

RECEIVED

AUG 24 2015

WV GEOLOGICAL SURVEY
MORGANTOWN, WV



Life Unit 1H
Doddridge County WW
Northings: 14238375.65
Easting: 1745432.85
As Drilled



Azimuths to Grid North
True North: -0.23°
Magnetic North: -3.79°
Magnetic Field
Strength: 52269.6 nT
Declination: 68.7°
Date: 3/20/2014
Model: IGRF2010

To convert Magnetic North to Grid, Subtract 4.79°
To convert True North to Grid, Subtract 0.23°

WELL DETAILS Life Unit 1H

| | | | |
|---------------|-------------|----------|------------------|
| Ground Level: | 1407.0 | Latitude | 80° 37' 45.340 W |
| Northing | 14238375.65 | Easting | 1745432.85 |
| +N/-S | 0.0 | +E/-W | 0.0 |

SITE DETAILS: Trent Pad: Bowen/Cox/Life/Baker/Nestor

| | |
|-------------------------|-------------|
| Site Center: | Cox Unit 2H |
| Site Centre Northing: | 14238330.29 |
| Easting: | 1745410.61 |
| Positional Uncertainty: | 0.0 |
| Convergence: | 0.23 |
| Local North: | Grid |

PROJECT DETAILS: Doddridge County WW

| | |
|---------------|---|
| Geoid: | Universal Transverse Mercator (US Survey) |
| Date: | 05-55, August 15 2014 |
| Ellipsoid: | NAD 1983 (NAD83 CONUS) |
| Zone: | 17N (84 W to 78 W) |
| System Datum: | Mean Sea Level |
| Address: | 421 South Eagle Lane Oklahoma City, OK 73128 |

LEGEND

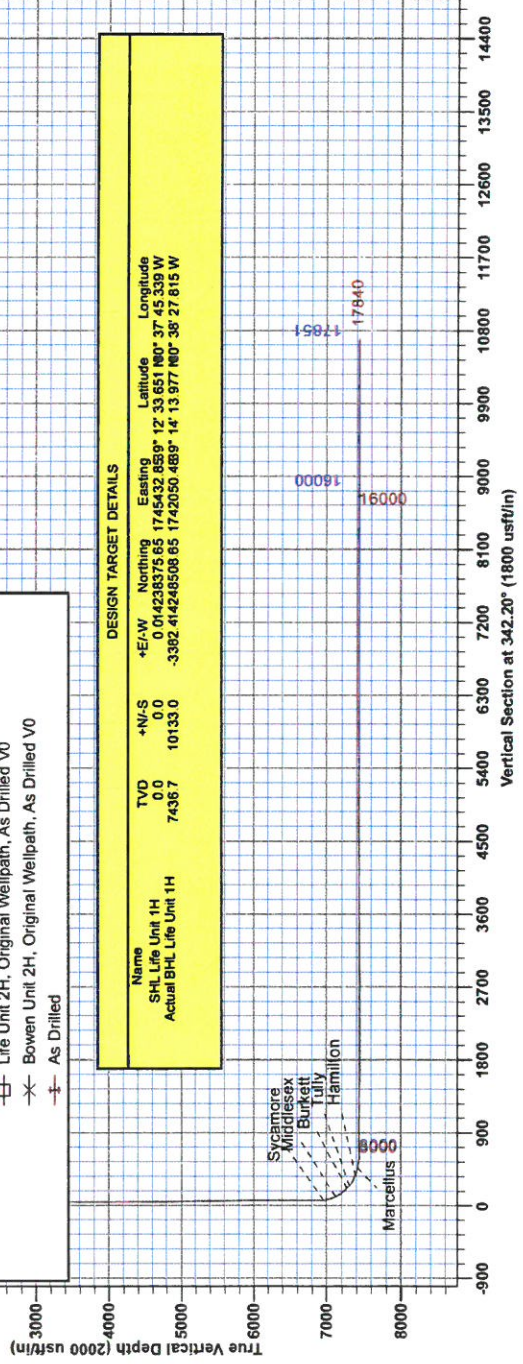
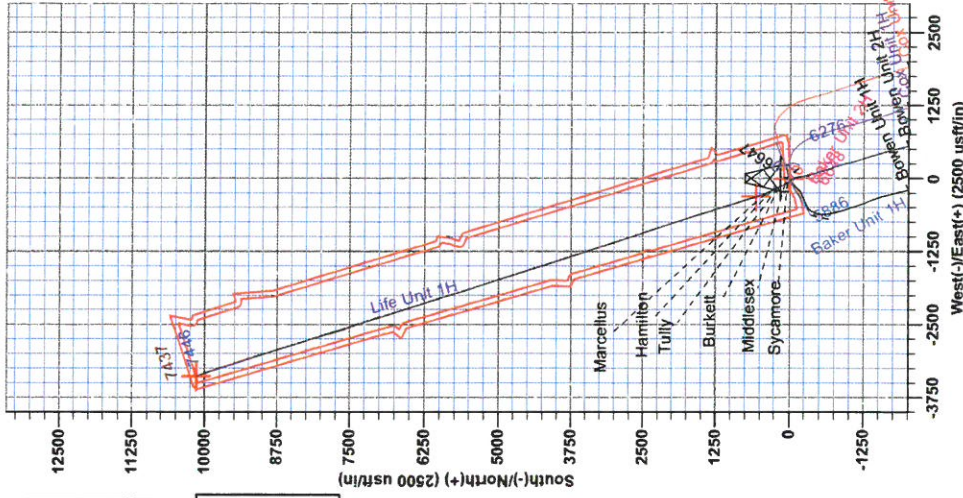
- △ Baker Unit 1H, Original Wellpath, As Drilled V0
- Cox Unit 2H, Original Wellpath, As Drilled V0
- Cox Unit 1H, Original Wellpath, As Drilled V0
- △ Nestor Unit 1H, Original Wellpath, As Drilled V0
- Life Unit 1H, Original Wellpath, Plan 5 V0
- △ Bowen Unit 1H, Original Wellpath, As Drilled V0
- Baker Unit 2H, Original Wellpath, As Drilled V0
- Life Unit 2H, Original Wellpath, As Drilled V0
- × Bowen Unit 2H, Original Wellpath, As Drilled V0
- As Drilled

