



**Ingot Unit 2H**  
**Tyler County WV**  
 Northing: 14326538.68  
 Easting: 1680245.67  
 As Drilled



To convert Magnetic North to Grid, Subtract 8.55°  
 To convert True North to Grid, Subtract 0.09°

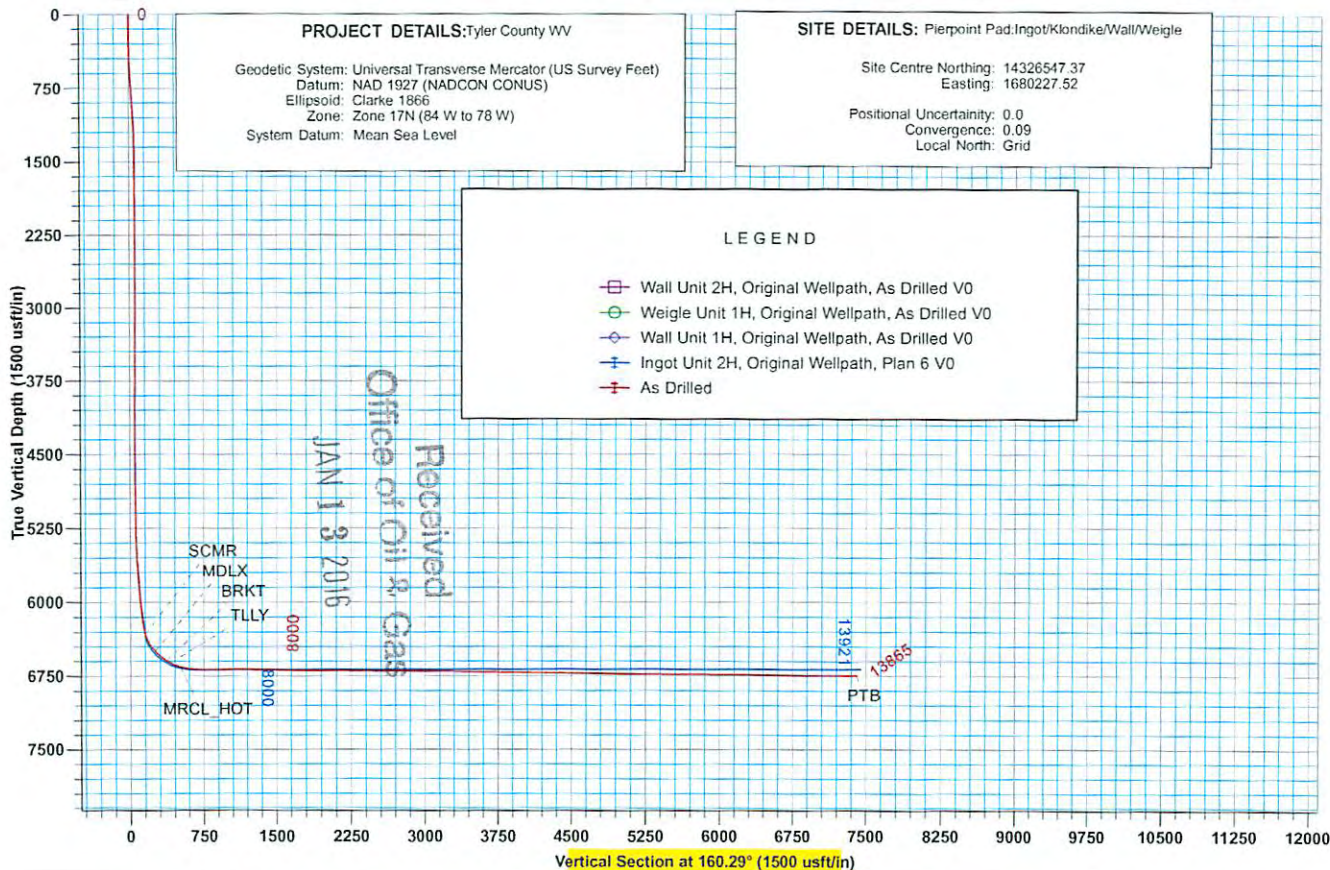
Azimuths to Grid North  
 True North: -0.09°  
 Magnetic North: -8.55°

Magnetic Field  
 Strength: 52293.0snT  
 Dip Angle: 66.97°  
 Date: 11/19/2014  
 Model: BGGM2014

Precision 525: GL 1201' + 19 @ 1220.0usft  
 Gr: 1201.0

| WELL DETAILS |       | Ingot Unit 2H |            |                 |                  |
|--------------|-------|---------------|------------|-----------------|------------------|
| +N/-S        | +E/-W | Northing      | Easting    | Latitude        | Longitude        |
| 0.0          | 0.0   | 14326538.68   | 1680245.67 | 39° 27' 7.190 N | 80° 51' 32.056 W |

Genie Lightfoot  
 8:31, June 10 2015  
 Scientific Drilling  
 421 South Eagle Lane  
 Oklahoma City, OK 73128

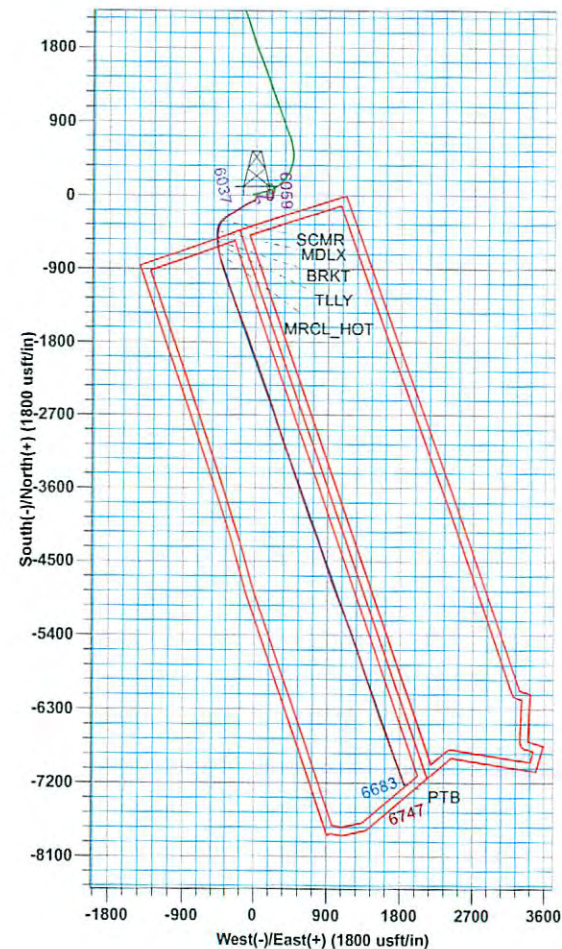


**PROJECT DETAILS: Tyler County WV**  
 Geodetic System: Universal Transverse Mercator (US Survey Feet)  
 Datum: NAD 1927 (NADCON CONUS)  
 Ellipsoid: Clarke 1866  
 Zone: Zone 17N (84 W to 78 W)  
 System Datum: Mean Sea Level

**SITE DETAILS: Pierpoint Pad: Ingot/Klondike/Wall/Weigle**  
 Site Centre Northing: 14326547.37  
 Easting: 1680227.52  
 Positional Uncertainty: 0.0  
 Convergence: 0.09  
 Local North: Grid

**LEGEND**

- Wall Unit 2H, Original Wellpath, As Drilled V0
- Weigle Unit 1H, Original Wellpath, As Drilled V0
- Wall Unit 1H, Original Wellpath, As Drilled V0
- Ingot Unit 2H, Original Wellpath, Plan 6 V0
- As Drilled





# Antero

Tyler County WV  
Pierpoint Pad: Ingot/Klondike/Wall/Weigle  
Ingot Unit 2H  
Original Wellpath

Design: As Drilled

## EOW Completion Report

09 June, 2015

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02/12/2016





|                  |  |                                     |   |
|------------------|--|-------------------------------------|---|
| <b>Company:</b>  | Antero                                   | <b>Local Co-ordinate Reference:</b> | Well Ingot Unit 2H                        |
| <b>Project:</b>  | Tyler County WV                          | <b>TVD Reference:</b>               | Precision 525: GL 1201' + 19 @ 1220.0usft |
| <b>Site:</b>     | Pierpoint Pad:Ingot/Klondike/Wall/Weigle | <b>MD Reference:</b>                | Precision 525: GL 1201' + 19 @ 1220.0usft |
| <b>Well:</b>     | Ingot Unit 2H                            | <b>North Reference:</b>             | Grid                                      |
| <b>Wellbore:</b> | Original Wellpath                        | <b>Survey Calculation Method:</b>   | Minimum Curvature                         |
| <b>Design:</b>   | As Drilled                               | <b>Database:</b>                    | Oklahoma District                         |

|                    |  |                      |                |
|--------------------|--|----------------------|----------------|
| <b>Project</b>     | Tyler County WV, Tyler Co West Virginia        |                      |                |
| <b>Map System:</b> | Universal Transverse Mercator (US Survey Feet) | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | NAD 1927 (NADCON CONUS)                        |                      |                |
| <b>Map Zone:</b>   | Zone 17N (84 W to 78 W)                        |                      |                |

|                              |  |                     |                    |                          |                  |
|------------------------------|--|---------------------|--------------------|--------------------------|------------------|
| <b>Site</b>                  | Pierpoint Pad:Ingot/Klondike/Wall/Weigle |                     |                    |                          |                  |
| <b>Site Position:</b>        |  | <b>Northing:</b>    | 14,326,547.37 usft | <b>Latitude:</b>         | 39° 27' 7.276 N  |
| <b>From:</b>                 | Map                                      | <b>Easting:</b>     | 1,680,227.52 usft  | <b>Longitude:</b>        | 80° 51' 32.288 W |
| <b>Position Uncertainty:</b> | 0.0 usft                                 | <b>Slot Radius:</b> | 13-3/16"           | <b>Grid Convergence:</b> | 0.09 °           |

|                             |                          |          |                            |                    |                      |                  |
|-----------------------------|--------------------------|----------|----------------------------|--------------------|----------------------|------------------|
| <b>Well</b>                 | Ingot Unit 2H, Marcellus |          |                            |                    |                      |                  |
| <b>Well Position</b>        | <b>+N/-S</b>             | 0.0 usft | <b>Northing:</b>           | 14,326,538.68 usft | <b>Latitude:</b>     | 39° 27' 7.190 N  |
|                             | <b>+E/-W</b>             | 0.0 usft | <b>Easting:</b>            | 1,680,245.67 usft  | <b>Longitude:</b>    | 80° 51' 32.056 W |
| <b>Position Uncertainty</b> | 2.0 usft                 |          | <b>Wellhead Elevation:</b> | 1,220.0 usft       | <b>Ground Level:</b> | 1,201.0 usft     |

|                 |                   |  |  |  |  |
|-----------------|-------------------|--|--|--|--|
| <b>Wellbore</b> | Original Wellpath |  |  |  |  |
|-----------------|-------------------|--|--|--|--|

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|-----------|------------|-------------|-----------------|---------------|---------------------|
|           | BGGM2014   | 11/19/2014  | -8.46           | 66.97         | 52,293              |

|               |            |  |  |  |  |
|---------------|------------|--|--|--|--|
| <b>Design</b> | As Drilled |  |  |  |  |
|---------------|------------|--|--|--|--|

|                          |     |                                |                     |                      |                      |
|--------------------------|-----|--------------------------------|---------------------|----------------------|----------------------|
| <b>Audit Notes:</b>      |     |                                |                     |                      |                      |
| <b>Version:</b>          | 1.0 | <b>Phase:</b>                  | ACTUAL              | <b>Tie On Depth:</b> | 0.0                  |
| <b>Vertical Section:</b> |     | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b>  | <b>Direction (°)</b> |
|                          |     | 0.0                            | 0.0                 | 0.0                  | 160.29               |

| Survey Program |           | Date                                     |                     |                                    |  |
|----------------|-----------|--|---------------------|------------------------------------|--|
| From (usft)    | To (usft) | Survey (Wellbore)                        | Tool Name           | Description                        |  |
| 106.3          | 6,106.0   | Survey #8 Final Gyro to KOP (Original We | Standard Keeper 104 | Standard Wireline Keeper ver 1.0.4 |  |
| 6,174.0        | 13,865.0  | Survey #9 SDI MWD (Original Wellpath)    | MWD SDI             | MWD - Standard ver 1.0.1           |  |

| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | N/S (usft) | E/W (usft) | V. Sec (usft) | DLeg (°/100usft) |
|-----------|---------|-------------------|------------|------------|------------|---------------|------------------|
| 0.0       | 0.00    | 0.00              | 0.0        | 0.0        | 0.0        | 0.0           | 0.00             |
| 106.3     | 0.17    | 152.45            | 106.3      | -0.1       | 0.1        | 0.2           | 0.16             |
| 129.7     | 0.36    | 141.53            | 129.7      | -0.2       | 0.1        | 0.3           | 0.84             |
| 154.3     | 0.30    | 130.90            | 154.3      | -0.3       | 0.2        | 0.4           | 0.35             |
| 180.3     | 0.21    | 124.95            | 180.3      | -0.4       | 0.3        | 0.5           | 0.36             |
| 204.6     | 0.17    | 133.14            | 204.6      | -0.5       | 0.4        | 0.6           | 0.20             |
| 230.9     | 0.30    | 142.77            | 230.9      | -0.5       | 0.5        | 0.7           | 0.51             |
| 255.4     | 0.27    | 136.83            | 255.4      | -0.6       | 0.5        | 0.8           | 0.17             |
| 279.7     | 0.32    | 128.91            | 279.7      | -0.7       | 0.6        | 0.9           | 0.27             |
| 304.0     | 0.31    | 129.25            | 304.0      | -0.8       | 0.7        | 1.0           | 0.04             |
| 330.5     | 0.31    | 112.43            | 330.5      | -0.9       | 0.9        | 1.1           | 0.34             |

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|                  |  |                                     |   |
|------------------|--|-------------------------------------|---|
| <b>Company:</b>  | Antero                                   | <b>Local Co-ordinate Reference:</b> | Well Ingot Unit 2H                        |
| <b>Project:</b>  | Tyler County WV                          | <b>TVD Reference:</b>               | Precision 525: GL 1201' + 19 @ 1220.0usft |
| <b>Site:</b>     | Pierpoint Pad:Ingot/Klondike/Wall/Weigle | <b>MD Reference:</b>                | Precision 525: GL 1201' + 19 @ 1220.0usft |
| <b>Well:</b>     | Ingot Unit 2H                            | <b>North Reference:</b>             | Grid                                      |
| <b>Wellbore:</b> | Original Wellpath                        | <b>Survey Calculation Method:</b>   | Minimum Curvature                         |
| <b>Design:</b>   | As Drilled                               | <b>Database:</b>                    | Oklahoma District                         |

