



EQT Production - Geneseo Shale

Wetzel County, WV
Wetzel County 515274
Well #515274

Main Wellbore

Design: AS Drilled Surveys

Standard Survey Report

18 August, 2014

| | | | |
|-----------|----------------------------------|------------------------------|---------------------------|
| Database: | 5152274 PHX MWD | Local Co-ordinate Reference: | West Virginia County 1927 |
| Company: | LDY Engineering - Mountain State | TVD Reference: | 1927-1983 USG |
| Project: | West Virginia, WV | MD Reference: | 1927-1983 USG |
| Site: | West Virginia County | North Reference: | 1927 |
| Well: | 5152274 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Main Wellbore | | |
| Design: | LDY Engineering | | |

Project: 5152274

| | | | |
|--------------------|--------------------------------------|----------------------|----------------|
| Map System: | US State Plane 1927 (Exact solution) | System Datum: | Mean Sea Level |
| Geo Datum: | NAD 1927 (NADCON CONUS) | | |
| Map Zone: | West Virginia North 4701 | | |

Site: 5152274

| | | | | | |
|------------------------------|----------|---------------------|-------------------|--------------------------|---------|
| Site Position: | | Northing: | 386,591.31 usft | Latitude: | 39.56 |
| From: | Map | Easting: | 1,695,523.59 usft | Longitude: | -80.58 |
| Position Uncertainty: | 0.0 usft | Slot Radius: | 13-3/16 " | Grid Convergence: | -0.69 ° |

Well: 5152274

| | | | | | | |
|-----------------------------|-------------|----------|----------------------------|-------------------|----------------------|------------------|
| Well Position | +N-S | 0.0 usft | Northing: | 386,591.31 usft | Latitude: | 39° 33' 23.021 N |
| | +E-W | 0.0 usft | Easting: | 1,695,523.59 usft | Longitude: | 80° 34' 47.601 W |
| Position Uncertainty | | 0.0 usft | Wellhead Elevation: | usft | Ground Level: | 1,443.0 usft |

Wellbore: 5152274

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|-----------|-------------|-------------|-----------------|---------------|---------------------|
| | IGRF2010_14 | 7/30/2014 | -8.68 | 66.98 | 52,390 |

Design: 5152274

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 | |

Survey Program Date: 8/18/2014

| From (°) | To (usft) | Survey (Wellbore) | Tool Name | Description |
|----------|-----------|---------------------------------|-----------|----------------------------------|
| 0.00 | 5,176.0 | 515274 VES Gyro (Main Wellbore) | GyroFlex | |
| 0.00 | 17,660.0 | 515274 PHX MWD (Main Wellbore) | MWD+IGRF | MWD+IGRF v3 standard declination |

Survey: 5152274

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | Subsea Depth (usft) | +N-S (usft) | +E-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------|-----------------|-------------|-----------------------|---------------------|-------------|-------------|-------------------------|-------------------------|------------------------|-----------------------|
| 0.0 | 0.00 | 0.00 | 0.0 | -1,459.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 103.0 | 0.47 | 159.97 | 103.0 | -1,356.0 | -0.4 | 0.1 | 0.4 | 0.46 | 0.46 | 0.00 |
| 203.0 | 0.50 | 161.58 | 203.0 | -1,256.0 | -1.2 | 0.4 | 1.2 | 0.03 | 0.03 | 1.61 |
| 303.0 | 0.35 | 168.30 | 303.0 | -1,156.0 | -1.9 | 0.6 | 2.0 | 0.16 | -0.15 | 6.72 |
| 403.0 | 0.24 | 189.80 | 403.0 | -1,056.0 | -2.4 | 0.6 | 2.5 | 0.15 | -0.11 | 21.50 |
| 503.0 | 0.10 | 180.79 | 503.0 | -956.0 | -2.7 | 0.6 | 2.8 | 0.14 | -0.14 | -9.01 |
| 603.0 | 0.22 | 178.45 | 603.0 | -856.0 | -3.0 | 0.6 | 3.0 | 0.12 | 0.12 | -2.34 |
| 703.0 | 0.31 | 169.90 | 703.0 | -756.0 | -3.4 | 0.7 | 3.5 | 0.10 | 0.09 | -8.55 |



Phoenix Technology Services
Survey Report



Mileage as of 10/28/2016

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|-----------|---------------------------------|------------------------------|-------------------------|
| Database: | EQT Phoenix Technology Services | Local Co-ordinate Reference: | North American Datum 83 |
| Company: | EQT Phoenix Technology Services | TVD Reference: | NA 83 Mean Sea Level |
| Project: | Phoenix, AZ | MD Reference: | NA 83 Mean Sea Level |
| Site: | Mitchell Group 111274 | North Reference: | NA 83 |
| Well: | Well PH1021 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore | | |
| Design: | MD Group 111274 | | |

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | Subsea Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------|-----------------|-------------|-----------------------|---------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 803.0 | 0.16 | 158.47 | 803.0 | -656.0 | -3.8 | 0.8 | 3.9 | 0.16 | -0.15 | -11.43 |
| 903.0 | 0.22 | 153.42 | 903.0 | -556.0 | -4.1 | 0.9 | 4.2 | 0.06 | 0.06 | -5.05 |
| 1,003.0 | 0.33 | 171.83 | 1,003.0 | -456.0 | -4.6 | 1.0 | 4.7 | 0.14 | 0.11 | 18.41 |
| 1,103.0 | 0.14 | 191.08 | 1,103.0 | -356.0 | -5.0 | 1.0 | 5.1 | 0.20 | -0.19 | 19.25 |
| 1,203.0 | 0.19 | 152.25 | 1,203.0 | -256.0 | -5.3 | 1.1 | 5.4 | 0.12 | 0.05 | -38.83 |
| 1,303.0 | 0.22 | 129.68 | 1,303.0 | -156.0 | -5.5 | 1.3 | 5.7 | 0.09 | 0.03 | -22.57 |
| 1,403.0 | 0.14 | 123.55 | 1,403.0 | -56.0 | -5.7 | 1.6 | 5.9 | 0.08 | -0.08 | -6.13 |
| 1,503.0 | 0.23 | 112.55 | 1,503.0 | 44.0 | -5.9 | 1.9 | 6.1 | 0.10 | 0.09 | -11.00 |
| 1,603.0 | 0.07 | 105.93 | 1,603.0 | 144.0 | -6.0 | 2.1 | 6.2 | 0.16 | -0.16 | -6.62 |
| 1,703.0 | 0.27 | 99.63 | 1,703.0 | 244.0 | -6.0 | 2.4 | 6.3 | 0.20 | 0.20 | -6.30 |
| 1,803.0 | 0.09 | 75.84 | 1,803.0 | 344.0 | -6.0 | 2.7 | 6.4 | 0.19 | -0.18 | -23.79 |
| 1,903.0 | 0.57 | 67.51 | 1,903.0 | 444.0 | -5.8 | 3.2 | 6.3 | 0.48 | 0.48 | -8.33 |
| 2,003.0 | 0.60 | 65.90 | 2,003.0 | 544.0 | -5.4 | 4.2 | 6.0 | 0.03 | 0.03 | -1.61 |
| 2,103.0 | 0.78 | 42.41 | 2,103.0 | 644.0 | -4.7 | 5.1 | 5.5 | 0.33 | 0.18 | -23.49 |
| 2,203.0 | 1.16 | 48.34 | 2,203.0 | 744.0 | -3.5 | 6.3 | 4.5 | 0.39 | 0.38 | 5.93 |
| 2,303.0 | 1.49 | 40.18 | 2,302.9 | 843.9 | -1.9 | 7.9 | 3.1 | 0.38 | 0.33 | -8.16 |
| 2,403.0 | 1.89 | 46.16 | 2,402.9 | 943.9 | 0.3 | 10.0 | 1.3 | 0.44 | 0.40 | 5.98 |
| 2,503.0 | 1.87 | 39.75 | 2,502.8 | 1,043.8 | 2.7 | 12.2 | -0.7 | 0.21 | -0.02 | -6.41 |
| 2,603.0 | 1.91 | 39.05 | 2,602.8 | 1,143.8 | 5.2 | 14.3 | -2.9 | 0.05 | 0.04 | -0.70 |
| 2,703.0 | 1.83 | 43.48 | 2,702.7 | 1,243.7 | 7.7 | 16.4 | -5.0 | 0.17 | -0.08 | 4.43 |
| 2,803.0 | 1.69 | 48.12 | 2,802.7 | 1,343.7 | 9.8 | 18.6 | -6.8 | 0.20 | -0.14 | 4.64 |
| 2,903.0 | 1.54 | 47.50 | 2,902.6 | 1,443.6 | 11.7 | 20.7 | -8.3 | 0.15 | -0.15 | -0.62 |
| 3,003.0 | 1.01 | 29.73 | 3,002.6 | 1,543.6 | 13.4 | 22.1 | -9.7 | 0.66 | -0.53 | -17.77 |
| 3,103.0 | 0.77 | 21.08 | 3,102.6 | 1,643.6 | 14.8 | 22.8 | -11.0 | 0.27 | -0.24 | -8.65 |
| 3,203.0 | 0.72 | 12.79 | 3,202.6 | 1,743.6 | 16.0 | 23.2 | -12.2 | 0.12 | -0.05 | -8.29 |
| 3,303.0 | 0.70 | 3.65 | 3,302.6 | 1,843.6 | 17.2 | 23.4 | -13.4 | 0.11 | -0.02 | -9.14 |
| 3,403.0 | 0.73 | 355.44 | 3,402.6 | 1,943.6 | 18.5 | 23.4 | -14.6 | 0.11 | 0.03 | -8.21 |
| 3,503.0 | 0.71 | 342.14 | 3,502.6 | 2,043.6 | 19.7 | 23.1 | -15.8 | 0.17 | -0.02 | -13.30 |
| 3,603.0 | 0.89 | 333.37 | 3,602.6 | 2,143.6 | 21.0 | 22.6 | -17.2 | 0.22 | 0.18 | -8.77 |
| 3,703.0 | 0.89 | 340.39 | 3,702.5 | 2,243.5 | 22.4 | 22.0 | -18.7 | 0.11 | 0.00 | 7.02 |
| 3,803.0 | 0.74 | 347.93 | 3,802.5 | 2,343.5 | 23.8 | 21.6 | -20.1 | 0.18 | -0.15 | 7.54 |
| 3,903.0 | 0.67 | 342.43 | 3,902.5 | 2,443.5 | 25.0 | 21.3 | -21.3 | 0.10 | -0.07 | -5.50 |
| 4,003.0 | 0.86 | 332.71 | 4,002.5 | 2,543.5 | 26.2 | 20.8 | -22.6 | 0.23 | 0.19 | -9.72 |
| 4,103.0 | 0.92 | 331.74 | 4,102.5 | 2,643.5 | 27.6 | 20.0 | -24.1 | 0.06 | 0.06 | -0.97 |
| 4,203.0 | 0.86 | 324.74 | 4,202.5 | 2,743.5 | 28.9 | 19.2 | -25.5 | 0.12 | -0.06 | -7.00 |
| 4,303.0 | 1.08 | 323.29 | 4,302.5 | 2,843.5 | 30.2 | 18.2 | -27.0 | 0.22 | 0.22 | -1.45 |
| 4,403.0 | 1.03 | 319.27 | 4,402.5 | 2,943.5 | 31.7 | 17.1 | -28.6 | 0.09 | -0.05 | -4.02 |
| 4,503.0 | 0.84 | 313.96 | 4,502.4 | 3,043.4 | 32.9 | 16.0 | -30.0 | 0.21 | -0.19 | -5.31 |
| 4,603.0 | 0.51 | 322.38 | 4,602.4 | 3,143.4 | 33.7 | 15.2 | -31.0 | 0.34 | -0.33 | 8.42 |
| 4,703.0 | 0.47 | 331.60 | 4,702.4 | 3,243.4 | 34.4 | 14.7 | -31.7 | 0.09 | -0.04 | 9.22 |
| 4,803.0 | 0.69 | 348.38 | 4,802.4 | 3,343.4 | 35.4 | 14.4 | -32.7 | 0.28 | 0.22 | 16.78 |
| 4,903.0 | 0.47 | 344.52 | 4,902.4 | 3,443.4 | 36.4 | 14.1 | -33.7 | 0.22 | -0.22 | -3.86 |

| | | | |
|-----------|--------------------------------|------------------------------|----------------------------|
| Database: | COMPASS 5000.1 | Local Co-ordinate Reference: | North Reference: |
| Company: | U.S. PRODUCTION SERVICES CORP. | TVD Reference: | Survey Calculation Method: |
| Project: | WATER COURTS 20V | MD Reference: | |
| Site: | WATER COURTS 20V 20V | North Reference: | |