DESIGN TARGET DETAILS

| Name | TVD | +N/-S | +E/-W | Northing | Easting |
|-------------------------|--------|---------|---------|-------------|------------|
| SHL Life Unit 1H | 0.0 | 0.0 | 0.0 | 14238375.65 | 1745432.85 |
| Actual BHL Life Unit 1H | 7436.7 | 10133.0 | -3382.4 | 14246508.65 | 1742050.46 |

DESIGN TARGET DETAILS

| Name | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
|-------------------------|--------|---------|---------|--------------|------------|-----------------|-------------------|
| SHL Life Unit 1H | 0.0 | 0.0 | 0.0 | 014238375.65 | 1745432.85 | 12° 33' 65.1" N | 80° 37' 45.339" W |
| Actual BHL Life Unit 1H | 7436.7 | 10133.0 | -3382.4 | 14246508.65 | 1742050.46 | 14° 13' 87.7" N | 80° 38' 27.815" W |





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Antero Resources

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

Design: As Drilled

EOW Completion Report

14 August, 2014





| | |
|---|---|
| Company: Antero Resources | Local Co-ordinate Reference: Well Life Unit 1H |
| Project: Doddridge County WV | TVD Reference: Precision 525 GL 1407' + 19' RKB @ 1426.0usft |
| Site: Trent Pad: Bowen/Cox/Life/Baker/Nestor | MD Reference: Precision 525 GL 1407' + 19' RKB @ 1426.0usft |
| Well: Life 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 Pad: Bowen/Cox/Life/Baker/Nestor

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

Well Life Unit 1H, Marcellus

| | | | |
|-----------------------------|-----------------------|---|------------------------------------|
| Well Position | +N/-S 0.0 usft | Northing: 14,238,375.65 usft | Latitude: 39° 12' 33.651 N |
| | +E/-W 0.0 usft | Easting: 1,745,432.85 usft | Longitude: 80° 37' 45.340 W |
| Position Uncertainty | 2.0 usft | Wellhead Elevation: 1,426.0 usft | Ground Level: 1,407.0 usft |

Wellbore Original Wellpath

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|-----------|------------|-------------|-----------------|---------------|---------------------|
| | IGRF2010 | 3/20/2014 | -8.55 | 66.75 | 52,263 |

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 | 342.20 |

Survey Program Date 8/14/2014

| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description |
|-------------|-----------|--|---------------------|--|
| 106.0 | 6,623.6 | Survey #4 Def Gyro to KOP (Original Well | SDI Standard Keeper | Scientific Drilling Intl. Standard Wireline Keeper |
| 6,647.0 | 17,840.0 | Survey #5 MWD (Original Wellpath) | SDI MWD | Scientific Drilling Intl. MWD - Standard ver 1.0.1 |

Survey

| 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 |
| 106.0 | 0.14 | 214.60 | 106.0 | -0.1 | -0.1 | -0.1 | 0.13 |
| 206.0 | 0.16 | 211.79 | 206.0 | -0.3 | -0.2 | -0.2 | 0.02 |
| 306.0 | 0.13 | 180.97 | 306.0 | -0.6 | -0.3 | -0.4 | 0.08 |
| 406.0 | 2.38 | 268.74 | 406.0 | -0.7 | -2.4 | 0.0 | 2.38 |
| 506.0 | 4.81 | 276.09 | 505.8 | -0.3 | -8.6 | 2.3 | 2.47 |
| 606.0 | 5.67 | 284.15 | 605.3 | 1.3 | -17.6 | 6.6 | 1.13 |
| 706.0 | 5.84 | 284.87 | 704.8 | 3.8 | -27.3 | 12.0 | 0.18 |
| 806.0 | 5.65 | 288.01 | 804.3 | 6.7 | -36.9 | 17.6 | 0.37 |
| 906.0 | 5.58 | 289.85 | 903.9 | 9.8 | -46.1 | 23.5 | 0.19 |
| 1,006.0 | 5.14 | 292.56 | 1,003.4 | 13.2 | -54.8 | 29.4 | 0.51 |

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WV GEOLOGICAL SURVEY
MORGANTOWN, WV

EOW Completion Report



Company: Antero Resources
Project: Doddridge County WV
Site: Trent Pad: Bowen/Cox/Life/Baker/Nestor
Well: Life Unit 1H
Wellbore: Original Wellpath
Design: As Drilled

Local Co-ordinate Reference: Well Life Unit 1H
TVD Reference: Precision 525 GL 1407' + 19' RKB @ 1426.0usft
MD Reference: Precision 525 GL 1407' + 19' RKB @ 1426.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Oklahoma District

Survey

| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | N/S (usft) | E/W (usft) | V. Sec (usft) | DLeg (°/100usft) |
|-----------|---------|-------------------|------------|------------|------------|---------------|------------------|
| 1,106.0 | 3.62 | 306.08 | 1,103.1 | 16.8 | -61.5 | 34.8 | 1.83 |
| 1,206.0 | 3.12 | 307.11 | 1,203.0 | 20.3 | -66.3 | 39.6 | 0.50 |
| 1,306.0 | 2.19 | 308.01 | 1,302.9 | 23.1 | -69.9 | 43.4 | 0.93 |
| 1,406.0 | 1.67 | 311.77 | 1,402.8 | 25.3 | -72.5 | 46.2 | 0.53 |
| 1,506.0 | 1.08 | 307.83 | 1,502.8 | 26.8 | -74.4 | 48.3 | 0.60 |
| 1,606.0 | 0.57 | 318.56 | 1,602.8 | 27.8 | -75.4 | 49.5 | 0.53 |
| 1,706.0 | 0.34 | 346.30 | 1,702.8 | 28.4 | -75.8 | 50.2 | 0.31 |
| 1,806.0 | 0.19 | 46.46 | 1,802.8 | 28.8 | -75.8 | 50.6 | 0.30 |
| 1,906.0 | 0.26 | 92.64 | 1,902.8 | 28.9 | -75.4 | 50.6 | 0.19 |
| 2,006.0 | 0.38 | 91.29 | 2,002.7 | 28.9 | -74.9 | 50.4 | 0.12 |
| 2,106.0 | 0.55 | 128.18 | 2,102.7 | 28.6 | -74.2 | 49.9 | 0.34 |
| 2,206.0 | 0.58 | 132.86 | 2,202.7 | 28.0 | -73.4 | 49.1 | 0.06 |
| 2,306.0 | 0.43 | 132.58 | 2,302.7 | 27.4 | -72.8 | 48.3 | 0.15 |
| 2,406.0 | 0.42 | 151.61 | 2,402.7 | 26.8 | -72.3 | 47.6 | 0.14 |
| 2,506.0 | 0.33 | 115.15 | 2,502.7 | 26.3 | -71.9 | 47.1 | 0.25 |
| 2,606.0 | 0.29 | 126.47 | 2,602.7 | 26.1 | -71.4 | 46.7 | 0.07 |
| 2,706.0 | 0.21 | 150.66 | 2,702.7 | 25.8 | -71.1 | 46.3 | 0.13 |
| 2,806.0 | 0.13 | 173.85 | 2,802.7 | 25.5 | -71.0 | 46.0 | 0.10 |
| 2,906.0 | 0.27 | 245.45 | 2,902.7 | 25.3 | -71.2 | 45.8 | 0.26 |
| 3,006.0 | 0.21 | 235.10 | 3,002.7 | 25.1 | -71.6 | 45.8 | 0.07 |
| 3,106.0 | 0.23 | 197.75 | 3,102.7 | 24.8 | -71.8 | 45.5 | 0.14 |
| 3,206.0 | 0.34 | 257.28 | 3,202.7 | 24.5 | -72.2 | 45.4 | 0.30 |
| 3,306.0 | 0.08 | 134.44 | 3,302.7 | 24.4 | -72.4 | 45.4 | 0.39 |
| 3,406.0 | 0.15 | 197.23 | 3,402.7 | 24.2 | -72.4 | 45.2 | 0.13 |
| 3,506.0 | 0.09 | 286.03 | 3,502.7 | 24.1 | -72.5 | 45.1 | 0.17 |
| 3,606.0 | 0.10 | 342.32 | 3,602.7 | 24.2 | -72.6 | 45.3 | 0.09 |
| 3,706.0 | 0.03 | 150.29 | 3,702.7 | 24.3 | -72.6 | 45.3 | 0.13 |
| 3,806.0 | 0.17 | 280.68 | 3,802.7 | 24.3 | -72.7 | 45.4 | 0.19 |
| 3,906.0 | 0.16 | 33.69 | 3,902.7 | 24.4 | -72.8 | 45.5 | 0.28 |
| 4,006.0 | 0.06 | 271.59 | 4,002.7 | 24.6 | -72.8 | 45.6 | 0.20 |
| 4,106.0 | 0.15 | 300.28 | 4,102.7 | 24.6 | -73.0 | 45.8 | 0.10 |
| 4,206.0 | 0.07 | 163.53 | 4,202.7 | 24.6 | -73.0 | 45.8 | 0.21 |
| 4,306.0 | 0.21 | 310.21 | 4,302.7 | 24.7 | -73.2 | 45.9 | 0.27 |
| 4,406.0 | 0.20 | 13.74 | 4,402.7 | 25.0 | -73.3 | 46.2 | 0.22 |
| 4,506.0 | 0.24 | 27.63 | 4,502.7 | 25.3 | -73.1 | 46.5 | 0.07 |
| 4,606.0 | 0.30 | 27.50 | 4,602.7 | 25.8 | -72.9 | 46.8 | 0.06 |
| 4,706.0 | 0.41 | 22.54 | 4,702.7 | 26.3 | -72.7 | 47.3 | 0.11 |
| 4,806.0 | 0.50 | 5.31 | 4,802.7 | 27.1 | -72.5 | 47.9 | 0.16 |
| 4,906.0 | 0.49 | 347.97 | 4,902.7 | 27.9 | -72.5 | 48.8 | 0.15 |
| 5,006.0 | 0.56 | 342.51 | 5,002.7 | 28.8 | -72.8 | 49.7 | 0.09 |
| 5,106.0 | 0.66 | 347.09 | 5,102.7 | 29.9 | -73.0 | 50.8 | 0.11 |
| 5,206.0 | 0.72 | 358.14 | 5,202.7 | 31.0 | -73.2 | 51.9 | 0.15 |
| 5,306.0 | 0.65 | 357.11 | 5,302.7 | 32.2 | -73.2 | 53.1 | 0.07 |
| 5,406.0 | 0.77 | 354.61 | 5,402.7 | 33.5 | -73.3 | 54.3 | 0.12 |

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GEOLOGICAL SURVEY
MORGANTOWN, WV

EOW Completion Report



Company: Antero Resources
Project: Doddridge County WV
Site: Trent Pad: Bowen/Cox/Life/Baker/Nestor
Well: Life Unit 1H
Wellbore: Original Wellpath
Design: As Drilled

Local Co-ordinate Reference: Well Life Unit 1H
TVD Reference: Precision 525 GL 1407' + 19' RKB @ 1426.0usft
MD Reference: Precision 525 GL 1407' + 19' RKB @ 1426.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Oklahoma District

Survey

| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | N/S (usft) | E/W (usft) | V. Sec (usft) | DLeg (°/100usft) |
|------------------|---------|-------------------|------------|------------|------------|---------------|------------------|
| 5,506.0 | 0.93 | 357.56 | 5,502.7 | 35.0 | -73.4 | 55.7 | 0.17 |
| 5,606.0 | 0.81 | 354.10 | 5,602.7 | 36.5 | -73.5 | 57.2 | 0.13 |
| 5,706.0 | 0.95 | 348.75 | 5,702.6 | 38.0 | -73.8 | 58.7 | 0.16 |
| 5,806.0 | 0.91 | 350.09 | 5,802.6 | 39.6 | -74.1 | 60.3 | 0.05 |
| 5,906.0 | 0.93 | 346.93 | 5,902.6 | 41.2 | -74.4 | 61.9 | 0.05 |
| 6,006.0 | 0.72 | 341.48 | 6,002.6 | 42.5 | -74.8 | 63.4 | 0.22 |
| 6,106.0 | 0.62 | 346.97 | 6,102.6 | 43.7 | -75.1 | 64.5 | 0.12 |
| 6,206.0 | 0.46 | 329.82 | 6,202.6 | 44.5 | -75.4 | 65.5 | 0.23 |
| 6,306.0 | 0.31 | 9.49 | 6,302.6 | 45.1 | -75.6 | 66.1 | 0.30 |
| 6,406.0 | 0.28 | 51.62 | 6,402.6 | 45.6 | -75.3 | 66.4 | 0.21 |
| 6,506.0 | 0.13 | 59.95 | 6,502.6 | 45.8 | -75.0 | 66.5 | 0.15 |
| 6,606.0 | 0.16 | 131.94 | 6,602.6 | 45.7 | -74.8 | 66.4 | 0.17 |
| 6,623.6 | 0.16 | 135.43 | 6,620.2 | 45.7 | -74.8 | 66.4 | 0.06 |
| 6,647.0 | 0.27 | 102.95 | 6,643.6 | 45.7 | -74.7 | 66.3 | 0.68 |
| 6,687.0 | 0.24 | 81.20 | 6,683.6 | 45.7 | -74.6 | 66.3 | 0.25 |
| 6,732.0 | 0.55 | 101.99 | 6,728.6 | 45.6 | -74.3 | 66.1 | 0.75 |
| 6,777.0 | 0.61 | 113.74 | 6,773.6 | 45.5 | -73.8 | 65.9 | 0.30 |
| 6,822.0 | 0.72 | 111.49 | 6,818.6 | 45.3 | -73.3 | 65.5 | 0.25 |
| 6,866.0 | 0.78 | 123.39 | 6,862.6 | 45.0 | -72.8 | 65.1 | 0.38 |
| 6,911.0 | 0.87 | 125.35 | 6,907.6 | 44.7 | -72.3 | 64.6 | 0.21 |
| 6,956.0 | 3.77 | 327.36 | 6,952.6 | 45.7 | -72.8 | 65.8 | 10.20 |
| 6,960.0 | 4.26 | 327.23 | 6,956.5 | 45.9 | -73.0 | 66.0 | 12.13 |
| Sycamore | | | | | | | |
| 7,001.0 | 9.23 | 326.68 | 6,997.2 | 50.0 | -75.6 | 70.7 | 12.13 |
| 7,046.0 | 14.87 | 327.23 | 7,041.2 | 57.8 | -80.7 | 79.8 | 12.54 |
| 7,090.0 | 20.34 | 326.80 | 7,083.2 | 69.0 | -88.0 | 92.6 | 12.44 |
| 7,134.0 | 25.51 | 327.55 | 7,123.7 | 83.4 | -97.2 | 109.1 | 11.77 |
| Middlesex | | | | | | | |
| 7,135.0 | 25.63 | 327.56 | 7,124.6 | 83.8 | -97.5 | 109.6 | 11.77 |
| 7,180.0 | 30.54 | 329.19 | 7,164.3 | 101.8 | -108.6 | 130.1 | 11.04 |
| 7,225.0 | 34.41 | 330.16 | 7,202.2 | 122.7 | -120.7 | 153.7 | 8.68 |
| 7,270.0 | 38.46 | 330.43 | 7,238.4 | 145.9 | -134.0 | 179.9 | 9.01 |
| 7,315.0 | 42.92 | 332.06 | 7,272.5 | 171.6 | -148.1 | 208.7 | 10.19 |
| 7,319.0 | 43.35 | 332.19 | 7,275.4 | 174.0 | -149.3 | 211.3 | 11.08 |
| Burkett | | | | | | | |
| 7,360.0 | 47.81 | 333.42 | 7,304.1 | 200.1 | -162.7 | 240.2 | 11.08 |
| 7,361.0 | 47.93 | 333.43 | 7,304.8 | 200.7 | -163.0 | 241.0 | 12.07 |
| Tully | | | | | | | |
| 7,404.0 | 53.10 | 334.01 | 7,332.1 | 230.5 | -177.7 | 273.8 | 12.07 |
| 7,449.0 | 58.19 | 334.24 | 7,357.5 | 263.9 | -193.9 | 310.5 | 11.32 |
| 7,494.0 | 62.73 | 335.96 | 7,379.7 | 299.4 | -210.4 | 349.4 | 10.62 |
| 7,509.0 | 64.45 | 336.16 | 7,386.4 | 311.7 | -215.9 | 362.7 | 11.53 |
| Hamilton | | | | | | | |
| 7,539.0 | 67.89 | 336.54 | 7,398.5 | 336.8 | -226.9 | 390.0 | 11.53 |
| 7,584.0 | 72.20 | 337.38 | 7,413.9 | 375.7 | -243.4 | 432.2 | 9.74 |

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Well: Life Unit 1H
Wellbore: Original Wellpath
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| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | N/S (usft) | E/W (usft) | V. Sec (usft) | DLeg (°/100usft) |
|------------------|---------|-------------------|------------|------------|------------|---------------|------------------|
| 7,617.0 | 75.29 | 337.94 | 7,423.1 | 405.0 | -255.4 | 463.7 | 9.52 |
| Marcellus | | | | | | | |
| 7,629.0 | 76.42 | 338.14 | 7,426.0 | 415.8 | -259.8 | 475.3 | 9.52 |
| 7,674.0 | 79.70 | 339.39 | 7,435.3 | 456.9 | -275.7 | 519.3 | 7.78 |
| 7,719.0 | 84.20 | 339.40 | 7,441.6 | 498.5 | -291.4 | 563.8 | 10.00 |
| 7,785.0 | 89.53 | 341.34 | 7,445.2 | 560.6 | -313.5 | 629.6 | 8.59 |
| 7,875.0 | 90.47 | 342.28 | 7,445.2 | 646.1 | -341.6 | 719.6 | 1.48 |
| 7,964.0 | 90.44 | 341.56 | 7,444.5 | 730.7 | -369.3 | 808.6 | 0.81 |
| 8,054.0 | 90.34 | 341.15 | 7,443.9 | 816.0 | -398.0 | 898.6 | 0.47 |
| 8,143.0 | 90.07 | 342.00 | 7,443.6 | 900.4 | -426.2 | 987.6 | 1.00 |
| 8,233.0 | 89.29 | 342.38 | 7,444.1 | 986.1 | -453.7 | 1,077.6 | 0.96 |
| 8,323.0 | 89.29 | 342.76 | 7,445.2 | 1,072.0 | -480.6 | 1,167.6 | 0.42 |
| 8,412.0 | 88.15 | 343.70 | 7,447.2 | 1,157.1 | -506.3 | 1,256.5 | 1.66 |
| 8,502.0 | 87.99 | 343.01 | 7,450.2 | 1,243.3 | -532.1 | 1,346.5 | 0.79 |
| 8,592.0 | 88.99 | 343.79 | 7,452.6 | 1,329.5 | -557.8 | 1,436.4 | 1.41 |
| 8,681.0 | 87.75 | 342.35 | 7,455.1 | 1,414.6 | -583.7 | 1,525.4 | 2.13 |
| 8,771.0 | 88.09 | 342.19 | 7,458.4 | 1,500.3 | -611.1 | 1,615.3 | 0.42 |
| 8,861.0 | 89.13 | 342.64 | 7,460.6 | 1,586.1 | -638.3 | 1,705.3 | 1.26 |
| 8,950.0 | 90.07 | 343.75 | 7,461.2 | 1,671.3 | -664.0 | 1,794.3 | 1.63 |
| 9,040.0 | 90.44 | 342.65 | 7,460.8 | 1,757.4 | -690.0 | 1,884.2 | 1.29 |
| 9,130.0 | 91.01 | 341.89 | 7,459.7 | 1,843.2 | -717.4 | 1,974.2 | 1.06 |
| 9,219.0 | 90.24 | 342.28 | 7,458.7 | 1,927.8 | -744.8 | 2,063.2 | 0.97 |
| 9,309.0 | 90.74 | 342.47 | 7,457.9 | 2,013.6 | -772.0 | 2,153.2 | 0.59 |
| 9,399.0 | 90.10 | 342.80 | 7,457.3 | 2,099.5 | -798.9 | 2,243.2 | 0.80 |
| 9,488.0 | 89.73 | 341.61 | 7,457.4 | 2,184.2 | -826.1 | 2,332.2 | 1.40 |
| 9,578.0 | 89.26 | 341.40 | 7,458.2 | 2,269.6 | -854.6 | 2,422.2 | 0.57 |
| 9,668.0 | 90.94 | 341.92 | 7,458.0 | 2,355.0 | -883.0 | 2,512.2 | 1.95 |
| 9,757.0 | 90.17 | 340.93 | 7,457.2 | 2,439.4 | -911.3 | 2,601.2 | 1.41 |
| 9,847.0 | 89.73 | 339.88 | 7,457.3 | 2,524.2 | -941.5 | 2,691.1 | 1.26 |
| 9,937.0 | 90.20 | 341.48 | 7,457.3 | 2,609.1 | -971.3 | 2,781.1 | 1.85 |
| 10,026.0 | 90.47 | 342.24 | 7,456.8 | 2,693.7 | -999.0 | 2,870.1 | 0.91 |
| 10,116.0 | 91.01 | 340.90 | 7,455.6 | 2,779.0 | -1,027.4 | 2,960.1 | 1.61 |
| 10,206.0 | 89.80 | 342.66 | 7,455.0 | 2,864.5 | -1,055.6 | 3,050.1 | 2.37 |
| 10,295.0 | 90.13 | 342.67 | 7,455.0 | 2,949.5 | -1,082.1 | 3,139.1 | 0.37 |
| 10,385.0 | 90.80 | 342.32 | 7,454.3 | 3,035.3 | -1,109.1 | 3,229.1 | 0.84 |
| 10,475.0 | 91.35 | 342.18 | 7,452.6 | 3,121.0 | -1,136.6 | 3,319.0 | 0.63 |
| 10,564.0 | 90.47 | 343.03 | 7,451.2 | 3,205.9 | -1,163.2 | 3,408.0 | 1.37 |
| 10,654.0 | 90.84 | 342.34 | 7,450.2 | 3,291.8 | -1,190.0 | 3,498.0 | 0.87 |
| 10,743.0 | 90.40 | 342.39 | 7,449.2 | 3,376.6 | -1,216.9 | 3,587.0 | 0.50 |
| 10,833.0 | 90.74 | 342.86 | 7,448.3 | 3,462.5 | -1,243.8 | 3,677.0 | 0.64 |
| 10,923.0 | 91.14 | 342.28 | 7,446.9 | 3,548.4 | -1,270.8 | 3,767.0 | 0.78 |
| 11,013.0 | 88.79 | 340.62 | 7,446.9 | 3,633.7 | -1,299.4 | 3,857.0 | 3.20 |
| 11,102.0 | 88.92 | 341.79 | 7,448.7 | 3,717.9 | -1,328.1 | 3,945.9 | 1.32 |
| 11,196.0 | 90.54 | 342.13 | 7,449.1 | 3,807.3 | -1,357.2 | 4,039.9 | 1.76 |
| 11,289.0 | 91.01 | 342.00 | 7,447.9 | 3,895.8 | -1,385.8 | 4,132.9 | 0.52 |

AUG 24 2015



EOW Completion Report



Company: Antero Resources
Project: Doddridge County WV
Site: Trent Pad: Bowen/Cox/Life/Baker/Nestor
Well: Life Unit 1H
Wellbore: Original Wellpath
Design: As Drilled

Local Co-ordinate Reference: Well Life Unit 1H
TVD Reference: Precision 525 GL 1407' + 19' RKB @ 1426.0usft
MD Reference: Precision 525 GL 1407' + 19' RKB @ 1426.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Oklahoma District

Survey

| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | N/S (usft) | E/W (usft) | V. Sec (usft) | DLeg (°/100usft) |
|-----------|---------|-------------------|------------|------------|------------|---------------|------------------|
| 11,384.0 | 90.98 | 342.17 | 7,446.2 | 3,986.2 | -1,415.0 | 4,227.9 | 0.18 |
| 11,478.0 | 91.99 | 342.91 | 7,443.8 | 4,075.8 | -1,443.2 | 4,321.9 | 1.33 |
| 11,571.0 | 91.08 | 342.69 | 7,441.3 | 4,164.6 | -1,470.7 | 4,414.8 | 1.01 |
| 11,665.0 | 91.41 | 342.59 | 7,439.2 | 4,254.3 | -1,498.7 | 4,508.8 | 0.37 |
| 11,759.0 | 90.57 | 342.32 | 7,437.6 | 4,343.9 | -1,527.1 | 4,602.8 | 0.94 |
| 11,852.0 | 90.44 | 342.24 | 7,436.8 | 4,432.5 | -1,555.4 | 4,695.8 | 0.16 |
| 11,946.0 | 89.60 | 343.01 | 7,436.8 | 4,522.2 | -1,583.4 | 4,789.8 | 1.21 |
| 12,040.0 | 89.97 | 343.14 | 7,437.1 | 4,612.1 | -1,610.8 | 4,883.8 | 0.42 |
| 12,134.0 | 89.53 | 342.73 | 7,437.5 | 4,702.0 | -1,638.4 | 4,977.8 | 0.64 |
| 12,228.0 | 90.30 | 343.04 | 7,437.7 | 4,791.8 | -1,666.1 | 5,071.8 | 0.88 |
| 12,318.0 | 89.06 | 343.00 | 7,438.2 | 4,877.9 | -1,692.3 | 5,161.7 | 1.38 |
| 12,407.0 | 89.50 | 342.78 | 7,439.3 | 4,963.0 | -1,718.5 | 5,250.7 | 0.55 |
| 12,497.0 | 90.07 | 342.73 | 7,439.6 | 5,048.9 | -1,745.2 | 5,340.7 | 0.64 |
| 12,587.0 | 89.36 | 342.28 | 7,440.1 | 5,134.8 | -1,772.3 | 5,430.7 | 0.93 |
| 12,676.0 | 89.53 | 341.02 | 7,440.9 | 5,219.2 | -1,800.3 | 5,519.7 | 1.43 |
| 12,766.0 | 90.17 | 340.65 | 7,441.2 | 5,304.2 | -1,829.8 | 5,609.7 | 0.82 |
| 12,856.0 | 91.21 | 341.06 | 7,440.1 | 5,389.3 | -1,859.3 | 5,699.7 | 1.24 |
| 12,945.0 | 91.51 | 339.87 | 7,438.0 | 5,473.1 | -1,889.1 | 5,788.6 | 1.38 |
| 13,035.0 | 92.08 | 342.12 | 7,435.2 | 5,558.1 | -1,918.4 | 5,878.5 | 2.58 |
| 13,125.0 | 91.48 | 343.50 | 7,432.4 | 5,644.1 | -1,945.0 | 5,968.5 | 1.67 |
| 13,215.0 | 90.50 | 342.99 | 7,430.8 | 5,730.2 | -1,970.9 | 6,058.4 | 1.23 |
| 13,304.0 | 90.81 | 343.73 | 7,429.8 | 5,815.5 | -1,996.4 | 6,147.4 | 0.90 |
| 13,394.0 | 90.40 | 342.57 | 7,428.8 | 5,901.6 | -2,022.5 | 6,237.4 | 1.37 |
| 13,484.0 | 90.87 | 342.61 | 7,427.8 | 5,987.5 | -2,049.4 | 6,327.4 | 0.52 |
| 13,573.0 | 90.87 | 341.68 | 7,426.5 | 6,072.2 | -2,076.7 | 6,416.4 | 1.04 |
| 13,663.0 | 88.69 | 340.68 | 7,426.8 | 6,157.4 | -2,105.7 | 6,506.4 | 2.66 |
| 13,752.0 | 89.70 | 341.83 | 7,428.1 | 6,241.7 | -2,134.3 | 6,595.3 | 1.72 |
| 13,842.0 | 90.50 | 342.36 | 7,427.9 | 6,327.3 | -2,162.0 | 6,685.3 | 1.07 |
| 13,932.0 | 89.36 | 341.64 | 7,428.0 | 6,412.9 | -2,189.8 | 6,775.3 | 1.50 |
| 14,022.0 | 89.97 | 342.37 | 7,428.6 | 6,498.5 | -2,217.6 | 6,865.3 | 1.06 |
| 14,111.0 | 90.67 | 342.80 | 7,428.1 | 6,583.4 | -2,244.2 | 6,954.3 | 0.92 |
| 14,201.0 | 89.23 | 341.29 | 7,428.2 | 6,669.0 | -2,272.0 | 7,044.3 | 2.32 |
| 14,291.0 | 89.73 | 340.48 | 7,429.0 | 6,754.1 | -2,301.5 | 7,134.3 | 1.06 |
| 14,380.0 | 89.93 | 341.02 | 7,429.2 | 6,838.1 | -2,330.8 | 7,223.3 | 0.65 |
| 14,470.0 | 90.44 | 343.20 | 7,428.9 | 6,923.7 | -2,358.4 | 7,313.2 | 2.49 |
| 14,560.0 | 90.97 | 342.89 | 7,427.8 | 7,009.8 | -2,384.7 | 7,403.2 | 0.68 |
| 14,649.0 | 90.47 | 343.43 | 7,426.7 | 7,095.0 | -2,410.5 | 7,492.2 | 0.83 |
| 14,739.0 | 91.17 | 343.72 | 7,425.4 | 7,181.3 | -2,435.9 | 7,582.2 | 0.84 |
| 14,829.0 | 89.60 | 341.45 | 7,424.8 | 7,267.2 | -2,462.8 | 7,672.2 | 3.07 |
| 14,918.0 | 87.68 | 338.07 | 7,426.9 | 7,350.6 | -2,493.6 | 7,761.0 | 4.37 |
| 15,008.0 | 89.36 | 338.96 | 7,429.3 | 7,434.3 | -2,526.6 | 7,850.8 | 2.11 |
| 15,098.0 | 89.23 | 340.22 | 7,430.4 | 7,518.7 | -2,558.0 | 7,940.7 | 1.41 |
| 15,188.0 | 89.70 | 341.88 | 7,431.2 | 7,603.8 | -2,587.2 | 8,030.7 | 1.92 |
| 15,277.0 | 88.76 | 343.31 | 7,432.4 | 7,688.7 | -2,613.8 | 8,119.7 | 1.92 |

AUG 24 2015



Company: Antero Resources
Project: Doddridge County WV
Site: Trent Pad: Bowen/Cox/Life/Baker/Nestor
Well: Life Unit 1H
Wellbore: Original Wellpath
Design: As Drilled

Local Co-ordinate Reference: Well Life Unit 1H
TVD Reference: Precision 525 GL 1407' + 19' RKB @ 1426.0usft
MD Reference: Precision 525 GL 1407' + 19' RKB @ 1426.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Oklahoma District

Survey

| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | N/S (usft) | E/W (usft) | V. Sec (usft) | DLeg (°/100usft) |
|-----------|---------|-------------------|------------|------------|------------|---------------|------------------|
| 15,367.0 | 89.80 | 344.14 | 7,433.5 | 7,775.1 | -2,639.0 | 8,209.6 | 1.48 |
| 15,456.0 | 89.46 | 343.74 | 7,434.1 | 7,860.6 | -2,663.6 | 8,298.6 | 0.59 |
| 15,546.0 | 90.20 | 343.69 | 7,434.4 | 7,947.0 | -2,688.9 | 8,388.6 | 0.82 |
| 15,635.0 | 89.36 | 342.96 | 7,434.7 | 8,032.3 | -2,714.4 | 8,477.5 | 1.25 |
| 15,725.0 | 88.96 | 343.61 | 7,436.0 | 8,118.5 | -2,740.3 | 8,567.5 | 0.85 |
| 15,815.0 | 89.60 | 343.51 | 7,437.2 | 8,204.8 | -2,765.8 | 8,657.5 | 0.72 |
| 15,904.0 | 89.60 | 343.21 | 7,437.8 | 8,290.0 | -2,791.2 | 8,746.5 | 0.34 |
| 15,994.0 | 90.40 | 343.55 | 7,437.8 | 8,376.3 | -2,817.0 | 8,836.4 | 0.97 |
| 16,084.0 | 89.02 | 343.32 | 7,438.2 | 8,462.5 | -2,842.6 | 8,926.4 | 1.55 |
| 16,173.0 | 90.27 | 343.33 | 7,438.8 | 8,547.8 | -2,868.2 | 9,015.4 | 1.40 |
| 16,263.0 | 91.21 | 342.57 | 7,437.6 | 8,633.8 | -2,894.6 | 9,105.4 | 1.34 |
| 16,353.0 | 90.34 | 342.16 | 7,436.4 | 8,719.6 | -2,921.8 | 9,195.4 | 1.07 |
| 16,442.0 | 91.14 | 342.72 | 7,435.3 | 8,804.4 | -2,948.7 | 9,284.4 | 1.10 |
| 16,532.0 | 90.03 | 343.16 | 7,434.4 | 8,890.5 | -2,975.1 | 9,374.3 | 1.33 |
| 16,622.0 | 90.70 | 343.27 | 7,433.8 | 8,976.6 | -3,001.1 | 9,464.3 | 0.75 |
| 16,711.0 | 89.29 | 343.24 | 7,433.8 | 9,061.9 | -3,026.7 | 9,553.3 | 1.58 |
| 16,801.0 | 89.87 | 343.03 | 7,434.4 | 9,148.0 | -3,052.8 | 9,643.3 | 0.69 |
| 16,891.0 | 90.77 | 343.34 | 7,433.9 | 9,234.1 | -3,078.9 | 9,733.3 | 1.06 |
| 16,980.0 | 89.56 | 342.36 | 7,433.7 | 9,319.2 | -3,105.1 | 9,822.3 | 1.75 |
| 17,070.0 | 90.40 | 343.26 | 7,433.7 | 9,405.2 | -3,131.7 | 9,912.3 | 1.37 |
| 17,160.0 | 89.87 | 342.40 | 7,433.5 | 9,491.1 | -3,158.3 | 10,002.3 | 1.12 |
| 17,249.0 | 90.40 | 342.68 | 7,433.3 | 9,576.0 | -3,185.0 | 10,091.3 | 0.67 |
| 17,339.0 | 88.42 | 341.01 | 7,434.2 | 9,661.5 | -3,213.0 | 10,181.2 | 2.88 |
| 17,429.0 | 89.23 | 340.28 | 7,436.1 | 9,746.4 | -3,242.8 | 10,271.2 | 1.21 |
| 17,519.0 | 90.13 | 341.05 | 7,436.6 | 9,831.4 | -3,272.6 | 10,361.2 | 1.32 |
| 17,608.0 | 89.26 | 340.43 | 7,437.0 | 9,915.4 | -3,302.0 | 10,450.1 | 1.20 |
| 17,698.0 | 90.03 | 339.61 | 7,437.6 | 10,000.0 | -3,332.7 | 10,540.1 | 1.25 |
| 17,783.0 | 90.50 | 339.51 | 7,437.2 | 10,079.6 | -3,362.4 | 10,625.0 | 0.57 |
| 17,840.0 | 90.50 | 339.51 | 7,436.7 | 10,133.0 | -3,382.4 | 10,681.9 | 0.00 |

Design Annotations

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment |
|-----------------------|-----------------------|-------------------|--------------|-----------|
| | | +N/-S (usft) | +E/-W (usft) | |
| 6,960.0 | 6,956.5 | 45.9 | -73.0 | Sycamore |
| 7,134.0 | 7,123.7 | 83.4 | -97.2 | Middlesex |
| 7,319.0 | 7,275.4 | 174.0 | -149.3 | Burkett |
| 7,361.0 | 7,304.8 | 200.7 | -163.0 | Tully |
| 7,509.0 | 7,386.4 | 311.7 | -215.9 | Hamilton |
| 7,617.0 | 7,423.1 | 405.0 | -255.4 | Marcellus |

Checked By: _____ Approved By: _____ Date: _____