

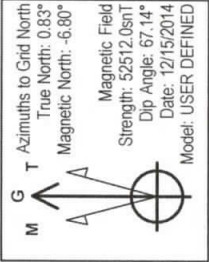


Erlewine Pad
Erlewine 8H
Plan 3
GL 1212' & KB 18' @ 1230.00ft (Saxon 141)
Mary Prospect

PROJECT DETAILS:
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: West Virginia North 4701
System Datum: Mean Sea Level

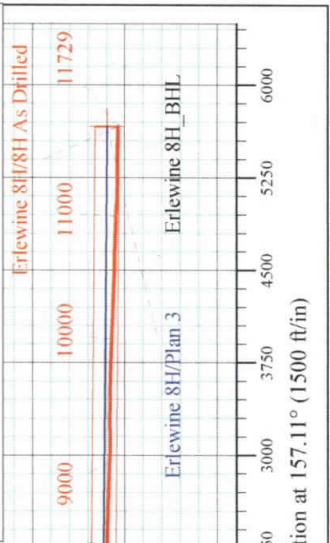
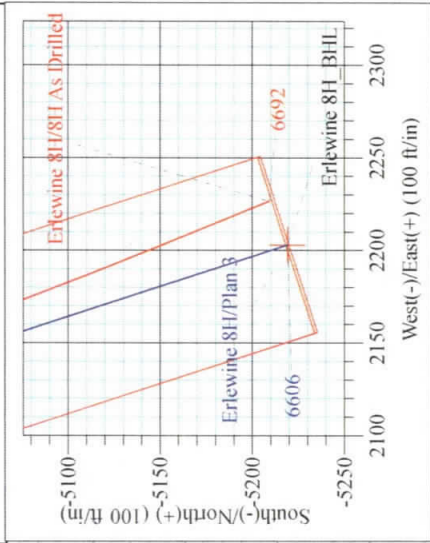
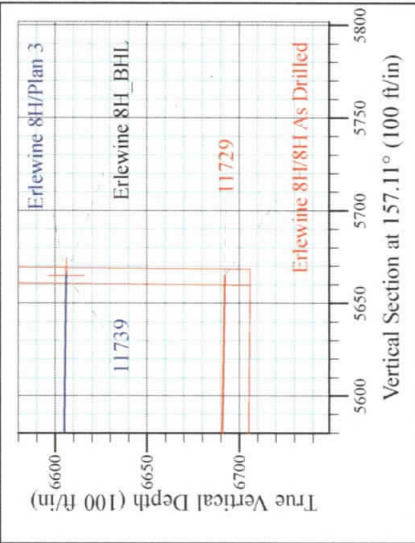
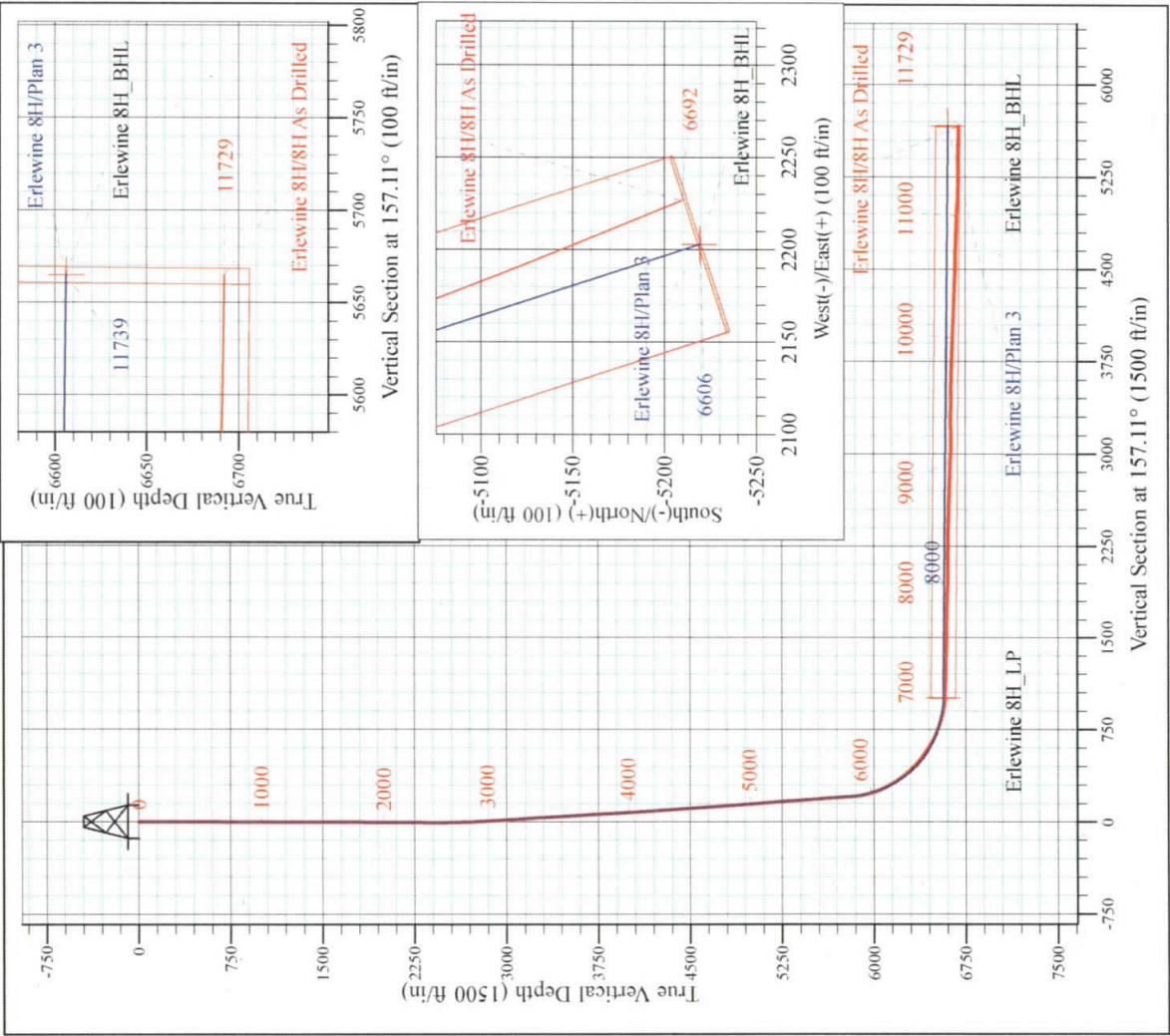


Shane Rhodes
9:41, December 30 2014
Scientific Drilling International
124 Vista Drive
Charlertoi, PA 15022



WELL DETAILS: Erlewine 8H

| +N/-S | +E/-W | Northing | Latitude | Longitude |
|-------|-------|-----------|-----------------|------------------|
| 0.00 | 0.00 | 433648.00 | 39° 41' 0.149 N | 80° 47' 50.396 W |





Stone Energy Corporation

Mary Prospect
Erlewine Pad
Erlewine 8H - Slot 8H

OH

Design: 8H As Drilled

Standard Survey Report

30 December, 2014



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| | | | |
|------------------|--------------------------|-------------------------------------|---|
| Company: | Stone Energy Corporation | Local Co-ordinate Reference: | Well Erlewine 8H - Slot 8H |
| Project: | Mary Prospect | TVD Reference: | GL 1212' & KB 18' @ 1230.00ft (Saxon 141) |
| Site: | Erlewine Pad | MD Reference: | GL 1212' & KB 18' @ 1230.00ft (Saxon 141) |
| Well: | Erlewine 8H | North Reference: | Grid |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | 8H As Drilled | Database: | Northeast District |

| | | | |
|--------------------|---|----------------------|----------------|
| Project | Mary Prospect, Wetzel County, West Virginia | | |
| 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 | Erlewine Pad | | | | |
| Site Position: | | Northing: | 433,674.00 usft | Latitude: | 39° 41' 0.404 N |
| From: | Map | Easting: | 1,634,878.00 usft | Longitude: | 80° 47' 50.515 W |
| Position Uncertainty: | 0.00 ft | Slot Radius: | 13-3/16 " | Grid Convergence: | -0.83 ° |

| | | | | | | |
|-----------------------------|-----------------------|---------|----------------------------|-------------------|----------------------|------------------|
| Well | Erlewine 8H - Slot 8H | | | | | |
| Well Position | +N/-S | 0.00 ft | Northing: | 433,648.00 usft | Latitude: | 39° 41' 0.149 N |
| | +E/-W | 0.00 ft | Easting: | 1,634,887.00 usft | Longitude: | 80° 47' 50.396 W |
| Position Uncertainty | | 0.00 ft | Wellhead Elevation: | 0.00 ft | Ground Level: | 1,212.00 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | OH | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | HDGM | 6/17/2014 | -7.62 | 67.17 | 52,580 |
| | User Defined | 6/21/2014 | 7.61 | 67.17 | 52,568 |
| | User Defined | 11/17/2014 | -7.63 | 67.14 | 52,522 |
| | User Defined | 12/15/2014 | -7.63 | 67.14 | 52,512 |

| | | | | | |
|--------------------------|------------------------------|-------------------|-------------------|----------------------|------|
| Design | 8H As Drilled | | | | |
| Audit Notes: | | | | | |
| Version: | 1.0 | Phase: | ACTUAL | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) | |
| | 0.00 | 0.00 | 0.00 | 157.11 | |

| | | | | | |
|-----------------------|----------------|-----------------------------|------------------|--------------------------|--|
| Survey Program | Date | 12/30/2014 | | | |
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description | |
| 18.00 | 2,392.00 | Survey 1 - Vaughn Gyro (OH) | VES GyroFlex | | |
| 2,497.00 | 11,729.00 | Survey 2 - SDI MWD (OH) | MWD SDI | MWD - Standard ver 1.0.1 | |

| | | | | | | | | | | |
|--------------------------------|------------------------|--------------------|----------------------------|-------------------|-------------------|------------------------------|--------------------------------|-------------------------------|------------------------------|--|
| Survey | | | | | | | | | | |
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 18.00 | 0.00 | 0.00 | 18.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Ground Level | | | | | | | | | | |
| 108.00 | 0.27 | 56.53 | 108.00 | 0.12 | 0.18 | -0.04 | 0.30 | 0.30 | 0.00 | |
| First VES Gyro @ 108 MD | | | | | | | | | | |
| 208.00 | 0.50 | 62.74 | 208.00 | 0.45 | 0.76 | -0.12 | 0.23 | 0.23 | 6.21 | |
| 308.00 | 0.50 | 67.08 | 307.99 | 0.82 | 1.55 | -0.15 | 0.04 | 0.00 | 4.34 | |

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| | | | |
|------------------|--------------------------|-------------------------------------|---|
| Company: | Stone Energy Corporation | Local Co-ordinate Reference: | Well Erlewine 8H - Slot 8H |
| Project: | Mary Prospect | TVD Reference: | GL 1212' & KB 18' @ 1230.00ft (Saxon 141) |
| Site: | Erlewine Pad | MD Reference: | GL 1212' & KB 18' @ 1230.00ft (Saxon 141) |
| Well: | Erlewine 8H | North Reference: | Grid |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | 8H As Drilled | Database: | Northeast District |

| Survey | | | | | | | | | | |
|---------------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | |
| 408.00 | 0.51 | 75.84 | 407.99 | 1.10 | 2.38 | -0.08 | 0.08 | 0.01 | 8.76 | |
| 508.00 | 0.44 | 53.83 | 507.99 | 1.43 | 3.13 | -0.10 | 0.19 | -0.07 | -22.01 | |
| 608.00 | 0.41 | 54.06 | 607.98 | 1.87 | 3.73 | -0.27 | 0.03 | -0.03 | 0.23 | |
| 708.00 | 0.47 | 50.34 | 707.98 | 2.34 | 4.33 | -0.47 | 0.07 | 0.06 | -3.72 | |
| 808.00 | 0.30 | 59.79 | 807.98 | 2.73 | 4.87 | -0.62 | 0.18 | -0.17 | 9.45 | |
| 908.00 | 0.27 | 37.78 | 907.98 | 3.05 | 5.24 | -0.77 | 0.11 | -0.03 | -22.01 | |
| 1,008.00 | 0.21 | 21.42 | 1,007.98 | 3.41 | 5.45 | -1.02 | 0.09 | -0.06 | -16.36 | |
| 1,108.00 | 0.21 | 13.53 | 1,107.98 | 3.76 | 5.56 | -1.30 | 0.03 | 0.00 | -7.89 | |
| 1,208.00 | 0.24 | 4.77 | 1,207.97 | 4.14 | 5.62 | -1.63 | 0.05 | 0.03 | -8.76 | |
| 1,308.00 | 0.16 | 11.02 | 1,307.97 | 4.49 | 5.67 | -1.93 | 0.08 | -0.08 | 6.25 | |
| 1,408.00 | 0.36 | 18.40 | 1,407.97 | 4.92 | 5.79 | -2.28 | 0.20 | 0.20 | 7.38 | |
| 1,508.00 | 0.27 | 12.81 | 1,507.97 | 5.45 | 5.95 | -2.71 | 0.09 | -0.09 | -5.59 | |
| 1,608.00 | 0.36 | 14.33 | 1,607.97 | 5.99 | 6.08 | -3.15 | 0.09 | 0.09 | 1.52 | |
| 1,708.00 | 0.43 | 18.16 | 1,707.97 | 6.65 | 6.27 | -3.69 | 0.07 | 0.07 | 3.83 | |
| 1,808.00 | 0.33 | 22.14 | 1,807.97 | 7.27 | 6.50 | -4.17 | 0.10 | -0.10 | 3.98 | |
| 1,908.00 | 0.26 | 19.40 | 1,907.96 | 7.75 | 6.68 | -4.54 | 0.07 | -0.07 | -2.74 | |
| 2,008.00 | 0.41 | 11.67 | 2,007.96 | 8.32 | 6.83 | -5.01 | 0.16 | 0.15 | -7.73 | |
| 2,108.00 | 0.25 | 4.61 | 2,107.96 | 8.88 | 6.92 | -5.49 | 0.16 | -0.16 | -7.06 | |
| 2,208.00 | 0.30 | 12.39 | 2,207.96 | 9.36 | 6.99 | -5.90 | 0.06 | 0.05 | 7.78 | |
| 2,308.00 | 0.54 | 347.03 | 2,307.96 | 10.07 | 6.94 | -6.58 | 0.30 | 0.24 | -25.36 | |
| 2,392.00 | 0.48 | 328.89 | 2,391.95 | 10.76 | 6.67 | -7.32 | 0.20 | -0.07 | -21.60 | |
| Last VES Gyro @ 2392 MD | | | | | | | | | | |
| 2,497.00 | 0.17 | 267.53 | 2,496.95 | 11.13 | 6.29 | -7.81 | 0.41 | -0.30 | -58.44 | |
| First SDI MWD Survey @ 2497 MD | | | | | | | | | | |
| 2,591.00 | 1.40 | 156.83 | 2,590.94 | 10.07 | 6.60 | -6.71 | 1.56 | 1.31 | -117.77 | |
| 2,685.00 | 2.58 | 155.40 | 2,684.88 | 7.09 | 7.93 | -3.44 | 1.26 | 1.26 | -1.52 | |
| 2,779.00 | 3.72 | 153.07 | 2,778.74 | 2.44 | 10.20 | 1.71 | 1.22 | 1.21 | -2.48 | |
| 2,873.00 | 3.67 | 151.30 | 2,872.55 | -2.91 | 13.02 | 7.75 | 0.13 | -0.05 | -1.88 | |
| 2,967.00 | 4.16 | 138.11 | 2,966.33 | -8.09 | 16.74 | 13.96 | 1.09 | 0.52 | -14.03 | |
| 3,061.00 | 4.20 | 130.89 | 3,060.08 | -12.88 | 21.62 | 20.28 | 0.56 | 0.04 | -7.68 | |
| 3,155.00 | 4.22 | 124.17 | 3,153.83 | -17.08 | 27.09 | 26.27 | 0.52 | 0.02 | -7.15 | |
| 3,249.00 | 4.19 | 118.38 | 3,247.57 | -20.65 | 32.97 | 31.85 | 0.45 | -0.03 | -6.16 | |
| 3,344.00 | 4.68 | 116.10 | 3,342.29 | -24.01 | 39.50 | 37.48 | 0.55 | 0.52 | -2.40 | |
| 3,437.00 | 4.69 | 112.67 | 3,434.98 | -27.14 | 46.42 | 43.06 | 0.30 | 0.01 | -3.69 | |
| 3,532.00 | 5.59 | 114.42 | 3,529.59 | -30.55 | 54.21 | 49.23 | 0.96 | 0.95 | 1.84 | |
| 3,628.00 | 5.51 | 108.36 | 3,625.15 | -33.94 | 62.85 | 55.70 | 0.62 | -0.08 | -6.31 | |
| 3,721.00 | 5.20 | 106.68 | 3,717.74 | -36.55 | 71.12 | 61.33 | 0.37 | -0.33 | -1.81 | |
| 3,816.00 | 4.24 | 101.21 | 3,812.42 | -38.47 | 78.69 | 66.04 | 1.11 | -1.01 | -5.76 | |
| 3,910.00 | 4.43 | 109.19 | 3,906.15 | -40.34 | 85.53 | 70.42 | 0.67 | 0.20 | 8.49 | |
| 4,004.00 | 4.94 | 106.74 | 3,999.83 | -42.70 | 92.83 | 75.44 | 0.58 | 0.54 | -2.61 | |
| 4,098.00 | 4.93 | 116.70 | 4,093.49 | -45.68 | 100.32 | 81.09 | 0.91 | -0.01 | 10.60 | |
| 4,192.00 | 5.48 | 127.63 | 4,187.10 | -50.23 | 107.48 | 88.08 | 1.20 | 0.59 | 11.63 | |
| 4,286.00 | 5.31 | 129.25 | 4,280.69 | -55.73 | 114.40 | 95.83 | 0.24 | -0.18 | 1.72 | |



Scientific Drilling International
Survey Report



| | | | |
|------------------|--------------------------|-------------------------------------|---|
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| Project: | Mary Prospect | TVD Reference: | GL 1212' & KB 18' @ 1230.00ft (Saxon 141) |
| Site: | Erlewine Pad | MD Reference: | GL 1212' & KB 18' @ 1230.00ft (Saxon 141) |
| Well: | Erlewine 8H | North Reference: | Grid |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | 8H As Drilled | Database: | Northeast District |

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|
| 4,380.00 | 4.78 | 122.00 | 4,374.32 | -60.55 | 121.09 | 102.88 | 0.88 | -0.56 | -7.71 |
| 4,475.00 | 5.05 | 110.34 | 4,468.98 | -64.11 | 128.37 | 108.98 | 1.09 | 0.28 | -12.27 |
| 4,568.00 | 5.38 | 109.03 | 4,561.59 | -66.95 | 136.33 | 114.70 | 0.38 | 0.35 | -1.41 |
| 4,662.00 | 5.48 | 114.70 | 4,655.17 | -70.26 | 144.57 | 120.95 | 0.58 | 0.11 | 6.03 |
| 4,756.00 | 5.75 | 120.08 | 4,748.72 | -74.50 | 152.73 | 128.03 | 0.63 | 0.29 | 5.72 |
| 4,850.00 | 5.00 | 121.34 | 4,842.30 | -78.99 | 160.30 | 135.11 | 0.81 | -0.80 | 1.34 |
| 4,945.00 | 4.93 | 122.64 | 4,936.95 | -83.34 | 167.27 | 141.83 | 0.14 | -0.07 | 1.37 |
| 5,039.00 | 5.14 | 119.90 | 5,030.59 | -87.62 | 174.32 | 148.52 | 0.34 | 0.22 | -2.91 |
| 5,134.00 | 6.00 | 118.12 | 5,125.14 | -92.08 | 182.39 | 155.76 | 0.92 | 0.91 | -1.87 |
| 5,228.00 | 5.73 | 118.73 | 5,218.64 | -96.65 | 190.84 | 163.26 | 0.29 | -0.29 | 0.65 |
| 5,322.00 | 4.95 | 117.60 | 5,312.24 | -100.79 | 198.55 | 170.07 | 0.84 | -0.83 | -1.20 |
| 5,416.00 | 5.33 | 116.16 | 5,405.86 | -104.59 | 206.06 | 176.49 | 0.43 | 0.40 | -1.53 |
| 5,511.00 | 6.10 | 114.71 | 5,500.38 | -108.65 | 214.61 | 183.55 | 0.82 | 0.81 | -1.53 |
| 5,605.00 | 5.71 | 114.61 | 5,593.89 | -112.68 | 223.40 | 190.69 | 0.42 | -0.41 | -0.11 |
| 5,699.00 | 5.51 | 115.20 | 5,687.44 | -116.55 | 231.73 | 197.49 | 0.22 | -0.21 | 0.63 |
| 5,787.00 | 5.22 | 111.70 | 5,775.05 | -119.83 | 239.27 | 203.45 | 0.50 | -0.33 | -3.98 |
| 5,818.00 | 4.63 | 114.85 | 5,805.94 | -120.88 | 241.72 | 205.36 | 2.09 | -1.90 | 10.16 |
| 5,848.00 | 5.74 | 119.56 | 5,835.81 | -122.13 | 244.12 | 207.45 | 3.96 | 3.70 | 15.70 |
| 5,879.00 | 7.88 | 127.49 | 5,866.59 | -124.19 | 247.16 | 210.53 | 7.52 | 6.90 | 25.58 |
| 5,909.00 | 10.65 | 133.85 | 5,896.20 | -127.36 | 250.79 | 214.86 | 9.83 | 9.23 | 21.20 |
| 5,940.00 | 13.62 | 136.90 | 5,926.50 | -132.01 | 255.35 | 220.92 | 9.80 | 9.58 | 9.84 |
| 5,970.00 | 16.04 | 137.87 | 5,955.50 | -137.66 | 260.54 | 228.15 | 8.11 | 8.07 | 3.23 |
| 6,000.00 | 18.39 | 138.84 | 5,984.16 | -144.30 | 266.44 | 236.56 | 7.89 | 7.83 | 3.23 |
| 6,031.00 | 20.52 | 137.75 | 6,013.38 | -152.00 | 273.31 | 246.33 | 6.97 | 6.87 | -3.52 |
| 6,061.00 | 22.92 | 138.11 | 6,041.25 | -160.25 | 280.75 | 256.81 | 8.01 | 8.00 | 1.20 |
| 6,090.00 | 24.65 | 138.53 | 6,067.79 | -168.98 | 288.52 | 267.88 | 5.99 | 5.97 | 1.45 |
| 6,120.00 | 27.02 | 138.83 | 6,094.79 | -178.80 | 297.16 | 280.29 | 7.91 | 7.90 | 1.00 |
| 6,151.00 | 29.50 | 138.17 | 6,122.09 | -189.79 | 306.88 | 294.19 | 8.06 | 8.00 | -2.13 |
| 6,182.00 | 32.08 | 137.72 | 6,148.72 | -201.57 | 317.51 | 309.18 | 8.36 | 8.32 | -1.45 |
| 6,212.00 | 33.75 | 135.93 | 6,173.90 | -213.45 | 328.67 | 324.47 | 6.44 | 5.57 | -5.97 |
| 6,242.00 | 36.35 | 134.87 | 6,198.46 | -225.72 | 340.77 | 340.47 | 8.90 | 8.67 | -3.53 |
| 6,272.00 | 39.11 | 135.20 | 6,222.19 | -238.70 | 353.74 | 357.48 | 9.22 | 9.20 | -2.77 |
| 6,302.00 | 41.20 | 135.15 | 6,245.11 | -252.42 | 367.38 | 375.42 | 6.97 | 6.97 | -2.77 |
| 6,333.00 | 43.19 | 134.29 | 6,268.08 | -267.07 | 382.17 | 394.67 | 6.68 | 6.42 | -2.77 |
| 6,363.00 | 44.86 | 134.06 | 6,289.65 | -281.60 | 397.13 | 413.87 | 5.59 | 5.57 | -0.77 |
| 6,393.00 | 46.95 | 132.59 | 6,310.52 | -296.38 | 412.80 | 433.58 | 7.80 | 6.97 | -4.90 |
| 6,423.00 | 48.74 | 132.64 | 6,330.66 | -311.44 | 429.17 | 453.82 | 5.97 | 5.97 | 0.17 |
| 6,453.00 | 50.51 | 133.28 | 6,350.09 | -327.01 | 445.89 | 474.67 | 6.12 | 5.90 | 2.13 |
| 6,484.00 | 52.10 | 134.84 | 6,369.47 | -343.84 | 463.27 | 496.93 | 6.46 | 5.13 | 5.03 |
| 6,514.00 | 54.45 | 136.03 | 6,387.41 | -360.97 | 480.14 | 519.28 | 8.45 | 7.83 | 3.97 |
| 6,546.00 | 55.98 | 137.16 | 6,405.67 | -380.06 | 498.20 | 543.89 | 5.59 | 4.78 | 3.53 |
| 6,577.00 | 57.80 | 139.23 | 6,422.60 | -399.42 | 515.50 | 568.45 | 8.11 | 5.87 | 6.68 |
| 6,609.00 | 58.92 | 140.30 | 6,439.39 | -420.22 | 533.10 | 594.46 | 4.51 | 3.50 | 3.34 |
| 6,641.00 | 59.66 | 140.85 | 6,455.73 | -441.47 | 550.57 | 620.83 | 2.74 | 2.31 | 1.72 |

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Survey Report



| | | | |
|------------------|--------------------------|-------------------------------------|---|
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| Project: | Mary Prospect | TVD Reference: | GL 1212' & KB 18' @ 1230.00ft (Saxon 141) |
| Site: | Erlewine Pad | MD Reference: | GL 1212' & KB 18' @ 1230.00ft (Saxon 141) |
| Well: | Erlewine 8H | North Reference: | Grid |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | 8H As Drilled | Database: | Northeast District |

| Survey | | | | | | | | | |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 6,673.00 | 60.73 | 141.65 | 6,471.63 | -463.13 | 567.95 | 647.54 | 3.99 | 3.34 | 2.50 |
| 6,704.00 | 63.22 | 143.63 | 6,486.20 | -484.88 | 584.55 | 674.03 | 9.81 | 8.03 | 6.39 |
| 6,736.00 | 66.08 | 145.14 | 6,499.90 | -508.39 | 601.38 | 702.24 | 9.90 | 8.94 | 4.72 |
| 6,768.00 | 68.98 | 147.37 | 6,512.13 | -532.97 | 617.80 | 731.27 | 11.12 | 9.06 | 6.97 |
| 6,800.00 | 70.59 | 148.16 | 6,523.19 | -558.37 | 633.82 | 760.90 | 5.54 | 5.03 | 2.47 |
| 6,831.00 | 72.02 | 149.26 | 6,533.12 | -583.47 | 649.06 | 789.95 | 5.71 | 4.61 | 3.55 |
| 6,863.00 | 73.37 | 150.88 | 6,542.64 | -609.94 | 664.31 | 820.27 | 6.42 | 4.22 | 5.06 |
| 6,895.00 | 75.25 | 152.16 | 6,551.30 | -637.02 | 678.99 | 850.93 | 7.02 | 5.88 | 4.00 |
| 6,927.00 | 77.04 | 153.58 | 6,558.96 | -664.67 | 693.16 | 881.91 | 7.06 | 5.59 | 4.44 |
| 6,959.00 | 79.00 | 154.69 | 6,565.60 | -692.84 | 706.81 | 913.17 | 7.00 | 6.13 | 3.47 |
| 6,991.00 | 82.17 | 156.75 | 6,570.84 | -721.61 | 719.79 | 944.72 | 11.77 | 9.91 | 6.44 |
| 7,022.00 | 85.03 | 158.15 | 6,574.29 | -750.06 | 731.60 | 975.53 | 10.26 | 9.23 | 4.52 |
| 7,054.00 | 87.05 | 159.58 | 6,576.50 | -779.83 | 743.11 | 1,007.43 | 7.73 | 6.31 | 4.47 |
| 7,086.00 | 87.25 | 159.53 | 6,578.09 | -809.78 | 754.27 | 1,039.36 | 0.64 | 0.63 | -0.16 |
| 7,149.00 | 88.09 | 159.07 | 6,580.65 | -868.66 | 776.53 | 1,102.26 | 1.52 | 1.33 | -0.73 |
| 7,213.00 | 88.22 | 159.08 | 6,582.71 | -928.41 | 799.37 | 1,166.19 | 0.20 | 0.20 | 0.02 |
| 7,276.00 | 88.42 | 158.40 | 6,584.56 | -987.10 | 822.20 | 1,229.14 | 1.12 | 0.32 | -1.08 |
| 7,340.00 | 88.29 | 157.93 | 6,586.40 | -1,046.48 | 846.00 | 1,293.10 | 0.76 | -0.20 | -0.73 |
| 7,404.00 | 87.69 | 159.88 | 6,588.64 | -1,106.15 | 869.02 | 1,357.03 | 3.19 | -0.94 | 3.05 |
| 7,467.00 | 87.95 | 161.54 | 6,591.04 | -1,165.57 | 889.81 | 1,419.86 | 2.67 | 0.41 | 2.63 |
| 7,530.00 | 89.46 | 162.12 | 6,592.46 | -1,225.41 | 909.45 | 1,482.63 | 2.57 | 2.40 | 0.92 |
| 7,594.00 | 89.87 | 160.33 | 6,592.84 | -1,286.00 | 930.05 | 1,546.46 | 2.87 | 0.64 | -2.80 |
| 7,656.00 | 90.20 | 159.97 | 6,592.80 | -1,344.32 | 951.10 | 1,608.37 | 0.79 | 0.53 | -0.58 |
| 7,720.00 | 89.06 | 160.78 | 6,593.21 | -1,404.60 | 972.60 | 1,672.26 | 2.19 | -1.78 | 1.27 |
| 7,782.00 | 88.79 | 160.10 | 6,594.38 | -1,463.01 | 993.35 | 1,734.15 | 1.18 | -0.44 | -1.10 |
| 7,845.00 | 87.85 | 160.56 | 6,596.22 | -1,522.31 | 1,014.55 | 1,797.02 | 1.66 | -1.49 | 0.73 |
| 7,909.00 | 87.99 | 160.89 | 6,598.55 | -1,582.68 | 1,035.66 | 1,860.85 | 0.56 | 0.22 | 0.52 |
| 7,972.00 | 88.39 | 162.60 | 6,600.54 | -1,642.48 | 1,055.38 | 1,923.61 | 2.79 | 0.63 | 2.71 |
| 8,036.00 | 89.09 | 164.41 | 6,601.94 | -1,703.82 | 1,073.55 | 1,987.20 | 3.03 | 1.09 | 2.83 |
| 8,099.00 | 89.66 | 164.40 | 6,602.63 | -1,764.50 | 1,090.49 | 2,049.68 | 0.90 | 0.90 | -0.02 |
| 8,163.00 | 89.77 | 163.77 | 6,602.95 | -1,826.05 | 1,108.04 | 2,113.21 | 1.00 | 0.17 | -0.98 |
| 8,227.00 | 90.20 | 163.70 | 6,602.97 | -1,887.48 | 1,125.96 | 2,176.78 | 0.68 | 0.67 | -0.11 |
| 8,290.00 | 89.63 | 162.80 | 6,603.06 | -1,947.81 | 1,144.12 | 2,239.42 | 1.69 | -0.90 | -1.43 |
| 8,354.00 | 89.33 | 161.98 | 6,603.64 | -2,008.81 | 1,163.48 | 2,303.15 | 1.36 | -0.47 | -1.28 |
| 8,417.00 | 88.36 | 161.80 | 6,604.91 | -2,068.67 | 1,183.06 | 2,365.91 | 1.57 | -1.54 | -0.29 |
| 8,480.00 | 87.92 | 161.58 | 6,606.96 | -2,128.45 | 1,202.84 | 2,428.68 | 0.78 | -0.70 | -0.60 |
| 8,544.00 | 88.35 | 161.14 | 6,609.04 | -2,189.06 | 1,223.28 | 2,492.47 | 0.96 | 0.67 | 0.25 |
| 8,607.00 | 88.79 | 161.30 | 6,610.61 | -2,248.69 | 1,243.56 | 2,555.29 | 0.74 | 0.70 | 0.67 |
| 8,671.00 | 88.02 | 161.73 | 6,612.39 | -2,309.36 | 1,263.84 | 2,619.08 | 1.38 | -1.20 | 0.67 |
| 8,734.00 | 87.62 | 162.66 | 6,614.79 | -2,369.30 | 1,283.09 | 2,681.78 | 1.61 | -0.63 | 1.48 |
| 8,798.00 | 87.92 | 162.86 | 6,617.28 | -2,430.38 | 1,302.05 | 2,745.42 | 0.56 | 0.47 | 0.31 |
| 8,862.00 | 87.55 | 162.34 | 6,619.81 | -2,491.40 | 1,321.17 | 2,809.08 | 1.00 | -0.58 | -0.81 |
| 8,925.00 | 87.75 | 161.85 | 6,622.39 | -2,551.30 | 1,340.52 | 2,871.79 | 0.84 | 0.32 | -0.78 |

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Scientific Drilling International
Survey Report



| | | | |
|------------------|--------------------------|-------------------------------------|---|
| Company: | Stone Energy Corporation | Local Co-ordinate Reference: | Well Erlewine 8H - Slot 8H |
| Project: | Mary Prospect | TVD Reference: | GL 1212' & KB 18' @ 1230.00ft (Saxon 141) |
| Site: | Erlewine Pad | MD Reference: | GL 1212' & KB 18' @ 1230.00ft (Saxon 141) |
| Well: | Erlewine 8H | North Reference: | