321.00 | 6,192.87 | -586.44 | 9,568.23 | Last SDI MWD Survey | |
| 16,382.00 | 6,192.83 | -584.35 | 9,629.20 | Projection to TD | |

Checked By: _____ Approved By: _____ Date: _____