

MAY 26 2015



Antero Resources
Mt Salem Revival Unit 2H
Doddridge County WV
Northing: 14280118.80
Easting: 1728003.51
As Drilled

WELL DETAILS: Mt Salem Revival Unit 2H

AN/S +E/W Northing Longitude Slot
0.0 0.0 14280118.80 1728003.51 39° 19' 27.037 N 80° 41' 22.032 W

PROJECT DETAILS: Doddridge 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

REFERENCE INFORMATION

Crustal Motion Reference: North American 1997
Magnetic Field Strength: 52360 Gant
Dip Angle: 66.88°
Date: 11/20/2013
Model: IGRF2010



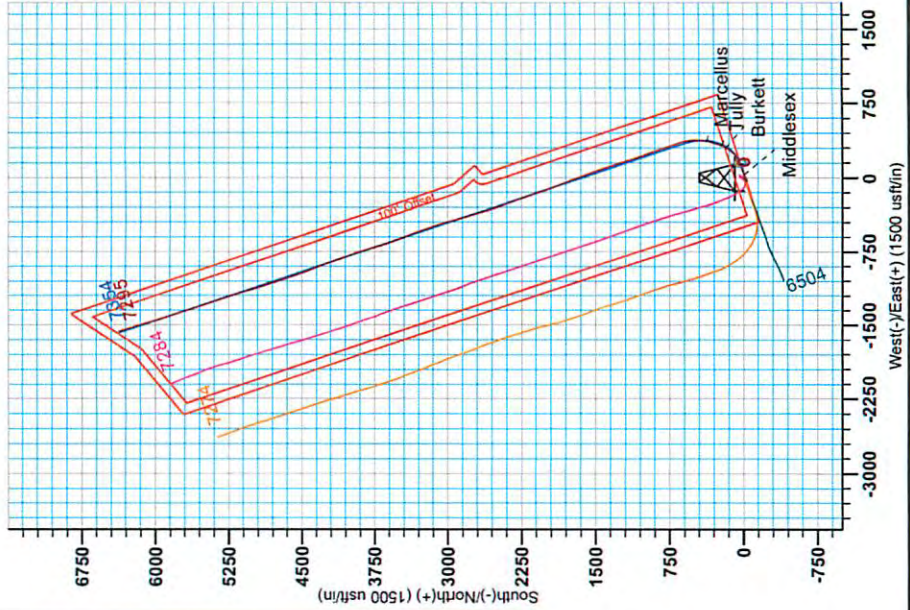
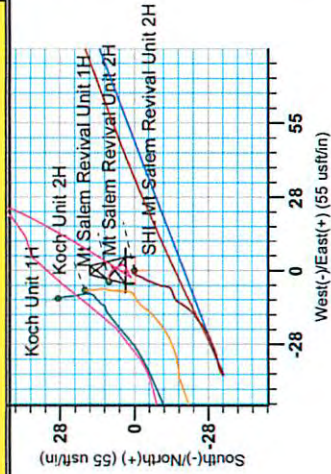
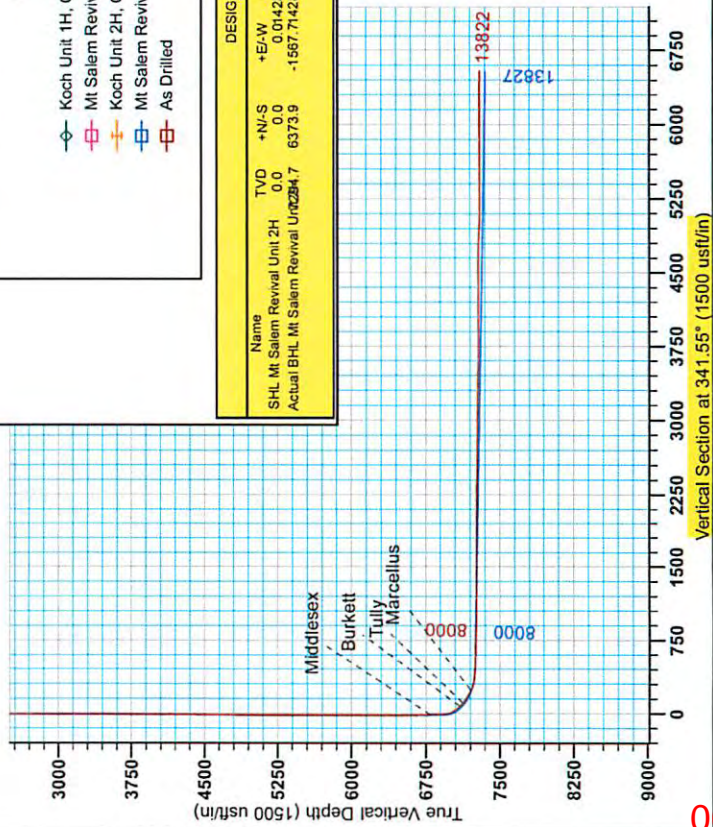
Genie Lightfoot
Scientific Drilling
421 South Eagle Lane
Oklahoma City Oklahoma
405-787-3663

LEGEND

- Koch Unit 1H, Original Wellpath, As Drilled V0
- Mt Salem Revival Unit 1H, Original Wellpath, As Drilled V0
- Koch Unit 2H, Original Wellpath, As Drilled V0
- Mt Salem Revival Unit 2H, Original Wellpath, Plan 3 V0
- As Drilled

DESIGN TARGET DETAILS

| Name | TVD | +N/S | +E/W | Northing | Eastng | Latitude | Longitude |
|-------------------------------------|--------|------|------|--------------------|-----------------------------|------------------|-----------|
| SHL Mt Salem Revival Unit 2H | 0.0 | 0.0 | 0.0 | 14280118.80 | 1728003.51 39° 19' 27.037 N | 80° 41' 22.032 W | |
| Actual BHL Mt Salem Revival Unit 2H | 6373.9 | | | -1587.714286492.69 | 1726435.6089° 20' 30.111 N | 80° 41' 44.716 W | |





Antero Resources

**Doddridge County WV
Koch/Gains/McCue/Mt Salem Revival
Mt Salem Revival Unit 2H
Original Wellpath**

Design: As Drilled

EOW Completion Report

07 April, 2014

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WV Department of
Environmental Protection



06/05/2015

MAY 26 2015



EOW Completion Report



WV Department of
Environmental Protection

| | | | |
|------------------|-----------------------------------|-------------------------------------|--|
| Company: | Antero Resources | Local Co-ordinate Reference: | Well Mt Salem Revival Unit 2H |
| Project: | Doddridge County | TVD Reference: | Mt Salem 2H 1377 GL + 19 KB @ 1396.0usft |
| Site: | Koch/Gains/McCue/Mt Salem Revival | MD Reference: | Mt Salem 2H 1377 GL + 19 KB @ 1396.0usft |
| Well: | Mt Salem Revival Unit 2H | 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 | Koch/Gains/McCue/Mt Salem Revival | | | | |
| Site Position: | | Northing: | 14,280,147.06 usft | Latitude: | 39° 19' 27.317 N |
| From: | Map | Easting: | 1,727,993.07 usft | Longitude: | 80° 41' 25.164 W |
| Position Uncertainty: | 2.0 usft | Slot Radius: | 13-3/16" | Grid Convergence: | 0.20 ° |

| | | | | | | |
|-----------------------------|--------------------------|----------|----------------------------|--------------------|----------------------|------------------|
| Well | Mt Salem Revival Unit 2H | | | | | |
| Well Position | +N/-S | 0.0 usft | Northing: | 14,280,118.80 usft | Latitude: | 39° 19' 27.037 N |
| | +E/-W | 0.0 usft | Easting: | 1,728,003.51 usft | Longitude: | 80° 41' 25.032 W |
| Position Uncertainty | 2.0 usft | | Wellhead Elevation: | 1,388.0 usft | Ground Level: | 1,377.0 usft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Original Wellpath | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 11/20/2013 | -8.52 | 66.88 | 52,369 |

| | | | | | |
|--------------------------|--------------------------------|---------------------|---------------------|----------------------|-----|
| 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 | 341.55 | |

| | | | | | |
|-----------------------|------------------|--|---------------------|--|--|
| Survey Program | Date 4/7/2014 | | | | |
| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description | |
| 108.0 | 6,464.3 | Survey #2 Final Gyro (Original Wellpath) | SDI Standard Keeper | Scientific Drilling Intl. Standard Wireline Keeper | |
| 6,512.0 | 13,822.0 | Survey #3 MWD (Original Wellpath) | MWD SDI | 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 | 0.0 | 0.00 | |
| 108.0 | 0.26 | 290.59 | 108.0 | 0.1 | -0.2 | 0.2 | 0.24 | | |
| 208.0 | 0.25 | 317.97 | 208.0 | 0.3 | -0.6 | 0.5 | 0.12 | | |
| 308.0 | 0.25 | 326.95 | 308.0 | 0.7 | -0.9 | 0.9 | 0.04 | | |
| 408.0 | 0.11 | 290.41 | 408.0 | 0.9 | -1.1 | 1.2 | 0.17 | | |
| 508.0 | 0.29 | 207.59 | 508.0 | 0.7 | -1.3 | 1.1 | 0.30 | | |
| 608.0 | 0.34 | 203.68 | 608.0 | 0.2 | -1.5 | 0.7 | 0.05 | | |
| 708.0 | 0.42 | 201.02 | 708.0 | -0.4 | -1.8 | 0.2 | 0.08 | | |
| 808.0 | 0.46 | 202.13 | 808.0 | -1.1 | -2.0 | -0.4 | 0.04 | | |
| 908.0 | 0.43 | 198.21 | 908.0 | -1.9 | -2.3 | -1.0 | 0.04 | | |
| 1,008.0 | 0.48 | 203.67 | 1,008.0 | -2.6 | -2.6 | -1.6 | 0.07 | | |



EOW Completion Report



| | | | |
|------------------|-----------------------------------|-------------------------------------|--|
| Company: | Antero Resources | Local Co-ordinate Reference: | Well Mt Salem Revival Unit 2H |
| Project: | Doddridge County WV | TVD Reference: | Mt Salem 2H 1377 GL + 19 KB @ 1396.0usft |
| Site: | Koch/Gains/McCue/Mt Salem Revival | MD Reference: | Mt Salem 2H 1377 GL + 19 KB @ 1396.0usft |
| Well: | Mt Salem Revival Unit 2H | 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) | | |
| 1,108.0 | 0.45 | 212.58 | 1,108.0 | -3.3 | -3.0 | -2.2 | 0.08 | | |
| 1,208.0 | 0.29 | 215.83 | 1,208.0 | -3.8 | -3.3 | -2.6 | 0.16 | | |
| 1,308.0 | 0.48 | 209.59 | 1,308.0 | -4.4 | -3.7 | -3.0 | 0.19 | | |
| 1,408.0 | 0.44 | 196.60 | 1,408.0 | -5.1 | -4.0 | -3.6 | 0.11 | | |
| 1,508.0 | 0.46 | 197.83 | 1,508.0 | -5.9 | -4.2 | -4.3 | 0.02 | | |
| 1,608.0 | 0.45 | 201.58 | 1,608.0 | -6.6 | -4.5 | -4.9 | 0.03 | | |
| 1,708.0 | 0.52 | 203.37 | 1,708.0 | -7.4 | -4.8 | -5.5 | 0.07 | | |
| 1,808.0 | 0.41 | 204.08 | 1,808.0 | -8.2 | -5.2 | -6.1 | 0.11 | | |
| 1,908.0 | 0.43 | 202.67 | 1,908.0 | -8.8 | -5.4 | -6.7 | 0.02 | | |
| 2,008.0 | 0.38 | 193.79 | 2,008.0 | -9.5 | -5.7 | -7.2 | 0.08 | | |
| 2,108.0 | 0.41 | 186.02 | 2,108.0 | -10.2 | -5.8 | -7.8 | 0.06 | | |
| 2,208.0 | 0.27 | 185.30 | 2,208.0 | -10.8 | -5.8 | -8.4 | 0.14 | | |
| 2,308.0 | 0.30 | 186.38 | 2,307.9 | -11.3 | -5.9 | -8.8 | 0.03 | | |
| 2,408.0 | 0.27 | 194.19 | 2,407.9 | -11.8 | -6.0 | -9.3 | 0.05 | | |
| 2,508.0 | 0.22 | 202.82 | 2,507.9 | -12.2 | -6.1 | -9.6 | 0.06 | | |
| 2,608.0 | 0.30 | 188.16 | 2,607.9 | -12.6 | -6.2 | -10.0 | 0.10 | | |
| 2,708.0 | 0.38 | 220.42 | 2,707.9 | -13.1 | -6.5 | -10.4 | 0.20 | | |
| 2,808.0 | 0.38 | 238.50 | 2,807.9 | -13.5 | -7.0 | -10.6 | 0.12 | | |
| 2,908.0 | 0.41 | 246.69 | 2,907.9 | -13.9 | -7.6 | -10.7 | 0.06 | | |
| 3,008.0 | 0.46 | 250.00 | 3,007.9 | -14.1 | -8.3 | -10.8 | 0.06 | | |
| 3,108.0 | 0.47 | 248.96 | 3,107.9 | -14.4 | -9.1 | -10.8 | 0.01 | | |
| 3,208.0 | 0.51 | 251.15 | 3,207.9 | -14.7 | -9.9 | -10.8 | 0.04 | | |
| 3,308.0 | 0.51 | 240.94 | 3,307.9 | -15.1 | -10.7 | -10.9 | 0.09 | | |
| 3,408.0 | 0.28 | 221.38 | 3,407.9 | -15.5 | -11.2 | -11.1 | 0.26 | | |
| 3,508.0 | 0.39 | 215.75 | 3,507.9 | -15.9 | -11.6 | -11.4 | 0.11 | | |
| 3,608.0 | 0.37 | 208.99 | 3,607.9 | -16.5 | -11.9 | -11.9 | 0.05 | | |
| 3,708.0 | 0.45 | 210.52 | 3,707.9 | -17.1 | -12.3 | -12.3 | 0.08 | | |
| 3,808.0 | 0.49 | 218.13 | 3,807.9 | -17.8 | -12.8 | -12.8 | 0.07 | | |
| 3,908.0 | 0.44 | 215.06 | 3,907.9 | -18.4 | -13.2 | -13.3 | 0.06 | | |
| 4,008.0 | 0.45 | 215.00 | 4,007.9 | -19.1 | -13.7 | -13.8 | 0.01 | | |
| 4,108.0 | 0.38 | 210.33 | 4,107.9 | -19.7 | -14.1 | -14.2 | 0.08 | | |
| 4,208.0 | 0.38 | 221.98 | 4,207.9 | -20.2 | -14.5 | -14.6 | 0.08 | | |
| 4,308.0 | 0.42 | 223.30 | 4,307.9 | -20.7 | -14.9 | -14.9 | 0.04 | | |
| 4,408.0 | 0.51 | 225.26 | 4,407.9 | -21.3 | -15.5 | -15.3 | 0.09 | | |
| 4,508.0 | 0.69 | 234.93 | 4,507.9 | -22.0 | -16.3 | -15.7 | 0.21 | | |
| 4,608.0 | 0.80 | 233.60 | 4,607.9 | -22.7 | -17.4 | -16.1 | 0.11 | | |
| 4,708.0 | 0.77 | 229.83 | 4,707.9 | -23.6 | -18.4 | -16.5 | 0.06 | | |
| 4,808.0 | 0.77 | 233.77 | 4,807.9 | -24.4 | -19.5 | -17.0 | 0.05 | | |
| 4,908.0 | 0.87 | 231.89 | 4,907.9 | -25.3 | -20.6 | -17.4 | 0.10 | | |
| 5,008.0 | 0.88 | 237.09 | 5,007.8 | -26.2 | -21.9 | -17.9 | 0.08 | | |
| 5,108.0 | 0.89 | 241.26 | 5,107.8 | -26.9 | -23.2 | -18.2 | 0.07 | | |
| 5,208.0 | 0.80 | 246.64 | 5,207.8 | -27.6 | -24.5 | -18.4 | 0.12 | | |
| 5,308.0 | 0.82 | 241.13 | 5,307.8 | -28.2 | -25.8 | -18.6 | 0.08 | | |
| 5,408.0 | 0.80 | 251.81 | 5,407.8 | -28.8 | -27.1 | -18.7 | 0.15 | | |

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| Well: | Mt Salem Revival Unit 2H | 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) | | |
| 5,508.0 | 0.72 | 244.16 | 5,507.8 | -29.3 | -28.3 | -18.8 | 0.13 | | |
| 5,608.0 | 0.88 | 251.98 | 5,607.8 | -29.8 | -29.6 | -18.9 | 0.19 | | |
| 5,708.0 | 0.78 | 253.22 | 5,707.8 | -30.2 | -31.0 | -18.9 | 0.10 | | |
| 5,808.0 | 0.80 | 256.78 | 5,807.8 | -30.6 | -32.3 | -18.8 | 0.05 | | |
| 5,908.0 | 0.76 | 259.53 | 5,907.8 | -30.9 | -33.7 | -18.6 | 0.05 | | |
| 6,008.0 | 0.67 | 253.98 | 6,007.7 | -31.1 | -34.9 | -18.5 | 0.11 | | |
| 6,108.0 | 0.63 | 262.30 | 6,107.7 | -31.4 | -36.0 | -18.4 | 0.10 | | |
| 6,208.0 | 0.53 | 256.19 | 6,207.7 | -31.6 | -37.0 | -18.2 | 0.12 | | |
| 6,308.0 | 0.40 | 236.24 | 6,307.7 | -31.9 | -37.7 | -18.3 | 0.21 | | |
| 6,408.0 | 0.50 | 241.35 | 6,407.7 | -32.3 | -38.4 | -18.5 | 0.11 | | |
| 6,464.3 | 0.36 | 221.77 | 6,464.0 | -32.5 | -38.7 | -18.6 | 0.36 | | |
| 6,512.0 | 0.66 | 204.66 | 6,511.7 | -32.9 | -38.9 | -18.9 | 0.70 | | |
| 6,556.0 | 1.62 | 70.26 | 6,555.7 | -32.9 | -38.5 | -19.0 | 4.85 | | |
| 6,601.0 | 6.93 | 66.18 | 6,600.6 | -31.6 | -35.4 | -18.8 | 11.81 | | |
| 6,646.0 | 11.49 | 66.16 | 6,645.0 | -28.7 | -28.8 | -18.1 | 10.13 | | |
| 6,691.0 | 17.54 | 63.54 | 6,688.5 | -23.8 | -18.6 | -16.7 | 13.52 | | |
| 6,736.0 | 22.45 | 64.51 | 6,730.8 | -17.1 | -4.8 | -14.7 | 10.94 | | |
| 6,781.0 | 26.80 | 66.56 | 6,771.7 | -9.4 | 12.3 | -12.8 | 9.85 | | |
| 6,811.0 | 30.22 | 67.17 | 6,798.1 | -3.8 | 25.5 | -11.6 | 11.44 | | |
| Middlesex | | | | | | | | | |
| 6,826.0 | 31.93 | 67.43 | 6,810.9 | -0.8 | 32.6 | -11.0 | 11.44 | | |
| 6,870.0 | 37.67 | 69.17 | 6,847.0 | 8.5 | 55.9 | -9.7 | 13.24 | | |
| 6,915.0 | 43.29 | 70.04 | 6,881.2 | 18.7 | 83.3 | -8.7 | 12.55 | | |
| 6,960.0 | 48.37 | 69.16 | 6,912.6 | 29.9 | 113.6 | -7.6 | 11.38 | | |
| 7,005.0 | 51.46 | 68.27 | 6,941.6 | 42.4 | 145.6 | -5.9 | 7.03 | | |
| 7,050.0 | 51.64 | 61.82 | 6,969.6 | 57.3 | 177.6 | -1.9 | 11.23 | | |
| 7,095.0 | 52.88 | 53.61 | 6,997.1 | 76.3 | 207.6 | 6.7 | 14.68 | | |
| 7,140.0 | 54.41 | 46.12 | 7,023.8 | 99.6 | 235.2 | 20.0 | 13.82 | | |
| 7,184.0 | 55.33 | 40.10 | 7,049.2 | 125.9 | 259.8 | 37.2 | 11.38 | | |
| 7,229.0 | 56.30 | 33.19 | 7,074.5 | 155.7 | 282.0 | 58.5 | 12.88 | | |
| 7,264.0 | 57.02 | 29.33 | 7,093.7 | 180.7 | 297.2 | 77.4 | 9.44 | | |
| Burkett | | | | | | | | | |
| 7,274.0 | 57.25 | 28.24 | 7,099.1 | 188.1 | 301.2 | 83.1 | 9.44 | | |
| 7,319.0 | 57.72 | 22.69 | 7,123.3 | 222.3 | 317.5 | 110.4 | 10.45 | | |
| Tully | | | | | | | | | |
| 7,364.0 | 60.38 | 17.46 | 7,146.5 | 258.5 | 330.7 | 140.6 | 11.59 | | |
| 7,409.0 | 62.63 | 19.45 | 7,168.0 | 296.1 | 343.2 | 172.2 | 6.33 | | |
| 7,453.0 | 64.96 | 15.63 | 7,187.4 | 333.7 | 355.1 | 204.1 | 9.42 | | |
| 7,497.0 | 67.84 | 9.68 | 7,205.0 | 373.0 | 363.9 | 238.7 | 14.01 | | |
| Marcellus | | | | | | | | | |
| 7,498.0 | 67.91 | 9.55 | 7,205.4 | 373.9 | 364.1 | 239.5 | 14.01 | | |
| 7,543.0 | 72.72 | 6.50 | 7,220.6 | 415.9 | 370.0 | 277.4 | 12.45 | | |
| 7,588.0 | 78.05 | 3.08 | 7,231.9 | 459.2 | 373.6 | 317.4 | 13.94 | | |
| 7,633.0 | 83.74 | 359.90 | 7,239.0 | 503.6 | 374.7 | 359.1 | 14.44 | | |
| 7,678.0 | 85.63 | 353.59 | 7,243.2 | 548.3 | 372.2 | 402.4 | 14.58 | | |

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| 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) |
|-----------|---------|-------------------|------------|------------|------------|---------------|------------------|
| 7,723.0 | 86.71 | 346.80 | 7,246.2 | 592.5 | 364.6 | 446.7 | 15.25 |
| 7,769.0 | 88.81 | 342.04 | 7,248.0 | 636.8 | 352.2 | 492.6 | 11.30 |
| 7,801.0 | 88.81 | 341.42 | 7,248.7 | 667.2 | 342.2 | 524.6 | 1.94 |
| 7,895.0 | 87.93 | 341.33 | 7,251.3 | 756.2 | 312.2 | 618.6 | 0.94 |
| 7,989.0 | 89.16 | 341.77 | 7,253.7 | 845.4 | 282.4 | 712.5 | 1.39 |
| 8,084.0 | 88.02 | 340.01 | 7,256.1 | 935.1 | 251.3 | 807.5 | 2.21 |
| 8,178.0 | 87.76 | 339.75 | 7,259.5 | 1,023.3 | 219.0 | 901.4 | 0.39 |
| 8,273.0 | 89.87 | 342.65 | 7,261.5 | 1,113.2 | 188.4 | 996.3 | 3.77 |
| 8,367.0 | 90.84 | 343.18 | 7,260.9 | 1,203.0 | 160.8 | 1,090.3 | 1.18 |
| 8,461.0 | 89.69 | 340.45 | 7,260.5 | 1,292.3 | 131.5 | 1,184.3 | 3.15 |
| 8,555.0 | 90.40 | 342.91 | 7,260.4 | 1,381.6 | 101.9 | 1,278.3 | 2.72 |
| 8,645.0 | 90.04 | 341.07 | 7,260.1 | 1,467.2 | 74.1 | 1,368.3 | 2.08 |
| 8,735.0 | 88.90 | 339.05 | 7,260.9 | 1,551.8 | 43.4 | 1,458.3 | 2.58 |
| 8,825.0 | 89.43 | 339.31 | 7,262.2 | 1,635.9 | 11.4 | 1,548.2 | 0.66 |
| 8,914.0 | 90.84 | 340.37 | 7,262.0 | 1,719.4 | -19.2 | 1,637.1 | 1.98 |
| 9,004.0 | 90.13 | 338.70 | 7,261.2 | 1,803.7 | -50.7 | 1,727.1 | 2.02 |
| 9,094.0 | 90.31 | 339.57 | 7,260.9 | 1,887.8 | -82.8 | 1,817.0 | 0.99 |
| 9,183.0 | 89.69 | 339.66 | 7,260.9 | 1,971.2 | -113.8 | 1,905.9 | 0.70 |
| 9,273.0 | 88.99 | 339.84 | 7,261.9 | 2,055.7 | -144.9 | 1,995.9 | 0.80 |
| 9,363.0 | 89.96 | 341.33 | 7,262.7 | 2,140.6 | -174.8 | 2,085.9 | 1.98 |
| 9,453.0 | 89.16 | 341.16 | 7,263.4 | 2,225.8 | -203.8 | 2,175.8 | 0.91 |
| 9,543.0 | 89.43 | 340.28 | 7,264.5 | 2,310.7 | -233.5 | 2,265.8 | 1.02 |
| 9,632.0 | 88.90 | 339.40 | 7,265.8 | 2,394.3 | -264.1 | 2,354.8 | 1.15 |
| 9,722.0 | 88.55 | 340.54 | 7,267.8 | 2,478.8 | -295.0 | 2,444.7 | 1.32 |
| 9,811.0 | 89.43 | 342.04 | 7,269.4 | 2,563.1 | -323.5 | 2,533.7 | 1.95 |
| 9,901.0 | 90.40 | 343.44 | 7,269.5 | 2,649.0 | -350.2 | 2,623.7 | 1.89 |
| 9,991.0 | 89.25 | 342.91 | 7,269.8 | 2,735.2 | -376.3 | 2,713.6 | 1.41 |
| 10,080.0 | 89.25 | 342.91 | 7,271.0 | 2,820.2 | -402.4 | 2,802.6 | 0.00 |
| 10,170.0 | 89.78 | 345.73 | 7,271.8 | 2,906.9 | -426.7 | 2,892.5 | 3.19 |
| 10,260.0 | 89.87 | 344.50 | 7,272.0 | 2,993.8 | -449.8 | 2,982.3 | 1.37 |
| 10,349.0 | 89.78 | 343.44 | 7,272.3 | 3,079.4 | -474.4 | 3,071.2 | 1.20 |
| 10,439.0 | 89.25 | 341.42 | 7,273.1 | 3,165.2 | -501.6 | 3,161.2 | 2.32 |
| 10,529.0 | 89.78 | 340.63 | 7,273.8 | 3,250.3 | -530.8 | 3,251.2 | 1.06 |
| 10,618.0 | 88.46 | 339.57 | 7,275.2 | 3,333.9 | -561.1 | 3,340.2 | 1.90 |
| 10,708.0 | 88.46 | 339.22 | 7,277.6 | 3,418.2 | -592.8 | 3,430.1 | 0.39 |
| 10,798.0 | 89.25 | 338.43 | 7,279.4 | 3,502.1 | -625.3 | 3,519.9 | 1.24 |
| 10,888.0 | 88.90 | 339.93 | 7,280.9 | 3,586.2 | -657.3 | 3,609.9 | 1.71 |
| 10,977.0 | 90.22 | 344.58 | 7,281.5 | 3,670.9 | -684.4 | 3,698.8 | 5.43 |
| 11,067.0 | 90.04 | 344.06 | 7,281.3 | 3,757.6 | -708.7 | 3,788.7 | 0.61 |
| 11,157.0 | 90.22 | 342.91 | 7,281.1 | 3,843.8 | -741.8 | 3,878.7 | 1.29 |
| 11,246.0 | 90.57 | 340.98 | 7,280.5 | 3,928.5 | -761.9 | 3,967.7 | 2.20 |
| 11,336.0 | 89.60 | 340.45 | 7,280.4 | 4,013.4 | -791.6 | 4,057.6 | 1.23 |
| 11,426.0 | 89.69 | 340.28 | 7,280.9 | 4,098.2 | -821.9 | 4,147.6 | 0.21 |
| 11,516.0 | 89.69 | 338.52 | 7,281.4 | 4,182.4 | -856.5 | 4,237.6 | 1.96 |

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|------------------|-----------------------------------|-------------------------------------|--|
| Company: | Antero Resources | Local Co-ordinate Reference: | Well Mt Salem Revival Unit 2H |
| Project: | Doddridge County WV | TVD Reference: | Mt Salem 2H 1377 GL + 19 KB @ 1396.0usft |
| Site: | Koch/Gains/McCue/Mt Salem Revival | MD Reference: | Mt Salem 2H 1377 GL + 19 KB @ 1396.0usft |
| Well: | Mt Salem Revival Unit 2H | 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) |
|-----------|---------|-------------------|------------|------------|------------|---------------|------------------|
| 11,605.0 | 90.31 | 339.14 | 7,281.4 | 4,265.4 | -885.7 | 4,326.5 | 0.99 |
| 11,695.0 | 90.75 | 339.66 | 7,280.6 | 4,349.6 | -917.3 | 4,416.4 | 0.76 |
| 11,785.0 | 89.96 | 341.51 | 7,280.0 | 4,434.5 | -947.2 | 4,506.4 | 2.24 |
| 11,874.0 | 90.75 | 338.52 | 7,279.5 | 4,518.1 | -977.7 | 4,595.3 | 3.47 |
| 11,964.0 | 88.90 | 339.93 | 7,279.8 | 4,602.3 | -1,009.6 | 4,685.2 | 2.58 |
| 12,054.0 | 87.32 | 343.00 | 7,282.7 | 4,687.6 | -1,038.2 | 4,775.2 | 3.83 |
| 12,144.0 | 87.67 | 342.91 | 7,286.7 | 4,773.5 | -1,064.5 | 4,865.1 | 0.40 |
| 12,233.0 | 88.02 | 342.83 | 7,290.0 | 4,858.5 | -1,090.7 | 4,954.0 | 0.40 |
| 12,323.0 | 88.72 | 342.04 | 7,292.6 | 4,944.3 | -1,117.9 | 5,043.9 | 1.17 |
| 12,413.0 | 89.43 | 343.09 | 7,294.0 | 5,030.1 | -1,144.8 | 5,133.9 | 1.41 |
| 12,502.0 | 90.04 | 343.00 | 7,294.4 | 5,115.3 | -1,170.8 | 5,222.9 | 0.69 |
| 12,592.0 | 89.78 | 342.56 | 7,294.6 | 5,201.2 | -1,197.4 | 5,312.8 | 0.57 |
| 12,682.0 | 90.13 | 342.39 | 7,294.6 | 5,287.1 | -1,224.5 | 5,402.8 | 0.43 |
| 12,771.0 | 91.01 | 340.72 | 7,293.8 | 5,371.5 | -1,252.7 | 5,491.8 | 2.12 |
| 12,861.0 | 89.52 | 342.39 | 7,293.3 | 5,456.8 | -1,281.2 | 5,581.8 | 2.49 |
| 12,951.0 | 89.78 | 342.83 | 7,293.9 | 5,542.7 | -1,308.1 | 5,671.8 | 0.57 |
| 13,040.0 | 90.31 | 342.21 | 7,293.8 | 5,627.6 | -1,334.8 | 5,760.8 | 0.92 |
| 13,130.0 | 90.22 | 340.72 | 7,293.4 | 5,712.9 | -1,363.4 | 5,850.8 | 1.66 |
| 13,220.0 | 91.54 | 342.21 | 7,292.0 | 5,798.3 | -1,392.0 | 5,940.8 | 2.21 |
| 13,310.0 | 90.31 | 341.51 | 7,290.6 | 5,883.8 | -1,420.0 | 6,030.8 | 1.57 |
| 13,399.0 | 89.78 | 342.56 | 7,290.5 | 5,968.4 | -1,447.5 | 6,119.8 | 1.32 |
| 13,489.0 | 89.43 | 343.79 | 7,291.1 | 6,054.6 | -1,473.5 | 6,209.7 | 1.42 |
| 13,579.0 | 90.75 | 345.02 | 7,291.0 | 6,141.3 | -1,497.7 | 6,299.6 | 2.00 |
| 13,669.0 | 89.34 | 343.09 | 7,290.9 | 6,227.8 | -1,522.4 | 6,389.5 | 2.66 |
| 13,758.0 | 88.29 | 342.65 | 7,292.8 | 6,312.8 | -1,548.6 | 6,478.5 | 1.28 |
| 13,822.0 | 88.29 | 342.65 | 7,294.7 | 6,373.9 | -1,567.7 | 6,542.4 | 0.00 |

Design Annotations

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment |
|-----------------------|-----------------------|-------------------|--------------|-----------|
| | | +N/-S (usft) | +E/-W (usft) | |
| 6,811.0 | 6,798.1 | -3.8 | 25.5 | Middlesex |
| 7,264.0 | 7,093.7 | 180.7 | 297.2 | Burkett |
| 7,319.0 | 7,123.3 | 222.3 | 317.5 | Tully |
| 7,497.0 | 7,205.0 | 373.0 | 363.9 | Marcellus |

Checked By: _____ Approved By: _____ Date: _____

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