| Well: | WELL 20V 20V 2 | Survey Calculation Method: | |
| Wellbore: | WELL 20V 20V 2 | | |
| Design: | WELL 20V 20V 2 | | |

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | Subsea Depth (usft) | +N-S (usft) | +E-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------|-----------------|-------------|-----------------------|---------------------|-------------|-------------|-------------------------|-------------------------|------------------------|-----------------------|
| 5,003.0 | 0.26 | 343.93 | 5,002.4 | 3,543.4 | 37.0 | 14.0 | -34.4 | 0.21 | -0.21 | -0.59 |
| 5,103.0 | 0.44 | 339.54 | 5,102.4 | 3,643.4 | 37.6 | 13.8 | -35.0 | 0.18 | 0.18 | -4.39 |
| 5,176.0 | 0.59 | 313.88 | 5,175.4 | 3,716.4 | 38.1 | 13.4 | -35.5 | 0.37 | 0.20 | -35.15 |
| 5,249.0 | 0.80 | 300.10 | 5,248.4 | 3,789.4 | 38.6 | 12.7 | -36.2 | 0.37 | 0.29 | -18.88 |
| 5,281.0 | 0.70 | 299.40 | 5,280.4 | 3,821.4 | 38.8 | 12.3 | -36.4 | 0.31 | -0.31 | -2.19 |
| 5,313.0 | 0.70 | 309.80 | 5,312.4 | 3,853.4 | 39.0 | 12.0 | -36.7 | 0.40 | 0.00 | 32.50 |
| 5,344.0 | 0.80 | 303.60 | 5,343.4 | 3,884.4 | 39.3 | 11.7 | -37.0 | 0.41 | 0.32 | -20.00 |
| 5,376.0 | 0.70 | 300.50 | 5,375.4 | 3,916.4 | 39.5 | 11.3 | -37.2 | 0.34 | -0.31 | -9.69 |
| 5,407.0 | 2.20 | 272.20 | 5,406.4 | 3,947.4 | 39.6 | 10.6 | -37.5 | 5.22 | 4.84 | -91.29 |
| 5,439.0 | 6.10 | 287.90 | 5,438.3 | 3,979.3 | 39.6 | 8.3 | -37.8 | 12.22 | 12.19 | -13.44 |
| 5,470.0 | 8.80 | 269.00 | 5,469.0 | 4,010.0 | 39.5 | 4.2 | -38.3 | 8.72 | 8.71 | 3.55 |
| 5,502.0 | 10.90 | 266.70 | 5,500.6 | 4,041.6 | 39.3 | -1.2 | -39.0 | 6.68 | 6.56 | -7.19 |
| 5,533.0 | 13.80 | 263.50 | 5,530.8 | 4,071.8 | 38.7 | -7.8 | -39.4 | 9.61 | 9.35 | -10.32 |
| 5,564.0 | 17.50 | 262.20 | 5,560.7 | 4,101.7 | 37.6 | -16.1 | -39.7 | 11.99 | 11.94 | -4.19 |
| 5,596.0 | 20.40 | 262.60 | 5,591.0 | 4,132.0 | 36.2 | -26.4 | -39.9 | 9.07 | 9.06 | 1.25 |
| 5,627.0 | 22.40 | 265.10 | 5,619.8 | 4,160.8 | 35.0 | -37.7 | -40.5 | 7.09 | 6.45 | 8.06 |
| 5,659.0 | 24.70 | 267.50 | 5,649.2 | 4,190.2 | 34.2 | -50.4 | -41.7 | 7.79 | 7.19 | 7.50 |
| 5,690.0 | 28.40 | 268.30 | 5,676.9 | 4,217.9 | 33.7 | -64.3 | -43.3 | 11.99 | 11.94 | 2.58 |
| 5,722.0 | 32.10 | 267.10 | 5,704.5 | 4,245.5 | 33.1 | -80.4 | -45.2 | 11.72 | 11.56 | -3.75 |
| 5,785.0 | 37.50 | 264.50 | 5,756.2 | 4,297.2 | 30.4 | -116.2 | -48.1 | 8.89 | 8.57 | -4.13 |
| 5,848.0 | 39.40 | 261.90 | 5,805.6 | 4,346.6 | 25.7 | -155.1 | -49.6 | 3.96 | 3.02 | -4.13 |
| 5,911.0 | 39.10 | 260.30 | 5,854.4 | 4,395.4 | 19.6 | -194.5 | -49.7 | 1.68 | -0.46 | -2.54 |
| 5,974.0 | 39.60 | 260.30 | 5,903.1 | 4,444.1 | 12.8 | -233.8 | -49.2 | 0.79 | 0.79 | 0.00 |
| 6,037.0 | 38.40 | 260.50 | 5,952.0 | 4,493.0 | 6.2 | -272.9 | -48.7 | 1.92 | -1.90 | 0.32 |
| 6,100.0 | 40.00 | 262.20 | 6,000.9 | 4,541.9 | 0.2 | -312.3 | -49.0 | 3.08 | 2.54 | 2.70 |
| 6,163.0 | 40.30 | 260.70 | 6,049.0 | 4,590.0 | -5.8 | -352.5 | -49.3 | 1.61 | 0.48 | -2.38 |
| 6,226.0 | 42.60 | 260.60 | 6,096.2 | 4,637.2 | -12.6 | -393.6 | -49.0 | 3.65 | 3.65 | -0.16 |
| 6,289.0 | 42.90 | 259.90 | 6,142.5 | 4,683.5 | -19.8 | -435.8 | -48.4 | 0.89 | 0.48 | -1.11 |
| 6,352.0 | 43.10 | 259.80 | 6,188.6 | 4,729.6 | -27.4 | -478.1 | -47.5 | 0.34 | 0.32 | -0.16 |
| 6,415.0 | 41.50 | 260.70 | 6,235.2 | 4,776.2 | -34.6 | -519.8 | -46.9 | 2.72 | -2.54 | 1.43 |
| 6,478.0 | 40.10 | 261.80 | 6,282.9 | 4,823.9 | -40.8 | -560.5 | -47.1 | 2.50 | -2.22 | 1.75 |
| 6,541.0 | 39.60 | 261.50 | 6,331.2 | 4,872.2 | -46.7 | -600.5 | -47.5 | 0.65 | -0.79 | -0.48 |
| 6,604.0 | 40.00 | 261.90 | 6,379.6 | 4,920.6 | -52.5 | -640.4 | -48.0 | 0.75 | 0.63 | 0.63 |
| 6,667.0 | 38.70 | 261.30 | 6,428.3 | 4,969.3 | -58.3 | -679.9 | -48.4 | 2.15 | -2.06 | -0.95 |
| 6,731.0 | 42.60 | 264.80 | 6,476.9 | 5,017.9 | -63.3 | -721.2 | -49.9 | 7.06 | 6.09 | 5.47 |
| 6,793.0 | 41.50 | 264.30 | 6,522.9 | 5,063.9 | -67.3 | -762.6 | -52.5 | 1.85 | -1.77 | -0.81 |
| 6,856.0 | 41.70 | 262.70 | 6,570.0 | 5,111.0 | -72.0 | -804.1 | -54.3 | 1.72 | 0.32 | -2.54 |
| 6,919.0 | 44.50 | 265.10 | 6,616.0 | 5,157.0 | -76.6 | -846.9 | -56.5 | 5.15 | 4.44 | 3.81 |
| 6,982.0 | 42.90 | 264.00 | 6,661.6 | 5,202.6 | -80.7 | -890.3 | -59.2 | 2.81 | -2.54 | -1.75 |
| 7,045.0 | 41.10 | 263.10 | 6,708.4 | 5,249.4 | -85.4 | -932.2 | -61.0 | 3.01 | -2.86 | -1.43 |
| 7,109.0 | 41.50 | 262.50 | 6,756.5 | 5,297.5 | -90.7 | -974.1 | -62.3 | 0.88 | 0.63 | -0.94 |



Phoenix Technology Services Survey Report



Where energy meets innovation.

| | | | |
|-----------|------------------------|------------------------------|-------------------------|
| Database: | Q11 Phoenix - Combined | Local Co-ordinate Reference: | North American Datum 83 |
| Company: | Q11 Phoenix - Combined | TVD Reference: | 1000 - 1400 ft |
| Project: | Q11 Phoenix - Combined | MD Reference: | 1000 - 1400 ft |
| Site: | Q11 Phoenix - Combined | North Reference: | 1000 - 1400 ft |
| Well: | Q11 Phoenix - Combined | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Q11 Phoenix - Combined | | |
| Design: | Q11 Phoenix - Combined | | |

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | Subsea Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------|-----------------|-------------|-----------------------|---------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 7,172.0 | 44.40 | 263.40 | 6,802.6 | 5,343.6 | -96.0 | -1,016.7 | -63.8 | 4.70 | 4.60 | 1.43 |
| 7,235.0 | 42.40 | 262.70 | 6,848.4 | 5,389.4 | -101.2 | -1,059.6 | -65.3 | 3.27 | -3.17 | -1.11 |
| 7,298.0 | 40.50 | 262.60 | 6,895.6 | 5,436.6 | -106.5 | -1,101.0 | -66.5 | 3.02 | -3.02 | -0.16 |
| 7,330.0 | 39.30 | 261.80 | 6,920.1 | 5,461.1 | -109.3 | -1,121.3 | -66.9 | 4.08 | -3.75 | -2.50 |
| 7,361.0 | 38.50 | 258.30 | 6,944.3 | 5,485.3 | -112.7 | -1,140.5 | -66.6 | 7.54 | -2.58 | -11.29 |
| 7,393.0 | 38.40 | 251.60 | 6,969.3 | 5,510.3 | -117.8 | -1,159.7 | -64.5 | 13.02 | -0.31 | -20.94 |
| 7,424.0 | 38.40 | 244.30 | 6,993.6 | 5,534.6 | -125.1 | -1,177.5 | -60.1 | 14.62 | 0.00 | -23.55 |
| 7,456.0 | 38.10 | 242.10 | 7,018.8 | 5,559.8 | -134.0 | -1,195.2 | -54.1 | 4.36 | -0.94 | -6.88 |
| 7,487.0 | 37.60 | 238.60 | 7,043.3 | 5,584.3 | -143.4 | -1,211.7 | -47.4 | 7.11 | -1.61 | -11.29 |
| 7,519.0 | 37.90 | 233.40 | 7,068.6 | 5,609.6 | -154.3 | -1,227.9 | -39.1 | 9.99 | 0.94 | -16.25 |
| 7,550.0 | 39.10 | 227.80 | 7,092.8 | 5,633.8 | -166.6 | -1,242.8 | -29.3 | 11.89 | 3.87 | -18.06 |
| 7,582.0 | 41.40 | 227.50 | 7,117.3 | 5,658.3 | -180.5 | -1,258.1 | -17.9 | 7.21 | 7.19 | -0.94 |
| 7,613.0 | 42.90 | 224.70 | 7,140.2 | 5,681.2 | -195.0 | -1,273.1 | -6.0 | 7.75 | 4.84 | -9.03 |
| 7,645.0 | 43.60 | 220.40 | 7,163.5 | 5,704.5 | -211.1 | -1,287.9 | 7.6 | 9.46 | 2.19 | -13.44 |
| 7,676.0 | 44.70 | 216.60 | 7,185.8 | 5,726.8 | -228.0 | -1,301.3 | 22.2 | 9.24 | 3.55 | -12.26 |
| 7,708.0 | 45.90 | 213.70 | 7,208.3 | 5,749.3 | -246.6 | -1,314.4 | 38.6 | 7.45 | 3.75 | -9.06 |
| 7,739.0 | 47.50 | 210.50 | 7,229.6 | 5,770.6 | -265.7 | -1,326.4 | 55.6 | 9.11 | 5.16 | -10.32 |
| 7,771.0 | 49.40 | 207.60 | 7,250.8 | 5,791.8 | -286.6 | -1,338.0 | 74.4 | 9.01 | 5.94 | -9.06 |
| 7,802.0 | 52.00 | 203.80 | 7,270.4 | 5,811.4 | -308.3 | -1,348.4 | 94.2 | 12.66 | 8.39 | -12.26 |
| 7,834.0 | 54.80 | 199.90 | 7,289.5 | 5,830.5 | -332.1 | -1,357.9 | 116.2 | 13.12 | 8.75 | -12.19 |
| 7,865.0 | 57.60 | 197.90 | 7,306.8 | 5,847.8 | -356.5 | -1,366.3 | 139.0 | 10.50 | 9.03 | -6.45 |
| 7,897.0 | 59.80 | 195.70 | 7,323.4 | 5,864.4 | -382.6 | -1,374.2 | 163.6 | 9.04 | 6.88 | -6.88 |
| 7,928.0 | 61.50 | 191.70 | 7,338.6 | 5,879.6 | -408.9 | -1,380.6 | 188.5 | 12.51 | 5.48 | -10.94 |
| 7,960.0 | 63.90 | 188.20 | 7,353.3 | 5,894.3 | -436.9 | -1,385.5 | 215.4 | 12.28 | 7.50 | -10.94 |
| 7,991.0 | 66.30 | 186.40 | 7,366.3 | 5,907.3 | -464.8 | -1,389.0 | 242.4 | 9.36 | 7.74 | -5.81 |
| 8,023.0 | 68.50 | 183.80 | 7,378.6 | 5,919.6 | -494.2 | -1,391.7 | 271.1 | 10.17 | 6.88 | -6.16 |
| 8,054.0 | 70.60 | 181.70 | 7,389.4 | 5,930.4 | -523.2 | -1,393.0 | 299.5 | 9.28 | 6.77 | -6.77 |
| 8,086.0 | 73.10 | 179.20 | 7,399.4 | 5,940.4 | -553.6 | -1,393.3 | 329.5 | 10.78 | 7.81 | -7.81 |
| 8,117.0 | 75.20 | 177.50 | 7,407.9 | 5,948.9 | -583.4 | -1,392.4 | 359.1 | 8.59 | 6.77 | -7.77 |
| 8,149.0 | 77.10 | 175.30 | 7,415.5 | 5,956.5 | -614.4 | -1,390.5 | 390.0 | 8.93 | 5.99 | -6.88 |
| 8,180.0 | 79.20 | 173.50 | 7,421.9 | 5,962.9 | -644.6 | -1,387.5 | 420.3 | 8.84 | 6.77 | -5.81 |
| 8,212.0 | 80.20 | 170.30 | 7,427.6 | 5,968.6 | -675.8 | -1,383.1 | 451.8 | 10.32 | 3.13 | -10.00 |
| 8,214.2 | 80.31 | 170.19 | 7,428.0 | 5,969.0 | -677.9 | -1,382.7 | 453.9 | 6.80 | 4.83 | -4.86 |
| 8,243.0 | 81.70 | 168.80 | 7,432.5 | 5,973.5 | -705.9 | -1,377.5 | 482.4 | 6.80 | 4.84 | -4.84 |
| 8,275.0 | 84.40 | 166.70 | 7,436.4 | 5,977.4 | -736.9 | -1,370.8 | 514.1 | 10.66 | 8.44 | -8.56 |
| 8,306.0 | 87.10 | 165.20 | 7,438.7 | 5,979.7 | -766.9 | -1,363.3 | 544.9 | 9.96 | 8.71 | -4.84 |
| 8,330.0 | 88.30 | 165.00 | 7,439.6 | 5,980.6 | -790.1 | -1,357.1 | 568.7 | 5.07 | 5.00 | -0.83 |
| 8,393.0 | 88.10 | 165.40 | 7,441.6 | 5,982.6 | -850.9 | -1,341.0 | 631.4 | 0.71 | -0.32 | 0.63 |
| 8,456.0 | 89.70 | 164.40 | 7,442.8 | 5,983.8 | -911.8 | -1,324.6 | 694.0 | 2.99 | 2.54 | -1.59 |
| 8,519.0 | 90.50 | 164.00 | 7,442.7 | 5,983.7 | -972.4 | -1,307.5 | 756.5 | 1.42 | 1.27 | -0.63 |
| 8,582.0 | 91.20 | 162.10 | 7,441.8 | 5,982.8 | -1,032.6 | -1,289.1 | 818.9 | 3.21 | 1.11 | -3.02 |

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Phoenix Technology Services

Survey Report



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|-----------|-------------------------------|------------------------------|-------------------|
| Database: | EQT - Phoenix - Survey Data | Local Co-ordinate Reference: | US Survey |
| Company: | EQT Production - Eastern Area | TVD Reference: | US Survey |
| Project: | Wash County, TX | MD Reference: | US Survey |
| Site: | Wash County, TX | North Reference: | US Survey |
| Well: | Wash County | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wash County | | |
| Design: | Wash County | | |

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | Subsea Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------|-----------------|-------------|-----------------------|---------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 8,645.0 | 91.70 | 161.20 | 7,440.2 | 5,981.2 | -1,092.4 | -1,269.3 | 881.1 | 1.63 | 0.79 | -1.43 |
| 8,708.0 | 89.50 | 159.80 | 7,439.5 | 5,980.5 | -1,151.8 | -1,248.2 | 943.0 | 4.14 | -3.49 | -2.22 |
| 8,771.0 | 88.40 | 158.70 | 7,440.7 | 5,981.7 | -1,210.7 | -1,225.9 | 1,004.7 | 2.47 | -1.75 | -1.75 |
| 8,834.0 | 88.10 | 158.50 | 7,442.6 | 5,983.6 | -1,269.3 | -1,202.9 | 1,066.2 | 0.57 | -0.48 | -0.32 |
| 8,897.0 | 88.50 | 159.00 | 7,444.5 | 5,985.5 | -1,328.0 | -1,180.1 | 1,127.7 | 1.02 | 0.63 | 0.79 |
| 8,961.0 | 87.60 | 159.70 | 7,446.7 | 5,987.7 | -1,387.9 | -1,157.6 | 1,190.3 | 1.78 | -1.41 | 1.09 |
| 9,024.0 | 87.30 | 159.30 | 7,449.5 | 5,990.5 | -1,446.8 | -1,135.5 | 1,252.0 | 0.79 | -0.48 | -0.63 |
| 9,087.0 | 88.10 | 161.00 | 7,452.0 | 5,993.0 | -1,506.0 | -1,114.1 | 1,313.8 | 2.98 | 1.27 | 2.70 |
| 9,087.5 | 88.10 | 161.00 | 7,452.0 | 5,993.0 | -1,506.5 | -1,114.0 | 1,314.3 | 0.00 | 0.00 | 0.00 |
| 9,150.0 | 88.30 | 161.50 | 7,454.0 | 5,995.0 | -1,565.6 | -1,093.9 | 1,375.9 | 0.86 | 0.32 | 0.80 |
| 9,213.0 | 88.70 | 161.50 | 7,455.6 | 5,996.6 | -1,625.4 | -1,073.9 | 1,438.0 | 0.63 | 0.63 | 0.00 |
| 9,276.0 | 88.90 | 161.40 | 7,456.9 | 5,997.9 | -1,685.1 | -1,053.9 | 1,500.1 | 0.35 | 0.32 | -0.16 |
| 9,340.0 | 89.80 | 161.50 | 7,457.7 | 5,998.7 | -1,745.8 | -1,033.5 | 1,563.2 | 1.41 | 1.41 | 0.16 |
| 9,402.0 | 91.50 | 162.30 | 7,457.0 | 5,998.0 | -1,804.7 | -1,014.3 | 1,624.4 | 3.03 | 2.74 | 1.29 |
| 9,465.0 | 91.70 | 162.90 | 7,455.2 | 5,996.2 | -1,864.8 | -995.4 | 1,686.7 | 1.00 | 0.32 | 0.95 |
| 9,528.0 | 89.80 | 161.40 | 7,454.4 | 5,995.4 | -1,924.7 | -976.1 | 1,748.9 | 3.84 | -3.02 | -2.38 |
| 9,592.0 | 89.50 | 161.60 | 7,454.8 | 5,995.8 | -1,985.4 | -955.8 | 1,812.0 | 0.56 | -0.47 | 0.31 |
| 9,654.0 | 89.80 | 161.60 | 7,455.1 | 5,996.1 | -2,044.3 | -936.2 | 1,873.2 | 0.48 | 0.48 | 0.00 |
| 9,717.0 | 89.90 | 161.40 | 7,455.3 | 5,996.3 | -2,104.0 | -916.3 | 1,935.3 | 0.35 | 0.16 | -0.32 |
| 9,781.0 | 90.30 | 161.90 | 7,455.2 | 5,996.2 | -2,164.7 | -896.1 | 1,998.5 | 1.00 | 0.63 | 0.78 |
| 9,844.0 | 90.70 | 162.30 | 7,454.6 | 5,995.6 | -2,224.7 | -876.7 | 2,060.7 | 0.90 | 0.63 | 0.63 |
| 9,907.0 | 90.80 | 162.50 | 7,453.8 | 5,994.8 | -2,284.7 | -857.7 | 2,123.0 | 0.35 | 0.16 | 0.32 |
| 9,971.0 | 90.90 | 162.70 | 7,452.9 | 5,993.9 | -2,345.8 | -838.6 | 2,186.3 | 0.35 | 0.16 | 0.31 |
| 10,034.0 | 90.50 | 161.20 | 7,452.1 | 5,993.1 | -2,405.7 | -819.0 | 2,248.5 | 2.46 | -0.63 | -2.38 |
| 10,096.0 | 90.60 | 160.80 | 7,451.5 | 5,992.5 | -2,464.3 | -798.9 | 2,309.5 | 0.66 | 0.16 | -0.65 |
| 10,160.0 | 89.40 | 160.80 | 7,451.5 | 5,992.5 | -2,524.8 | -777.8 | 2,372.5 | 1.88 | -1.88 | 0.00 |
| 10,223.0 | 89.20 | 161.00 | 7,452.3 | 5,993.3 | -2,584.3 | -757.2 | 2,434.5 | 0.45 | -0.32 | 0.32 |
| 10,286.0 | 88.10 | 162.60 | 7,453.8 | 5,994.8 | -2,644.1 | -737.5 | 2,496.7 | 3.08 | -1.75 | 2.54 |
| 10,349.0 | 87.70 | 162.80 | 7,456.1 | 5,997.1 | -2,704.2 | -718.8 | 2,559.0 | 0.71 | -0.63 | 0.32 |
| 10,412.0 | 87.90 | 162.30 | 7,458.5 | 5,999.5 | -2,764.3 | -699.9 | 2,621.3 | 0.85 | 0.32 | -0.79 |
| 10,475.0 | 88.00 | 161.90 | 7,460.7 | 6,001.7 | -2,824.2 | -680.6 | 2,683.5 | 0.65 | 0.16 | -0.63 |
| 10,538.0 | 88.40 | 162.30 | 7,462.7 | 6,003.7 | -2,884.1 | -661.2 | 2,745.7 | 0.90 | 0.63 | 0.63 |
| 10,601.0 | 89.00 | 162.50 | 7,464.1 | 6,005.1 | -2,944.1 | -642.2 | 2,807.9 | 1.00 | 0.95 | 0.32 |
| 10,664.0 | 87.90 | 162.40 | 7,465.9 | 6,006.9 | -3,004.2 | -623.2 | 2,870.2 | 1.75 | -1.75 | -0.16 |
| 10,727.0 | 87.80 | 162.40 | 7,468.2 | 6,009.2 | -3,064.2 | -604.2 | 2,932.5 | 0.16 | -0.16 | 0.00 |
| 10,790.0 | 88.20 | 162.90 | 7,470.4 | 6,011.4 | -3,124.3 | -585.4 | 2,994.7 | 1.02 | 0.63 | 0.79 |
| 10,853.0 | 88.10 | 162.00 | 7,472.4 | 6,013.4 | -3,184.3 | -566.4 | 3,057.0 | 1.44 | -0.16 | -1.43 |
| 10,916.0 | 88.20 | 161.70 | 7,474.5 | 6,015.5 | -3,244.2 | -546.8 | 3,119.2 | 0.50 | 0.16 | -0.48 |
| 10,979.0 | 88.70 | 162.70 | 7,476.2 | 6,017.2 | -3,304.1 | -527.5 | 3,181.4 | 1.77 | 0.79 | 1.59 |
| 11,042.0 | 88.70 | 162.60 | 7,477.6 | 6,018.6 | -3,364.2 | -508.7 | 3,243.7 | 0.16 | 0.00 | -0.16 |
| 11,106.0 | 88.70 | 162.10 | 7,479.1 | 6,020.1 | -3,425.2 | -489.3 | 3,307.0 | 0.78 | 0.00 | -0.78 |
| 11,169.0 | 88.80 | 162.20 | 7,480.4 | 6,021.4 | -3,485.2 | -470.0 | 3,369.2 | 0.22 | 0.16 | 0.16 |

| | | | |
|-----------|-------------------------|------------------------------|---------------------|
| Database: | COMPASS 5000.1 | Local Co-ordinate Reference: | WGS 84 |
| Company: | EQT Production Services | TVD Reference: | True Vertical Depth |
| Project: | Winn-Dixie, WY | MD Reference: | Measured Depth |
| Site: | Winn-Dixie, WY | North Reference: | True North |
| Well: | Winn-Dixie | Survey Calculation Method: | Least Squares |
| Wellbore: | Winn-Dixie | | |
| Design: | Winn-Dixie | | |

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | Subsea Depth (usft) | +N-S (usft) | +E-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------|-----------------|-------------|-----------------------|---------------------|-------------|-------------|-------------------------|-------------------------|------------------------|-----------------------|
| 11,232.0 | 89.30 | 163.00 | 7,481.5 | 6,022.5 | -3,545.3 | -451.2 | 3,431.5 | 1.50 | 0.79 | 1.27 |
| 11,296.0 | 89.80 | 162.30 | 7,482.0 | 6,023.0 | -3,606.4 | -432.1 | 3,494.8 | 1.34 | 0.78 | -1.09 |
| 11,358.0 | 89.40 | 160.10 | 7,482.4 | 6,023.4 | -3,665.0 | -412.1 | 3,555.9 | 3.61 | -0.65 | -3.55 |
| 11,422.0 | 90.40 | 161.80 | 7,482.5 | 6,023.5 | -3,725.5 | -391.2 | 3,618.9 | 3.08 | 1.56 | 2.66 |
| 11,485.0 | 91.00 | 162.30 | 7,481.8 | 6,022.8 | -3,785.5 | -371.8 | 3,681.1 | 1.24 | 0.95 | 0.79 |
| 11,548.0 | 91.30 | 162.30 | 7,480.5 | 6,021.5 | -3,845.5 | -352.7 | 3,743.4 | 0.48 | 0.48 | 0.00 |
| 11,611.0 | 89.80 | 162.00 | 7,479.9 | 6,020.9 | -3,905.4 | -333.4 | 3,805.6 | 2.43 | -2.38 | -0.48 |
| 11,675.0 | 89.30 | 161.60 | 7,480.4 | 6,021.4 | -3,966.2 | -313.4 | 3,868.8 | 1.00 | -0.78 | -0.63 |
| 11,738.0 | 89.40 | 162.20 | 7,481.1 | 6,022.1 | -4,026.1 | -293.8 | 3,931.0 | 0.97 | 0.16 | 0.95 |
| 11,801.0 | 89.70 | 162.10 | 7,481.6 | 6,022.6 | -4,086.1 | -274.5 | 3,993.2 | 0.50 | 0.48 | -0.16 |
| 11,865.0 | 90.00 | 162.30 | 7,481.8 | 6,022.8 | -4,147.0 | -254.9 | 4,056.5 | 0.56 | 0.47 | 0.31 |
| 11,928.0 | 90.20 | 162.20 | 7,481.7 | 6,022.7 | -4,207.0 | -235.7 | 4,118.7 | 0.35 | 0.32 | -0.16 |
| 11,991.0 | 88.40 | 161.70 | 7,482.4 | 6,023.4 | -4,266.9 | -216.2 | 4,181.0 | 2.97 | -2.86 | -0.79 |
| 12,054.0 | 88.10 | 162.30 | 7,484.4 | 6,025.4 | -4,326.8 | -196.8 | 4,243.1 | 1.06 | -0.48 | 0.95 |
| 12,117.0 | 88.30 | 162.00 | 7,486.3 | 6,027.3 | -4,386.7 | -177.5 | 4,305.4 | 0.57 | 0.32 | -0.48 |
| 12,180.0 | 88.20 | 160.30 | 7,488.3 | 6,029.3 | -4,446.3 | -157.1 | 4,367.4 | 2.70 | -0.16 | -2.70 |
| 12,243.0 | 88.10 | 159.70 | 7,490.3 | 6,031.3 | -4,505.5 | -135.6 | 4,429.2 | 0.97 | -0.16 | -0.95 |
| 12,307.0 | 88.70 | 161.50 | 7,492.1 | 6,033.1 | -4,565.8 | -114.3 | 4,492.1 | 2.96 | 0.94 | 2.81 |
| 12,370.0 | 89.20 | 162.60 | 7,493.2 | 6,034.2 | -4,625.8 | -94.9 | 4,554.3 | 1.92 | 0.79 | 1.75 |
| 12,433.0 | 89.30 | 161.90 | 7,494.1 | 6,035.1 | -4,685.7 | -75.7 | 4,616.6 | 1.12 | 0.16 | -1.11 |
| 12,496.0 | 89.20 | 161.30 | 7,494.9 | 6,035.9 | -4,745.5 | -55.8 | 4,678.7 | 0.97 | -0.16 | -0.95 |
| 12,559.0 | 88.70 | 163.00 | 7,496.0 | 6,037.0 | -4,805.5 | -36.5 | 4,741.0 | 2.81 | -0.79 | 2.70 |
| 12,622.0 | 88.60 | 163.40 | 7,497.5 | 6,038.5 | -4,865.8 | -18.3 | 4,803.4 | 0.65 | -0.16 | 0.63 |
| 12,686.0 | 88.70 | 163.00 | 7,499.0 | 6,040.0 | -4,927.0 | 0.2 | 4,866.7 | 0.64 | 0.16 | -0.63 |
| 12,749.0 | 89.40 | 163.80 | 7,500.1 | 6,041.1 | -4,987.4 | 18.2 | 4,929.2 | 1.69 | 1.11 | 1.27 |
| 12,812.0 | 90.10 | 164.40 | 7,500.4 | 6,041.4 | -5,048.0 | 35.4 | 4,991.7 | 1.46 | 1.11 | 0.95 |
| 12,875.0 | 90.90 | 164.80 | 7,499.8 | 6,040.8 | -5,108.7 | 52.2 | 5,054.3 | 1.42 | 1.27 | 0.63 |
| 12,938.0 | 90.90 | 164.30 | 7,498.8 | 6,039.8 | -5,169.4 | 68.9 | 5,116.9 | 0.79 | 0.00 | -0.79 |
| 13,001.0 | 90.90 | 164.30 | 7,497.8 | 6,038.8 | -5,230.1 | 86.0 | 5,179.5 | 0.00 | 0.00 | 0.00 |
| 13,064.0 | 89.60 | 163.00 | 7,497.5 | 6,038.5 | -5,290.5 | 103.7 | 5,241.9 | 2.92 | -2.06 | -2.06 |
| 13,127.0 | 89.80 | 162.60 | 7,497.9 | 6,038.9 | -5,350.7 | 122.4 | 5,304.3 | 0.71 | 0.32 | -0.63 |
| 13,190.0 | 90.00 | 162.70 | 7,498.0 | 6,039.0 | -5,410.8 | 141.1 | 5,366.6 | 0.35 | 0.32 | 0.16 |
| 13,253.0 | 89.70 | 162.90 | 7,498.2 | 6,039.2 | -5,471.0 | 159.8 | 5,429.0 | 0.57 | -0.48 | 0.32 |
| 13,316.0 | 89.80 | 162.50 | 7,498.4 | 6,039.4 | -5,531.2 | 178.5 | 5,491.3 | 0.65 | 0.16 | -0.63 |
| 13,379.0 | 89.80 | 162.90 | 7,498.6 | 6,039.6 | -5,591.3 | 197.2 | 5,553.6 | 0.63 | 0.00 | 0.63 |
| 13,442.0 | 89.80 | 163.00 | 7,498.9 | 6,039.9 | -5,651.5 | 215.7 | 5,616.0 | 0.16 | 0.00 | 0.16 |
| 13,506.0 | 89.60 | 162.70 | 7,499.2 | 6,040.2 | -5,712.7 | 234.6 | 5,679.4 | 0.56 | -0.31 | -0.47 |
| 13,569.0 | 89.90 | 162.30 | 7,499.5 | 6,040.5 | -5,772.8 | 253.5 | 5,741.7 | 0.79 | 0.48 | -0.63 |
| 13,632.0 | 90.10 | 162.70 | 7,499.5 | 6,040.5 | -5,832.9 | 272.5 | 5,804.0 | 0.71 | 0.32 | 0.63 |
| 13,695.0 | 90.00 | 163.20 | 7,499.4 | 6,040.4 | -5,893.1 | 290.9 | 5,866.3 | 0.81 | -0.16 | 0.79 |
| 13,758.0 | 89.70 | 161.30 | 7,499.6 | 6,040.6 | -5,953.1 | 310.1 | 5,928.6 | 3.05 | -0.48 | -3.02 |
| 13,821.0 | 89.40 | 160.40 | 7,500.1 | 6,041.1 | -6,012.6 | 330.8 | 5,990.6 | 1.51 | -0.48 | -1.43 |

| | | | |
|-----------|-----------------------------------|------------------------------|-----------------------------------|
| Database: | EQT - Phoenix Technology Services | Local Co-ordinate Reference: | EQT - Phoenix Technology Services |
| Company: | Phoenix Technology Services | TVD Reference: | EQT - Phoenix Technology Services |
| Project: | Phoenix County, TX | MD Reference: | EQT - Phoenix Technology Services |
| Site: | Phoenix County, TX | North Reference: | EQT - Phoenix Technology Services |
| Well: | Phoenix County, TX | Survey Calculation Method: | EQT - Phoenix Technology Services |
| Wellbore: | Phoenix County, TX | | |
| Design: | Phoenix County, TX | | |

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | Subsea Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------|-----------------|-------------|-----------------------|---------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 13,885.0 | 89.70 | 159.90 | 7,500.6 | 6,041.6 | -6,072.8 | 352.5 | 6,053.5 | 0.91 | 0.47 | -0.78 |
| 13,948.0 | 89.80 | 159.50 | 7,500.9 | 6,041.9 | -6,131.9 | 374.4 | 6,115.2 | 0.65 | 0.16 | -0.63 |
| 14,011.0 | 89.70 | 160.20 | 7,501.1 | 6,042.1 | -6,191.0 | 396.1 | 6,177.0 | 1.12 | -0.16 | 1.11 |
| 14,074.0 | 90.10 | 160.30 | 7,501.2 | 6,042.2 | -6,250.3 | 417.4 | 6,238.9 | 0.65 | 0.63 | 0.16 |
| 14,137.0 | 89.30 | 161.00 | 7,501.6 | 6,042.6 | -6,309.8 | 438.3 | 6,300.9 | 1.69 | -1.27 | 1.11 |
| 14,200.0 | 89.20 | 161.50 | 7,502.4 | 6,043.4 | -6,369.4 | 458.5 | 6,363.0 | 0.81 | -0.16 | 0.79 |
| 14,264.0 | 89.10 | 161.70 | 7,503.3 | 6,044.3 | -6,430.1 | 478.7 | 6,426.1 | 0.35 | -0.16 | 0.31 |
| 14,327.0 | 89.40 | 162.30 | 7,504.2 | 6,045.2 | -6,490.0 | 498.2 | 6,488.3 | 1.06 | 0.48 | 0.95 |
| 14,390.0 | 89.70 | 162.60 | 7,504.7 | 6,045.7 | -6,550.1 | 517.2 | 6,550.6 | 0.67 | 0.48 | 0.48 |
| 14,453.0 | 89.50 | 162.30 | 7,505.1 | 6,046.1 | -6,610.2 | 536.2 | 6,612.9 | 0.57 | -0.32 | -0.48 |
| 14,516.0 | 89.50 | 162.10 | 7,505.7 | 6,046.7 | -6,670.2 | 555.4 | 6,675.2 | 0.32 | 0.00 | -0.32 |
| 14,580.0 | 89.20 | 161.70 | 7,506.4 | 6,047.4 | -6,731.0 | 575.3 | 6,738.3 | 0.78 | -0.47 | -0.63 |
| 14,643.0 | 88.80 | 161.30 | 7,507.5 | 6,048.5 | -6,790.7 | 595.3 | 6,800.5 | 0.90 | -0.63 | -0.63 |
| 14,706.0 | 88.70 | 160.90 | 7,508.9 | 6,049.9 | -6,850.3 | 615.7 | 6,862.5 | 0.65 | -0.16 | -0.63 |
| 14,769.0 | 88.60 | 160.90 | 7,510.3 | 6,051.3 | -6,909.8 | 636.3 | 6,924.5 | 0.16 | -0.16 | 0.00 |
| 14,832.0 | 88.50 | 160.40 | 7,511.9 | 6,052.9 | -6,969.2 | 657.2 | 6,986.5 | 0.81 | -0.16 | -0.79 |
| 14,895.0 | 88.70 | 160.00 | 7,513.5 | 6,054.5 | -7,028.5 | 678.5 | 7,048.3 | 0.71 | 0.32 | -0.63 |
| 14,959.0 | 88.70 | 161.60 | 7,514.9 | 6,055.9 | -7,088.9 | 699.6 | 7,111.3 | 2.50 | 0.00 | 2.50 |
| 15,022.0 | 89.20 | 162.50 | 7,516.1 | 6,057.1 | -7,148.9 | 719.0 | 7,173.5 | 1.63 | 0.79 | 1.43 |
| 15,085.0 | 90.50 | 163.50 | 7,516.2 | 6,057.2 | -7,209.1 | 737.4 | 7,235.9 | 2.60 | 2.06 | 1.59 |
| 15,148.0 | 90.60 | 162.90 | 7,515.6 | 6,056.6 | -7,269.4 | 755.6 | 7,298.3 | 0.97 | 0.16 | -0.95 |
| 15,212.0 | 90.20 | 161.90 | 7,515.2 | 6,056.2 | -7,330.4 | 774.9 | 7,361.6 | 1.68 | -0.63 | -1.56 |
| 15,275.0 | 90.50 | 161.70 | 7,514.8 | 6,055.8 | -7,390.3 | 794.6 | 7,423.7 | 0.57 | 0.48 | -0.32 |
| 15,338.0 | 91.20 | 162.40 | 7,513.9 | 6,054.9 | -7,450.2 | 814.0 | 7,486.0 | 1.57 | 1.11 | 1.11 |
| 15,401.0 | 91.50 | 162.70 | 7,512.4 | 6,053.4 | -7,510.3 | 832.9 | 7,548.3 | 0.67 | 0.48 | 0.48 |
| 15,465.0 | 89.80 | 163.10 | 7,511.7 | 6,052.7 | -7,571.4 | 851.7 | 7,611.6 | 2.73 | -2.66 | 0.63 |
| 15,528.0 | 89.20 | 162.70 | 7,512.2 | 6,053.2 | -7,631.6 | 870.3 | 7,674.0 | 1.14 | -0.95 | -0.63 |
| 15,591.0 | 89.10 | 162.60 | 7,513.1 | 6,054.1 | -7,691.8 | 889.0 | 7,736.3 | 0.22 | -0.16 | -0.16 |
| 15,655.0 | 89.20 | 162.60 | 7,514.1 | 6,055.1 | -7,752.8 | 908.2 | 7,799.6 | 0.16 | 0.16 | 0.00 |
| 15,718.0 | 89.40 | 162.80 | 7,514.9 | 6,055.9 | -7,812.9 | 927.0 | 7,861.9 | 0.32 | 0.32 | 0.00 |
| 15,781.0 | 89.00 | 162.30 | 7,515.7 | 6,056.7 | -7,873.0 | 946.0 | 7,924.2 | 0.79 | -0.63 | -0.48 |
| 15,844.0 | 88.80 | 162.10 | 7,517.0 | 6,058.0 | -7,933.0 | 965.3 | 7,986.4 | 0.45 | -0.32 | -0.32 |
| 15,908.0 | 88.40 | 162.20 | 7,518.5 | 6,059.5 | -7,993.9 | 984.9 | 8,049.7 | 0.64 | -0.63 | 0.16 |
| 15,971.0 | 90.00 | 162.60 | 7,519.4 | 6,060.4 | -8,053.9 | 1,003.9 | 8,111.9 | 2.62 | 2.54 | 0.63 |
| 16,034.0 | 90.80 | 162.40 | 7,519.0 | 6,060.0 | -8,114.0 | 1,022.9 | 8,174.2 | 1.31 | 1.27 | -0.32 |
| 16,097.0 | 90.50 | 162.60 | 7,518.2 | 6,059.2 | -8,174.1 | 1,041.8 | 8,236.5 | 0.57 | -0.48 | 0.32 |
| 16,161.0 | 90.20 | 162.70 | 7,517.9 | 6,058.9 | -8,235.2 | 1,060.9 | 8,299.9 | 0.49 | -0.47 | 0.16 |
| 16,224.0 | 90.00 | 162.20 | 7,517.7 | 6,058.7 | -8,295.2 | 1,079.9 | 8,362.2 | 0.85 | -0.32 | -0.79 |
| 16,287.0 | 89.80 | 161.90 | 7,517.9 | 6,058.9 | -8,355.2 | 1,099.3 | 8,424.4 | 0.57 | -0.32 | -0.48 |
| 16,350.0 | 89.80 | 161.30 | 7,518.1 | 6,059.1 | -8,415.0 | 1,119.2 | 8,486.5 | 0.95 | 0.00 | -0.95 |
| 16,414.0 | 89.50 | 160.70 | 7,518.5 | 6,059.5 | -8,475.5 | 1,140.0 | 8,549.5 | 1.05 | -0.47 | -0.94 |
| 16,477.0 | 89.20 | 159.90 | 7,519.2 | 6,060.2 | -8,534.8 | 1,161.3 | 8,611.4 | 1.36 | -0.48 | -1.27 |
| 16,541.0 | 89.10 | 161.10 | 7,520.1 | 6,061.1 | -8,595.1 | 1,182.6 | 8,674.4 | 1.88 | -0.16 | 1.88 |



Phoenix Technology Services
Survey Report



More energy. More solutions.

| | |
|---|---|
| Database: Phoenix Energy Prod 11 | Local Co-ordinate Reference: Phoenix Energy Prod 11 |
| Company: EQT Production - Domestic Assets | TVD Reference: 116667.0 |
| Project: Wells - 116667 - 201 | MD Reference: 116667.0 |
| Site: Wellbore ID=7452 | North Reference: 116667.0 |
| Well: 116667.0 | Survey Calculation Method: American National |
| Wellbore: 116667.0 | |
| Design: 116667.0 | |

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | Subsea Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------|-----------------|-------------|-----------------------|---------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 16,604.0 | 89.10 | 161.00 | 7,521.1 | 6,062.1 | -8,654.7 | 1,203.1 | 8,736.4 | 0.16 | 0.00 | -0.16 |
| 16,667.0 | 90.20 | 161.20 | 7,521.5 | 6,062.5 | -8,714.3 | 1,223.5 | 8,798.5 | 1.77 | 1.75 | 0.32 |
| 16,730.0 | 90.50 | 160.90 | 7,521.1 | 6,062.1 | -8,773.9 | 1,244.0 | 8,860.5 | 0.67 | 0.48 | -0.48 |
| 16,793.0 | 90.50 | 161.30 | 7,520.6 | 6,061.6 | -8,833.5 | 1,264.4 | 8,922.6 | 0.63 | 0.00 | 0.63 |
| 16,856.0 | 90.30 | 160.70 | 7,520.1 | 6,061.1 | -8,893.0 | 1,284.9 | 8,984.6 | 1.00 | -0.32 | -0.95 |
| 16,920.0 | 90.50 | 160.80 | 7,519.7 | 6,060.7 | -8,953.4 | 1,306.0 | 9,047.6 | 0.35 | 0.31 | 0.16 |
| 16,983.0 | 90.70 | 161.60 | 7,519.0 | 6,060.0 | -9,013.1 | 1,326.3 | 9,109.6 | 1.31 | 0.32 | 1.27 |
| 17,046.0 | 90.80 | 161.70 | 7,518.2 | 6,059.2 | -9,072.9 | 1,346.1 | 9,171.8 | 0.22 | 0.16 | 0.16 |
| 17,109.0 | 90.70 | 161.70 | 7,517.4 | 6,058.4 | -9,132.7 | 1,365.9 | 9,233.9 | 0.16 | -0.16 | 0.00 |
| 17,172.0 | 89.40 | 163.00 | 7,517.3 | 6,058.3 | -9,192.7 | 1,385.0 | 9,296.2 | 2.92 | -2.06 | 2.06 |
| 17,235.0 | 89.10 | 163.30 | 7,518.1 | 6,059.1 | -9,253.0 | 1,403.2 | 9,358.6 | 0.67 | -0.48 | 0.48 |
| 17,298.0 | 89.60 | 163.40 | 7,518.9 | 6,059.9 | -9,313.4 | 1,421.3 | 9,421.1 | 0.81 | 0.79 | 0.16 |
| 17,362.0 | 89.50 | 164.30 | 7,519.4 | 6,060.4 | -9,374.8 | 1,439.1 | 9,484.6 | 1.41 | -0.16 | 1.41 |
| 17,425.0 | 90.10 | 164.20 | 7,519.6 | 6,060.6 | -9,435.5 | 1,456.2 | 9,547.1 | 0.97 | 0.95 | -0.16 |
| 17,488.0 | 90.20 | 164.70 | 7,519.4 | 6,060.4 | -9,496.2 | 1,473.1 | 9,609.7 | 0.81 | 0.16 | 0.79 |
| 17,551.0 | 90.50 | 164.50 | 7,519.0 | 6,060.0 | -9,556.9 | 1,489.8 | 9,672.3 | 0.57 | 0.48 | -0.32 |
| 17,607.0 | 90.50 | 164.30 | 7,518.5 | 6,059.5 | -9,610.8 | 1,504.9 | 9,727.9 | 0.36 | 0.00 | -0.36 |
| 17,660.0 | 90.50 | 164.30 | 7,518.1 | 6,059.1 | -9,661.8 | 1,519.2 | 9,780.6 | 0.00 | 0.00 | 0.00 |

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| Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (°) |
|-----------------------|-----------------------|--------------------------|-----------|---------|-------------------|
| 8,214.2 | 7,428.0 | Top of Geneseo@7428' TVD | | 0.00 | 0.00 |
| 8,087.5 | 7,452.0 | Top of Tully@7452' TVD | | 0.00 | 0.00 |

Environmental Protection

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates (+N/-S (usft), +E/-W (usft)) | Comment |
|-----------------------|-----------------------|--|--|
| 5,176.0 | 5,175.4 | 38.1 13.4 | Gyro Tie In=5176' MD |
| 5,376.0 | 5,375.4 | 39.5 11.3 | KOP=5376' MD |
| 8,330.0 | 7,439.6 | -790.1 -1,357.1 | LP=8330' MD/ 7440' TVD |
| 16,667.0 | 7,521.5 | -8,714.3 1,223.5 | Deepest Point of Well=16667' MD/ 7522' TVD |
| 17,607.0 | 7,518.5 | -9,610.8 1,504.9 | Last Survey=17607' MD/ 7519' TVD |
| 17,660.0 | 7,518.1 | -9,661.8 1,519.2 | Projection to TD=17660' MD/ 7518' TVD |

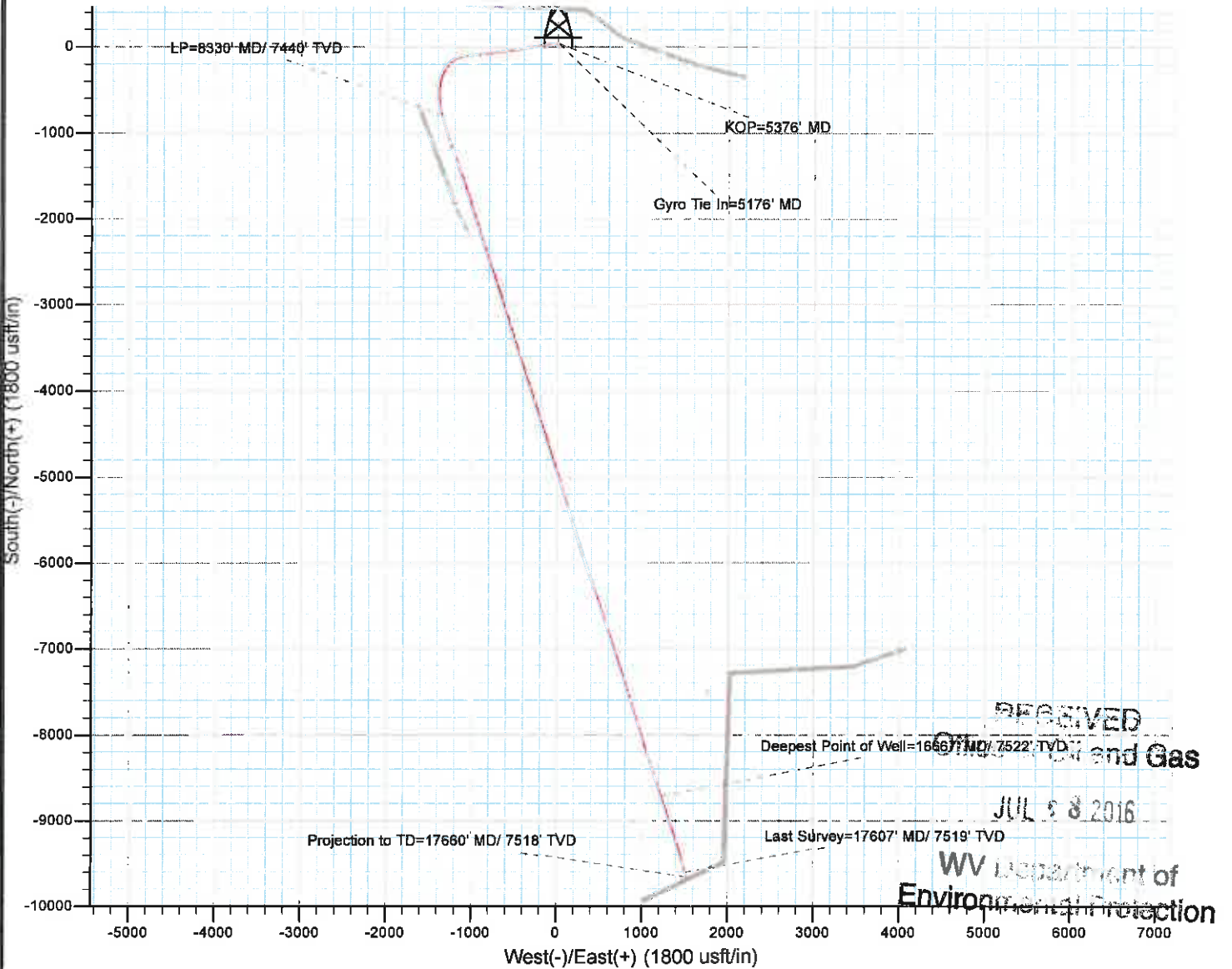
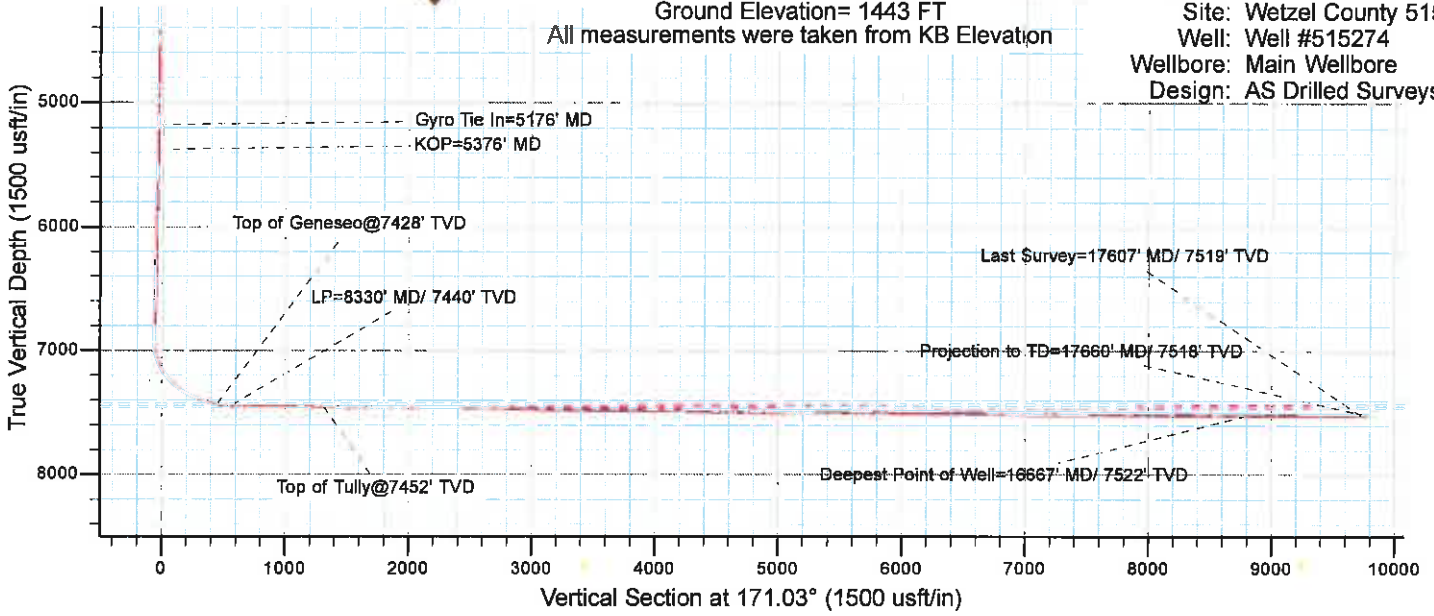
Checked By: _____ Approved By: _____ Date: _____



EQT Production - Geneseo Shale

KB Elevation=1459 FT
Ground Elevation= 1443 FT
All measurements were taken from KB Elevation

Project: Wetzel County, WV
Site: Wetzel County 515274
Well: Well #515274
Wellbore: Main Wellbore
Design: AS Drilled Surveys



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JUL 28 2016

WV Department of
Environmental Protection

10/28/2016