| Survey    |         |                   |            |            |            |               |                  |  |  |  |
|-----------|---------|-------------------|------------|------------|------------|---------------|------------------|--|--|--|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | N/S (usft) | E/W (usft) | V. Sec (usft) | DLeg (°/100usft) |  |  |  |
| 354.9     | 0.47    | 138.74            | 354.9      | -1.0       | 1.0        | 1.2           | 0.97             |  |  |  |
| 404.9     | 0.44    | 156.40            | 404.9      | -1.3       | 1.2        | 1.6           | 0.29             |  |  |  |
| 430.0     | 0.71    | 176.52            | 430.0      | -1.5       | 1.2        | 1.9           | 1.33             |  |  |  |
| 455.0     | 1.12    | 183.68            | 455.0      | -1.9       | 1.2        | 2.2           | 1.70             |  |  |  |
| 480.0     | 1.55    | 186.87            | 480.0      | -2.5       | 1.2        | 2.8           | 1.75             |  |  |  |
| 505.0     | 2.05    | 189.11            | 505.0      | -3.3       | 1.1        | 3.5           | 2.02             |  |  |  |
| 530.0     | 2.82    | 190.01            | 529.9      | -4.3       | 0.9        | 4.4           | 3.09             |  |  |  |
| 555.0     | 3.69    | 191.38            | 554.9      | -5.7       | 0.6        | 5.6           | 3.49             |  |  |  |
| 580.0     | 4.24    | 193.42            | 579.8      | -7.4       | 0.2        | 7.1           | 2.27             |  |  |  |
| 605.5     | 4.52    | 193.04            | 605.2      | -9.3       | -0.2       | 8.7           | 1.10             |  |  |  |
| 630.5     | 4.81    | 193.53            | 630.2      | -11.3      | -0.7       | 10.4          | 1.17             |  |  |  |
| 655.5     | 5.17    | 194.67            | 655.0      | -13.4      | -1.2       | 12.2          | 1.50             |  |  |  |
| 678.9     | 5.39    | 195.09            | 678.4      | -15.5      | -1.7       | 14.0          | 0.95             |  |  |  |
| 703.8     | 5.50    | 195.46            | 703.2      | -17.8      | -2.4       | 15.9          | 0.46             |  |  |  |
| 728.4     | 5.67    | 195.31            | 727.7      | -20.1      | -3.0       | 17.9          | 0.69             |  |  |  |
| 756.0     | 5.71    | 195.39            | 755.1      | -22.7      | -3.7       | 20.1          | 0.15             |  |  |  |
| 780.7     | 5.75    | 195.32            | 779.8      | -25.1      | -4.4       | 22.2          | 0.16             |  |  |  |
| 805.5     | 5.79    | 195.49            | 804.4      | -27.5      | -5.0       | 24.2          | 0.18             |  |  |  |
| 830.2     | 5.76    | 195.31            | 828.9      | -29.9      | -5.7       | 26.2          | 0.14             |  |  |  |
| 854.5     | 5.77    | 195.50            | 853.1      | -32.2      | -6.4       | 28.2          | 0.09             |  |  |  |
| 878.8     | 5.21    | 196.67            | 877.3      | -34.5      | -7.0       | 30.1          | 2.35             |  |  |  |
| 905.6     | 4.76    | 196.59            | 904.0      | -36.7      | -7.7       | 32.0          | 1.68             |  |  |  |
| 929.9     | 4.58    | 195.65            | 928.3      | -38.6      | -8.2       | 33.6          | 0.80             |  |  |  |
| 955.1     | 4.53    | 197.54            | 953.3      | -40.5      | -8.8       | 35.2          | 0.63             |  |  |  |
| 979.9     | 4.03    | 200.54            | 978.1      | -42.3      | -9.4       | 36.6          | 2.21             |  |  |  |
| 1,003.6   | 4.00    | 198.08            | 1,001.7    | -43.8      | -9.9       | 37.9          | 0.74             |  |  |  |
| 1,031.0   | 3.90    | 198.48            | 1,029.0    | -45.6      | -10.5      | 39.4          | 0.38             |  |  |  |
| 1,055.3   | 3.70    | 197.37            | 1,053.3    | -47.2      | -11.0      | 40.7          | 0.88             |  |  |  |
| 1,079.4   | 3.51    | 197.71            | 1,077.4    | -48.6      | -11.5      | 41.9          | 0.79             |  |  |  |
| 1,103.7   | 3.33    | 198.23            | 1,101.7    | -50.0      | -11.9      | 43.0          | 0.75             |  |  |  |
| 1,130.5   | 3.10    | 197.88            | 1,128.4    | -51.4      | -12.4      | 44.2          | 0.86             |  |  |  |
| 1,154.8   | 2.90    | 197.81            | 1,152.6    | -52.6      | -12.8      | 45.2          | 0.83             |  |  |  |
| 1,179.0   | 2.76    | 198.13            | 1,176.8    | -53.8      | -13.2      | 46.2          | 0.58             |  |  |  |
| 1,205.8   | 2.57    | 193.75            | 1,203.6    | -55.0      | -13.5      | 47.2          | 1.04             |  |  |  |
| 1,230.2   | 2.27    | 192.65            | 1,227.9    | -56.0      | -13.7      | 48.1          | 1.25             |  |  |  |
| 1,254.2   | 2.20    | 187.65            | 1,252.0    | -56.9      | -13.9      | 48.9          | 0.86             |  |  |  |
| 1,278.5   | 1.89    | 191.10            | 1,276.3    | -57.7      | -14.0      | 49.6          | 1.37             |  |  |  |
| 1,305.4   | 1.65    | 197.12            | 1,303.1    | -58.6      | -14.2      | 50.3          | 1.13             |  |  |  |
| 1,329.6   | 1.43    | 198.32            | 1,327.3    | -59.2      | -14.4      | 50.8          | 0.92             |  |  |  |
| 1,353.8   | 1.38    | 200.67            | 1,351.5    | -59.7      | -14.6      | 51.3          | 0.32             |  |  |  |
| 1,380.5   | 1.10    | 200.71            | 1,378.2    | -60.3      | -14.8      | 51.7          | 1.05             |  |  |  |
| 1,404.9   | 1.15    | 197.29            | 1,402.6    | -60.7      | -15.0      | 52.1          | 0.34             |  |  |  |
| 1,429.0   | 1.08    | 200.41            | 1,426.7    | -61.2      | -15.1      | 52.5          | 0.38             |  |  |  |
| 1,455.8   | 0.92    | 196.82            | 1,453.5    | -61.6      | -15.3      | 52.8          | 0.64             |  |  |  |

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|------------------|--|-------------------------------------|---|
| <b>Company:</b>  | Antero                                   | <b>Local Co-ordinate Reference:</b> | Well Ingot Unit 2H                        |
| <b>Project:</b>  | Tyler County WV                          | <b>TVD Reference:</b>               | Precision 525: GL 1201' + 19 @ 1220.0usft |
| <b>Site:</b>     | Pierpoint Pad:Ingot/Klondike/Wall/Weigle | <b>MD Reference:</b>                | Precision 525: GL 1201' + 19 @ 1220.0usft |
| <b>Well:</b>     | Ingot Unit 2H                            | <b>North Reference:</b>             | Grid                                      |
| <b>Wellbore:</b> | Original Wellpath                        | <b>Survey Calculation Method:</b>   | Minimum Curvature                         |
| <b>Design:</b>   | As Drilled                               | <b>Database:</b>                    | Oklahoma District                         |

| Survey    |         |                   |            |            |            |               |                  |  |
|-----------|---------|-------------------|------------|------------|------------|---------------|------------------|--|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | N/S (usft) | E/W (usft) | V. Sec (usft) | DLeg (°/100usft) |  |
| 1,480.0   | 0.79    | 200.19            | 1,477.7    | -62.0      | -15.4      | 53.1          | 0.58             |  |
| 1,504.3   | 0.81    | 196.67            | 1,501.9    | -62.3      | -15.5      | 53.4          | 0.22             |  |
| 1,528.5   | 0.82    | 199.09            | 1,526.1    | -62.6      | -15.6      | 53.7          | 0.15             |  |
| 1,555.3   | 0.66    | 189.04            | 1,552.9    | -62.9      | -15.7      | 54.0          | 0.77             |  |
| 1,579.6   | 0.69    | 195.28            | 1,577.3    | -63.2      | -15.8      | 54.2          | 0.33             |  |
| 1,603.9   | 0.58    | 190.72            | 1,601.6    | -63.5      | -15.8      | 54.4          | 0.50             |  |
| 1,630.8   | 0.57    | 188.67            | 1,628.4    | -63.7      | -15.9      | 54.7          | 0.09             |  |
| 1,654.6   | 0.59    | 188.85            | 1,652.2    | -64.0      | -15.9      | 54.9          | 0.08             |  |
| 1,680.9   | 0.43    | 182.01            | 1,678.6    | -64.2      | -15.9      | 55.1          | 0.65             |  |
| 1,705.2   | 0.38    | 194.21            | 1,702.8    | -64.4      | -16.0      | 55.2          | 0.41             |  |
| 1,728.5   | 0.39    | 179.54            | 1,726.1    | -64.5      | -16.0      | 55.4          | 0.42             |  |
| 1,755.3   | 0.38    | 172.18            | 1,753.0    | -64.7      | -16.0      | 55.5          | 0.19             |  |
| 1,779.2   | 0.38    | 172.14            | 1,776.9    | -64.9      | -15.9      | 55.7          | 0.00             |  |
| 1,805.5   | 0.30    | 162.07            | 1,803.2    | -65.0      | -15.9      | 55.9          | 0.38             |  |
| 1,829.2   | 0.32    | 148.96            | 1,826.9    | -65.1      | -15.9      | 56.0          | 0.31             |  |
| 1,855.6   | 0.32    | 158.27            | 1,853.2    | -65.3      | -15.8      | 56.1          | 0.20             |  |
| 1,879.1   | 0.30    | 163.14            | 1,876.8    | -65.4      | -15.7      | 56.3          | 0.14             |  |
| 1,905.6   | 0.26    | 133.51            | 1,903.2    | -65.5      | -15.7      | 56.4          | 0.56             |  |
| 1,929.3   | 0.22    | 153.85            | 1,927.0    | -65.6      | -15.6      | 56.5          | 0.39             |  |
| 1,955.6   | 0.16    | 143.04            | 1,953.2    | -65.7      | -15.6      | 56.6          | 0.27             |  |
| 1,979.4   | 0.16    | 159.10            | 1,977.0    | -65.7      | -15.5      | 56.6          | 0.19             |  |
| 2,005.6   | 0.17    | 143.47            | 2,003.3    | -65.8      | -15.5      | 56.7          | 0.17             |  |
| 2,029.4   | 0.23    | 145.63            | 2,027.0    | -65.8      | -15.5      | 56.8          | 0.25             |  |
| 2,055.8   | 0.25    | 135.94            | 2,053.5    | -65.9      | -15.4      | 56.9          | 0.17             |  |
| 2,079.4   | 0.18    | 145.55            | 2,077.0    | -66.0      | -15.3      | 57.0          | 0.33             |  |
| 2,105.7   | 0.17    | 145.90            | 2,103.4    | -66.1      | -15.3      | 57.0          | 0.04             |  |
| 2,129.5   | 0.14    | 152.66            | 2,127.2    | -66.1      | -15.3      | 57.1          | 0.15             |  |
| 2,155.8   | 0.13    | 175.17            | 2,153.4    | -66.2      | -15.2      | 57.2          | 0.20             |  |
| 2,180.1   | 0.13    | 97.39             | 2,177.7    | -66.2      | -15.2      | 57.2          | 0.67             |  |
| 2,203.2   | 0.09    | 136.30            | 2,200.8    | -66.2      | -15.2      | 57.2          | 0.36             |  |
| 2,230.1   | 0.05    | 146.84            | 2,227.8    | -66.3      | -15.2      | 57.3          | 0.16             |  |
| 2,254.0   | 0.12    | 131.24            | 2,251.7    | -66.3      | -15.1      | 57.3          | 0.31             |  |
| 2,280.3   | 0.12    | 134.70            | 2,278.0    | -66.3      | -15.1      | 57.3          | 0.03             |  |
| 2,304.1   | 0.20    | 160.84            | 2,301.7    | -66.4      | -15.1      | 57.4          | 0.45             |  |
| 2,330.4   | 0.12    | 204.77            | 2,328.1    | -66.4      | -15.1      | 57.5          | 0.53             |  |
| 2,354.2   | 0.15    | 251.29            | 2,351.8    | -66.5      | -15.1      | 57.5          | 0.46             |  |
| 2,380.6   | 0.18    | 242.64            | 2,378.2    | -66.5      | -15.2      | 57.5          | 0.15             |  |
| 2,404.4   | 0.25    | 272.15            | 2,402.0    | -66.5      | -15.2      | 57.5          | 0.54             |  |
| 2,430.3   | 0.24    | 257.81            | 2,428.0    | -66.5      | -15.4      | 57.4          | 0.24             |  |
| 2,454.0   | 0.29    | 259.88            | 2,451.7    | -66.5      | -15.5      | 57.4          | 0.21             |  |
| 2,480.7   | 0.30    | 273.65            | 2,478.4    | -66.6      | -15.6      | 57.4          | 0.27             |  |
| 2,504.9   | 0.30    | 269.88            | 2,502.5    | -66.5      | -15.7      | 57.3          | 0.08             |  |
| 2,529.0   | 0.34    | 271.21            | 2,526.7    | -66.5      | -15.9      | 57.3          | 0.17             |  |
| 2,555.7   | 0.24    | 261.57            | 2,553.4    | -66.6      | -16.0      | 57.3          | 0.42             |  |
| 2,580.0   | 0.27    | 263.70            | 2,577.6    | -66.6      | -16.1      | 57.2          | 0.13             |  |

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| <b>Company:</b>  | Antero                                   | <b>Local Co-ordinate Reference:</b> | Well Ingot Unit 2H                        |
| <b>Project:</b>  | Tyler County WV                          | <b>TVD Reference:</b>               | Precision 525: GL 1201' + 19 @ 1220.0usft |
| <b>Site:</b>     | Pierpoint Pad:Ingot/Klondike/Wall/Weigle | <b>MD Reference:</b>                | Precision 525: GL 1201' + 19 @ 1220.0usft |
| <b>Well:</b>     | Ingot Unit 2H                            | <b>North Reference:</b>             | Grid                                      |
| <b>Wellbore:</b> | Original Wellpath                        | <b>Survey Calculation Method:</b>   | Minimum Curvature                         |
| <b>Design:</b>   | As Drilled                               | <b>Database:</b>                    | Oklahoma District                         |

| Survey    |         |                   |            |            |            |               |                  |
|-----------|---------|-------------------|------------|------------|------------|---------------|------------------|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | N/S (usft) | E/W (usft) | V. Sec (usft) | DLeg (°/100usft) |
| 2,603.9   | 0.27    | 264.86            | 2,601.6    | -66.6      | -16.2      | 57.2          | 0.02             |
| 2,630.7   | 0.23    | 254.41            | 2,628.3    | -66.6      | -16.3      | 57.2          | 0.23             |
| 2,654.7   | 0.27    | 267.15            | 2,652.4    | -66.6      | -16.4      | 57.2          | 0.28             |
| 2,678.9   | 0.29    | 266.16            | 2,676.6    | -66.6      | -16.5      | 57.1          | 0.08             |
| 2,706.0   | 0.33    | 267.17            | 2,703.6    | -66.6      | -16.7      | 57.1          | 0.15             |
| 2,729.7   | 0.29    | 267.55            | 2,727.3    | -66.6      | -16.8      | 57.1          | 0.17             |
| 2,754.3   | 0.29    | 273.73            | 2,752.0    | -66.6      | -16.9      | 57.0          | 0.13             |
| 2,778.0   | 0.30    | 273.12            | 2,775.7    | -66.6      | -17.1      | 57.0          | 0.04             |
| 2,805.5   | 0.25    | 267.48            | 2,803.2    | -66.6      | -17.2      | 56.9          | 0.21             |
| 2,829.9   | 0.36    | 278.12            | 2,827.6    | -66.6      | -17.3      | 56.9          | 0.50             |
| 2,854.2   | 0.36    | 275.81            | 2,851.8    | -66.6      | -17.5      | 56.8          | 0.06             |
| 2,878.5   | 0.37    | 273.56            | 2,876.1    | -66.6      | -17.6      | 56.7          | 0.07             |
| 2,905.5   | 0.37    | 280.73            | 2,903.1    | -66.6      | -17.8      | 56.7          | 0.17             |
| 2,929.8   | 0.44    | 280.85            | 2,927.5    | -66.5      | -18.0      | 56.6          | 0.29             |
| 2,954.1   | 0.41    | 285.03            | 2,951.8    | -66.5      | -18.2      | 56.5          | 0.18             |
| 2,981.0   | 0.48    | 281.26            | 2,978.6    | -66.4      | -18.4      | 56.4          | 0.28             |
| 3,004.8   | 0.43    | 285.65            | 3,002.5    | -66.4      | -18.5      | 56.3          | 0.26             |
| 3,031.0   | 0.46    | 285.81            | 3,028.6    | -66.3      | -18.7      | 56.1          | 0.11             |
| 3,054.6   | 0.54    | 277.80            | 3,052.2    | -66.3      | -18.9      | 56.0          | 0.45             |
| 3,080.8   | 0.46    | 277.93            | 3,078.5    | -66.3      | -19.2      | 55.9          | 0.30             |
| 3,104.3   | 0.40    | 282.36            | 3,102.0    | -66.2      | -19.3      | 55.8          | 0.29             |
| 3,130.6   | 0.48    | 280.37            | 3,128.3    | -66.2      | -19.5      | 55.7          | 0.31             |
| 3,154.2   | 0.44    | 280.92            | 3,151.9    | -66.2      | -19.7      | 55.6          | 0.17             |
| 3,180.3   | 0.45    | 285.24            | 3,178.0    | -66.1      | -19.9      | 55.5          | 0.13             |
| 3,204.1   | 0.55    | 281.46            | 3,201.8    | -66.1      | -20.1      | 55.4          | 0.44             |
| 3,229.2   | 0.46    | 279.60            | 3,226.9    | -66.0      | -20.3      | 55.3          | 0.36             |
| 3,255.2   | 0.44    | 288.11            | 3,252.8    | -66.0      | -20.5      | 55.2          | 0.27             |
| 3,279.7   | 0.40    | 288.09            | 3,277.3    | -65.9      | -20.7      | 55.1          | 0.16             |
| 3,303.9   | 0.41    | 279.33            | 3,301.5    | -65.9      | -20.9      | 55.0          | 0.26             |
| 3,328.4   | 0.49    | 284.86            | 3,326.1    | -65.9      | -21.1      | 54.9          | 0.37             |
| 3,355.1   | 0.46    | 287.82            | 3,352.8    | -65.8      | -21.3      | 54.8          | 0.14             |
| 3,379.5   | 0.49    | 286.88            | 3,377.1    | -65.7      | -21.5      | 54.6          | 0.13             |
| 3,403.6   | 0.48    | 279.56            | 3,401.3    | -65.7      | -21.7      | 54.5          | 0.26             |
| 3,430.4   | 0.48    | 272.28            | 3,428.0    | -65.7      | -21.9      | 54.4          | 0.23             |
| 3,454.5   | 0.46    | 277.83            | 3,452.1    | -65.6      | -22.1      | 54.3          | 0.21             |
| 3,478.6   | 0.38    | 277.80            | 3,476.3    | -65.6      | -22.3      | 54.3          | 0.33             |
| 3,505.8   | 0.46    | 284.45            | 3,503.4    | -65.6      | -22.5      | 54.2          | 0.34             |
| 3,530.0   | 0.45    | 282.11            | 3,527.6    | -65.5      | -22.6      | 54.1          | 0.09             |
| 3,554.1   | 0.49    | 287.55            | 3,551.7    | -65.5      | -22.8      | 53.9          | 0.25             |
| 3,580.8   | 0.47    | 282.17            | 3,578.4    | -65.4      | -23.0      | 53.8          | 0.18             |
| 3,605.1   | 0.52    | 274.66            | 3,602.8    | -65.4      | -23.3      | 53.7          | 0.34             |
| 3,629.3   | 0.43    | 272.27            | 3,626.9    | -65.4      | -23.5      | 53.6          | 0.38             |
| 3,653.4   | 0.51    | 271.27            | 3,651.1    | -65.4      | -23.7      | 53.6          | 0.33             |
| 3,680.6   | 0.47    | 276.08            | 3,678.3    | -65.4      | -23.9      | 53.5          | 0.21             |

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| <b>Company:</b>  | Antero                                   | <b>Local Co-ordinate Reference:</b> | Well Ingot Unit 2H                        |
| <b>Project:</b>  | Tyler County WV                          | <b>TVD Reference:</b>               | Precision 525: GL 1201' + 19 @ 1220.0usft |
| <b>Site:</b>     | Pierpoint Pad:Ingot/Klondike/Wall/Weigle | <b>MD Reference:</b>                | Precision 525: GL 1201' + 19 @ 1220.0usft |
| <b>Well:</b>     | Ingot Unit 2H                            | <b>North Reference:</b>             | Grid                                      |
| <b>Wellbore:</b> | Original Wellpath                        | <b>Survey Calculation Method:</b>   | Minimum Curvature                         |
| <b>Design:</b>   | As Drilled                               | <b>Database:</b>                    | Oklahoma District                         |

| Survey    |         |                   |            |            |            |               |                  |  |
|-----------|---------|-------------------|------------|------------|------------|---------------|------------------|--|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | N/S (usft) | E/W (usft) | V. Sec (usft) | DLeg (°/100usft) |  |
| 3,704.8   | 0.41    | 278.83            | 3,702.5    | -65.3      | -24.1      | 53.4          | 0.26             |  |
| 3,729.1   | 0.44    | 272.86            | 3,726.7    | -65.3      | -24.2      | 53.3          | 0.22             |  |
| 3,755.7   | 0.47    | 281.92            | 3,753.3    | -65.3      | -24.5      | 53.2          | 0.29             |  |
| 3,779.9   | 0.46    | 279.77            | 3,777.5    | -65.3      | -24.7      | 53.1          | 0.08             |  |
| 3,804.2   | 0.48    | 276.60            | 3,801.9    | -65.2      | -24.8      | 53.0          | 0.13             |  |
| 3,828.4   | 0.51    | 269.28            | 3,826.1    | -65.2      | -25.1      | 52.9          | 0.29             |  |
| 3,855.6   | 0.53    | 281.44            | 3,853.2    | -65.2      | -25.3      | 52.8          | 0.41             |  |
| 3,879.8   | 0.57    | 269.21            | 3,877.4    | -65.2      | -25.5      | 52.7          | 0.51             |  |
| 3,904.1   | 0.56    | 274.99            | 3,901.7    | -65.2      | -25.8      | 52.7          | 0.24             |  |
| 3,930.7   | 0.43    | 275.52            | 3,928.4    | -65.1      | -26.0      | 52.6          | 0.49             |  |
| 3,955.1   | 0.56    | 273.06            | 3,952.8    | -65.1      | -26.2      | 52.5          | 0.54             |  |
| 3,979.2   | 0.59    | 273.12            | 3,976.9    | -65.1      | -26.5      | 52.4          | 0.12             |  |
| 4,003.6   | 0.59    | 270.10            | 4,001.2    | -65.1      | -26.7      | 52.3          | 0.13             |  |
| 4,030.4   | 0.57    | 263.77            | 4,028.0    | -65.1      | -27.0      | 52.2          | 0.25             |  |
| 4,054.0   | 0.55    | 262.45            | 4,051.7    | -65.2      | -27.2      | 52.2          | 0.10             |  |
| 4,080.2   | 0.54    | 260.67            | 4,077.8    | -65.2      | -27.4      | 52.1          | 0.08             |  |
| 4,104.0   | 0.53    | 268.64            | 4,101.6    | -65.2      | -27.7      | 52.1          | 0.31             |  |
| 4,130.1   | 0.50    | 262.27            | 4,127.8    | -65.2      | -27.9      | 52.0          | 0.25             |  |
| 4,154.4   | 0.59    | 267.40            | 4,152.0    | -65.2      | -28.1      | 51.9          | 0.42             |  |
| 4,180.4   | 0.61    | 262.76            | 4,178.0    | -65.3      | -28.4      | 51.9          | 0.20             |  |
| 4,204.2   | 0.67    | 262.43            | 4,201.8    | -65.3      | -28.7      | 51.8          | 0.25             |  |
| 4,230.5   | 0.48    | 266.20            | 4,228.1    | -65.3      | -28.9      | 51.7          | 0.74             |  |
| 4,254.2   | 0.49    | 262.31            | 4,251.8    | -65.4      | -29.1      | 51.7          | 0.15             |  |
| 4,280.1   | 0.56    | 269.62            | 4,277.7    | -65.4      | -29.4      | 51.6          | 0.37             |  |
| 4,303.9   | 0.53    | 266.82            | 4,301.5    | -65.4      | -29.6      | 51.6          | 0.17             |  |
| 4,330.5   | 0.48    | 257.49            | 4,328.1    | -65.4      | -29.8      | 51.5          | 0.36             |  |
| 4,354.1   | 0.49    | 246.30            | 4,351.8    | -65.5      | -30.0      | 51.5          | 0.40             |  |
| 4,380.2   | 0.53    | 246.58            | 4,377.8    | -65.6      | -30.2      | 51.5          | 0.15             |  |
| 4,404.0   | 0.59    | 248.80            | 4,401.6    | -65.6      | -30.4      | 51.5          | 0.27             |  |
| 4,430.1   | 0.55    | 255.85            | 4,427.7    | -65.7      | -30.7      | 51.5          | 0.31             |  |
| 4,454.3   | 0.67    | 244.56            | 4,451.9    | -65.8      | -30.9      | 51.5          | 0.70             |  |
| 4,480.3   | 0.46    | 242.10            | 4,477.9    | -65.9      | -31.2      | 51.6          | 0.81             |  |
| 4,504.0   | 0.58    | 245.26            | 4,501.6    | -66.0      | -31.3      | 51.6          | 0.52             |  |
| 4,530.2   | 0.64    | 235.48            | 4,527.8    | -66.2      | -31.6      | 51.6          | 0.46             |  |
| 4,553.9   | 0.58    | 236.46            | 4,551.4    | -66.3      | -31.8      | 51.7          | 0.26             |  |
| 4,579.8   | 0.58    | 241.64            | 4,577.4    | -66.4      | -32.0      | 51.7          | 0.20             |  |
| 4,603.6   | 0.48    | 234.96            | 4,601.2    | -66.6      | -32.2      | 51.8          | 0.49             |  |
| 4,630.1   | 0.52    | 237.35            | 4,627.7    | -66.7      | -32.4      | 51.8          | 0.17             |  |
| 4,653.8   | 0.53    | 223.00            | 4,651.4    | -66.8      | -32.6      | 51.9          | 0.55             |  |
| 4,679.9   | 0.57    | 233.09            | 4,677.5    | -67.0      | -32.8      | 52.0          | 0.40             |  |
| 4,705.9   | 0.55    | 224.94            | 4,703.5    | -67.2      | -32.9      | 52.1          | 0.32             |  |
| 4,729.3   | 0.68    | 215.04            | 4,726.9    | -67.3      | -33.1      | 52.2          | 0.72             |  |
| 4,754.7   | 0.61    | 200.86            | 4,752.2    | -67.6      | -33.2      | 52.4          | 0.69             |  |
| 4,755.1   | 0.53    | 221.07            | 4,752.6    | -67.6      | -33.2      | 52.4          | 53.74            |  |

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| <b>Company:</b>  | Antero                                   | <b>Local Co-ordinate Reference:</b> | Well Ingot Unit 2H                        |
| <b>Project:</b>  | Tyler County WV                          | <b>TVD Reference:</b>               | Precision 525: GL 1201' + 19 @ 1220.0usft |
| <b>Site:</b>     | Pierpoint Pad:Ingot/Klondike/Wall/Weigle | <b>MD Reference:</b>                | Precision 525: GL 1201' + 19 @ 1220.0usft |
| <b>Well:</b>     | Ingot Unit 2H                            | <b>North Reference:</b>             | Grid                                      |
| <b>Wellbore:</b> | Original Wellpath                        | <b>Survey Calculation Method:</b>   | Minimum Curvature                         |
| <b>Design:</b>   | As Drilled                               | <b>Database:</b>                    | Oklahoma District                         |

| Survey    |         |                   |            |            |            |               |                  |
|-----------|---------|-------------------|------------|------------|------------|---------------|------------------|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | N/S (usft) | E/W (usft) | V. Sec (usft) | DLeg (°/100usft) |
| 4,779.8   | 0.54    | 224.92            | 4,777.4    | -67.8      | -33.4      | 52.5          | 0.15             |
| 4,804.8   | 0.61    | 224.28            | 4,802.4    | -67.9      | -33.6      | 52.6          | 0.28             |
| 4,830.8   | 0.60    | 228.11            | 4,828.4    | -68.1      | -33.8      | 52.8          | 0.16             |
| 4,855.4   | 0.73    | 225.71            | 4,852.9    | -68.3      | -34.0      | 52.9          | 0.54             |
| 4,880.9   | 0.79    | 219.37            | 4,878.4    | -68.6      | -34.2      | 53.0          | 0.41             |
| 4,906.0   | 1.38    | 227.74            | 4,903.5    | -68.9      | -34.5      | 53.2          | 2.43             |
| 4,930.5   | 2.14    | 234.98            | 4,928.0    | -69.4      | -35.1      | 53.5          | 3.22             |
| 4,955.6   | 2.86    | 240.36            | 4,953.1    | -70.0      | -36.1      | 53.7          | 3.02             |
| 4,980.6   | 3.69    | 240.83            | 4,978.1    | -70.7      | -37.3      | 53.9          | 3.32             |
| 5,005.0   | 4.48    | 243.34            | 5,002.5    | -71.5      | -38.8      | 54.2          | 3.31             |
| 5,030.3   | 5.14    | 244.12            | 5,027.6    | -72.4      | -40.7      | 54.4          | 2.63             |
| 5,055.5   | 5.69    | 244.72            | 5,052.8    | -73.4      | -42.9      | 54.7          | 2.19             |
| 5,080.3   | 6.06    | 244.49            | 5,077.4    | -74.5      | -45.2      | 54.9          | 1.50             |
| 5,105.4   | 6.85    | 246.75            | 5,102.3    | -75.7      | -47.8      | 55.1          | 3.30             |
| 5,130.4   | 7.83    | 247.66            | 5,127.2    | -76.9      | -50.7      | 55.3          | 3.94             |
| 5,155.1   | 8.64    | 248.16            | 5,151.6    | -78.2      | -54.0      | 55.5          | 3.29             |
| 5,180.5   | 9.38    | 247.99            | 5,176.6    | -79.7      | -57.7      | 55.6          | 2.92             |
| 5,205.5   | 10.05   | 248.34            | 5,201.3    | -81.3      | -61.6      | 55.8          | 2.69             |
| 5,230.2   | 10.62   | 247.76            | 5,225.6    | -83.0      | -65.7      | 55.9          | 2.34             |
| 5,256.0   | 11.07   | 246.66            | 5,250.9    | -84.8      | -70.2      | 56.2          | 1.92             |
| 5,280.1   | 11.40   | 245.92            | 5,274.6    | -86.7      | -74.5      | 56.5          | 1.49             |
| 5,305.2   | 11.79   | 244.17            | 5,299.2    | -88.9      | -79.0      | 57.0          | 2.09             |
| 5,330.1   | 12.39   | 242.21            | 5,323.5    | -91.2      | -83.7      | 57.6          | 2.92             |
| 5,355.6   | 13.38   | 241.23            | 5,348.4    | -93.9      | -88.7      | 58.5          | 3.98             |
| 5,380.1   | 14.07   | 241.07            | 5,372.1    | -96.7      | -93.8      | 59.4          | 2.83             |
| 5,406.0   | 14.61   | 241.11            | 5,397.2    | -99.8      | -99.4      | 60.4          | 2.09             |
| 5,430.1   | 15.27   | 241.33            | 5,420.5    | -102.8     | -104.9     | 61.4          | 2.75             |
| 5,454.5   | 15.90   | 241.63            | 5,444.1    | -105.9     | -110.6     | 62.4          | 2.60             |
| 5,480.9   | 16.54   | 241.37            | 5,469.4    | -109.5     | -117.1     | 63.6          | 2.44             |
| 5,504.7   | 16.96   | 241.28            | 5,492.2    | -112.7     | -123.1     | 64.6          | 1.77             |
| 5,530.1   | 17.58   | 241.34            | 5,516.4    | -116.4     | -129.7     | 65.8          | 2.44             |
| 5,554.9   | 17.77   | 241.16            | 5,540.1    | -120.0     | -136.3     | 67.0          | 0.80             |
| 5,580.8   | 18.34   | 241.25            | 5,564.7    | -123.9     | -143.4     | 68.2          | 2.20             |
| 5,604.6   | 18.56   | 241.35            | 5,587.2    | -127.5     | -150.0     | 69.4          | 0.94             |
| 5,630.5   | 19.10   | 241.12            | 5,611.8    | -131.5     | -157.3     | 70.7          | 2.10             |
| 5,655.9   | 19.82   | 241.24            | 5,635.8    | -135.6     | -164.7     | 72.1          | 2.83             |
| 5,680.7   | 20.39   | 240.60            | 5,659.0    | -139.7     | -172.2     | 73.5          | 2.47             |
| 5,704.8   | 20.92   | 240.28            | 5,681.6    | -143.9     | -179.6     | 74.9          | 2.25             |
| 5,730.8   | 21.51   | 239.76            | 5,705.8    | -148.6     | -187.7     | 76.6          | 2.38             |
| 5,755.0   | 22.21   | 239.72            | 5,728.3    | -153.2     | -195.5     | 78.2          | 2.89             |
| 5,780.5   | 23.03   | 239.61            | 5,751.8    | -158.1     | -203.9     | 80.1          | 3.22             |
| 5,805.2   | 23.57   | 239.84            | 5,774.5    | -163.0     | -212.4     | 81.8          | 2.22             |
| 5,829.3   | 24.43   | 240.34            | 5,796.6    | -167.9     | -220.9     | 83.6          | 3.66             |
| 5,854.9   | 25.23   | 240.64            | 5,819.7    | -173.2     | -230.2     | 85.4          | 3.17             |

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| <b>Company:</b> Antero                                | <b>Local Co-ordinate Reference:</b> Well Ingot Unit 2H          |
| <b>Project:</b> Tyler County WV                       | <b>TVD Reference:</b> Precision 525: GL 1201' + 19 @ 1220.0usft |
| <b>Site:</b> Pierpoint Pad:Ingot/Klondike/Wall/Weigle | <b>MD Reference:</b> Precision 525: GL 1201' + 19 @ 1220.0usft  |
| <b>Well:</b> Ingot Unit 2H                            | <b>North Reference:</b> Grid                                    |
| <b>Wellbore:</b> Original Wellpath                    | <b>Survey Calculation Method:</b> Minimum Curvature             |
| <b>Design:</b> As Drilled                             | <b>Database:</b> Oklahoma District                              |

| Survey          |         |                   |            |            |            |               |                  |
|-----------------|---------|-------------------|------------|------------|------------|---------------|------------------|
| MD (usft)       | Inc (°) | Azi (azimuth) (°) | TVD (usft) | N/S (usft) | E/W (usft) | V. Sec (usft) | DLeg (°/100usft) |
| 5,880.7         | 25.62   | 240.68            | 5,843.0    | -178.6     | -239.9     | 87.3          | 1.51             |
| 5,905.4         | 25.46   | 240.64            | 5,865.3    | -183.9     | -249.2     | 89.0          | 0.65             |
| 5,930.8         | 25.58   | 239.79            | 5,888.3    | -189.3     | -258.7     | 91.0          | 1.51             |
| 5,955.0         | 26.03   | 239.08            | 5,910.0    | -194.6     | -267.7     | 92.9          | 2.26             |
| 5,980.8         | 26.75   | 238.84            | 5,933.2    | -200.6     | -277.6     | 95.2          | 2.82             |
| 6,005.0         | 26.99   | 238.56            | 5,954.8    | -206.3     | -286.9     | 97.4          | 1.12             |
| 6,030.4         | 26.44   | 238.36            | 5,977.4    | -212.2     | -296.7     | 99.7          | 2.20             |
| 6,055.1         | 26.06   | 237.43            | 5,999.6    | -218.0     | -305.9     | 102.1         | 2.27             |
| 6,080.0         | 25.58   | 236.89            | 6,022.0    | -223.9     | -315.0     | 104.5         | 2.15             |
| 6,106.0         | 26.22   | 236.76            | 6,045.4    | -230.1     | -324.5     | 107.2         | 2.47             |
| 6,174.0         | 25.53   | 236.61            | 6,106.6    | -246.4     | -349.3     | 114.2         | 1.02             |
| 6,225.0         | 24.97   | 237.10            | 6,152.7    | -258.3     | -367.5     | 119.2         | 1.17             |
| 6,264.0         | 24.31   | 235.48            | 6,188.2    | -267.3     | -381.1     | 123.2         | 2.42             |
| 6,309.0         | 26.29   | 231.47            | 6,228.8    | -278.8     | -396.5     | 128.7         | 5.82             |
| 6,354.0         | 26.24   | 229.71            | 6,269.2    | -291.4     | -411.9     | 135.5         | 1.73             |
| 6,399.0         | 27.52   | 225.85            | 6,309.3    | -305.1     | -426.9     | 143.3         | 4.81             |
| 6,413.0         | 28.67   | 222.91            | 6,321.7    | -309.8     | -431.5     | 146.1         | 12.84            |
| <b>SCMR</b>     |         |                   |            |            |            |               |                  |
| 6,444.0         | 31.41   | 217.14            | 6,348.5    | -321.7     | -441.5     | 154.0         | 12.84            |
| 6,488.0         | 36.31   | 208.26            | 6,385.1    | -342.4     | -454.6     | 169.0         | 15.80            |
| 6,533.0         | 40.18   | 201.93            | 6,420.4    | -367.6     | -466.3     | 188.8         | 12.23            |
| 6,578.0         | 42.53   | 195.85            | 6,454.2    | -395.7     | -475.9     | 212.0         | 10.34            |
| 6,623.0         | 45.19   | 189.89            | 6,486.7    | -426.1     | -482.8     | 238.3         | 10.91            |
| 6,636.0         | 45.94   | 188.53            | 6,495.8    | -435.2     | -484.3     | 246.4         | 9.42             |
| <b>MDLX</b>     |         |                   |            |            |            |               |                  |
| 6,668.0         | 47.85   | 185.34            | 6,517.6    | -458.4     | -487.1     | 267.3         | 9.42             |
| 6,712.0         | 51.39   | 182.11            | 6,546.1    | -491.9     | -489.3     | 298.0         | 9.80             |
| 6,757.0         | 55.32   | 179.77            | 6,573.0    | -527.9     | -489.8     | 331.8         | 9.68             |
| 6,794.0         | 57.77   | 177.49            | 6,593.4    | -558.8     | -489.1     | 361.1         | 8.40             |
| <b>BRKT</b>     |         |                   |            |            |            |               |                  |
| 6,802.0         | 58.31   | 177.01            | 6,597.6    | -565.6     | -488.8     | 367.6         | 8.40             |
| 6,844.0         | 61.92   | 174.17            | 6,618.6    | -601.9     | -485.9     | 402.7         | 10.40            |
| <b>TLLY</b>     |         |                   |            |            |            |               |                  |
| 6,847.0         | 62.18   | 173.98            | 6,620.0    | -604.5     | -485.7     | 405.3         | 10.40            |
| 6,892.0         | 68.13   | 171.27            | 6,638.9    | -645.0     | -480.4     | 445.2         | 14.31            |
| 6,937.0         | 73.73   | 168.60            | 6,653.6    | -686.8     | -473.0     | 487.1         | 13.65            |
| 6,953.0         | 75.24   | 167.82            | 6,657.8    | -701.9     | -469.8     | 502.3         | 10.55            |
| <b>MRCL_HOT</b> |         |                   |            |            |            |               |                  |
| 6,982.0         | 77.98   | 166.42            | 6,664.6    | -729.4     | -463.5     | 530.4         | 10.55            |
| 7,026.0         | 80.72   | 166.08            | 6,672.7    | -771.4     | -453.2     | 573.4         | 6.27             |
| 7,071.0         | 84.77   | 164.50            | 6,678.4    | -814.6     | -441.9     | 617.8         | 9.65             |
| 7,099.0         | 87.15   | 163.50            | 6,680.3    | -841.4     | -434.2     | 645.7         | 9.22             |
| 7,144.0         | 89.83   | 161.96            | 6,681.5    | -884.4     | -420.9     | 690.6         | 6.87             |
| 7,188.0         | 89.76   | 160.95            | 6,681.7    | -926.1     | -406.9     | 734.6         | 2.30             |
| 7,278.0         | 89.36   | 159.64            | 6,682.4    | -1,010.8   | -376.5     | 824.6         | 1.52             |

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EOW Completion Report



|   |   |
|---|---|
| <b>Company:</b> Antero                                | <b>Local Co-ordinate Reference:</b> Well Ingot Unit 2H          |
| <b>Project:</b> Tyler County WV                       | <b>TVD Reference:</b> Precision 525: GL 1201' + 19 @ 1220.0usft |
| <b>Site:</b> Pierpoint Pad:Ingot/Klondike/Wall/Weigle | <b>MD Reference:</b> Precision 525: GL 1201' + 19 @ 1220.0usft  |
| <b>Well:</b> Ingot Unit 2H                            | <b>North Reference:</b> Grid                                    |
| <b>Wellbore:</b> Original Wellpath                    | <b>Survey Calculation Method:</b> Minimum Curvature             |
| <b>Design:</b> As Drilled                             | <b>Database:</b> Oklahoma District                              |

| Survey    |         |                   |            |            |            |               |                  |  |
|-----------|---------|-------------------|------------|------------|------------|---------------|------------------|--|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | N/S (usft) | E/W (usft) | V. Sec (usft) | DLeg (°/100usft) |  |
| 7,368.0   | 88.79   | 158.63            | 6,683.8    | -1,094.9   | -344.5     | 914.6         | 1.29             |  |
| 7,458.0   | 90.03   | 160.99            | 6,684.8    | -1,179.4   | -313.4     | 1,004.6       | 2.96             |  |
| 7,547.0   | 90.34   | 161.18            | 6,684.5    | -1,263.6   | -284.6     | 1,093.6       | 0.41             |  |
| 7,637.0   | 89.30   | 157.46            | 6,684.8    | -1,347.7   | -252.8     | 1,183.5       | 4.29             |  |
| 7,727.0   | 88.96   | 155.93            | 6,686.1    | -1,430.4   | -217.2     | 1,273.3       | 1.74             |  |
| 7,816.0   | 89.36   | 158.19            | 6,687.4    | -1,512.3   | -182.5     | 1,362.2       | 2.58             |  |
| 7,906.0   | 89.33   | 158.27            | 6,688.5    | -1,595.9   | -149.1     | 1,452.1       | 0.09             |  |
| 7,997.0   | 89.36   | 159.75            | 6,689.5    | -1,680.9   | -116.5     | 1,543.1       | 1.63             |  |
| 8,085.0   | 89.40   | 160.07            | 6,690.4    | -1,763.5   | -86.3      | 1,631.1       | 0.37             |  |
| 8,175.0   | 89.63   | 160.98            | 6,691.2    | -1,848.3   | -56.3      | 1,721.1       | 1.04             |  |
| 8,264.0   | 89.77   | 160.38            | 6,691.7    | -1,932.3   | -26.9      | 1,810.1       | 0.69             |  |
| 8,354.0   | 89.46   | 158.65            | 6,692.3    | -2,016.6   | 4.6        | 1,900.1       | 1.95             |  |
| 8,444.0   | 88.92   | 160.82            | 6,693.6    | -2,101.1   | 35.8       | 1,990.0       | 2.48             |  |
| 8,533.0   | 90.13   | 161.08            | 6,694.3    | -2,185.2   | 64.9       | 2,079.0       | 1.39             |  |
| 8,623.0   | 89.60   | 159.45            | 6,694.5    | -2,269.9   | 95.2       | 2,169.0       | 1.90             |  |
| 8,713.0   | 89.97   | 162.12            | 6,694.8    | -2,354.9   | 124.9      | 2,259.0       | 2.99             |  |
| 8,803.0   | 89.03   | 161.08            | 6,695.6    | -2,440.3   | 153.3      | 2,349.0       | 1.56             |  |
| 8,892.0   | 88.02   | 159.41            | 6,697.9    | -2,524.0   | 183.3      | 2,437.9       | 2.19             |  |
| 8,982.0   | 88.62   | 161.17            | 6,700.6    | -2,608.7   | 213.7      | 2,527.9       | 2.07             |  |
| 9,071.0   | 90.47   | 161.96            | 6,701.3    | -2,693.1   | 241.8      | 2,616.9       | 2.26             |  |
| 9,161.0   | 90.70   | 161.03            | 6,700.3    | -2,778.4   | 270.4      | 2,706.8       | 1.06             |  |
| 9,251.0   | 89.50   | 162.29            | 6,700.2    | -2,863.9   | 298.7      | 2,796.8       | 1.93             |  |
| 9,341.0   | 89.70   | 162.16            | 6,700.8    | -2,949.6   | 326.2      | 2,886.8       | 0.27             |  |
| 9,430.0   | 90.20   | 162.88            | 6,700.9    | -3,034.5   | 352.9      | 2,975.7       | 0.98             |  |
| 9,520.0   | 89.90   | 160.86            | 6,700.8    | -3,120.0   | 380.9      | 3,065.7       | 2.27             |  |
| 9,610.0   | 89.46   | 159.87            | 6,701.3    | -3,204.7   | 411.2      | 3,155.7       | 1.20             |  |
| 9,699.0   | 88.25   | 160.27            | 6,703.1    | -3,288.4   | 441.5      | 3,244.6       | 1.43             |  |
| 9,789.0   | 88.76   | 159.78            | 6,705.4    | -3,373.0   | 472.2      | 3,334.6       | 0.79             |  |
| 9,879.0   | 88.86   | 160.81            | 6,707.3    | -3,457.7   | 502.6      | 3,424.6       | 1.15             |  |
| 9,968.0   | 89.03   | 161.43            | 6,709.0    | -3,541.9   | 531.4      | 3,513.6       | 0.72             |  |
| 10,058.0  | 89.70   | 160.66            | 6,709.9    | -3,627.0   | 560.6      | 3,603.5       | 1.13             |  |
| 10,148.0  | 88.59   | 160.41            | 6,711.3    | -3,711.8   | 590.6      | 3,693.5       | 1.26             |  |
| 10,237.0  | 89.46   | 161.20            | 6,712.8    | -3,795.9   | 619.8      | 3,782.5       | 1.32             |  |
| 10,327.0  | 89.06   | 161.12            | 6,714.0    | -3,881.0   | 648.9      | 3,872.5       | 0.45             |  |
| 10,416.0  | 89.03   | 161.20            | 6,715.5    | -3,965.3   | 677.6      | 3,961.5       | 0.10             |  |
| 10,506.0  | 88.83   | 160.16            | 6,717.1    | -4,050.2   | 707.4      | 4,051.5       | 1.18             |  |
| 10,596.0  | 87.75   | 157.74            | 6,719.8    | -4,134.1   | 739.7      | 4,141.4       | 2.94             |  |
| 10,685.0  | 88.48   | 159.43            | 6,722.7    | -4,216.9   | 772.2      | 4,230.8       | 2.07             |  |
| 10,775.0  | 89.63   | 160.80            | 6,724.2    | -4,301.5   | 802.8      | 4,320.3       | 1.99             |  |
| 10,865.0  | 90.23   | 161.09            | 6,724.3    | -4,386.6   | 832.2      | 4,410.3       | 0.74             |  |
| 10,954.0  | 89.09   | 160.74            | 6,724.9    | -4,470.7   | 861.3      | 4,499.3       | 1.34             |  |
| 11,044.0  | 89.13   | 160.72            | 6,726.3    | -4,555.7   | 891.0      | 4,589.2       | 0.05             |  |
| 11,134.0  | 90.13   | 162.85            | 6,726.8    | -4,641.1   | 919.1      | 4,679.2       | 2.61             |  |
| 11,223.0  | 89.93   | 161.18            | 6,726.8    | -4,725.8   | 946.6      | 4,768.2       | 1.89             |  |

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|---|---|
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| <b>Project:</b> Tyler County WV                       | <b>TVD Reference:</b> Precision 525: GL 1201' + 19 @ 1220.0usft |
| <b>Site:</b> Pierpoint Pad:Ingot/Klondike/Wall/Weigle | <b>MD Reference:</b> Precision 525: GL 1201' + 19 @ 1220.0usft  |
| <b>Well:</b> Ingot Unit 2H                            | <b>North Reference:</b> Grid                                    |
| <b>Wellbore:</b> Original Wellpath                    | <b>Survey Calculation Method:</b> Minimum Curvature             |
| <b>Design:</b> As Drilled                             | <b>Database:</b> Oklahoma District                              |

| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | N/S (usft) | E/W (usft) | V. Sec (usft) | DLeg (°/100usft) |
|-----------|---------|-------------------|------------|------------|------------|---------------|------------------|
| 11,313.0  | 88.96   | 158.72            | 6,727.7    | -4,810.3   | 977.4      | 4,858.1       | 2.94             |
| 11,403.0  | 88.83   | 157.98            | 6,729.4    | -4,894.0   | 1,010.6    | 4,948.1       | 0.83             |
| 11,492.0  | 89.87   | 158.67            | 6,730.4    | -4,976.7   | 1,043.5    | 5,037.0       | 1.40             |
| 11,582.0  | 90.13   | 158.20            | 6,730.4    | -5,060.4   | 1,076.6    | 5,127.0       | 0.60             |
| 11,672.0  | 88.66   | 157.83            | 6,731.4    | -5,143.8   | 1,110.3    | 5,216.9       | 1.68             |
| 11,762.0  | 89.03   | 159.50            | 6,733.2    | -5,227.6   | 1,143.0    | 5,306.8       | 1.90             |
| 11,852.0  | 89.56   | 159.79            | 6,734.3    | -5,312.0   | 1,174.3    | 5,396.8       | 0.67             |
| 11,941.0  | 90.37   | 160.75            | 6,734.3    | -5,395.8   | 1,204.3    | 5,485.8       | 1.41             |
| 12,031.0  | 89.33   | 160.10            | 6,734.6    | -5,480.6   | 1,234.5    | 5,575.8       | 1.36             |
| 12,121.0  | 88.99   | 159.79            | 6,735.9    | -5,565.1   | 1,265.4    | 5,665.8       | 0.51             |
| 12,210.0  | 89.39   | 160.99            | 6,737.2    | -5,648.9   | 1,295.2    | 5,754.8       | 1.42             |
| 12,300.0  | 90.40   | 162.17            | 6,737.3    | -5,734.3   | 1,323.7    | 5,844.8       | 1.73             |
| 12,390.0  | 89.50   | 160.88            | 6,737.4    | -5,819.7   | 1,352.2    | 5,934.7       | 1.75             |
| 12,479.0  | 89.16   | 161.18            | 6,738.4    | -5,903.8   | 1,381.1    | 6,023.7       | 0.51             |
| 12,569.0  | 89.50   | 161.22            | 6,739.5    | -5,989.0   | 1,410.1    | 6,113.7       | 0.38             |
| 12,659.0  | 89.10   | 160.54            | 6,740.6    | -6,074.1   | 1,439.6    | 6,203.7       | 0.88             |
| 12,748.0  | 89.70   | 161.37            | 6,741.5    | -6,158.2   | 1,468.6    | 6,292.7       | 1.15             |
| 12,838.0  | 90.40   | 161.03            | 6,741.4    | -6,243.4   | 1,497.6    | 6,382.7       | 0.86             |
| 12,928.0  | 89.33   | 159.91            | 6,741.7    | -6,328.2   | 1,527.7    | 6,472.7       | 1.72             |
| 13,017.0  | 89.60   | 159.97            | 6,742.5    | -6,411.8   | 1,558.2    | 6,561.7       | 0.31             |
| 13,107.0  | 90.10   | 160.98            | 6,742.7    | -6,496.6   | 1,588.3    | 6,651.7       | 1.25             |
| 13,197.0  | 89.36   | 159.05            | 6,743.2    | -6,581.2   | 1,619.1    | 6,741.7       | 2.30             |
| 13,287.0  | 89.33   | 158.61            | 6,744.2    | -6,665.1   | 1,651.6    | 6,831.6       | 0.49             |
| 13,376.0  | 89.80   | 159.07            | 6,744.9    | -6,748.1   | 1,683.7    | 6,920.6       | 0.74             |
| 13,466.0  | 90.13   | 159.20            | 6,744.9    | -6,832.2   | 1,715.8    | 7,010.6       | 0.39             |
| 13,556.0  | 89.78   | 160.11            | 6,745.0    | -6,916.6   | 1,747.1    | 7,100.6       | 1.08             |
| 13,645.0  | 90.03   | 159.22            | 6,745.1    | -7,000.0   | 1,778.0    | 7,189.6       | 1.04             |
| 13,735.0  | 88.93   | 160.35            | 6,745.9    | -7,084.5   | 1,809.1    | 7,279.5       | 1.75             |
| 13,805.0  | 89.69   | 161.86            | 6,746.8    | -7,150.7   | 1,831.7    | 7,349.5       | 2.41             |
| 13,865.0  | 89.69   | 161.86            | 6,747.1    | -7,207.7   | 1,850.4    | 7,409.5       | 0.00             |

PTB

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              | Comment  |
|-----------------------|-----------------------|-------------------|--------------|----------|
|                       |                       | +N/-S (usft)      | +E/-W (usft) |          |
| 6,413.0               | 6,321.7               | -309.8            | -431.5       | SCMR     |
| 6,636.0               | 6,495.8               | -435.2            | -484.3       | MDLX     |
| 6,794.0               | 6,593.4               | -558.8            | -489.1       | BRKT     |
| 6,844.0               | 6,618.6               | -601.9            | -485.9       | TLTY     |
| 6,953.0               | 6,657.8               | -701.9            | -469.8       | MRCL_HOT |
| 13,865.0              | 6,747.1               | -7,207.7          | 1,850.4      | PTB      |

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Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_