



Antero Resources
Bowen Unit 1H
Doddridge County WV
Northing: 14238339.37
Easting: 1745415.46
As Drilled

WELL DETAILS: Bowen Unit 1H

| | | | | | |
|---------------|--------|-------------|---------------|-----------|----------------|
| Ground Level: | 1408.0 | Latitude | 37° 43.502' W | Longitude | 109° 00' 00" W |
| +N/S | +E/W | Northing | Easting | Uplift | SI |
| 0.0 | 0.0 | 14238339.37 | 1745415.46 | 12.33 | 23.90 |

PROJECT DETAILS: Doddridge County WV

Checkoff System: Unvented Tracerless Metering (US Sewer Feet)
Eligibility: Class 1886
Zone: Zone 17N (84 W to 78 W)
System Datum: Mean Sea Level

REFERENCE INFORMATION

Coordinate (N/E) Reference: West Bowen Unit 1H (000) 1875
Northing (N) Reference: 14238339.37
Easting (E) Reference: 1745415.46
Magnetic North: 111° 12' 10" W
Magnetic Declination: 11° 13' 15" W
Magnetic Declination: 11° 13' 15" W



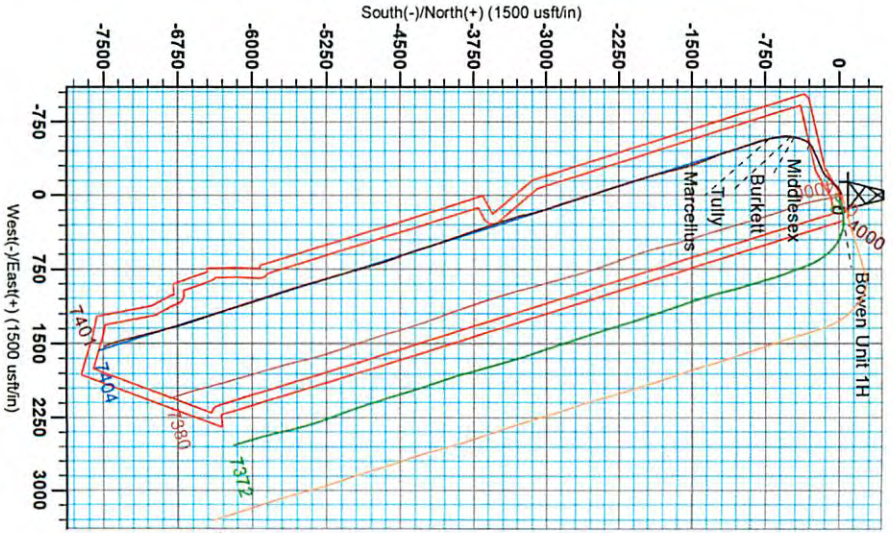
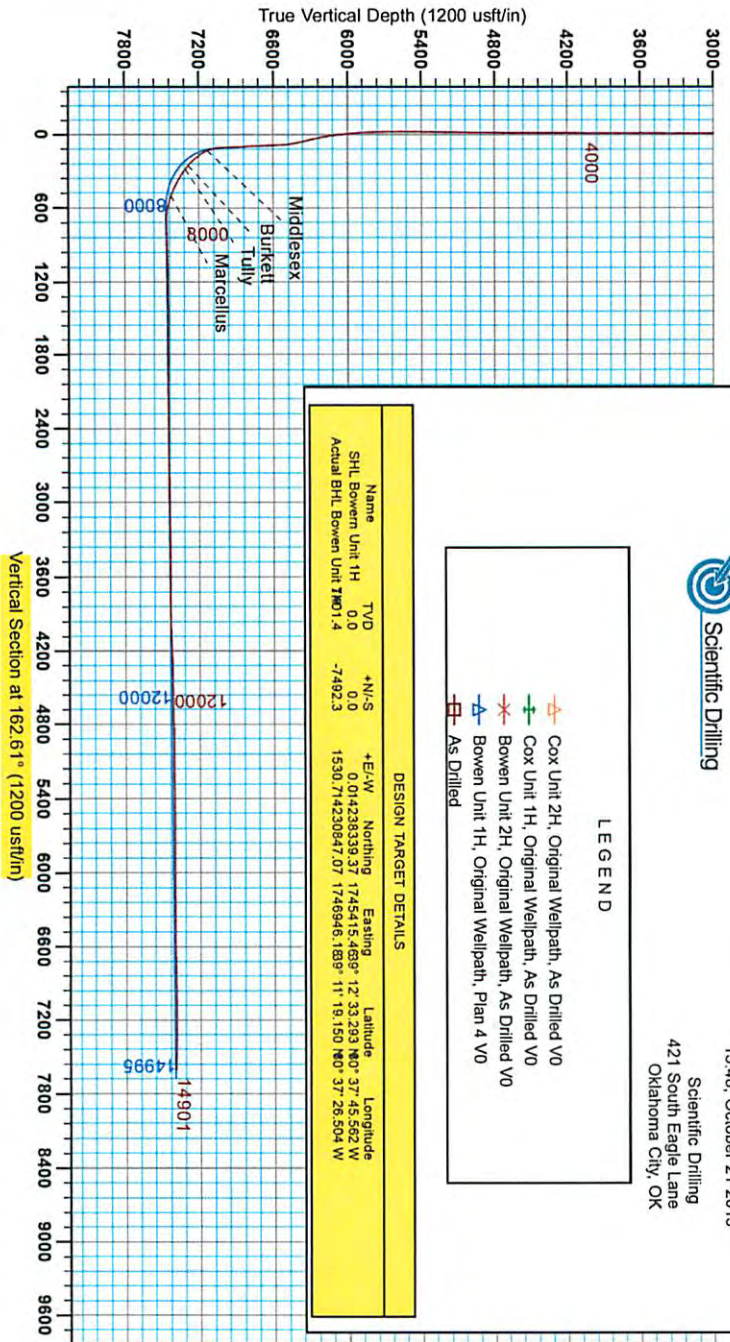
Gentle Lightfoot
15.48, October 21 2013
Scientific Drilling
421 South Eagle Lane
Oklahoma City, OK

LEGEND

- ▲ Cox Unit 2H, Original Wellpath, As Drilled VO
- ▲ Cox Unit 1H, Original Wellpath, As Drilled VO
- ▲ Bowen Unit 2H, Original Wellpath, As Drilled VO
- ▲ Bowen Unit 1H, Original Wellpath, Plan 4 VO
- As Drilled

DESIGN TARGET DETAILS

| Name | TVD | +N/S | +E/W | Northing | Easting | Latitude | Longitude |
|--------------------------|-----|---------|--------|-------------|---------------|---------------|----------------|
| SHL Bowen Unit 1H | 0.0 | 0.0 | 0.0 | 14238339.37 | 1745415.46 | 37° 43.502' W | 109° 00' 00" W |
| Actual BHL Bowen Unit 1H | 1.4 | -7492.3 | 1530.7 | 14238084.07 | 17469946.1889 | 11° 13' 15" W | 109° 00' 00" W |



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Antero Resources

Doddridge County WV
Trent/Bowen/Cox/Life/Baker Pad
Bowen Unit 1H
Original Wellpath

Design: As Drilled

EOW Completion Report

21 October, 2013

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WV Department of
Environmental Protection



Scientific Drilling

9/07/20/90



EOW Completion Report



| | | | |
|------------------|--------------------------------|-------------------------------------|---|
| Company: | Antero Resources | Local Co-ordinate Reference: | Well Bowen Unit 1H |
| Project: | Doddridge County WV | TVD Reference: | Bowen Unit 1H GL 1408 + 22.5' RKB @ 1430.5usf |
| Site: | Trent/Bowen/Cox/Life/Baker Pad | MD Reference: | Bowen Unit 1H GL 1408 + 22.5' RKB @ 1430.5usf |
| Well: | Bowen Unit 1H | North Reference: | Grid |
| Wellbore: | Original Wellpath | Survey Calculation Method: | Minimum Curvature |
| Design: | As Drilled | Database: | Oklahoma District |

| | | | |
|--------------------|--|----------------------|----------------|
| Project | Doddridge County WV, McClellan District | | |
| Map System: | Universal Transverse Mercator (US Survey Fee | System Datum: | Mean Sea Level |
| Geo Datum: | NAD 1927 (NADCON CONUS) | | |
| Map Zone: | Zone 17N (84 W to 78 W) | | |

| | | | | | |
|------------------------------|--------------------------------|---------------------|--------------------|--------------------------|------------------|
| Site | Trent/Bowen/Cox/Life/Baker Pad | | | | |
| Site Position: | | Northing: | 14,238,330.29 usft | Latitude: | 39° 12' 33.204 N |
| From: | Map | Easting: | 1,745,410.61 usft | Longitude: | 80° 37' 45.625 W |
| Position Uncertainty: | 0.0 usft | Slot Radius: | 13-3/16" | Grid Convergence: | 0.23 ° |

| | | | | | | |
|-----------------------------|--------------------------|----------|----------------------------|--------------------|----------------------|------------------|
| Well | Bowen Unit 1H, Marcellus | | | | | |
| Well Position | +N/-S | 0.0 usft | Northing: | 14,238,339.37 usft | Latitude: | 39° 12' 33.293 N |
| | +E/-W | 0.0 usft | Easting: | 1,745,415.46 usft | Longitude: | 80° 37' 45.562 W |
| Position Uncertainty | | 2.0 usft | Wellhead Elevation: | 1,430.5 usft | Ground Level: | 1,408.0 usft |

| | | | | | |
|-----------------|-------------------|--|--|--|--|
| Wellbore | Original Wellpath | | | | |
|-----------------|-------------------|--|--|--|--|

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|-----------|------------|-------------|-----------------|---------------|---------------------|
| | IGRF2010 | 8/7/2013 | -8.53 | 66.81 | 52,338 |

| | | | | | |
|---------------|------------|--|--|--|--|
| Design | As Drilled | | | | |
|---------------|------------|--|--|--|--|

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

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| Survey Program | Date 10/21/2013 | | | | |
|-----------------------|-----------------|--|---------------------|--|--|
| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description | |
| 100.0 | 6,903.0 | Survey #6 Final Gyro (Original Wellpath) | SDI Standard Keeper | Scientific Drilling Intl. Standard Wireline Keeper | |
| 7,011.0 | 14,901.0 | Survey #7 MWD (Original Wellpath) | SDI MWD | Scientific Drilling Intl. MWD - Standard ver 1.0.1 | |

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| 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 |
| 100.0 | 0.52 | 241.80 | 100.0 | -0.2 | -0.4 | 0.1 | 0.52 |
| 200.0 | 0.59 | 266.83 | 200.0 | -0.5 | -1.3 | 0.0 | 0.25 |
| 300.0 | 0.77 | 298.43 | 300.0 | -0.2 | -2.4 | -0.6 | 0.41 |
| 400.0 | 0.73 | 301.78 | 400.0 | 0.5 | -3.6 | -1.5 | 0.06 |
| 500.0 | 0.89 | 306.26 | 500.0 | 1.3 | -4.7 | -2.6 | 0.17 |
| 600.0 | 0.73 | 301.47 | 600.0 | 2.1 | -5.9 | -3.7 | 0.17 |
| 700.0 | 0.62 | 305.54 | 700.0 | 2.7 | -6.9 | -4.7 | 0.12 |
| 800.0 | 0.61 | 310.64 | 799.9 | 3.4 | -7.7 | -5.5 | 0.06 |
| 900.0 | 0.51 | 312.73 | 899.9 | 4.0 | -8.4 | -6.4 | 0.10 |
| 1,000.0 | 0.43 | 324.25 | 999.9 | 4.6 | -9.0 | -7.1 | 0.12 |



| | | | |
|------------------|--------------------------------|-------------------------------------|--|
| Company: | Antero Resources | Local Co-ordinate Reference: | Well Bowen Unit 1H |
| Project: | Doddridge County WV | TVD Reference: | Bowen Unit 1H GL 1408 + 22.5' RKB @ 1430.5us |
| Site: | Trent/Bowen/Cox/Life/Baker Pad | MD Reference: | Bowen Unit 1H GL 1408 + 22.5' RKB @ 1430.5us |
| Well: | Bowen Unit 1H | North Reference: | Grid |
| Wellbore: | Original Wellpath | Survey Calculation Method: | Minimum Curvature |
| Design: | As Drilled | Database: | Oklahoma District |

| Survey | | | | | | | | | |
|-----------|---------|-------------------|------------|------------|------------|---------------|------------------|--|--|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | N/S (usft) | E/W (usft) | V. Sec (usft) | DLeg (°/100usft) | | |
| 1,100.0 | 0.35 | 315.70 | 1,099.9 | 5.2 | -9.4 | -7.7 | 0.10 | | |
| 1,200.0 | 0.39 | 309.68 | 1,199.9 | 5.6 | -9.9 | -8.3 | 0.06 | | |
| 1,300.0 | 0.41 | 330.10 | 1,299.9 | 6.1 | -10.3 | -8.9 | 0.14 | | |
| 1,400.0 | 0.43 | 332.81 | 1,399.9 | 6.8 | -10.7 | -9.7 | 0.03 | | |
| 1,500.0 | 0.21 | 346.04 | 1,499.9 | 7.3 | -10.9 | -10.2 | 0.23 | | |
| 1,600.0 | 0.19 | 26.70 | 1,599.9 | 7.6 | -10.9 | -10.5 | 0.14 | | |
| 1,700.0 | 0.17 | 20.17 | 1,699.9 | 7.9 | -10.8 | -10.7 | 0.03 | | |
| 1,800.0 | 0.29 | 37.98 | 1,799.9 | 8.2 | -10.5 | -11.0 | 0.14 | | |
| 1,900.0 | 0.24 | 30.42 | 1,899.9 | 8.6 | -10.3 | -11.3 | 0.06 | | |
| 2,000.0 | 0.25 | 34.17 | 1,999.9 | 9.0 | -10.1 | -11.6 | 0.02 | | |
| 2,100.0 | 0.30 | 84.01 | 2,099.9 | 9.2 | -9.7 | -11.7 | 0.24 | | |
| 2,200.0 | 0.33 | 96.57 | 2,199.9 | 9.2 | -9.1 | -11.5 | 0.08 | | |
| 2,300.0 | 0.36 | 72.14 | 2,299.9 | 9.2 | -8.5 | -11.4 | 0.15 | | |
| 2,400.0 | 0.30 | 57.67 | 2,399.9 | 9.5 | -8.0 | -11.4 | 0.10 | | |
| 2,500.0 | 0.20 | 93.87 | 2,499.9 | 9.6 | -7.6 | -11.4 | 0.18 | | |
| 2,600.0 | 0.10 | 100.66 | 2,599.9 | 9.6 | -7.4 | -11.3 | 0.10 | | |
| 2,700.0 | 0.07 | 309.51 | 2,699.9 | 9.6 | -7.3 | -11.4 | 0.16 | | |
| 2,800.0 | 0.14 | 218.10 | 2,799.9 | 9.5 | -7.4 | -11.3 | 0.16 | | |
| 2,900.0 | 0.13 | 269.05 | 2,899.9 | 9.4 | -7.6 | -11.3 | 0.12 | | |
| 3,000.0 | 0.15 | 306.07 | 2,999.9 | 9.5 | -7.9 | -11.4 | 0.09 | | |
| 3,100.0 | 0.13 | 324.47 | 3,099.9 | 9.7 | -8.0 | -11.6 | 0.05 | | |
| 3,200.0 | 0.15 | 308.47 | 3,199.9 | 9.9 | -8.2 | -11.9 | 0.04 | | |
| 3,300.0 | 0.22 | 329.39 | 3,299.9 | 10.1 | -8.4 | -12.2 | 0.10 | | |
| 3,400.0 | 0.32 | 349.91 | 3,399.9 | 10.5 | -8.5 | -12.6 | 0.14 | | |
| 3,500.0 | 0.28 | 349.29 | 3,499.9 | 11.1 | -8.6 | -13.1 | 0.04 | | |
| 3,600.0 | 0.25 | 355.39 | 3,599.9 | 11.5 | -8.7 | -13.6 | 0.04 | | |
| 3,700.0 | 0.07 | 254.63 | 3,699.9 | 11.7 | -8.8 | -13.8 | 0.27 | | |
| 3,800.0 | 0.15 | 328.59 | 3,799.9 | 11.8 | -8.9 | -13.9 | 0.15 | | |
| 3,900.0 | 0.14 | 290.92 | 3,899.9 | 12.0 | -9.1 | -14.1 | 0.09 | | |
| 4,000.0 | 0.15 | 304.73 | 3,999.9 | 12.1 | -9.3 | -14.3 | 0.04 | | |
| 4,100.0 | 0.06 | 45.50 | 4,099.9 | 12.2 | -9.4 | -14.4 | 0.17 | | |
| 4,200.0 | 0.08 | 26.81 | 4,199.9 | 12.3 | -9.3 | -14.5 | 0.03 | | |
| 4,300.0 | 0.08 | 26.84 | 4,299.9 | 12.4 | -9.2 | -14.6 | 0.00 | | |
| 4,400.0 | 0.21 | 7.40 | 4,399.9 | 12.7 | -9.2 | -14.8 | 0.14 | | |
| 4,500.0 | 0.35 | 40.35 | 4,499.9 | 13.1 | -9.0 | -15.2 | 0.21 | | |
| 4,600.0 | 0.42 | 45.85 | 4,599.9 | 13.6 | -8.5 | -15.5 | 0.08 | | |
| 4,700.0 | 0.42 | 39.26 | 4,699.9 | 14.1 | -8.0 | -15.9 | 0.05 | | |
| 4,800.0 | 0.60 | 20.76 | 4,799.9 | 14.9 | -7.6 | -16.5 | 0.24 | | |
| 4,900.0 | 0.69 | 6.73 | 4,899.9 | 16.0 | -7.3 | -17.4 | 0.18 | | |
| 5,000.0 | 0.88 | 359.98 | 4,999.9 | 17.3 | -7.3 | -18.7 | 0.21 | | |
| 5,100.0 | 0.41 | 30.39 | 5,099.9 | 18.4 | -7.1 | -19.7 | 0.57 | | |
| 5,200.0 | 0.67 | 13.71 | 5,199.9 | 19.3 | -6.8 | -20.4 | 0.30 | | |
| 5,300.0 | 0.88 | 22.53 | 5,299.9 | 20.6 | -6.3 | -21.5 | 0.24 | | |
| 5,400.0 | 0.97 | 13.27 | 5,399.9 | 22.1 | -5.8 | -22.8 | 0.17 | | |

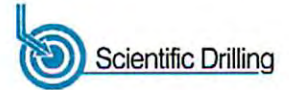
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| Well: | Bowen Unit 1H | North Reference: | Grid |
| Wellbore: | Original Wellpath | Survey Calculation Method: | Minimum Curvature |
| Design: | As Drilled | Database: | Oklahoma District |

| Survey | | | | | | | | |
|------------------|---------|-------------------|------------|------------|------------|---------------|------------------|--|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | N/S (usft) | E/W (usft) | V. Sec (usft) | DLeg (°/100usft) | |
| 5,500.0 | 1.75 | 278.53 | 5,499.8 | 23.2 | -7.2 | -24.2 | 2.07 | |
| 5,600.0 | 5.08 | 252.61 | 5,599.6 | 22.1 | -12.9 | -24.9 | 3.59 | |
| 5,700.0 | 7.93 | 244.35 | 5,699.0 | 17.7 | -23.3 | -23.9 | 2.99 | |
| 5,800.0 | 10.79 | 240.40 | 5,797.7 | 10.1 | -37.7 | -20.9 | 2.93 | |
| 5,900.0 | 13.25 | 240.47 | 5,895.5 | -0.1 | -55.8 | -16.6 | 2.46 | |
| 6,000.0 | 14.54 | 225.86 | 5,992.6 | -14.5 | -74.8 | -8.5 | 3.73 | |
| 6,100.0 | 17.32 | 229.04 | 6,088.7 | -33.0 | -95.1 | 3.1 | 2.91 | |
| 6,200.0 | 21.22 | 224.90 | 6,183.1 | -55.6 | -119.1 | 17.5 | 4.13 | |
| 6,300.0 | 25.14 | 223.50 | 6,275.0 | -83.9 | -146.5 | 36.2 | 3.96 | |
| 6,400.0 | 27.87 | 223.57 | 6,364.5 | -116.2 | -177.2 | 57.9 | 2.73 | |
| 6,500.0 | 26.66 | 233.18 | 6,453.4 | -146.6 | -211.3 | 76.7 | 4.56 | |
| 6,600.0 | 22.15 | 245.97 | 6,544.5 | -167.8 | -246.5 | 86.4 | 6.92 | |
| 6,700.0 | 21.49 | 247.53 | 6,637.4 | -182.4 | -280.7 | 90.2 | 0.88 | |
| 6,800.0 | 24.59 | 246.99 | 6,729.4 | -197.6 | -316.8 | 93.9 | 3.11 | |
| 6,900.0 | 28.10 | 246.13 | 6,819.0 | -215.2 | -357.5 | 98.6 | 3.53 | |
| 6,903.0 | 28.78 | 246.46 | 6,821.6 | -215.8 | -358.8 | 98.7 | 23.26 | |
| 7,011.0 | 29.46 | 246.29 | 6,916.0 | -236.9 | -406.9 | 104.4 | 0.63 | |
| 7,105.0 | 28.40 | 245.24 | 6,998.2 | -255.5 | -448.4 | 109.8 | 1.25 | |
| 7,135.0 | 28.11 | 245.24 | 7,024.6 | -261.5 | -461.3 | 111.7 | 0.97 | |
| 7,165.0 | 30.68 | 242.49 | 7,050.8 | -268.0 | -474.5 | 113.9 | 9.67 | |
| 7,195.0 | 34.56 | 239.17 | 7,076.0 | -275.9 | -488.6 | 117.2 | 14.24 | |
| 7,226.0 | 38.50 | 233.38 | 7,101.0 | -286.1 | -503.9 | 122.5 | 16.87 | |
| 7,257.0 | 41.24 | 225.38 | 7,124.8 | -299.1 | -518.9 | 130.3 | 18.74 | |
| 7,266.0 | 41.86 | 223.26 | 7,131.5 | -303.4 | -523.1 | 133.2 | 17.05 | |
| Middlesex | | | | | | | | |
| 7,287.0 | 43.44 | 218.52 | 7,147.0 | -314.1 | -532.4 | 140.6 | 17.05 | |
| 7,318.0 | 44.93 | 211.49 | 7,169.2 | -331.8 | -544.8 | 153.8 | 16.51 | |
| 7,348.0 | 45.88 | 206.93 | 7,190.3 | -350.4 | -555.2 | 168.5 | 11.28 | |
| 7,379.0 | 46.87 | 203.49 | 7,211.7 | -370.7 | -567.7 | 185.0 | 8.64 | |
| 7,410.0 | 47.92 | 200.33 | 7,232.6 | -391.9 | -573.2 | 202.7 | 8.23 | |
| 7,440.0 | 49.86 | 196.99 | 7,252.4 | -413.3 | -580.5 | 220.9 | 10.59 | |
| 7,471.0 | 52.06 | 194.26 | 7,271.9 | -436.5 | -586.9 | 241.1 | 9.86 | |
| 7,492.0 | 53.29 | 192.84 | 7,284.6 | -452.7 | -590.8 | 255.5 | 7.96 | |
| Burkett | | | | | | | | |
| 7,501.0 | 53.82 | 192.24 | 7,290.0 | -459.8 | -592.4 | 261.7 | 7.96 | |
| 7,531.0 | 55.49 | 190.22 | 7,307.3 | -483.8 | -597.2 | 283.2 | 7.82 | |
| 7,534.0 | 55.67 | 189.74 | 7,309.0 | -486.2 | -597.6 | 285.4 | 14.54 | |
| Tully | | | | | | | | |
| 7,561.0 | 57.33 | 185.47 | 7,323.9 | -508.5 | -600.6 | 305.8 | 14.54 | |
| 7,592.0 | 59.88 | 179.58 | 7,340.1 | -535.0 | -601.7 | 330.7 | 18.18 | |
| 7,622.0 | 61.64 | 173.17 | 7,354.8 | -561.1 | -600.1 | 356.1 | 19.54 | |
| 7,653.0 | 62.17 | 171.50 | 7,369.4 | -588.2 | -596.4 | 383.0 | 5.05 | |
| 7,683.0 | 61.99 | 170.09 | 7,383.4 | -614.3 | -592.2 | 409.3 | 4.20 | |
| 7,714.0 | 64.46 | 170.18 | 7,397.4 | -641.6 | -587.4 | 436.7 | 7.97 | |
| 7,745.0 | 67.62 | 169.39 | 7,410.0 | -669.5 | -582.4 | 464.8 | 10.46 | |

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| Design: | As Drilled | Database: | Oklahoma District |

| Survey | | | | | | | |
|------------------|---------|-------------------|------------|------------|-----------|---------------|------------------|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | N/S (usft) | EW (usft) | V. Sec (usft) | DLeg (°/100usft) |
| 7,775.0 | 70.00 | 168.16 | 7,420.8 | -696.9 | -577.0 | 492.6 | 8.81 |
| 7,785.0 | 70.74 | 167.77 | 7,424.2 | -706.1 | -575.0 | 502.0 | 8.26 |
| Marcellus | | | | | | | |
| 7,806.0 | 72.29 | 166.95 | 7,430.8 | -725.6 | -570.6 | 521.8 | 8.26 |
| 7,837.0 | 75.18 | 166.23 | 7,439.5 | -754.5 | -563.7 | 551.5 | 9.59 |
| 7,868.0 | 77.47 | 165.35 | 7,446.8 | -783.7 | -556.3 | 581.6 | 7.89 |
| 7,898.0 | 79.33 | 164.66 | 7,452.9 | -812.1 | -548.7 | 611.0 | 6.60 |
| 7,929.0 | 83.01 | 162.01 | 7,457.6 | -841.4 | -539.9 | 641.6 | 14.57 |
| 7,960.0 | 87.76 | 159.63 | 7,460.1 | -870.6 | -529.8 | 672.5 | 17.13 |
| 8,049.0 | 92.42 | 160.25 | 7,460.0 | -954.2 | -499.3 | 761.3 | 5.28 |
| 8,140.0 | 91.10 | 162.01 | 7,457.2 | -1,040.2 | -469.9 | 852.3 | 2.42 |
| 8,232.0 | 91.54 | 162.97 | 7,455.1 | -1,127.9 | -442.2 | 944.2 | 1.15 |
| 8,327.0 | 90.66 | 159.19 | 7,453.2 | -1,217.8 | -411.4 | 1,039.2 | 4.08 |
| 8,422.0 | 90.04 | 157.35 | 7,452.7 | -1,306.0 | -376.2 | 1,133.9 | 2.04 |
| 8,517.0 | 90.13 | 159.28 | 7,452.5 | -1,394.3 | -341.1 | 1,228.6 | 2.03 |
| 8,611.0 | 91.19 | 161.04 | 7,451.4 | -1,482.7 | -309.2 | 1,322.5 | 2.19 |
| 8,706.0 | 91.10 | 166.40 | 7,449.5 | -1,573.8 | -282.6 | 1,417.4 | 5.64 |
| 8,801.0 | 90.13 | 166.23 | 7,448.5 | -1,666.1 | -260.1 | 1,512.2 | 1.04 |
| 8,896.0 | 89.60 | 164.99 | 7,448.7 | -1,758.2 | -236.5 | 1,607.1 | 1.42 |
| 8,991.0 | 89.60 | 165.61 | 7,449.4 | -1,850.0 | -212.4 | 1,702.0 | 0.65 |
| 9,086.0 | 91.54 | 164.82 | 7,448.5 | -1,941.9 | -188.2 | 1,796.9 | 2.20 |
| 9,181.0 | 89.08 | 164.12 | 7,447.9 | -2,033.4 | -162.7 | 1,891.8 | 2.69 |
| 9,275.0 | 88.72 | 162.53 | 7,449.7 | -2,123.4 | -135.8 | 1,985.8 | 1.73 |
| 9,370.0 | 89.43 | 162.09 | 7,451.3 | -2,213.9 | -106.9 | 2,080.8 | 0.88 |
| 9,465.0 | 91.45 | 163.76 | 7,450.5 | -2,304.7 | -79.0 | 2,175.8 | 2.76 |
| 9,560.0 | 89.60 | 161.30 | 7,449.7 | -2,395.3 | -50.5 | 2,270.8 | 3.24 |
| 9,655.0 | 90.04 | 161.39 | 7,450.0 | -2,485.3 | -20.1 | 2,365.7 | 0.47 |
| 9,750.0 | 91.28 | 164.47 | 7,448.9 | -2,576.1 | 7.8 | 2,460.7 | 3.49 |
| 9,844.0 | 90.22 | 162.45 | 7,447.7 | -2,666.2 | 37.5 | 2,554.7 | 2.43 |
| 9,940.0 | 90.92 | 163.32 | 7,446.7 | -2,758.0 | 62.8 | 2,650.7 | 1.16 |
| 10,035.0 | 90.04 | 162.18 | 7,445.9 | -2,848.7 | 90.9 | 2,745.7 | 1.52 |
| 10,130.0 | 91.45 | 160.25 | 7,444.7 | -2,938.6 | 121.5 | 2,840.6 | 2.52 |
| 10,225.0 | 91.28 | 163.50 | 7,442.4 | -3,028.9 | 151.1 | 2,935.6 | 3.42 |
| 10,320.0 | 91.10 | 166.23 | 7,440.4 | -3,120.6 | 175.9 | 3,030.5 | 2.88 |
| 10,415.0 | 91.36 | 169.39 | 7,438.4 | -3,213.4 | 195.9 | 3,125.1 | 3.34 |
| 10,510.0 | 90.04 | 163.68 | 7,437.2 | -3,305.7 | 218.0 | 3,219.8 | 6.17 |
| 10,605.0 | 89.08 | 162.18 | 7,438.0 | -3,396.5 | 245.9 | 3,314.8 | 1.87 |
| 10,700.0 | 90.92 | 161.65 | 7,438.0 | -3,486.8 | 275.4 | 3,409.8 | 2.02 |
| 10,795.0 | 91.63 | 162.18 | 7,435.8 | -3,577.1 | 304.9 | 3,504.7 | 0.93 |
| 10,890.0 | 90.71 | 161.47 | 7,433.9 | -3,667.4 | 334.5 | 3,599.7 | 1.22 |
| 10,985.0 | 88.55 | 160.61 | 7,434.5 | -3,757.2 | 365.4 | 3,694.7 | 2.45 |
| 11,080.0 | 90.31 | 160.95 | 7,435.5 | -3,846.9 | 396.6 | 3,789.6 | 1.89 |
| 11,175.0 | 90.04 | 161.30 | 7,435.2 | -3,936.8 | 427.4 | 3,884.6 | 0.47 |
| 11,271.0 | 89.87 | 159.81 | 7,435.2 | -4,027.3 | 459.3 | 3,980.5 | 1.56 |

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|------------------|--------------------------------|-------------------------------------|--|
| Company: | Antero Resources | Local Co-ordinate Reference: | Well Bowen Unit 1H |
| Project: | Doddridge County WV | TVD Reference: | Bowen Unit 1H GL 1408 + 22.5' RKB @ 1430.5us |
| Site: | Trent/Bowen/Cox/Life/Baker Pad | MD Reference: | Bowen Unit 1H GL 1408 + 22.5' RKB @ 1430.5us |
| Well: | Bowen Unit 1H | North Reference: | Grid |
| Wellbore: | Original Wellpath | Survey Calculation Method: | Minimum Curvature |
| Design: | As Drilled | Database: | Oklahoma District |

| Survey | | | | | | | | |
|-----------|---------|-------------------|------------|------------|------------|---------------|------------------|--|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | N/S (usft) | E/W (usft) | V. Sec (usft) | DLeg (°/100usft) | |
| 11,366.0 | 93.30 | 162.45 | 7,432.6 | -4,117.1 | 490.0 | 4,075.4 | 4.56 | |
| 11,461.0 | 93.21 | 162.09 | 7,427.2 | -4,207.5 | 518.9 | 4,170.3 | 0.39 | |
| 11,556.0 | 92.15 | 163.50 | 7,422.8 | -4,298.1 | 547.0 | 4,265.2 | 1.86 | |
| 11,651.0 | 90.92 | 160.78 | 7,420.2 | -4,388.5 | 576.1 | 4,360.1 | 3.14 | |
| 11,746.0 | 90.13 | 157.96 | 7,419.4 | -4,477.4 | 609.6 | 4,454.9 | 3.08 | |
| 11,841.0 | 91.89 | 159.28 | 7,417.7 | -4,565.8 | 644.2 | 4,549.7 | 2.32 | |
| 11,936.0 | 90.57 | 162.45 | 7,415.7 | -4,655.6 | 675.3 | 4,644.6 | 3.61 | |
| 12,031.0 | 90.04 | 163.59 | 7,415.1 | -4,746.4 | 703.1 | 4,739.6 | 1.32 | |
| 12,126.0 | 93.30 | 164.73 | 7,412.4 | -4,837.8 | 729.0 | 4,834.5 | 3.64 | |
| 12,221.0 | 89.69 | 164.64 | 7,409.9 | -4,929.3 | 754.1 | 4,929.4 | 3.80 | |
| 12,315.0 | 89.60 | 163.59 | 7,410.5 | -5,019.7 | 779.8 | 5,023.4 | 1.12 | |
| 12,410.0 | 90.48 | 163.59 | 7,410.4 | -5,110.9 | 806.6 | 5,118.3 | 0.93 | |
| 12,505.0 | 90.84 | 164.38 | 7,409.3 | -5,202.2 | 832.8 | 5,213.3 | 0.91 | |
| 12,600.0 | 90.31 | 162.80 | 7,408.4 | -5,293.3 | 859.7 | 5,308.3 | 1.75 | |
| 12,695.0 | 90.84 | 165.08 | 7,407.4 | -5,384.6 | 886.0 | 5,403.3 | 2.46 | |
| 12,790.0 | 89.78 | 163.41 | 7,406.9 | -5,476.0 | 911.7 | 5,498.2 | 2.08 | |
| 12,885.0 | 89.52 | 161.74 | 7,407.5 | -5,566.6 | 940.2 | 5,593.2 | 1.78 | |
| 12,980.0 | 90.22 | 161.48 | 7,407.7 | -5,656.8 | 970.2 | 5,688.2 | 0.79 | |
| 13,074.0 | 91.54 | 162.27 | 7,406.3 | -5,746.1 | 999.4 | 5,782.2 | 1.64 | |
| 13,169.0 | 89.16 | 162.71 | 7,405.7 | -5,836.7 | 1,028.0 | 5,877.2 | 2.55 | |
| 13,264.0 | 88.99 | 162.09 | 7,407.2 | -5,927.2 | 1,056.7 | 5,972.1 | 0.68 | |
| 13,359.0 | 90.04 | 162.09 | 7,408.0 | -6,017.6 | 1,085.9 | 6,067.1 | 1.11 | |
| 13,454.0 | 90.66 | 162.09 | 7,407.4 | -6,108.0 | 1,115.1 | 6,162.1 | 0.65 | |
| 13,550.0 | 90.40 | 160.34 | 7,406.5 | -6,198.9 | 1,146.0 | 6,258.1 | 1.84 | |
| 13,645.0 | 91.36 | 162.62 | 7,405.1 | -6,289.0 | 1,176.2 | 6,353.1 | 2.60 | |
| 13,739.0 | 90.13 | 160.16 | 7,403.9 | -6,378.0 | 1,206.2 | 6,447.0 | 2.93 | |
| 13,834.0 | 90.04 | 160.42 | 7,403.7 | -6,467.5 | 1,238.2 | 6,541.9 | 0.29 | |
| 13,929.0 | 91.28 | 162.62 | 7,402.6 | -6,557.6 | 1,268.4 | 6,636.9 | 2.66 | |
| 14,024.0 | 90.66 | 161.57 | 7,401.0 | -6,647.9 | 1,297.6 | 6,731.9 | 1.28 | |
| 14,119.0 | 91.45 | 165.87 | 7,399.3 | -6,739.1 | 1,324.2 | 6,826.8 | 4.60 | |
| 14,214.0 | 91.28 | 165.43 | 7,397.0 | -6,831.1 | 1,347.7 | 6,921.7 | 0.50 | |
| 14,309.0 | 91.71 | 165.08 | 7,394.5 | -6,922.9 | 1,371.9 | 7,016.5 | 0.58 | |
| 14,403.0 | 89.16 | 166.05 | 7,393.8 | -7,014.0 | 1,395.3 | 7,110.4 | 2.90 | |
| 14,498.0 | 89.16 | 166.05 | 7,395.2 | -7,106.2 | 1,418.2 | 7,205.2 | 0.00 | |
| 14,593.0 | 89.08 | 165.61 | 7,396.7 | -7,198.3 | 1,441.5 | 7,300.1 | 0.47 | |
| 14,688.0 | 89.87 | 166.66 | 7,397.5 | -7,290.5 | 1,464.2 | 7,394.9 | 1.38 | |
| 14,783.0 | 89.78 | 163.94 | 7,397.8 | -7,382.4 | 1,488.3 | 7,489.8 | 2.86 | |
| 14,851.0 | 87.38 | 157.38 | 7,399.5 | -7,446.5 | 1,510.8 | 7,557.7 | 10.27 | |
| 14,901.0 | 88.36 | 155.69 | 7,401.4 | -7,492.3 | 1,530.7 | 7,607.3 | 3.91 | |

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EOW Completion Report



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|------------------|--------------------------------|-------------------------------------|--|
| Company: | Antero Resources | Local Co-ordinate Reference: | Well Bowen Unit 1H |
| Project: | Doddridge County WV | TVD Reference: | Bowen Unit 1H GL 1408 + 22.5' RKB @ 1430.5us |
| Site: | Trent/Bowen/Cox/Life/Baker Pad | MD Reference: | Bowen Unit 1H GL 1408 + 22.5' RKB @ 1430.5us |
| Well: | Bowen Unit 1H | North Reference: | Grid |
| Wellbore: | Original Wellpath | Survey Calculation Method: | Minimum Curvature |
| Design: | As Drilled | Database: | Oklahoma District |

Design Annotations

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment |
|-----------------------|-----------------------|-------------------|--------------|-----------|
| | | +N/-S (usft) | +E/-W (usft) | |
| 7,266.0 | 7,131.5 | -303.4 | -523.1 | Middlesex |
| 7,492.0 | 7,284.6 | -452.7 | -590.8 | Burkett |
| 7,534.0 | 7,309.0 | -486.2 | -597.6 | Tully |
| 7,785.0 | 7,424.2 | -706.1 | -575.0 | Marcellus |

Checked By: _____ Approved By: _____ Date: _____

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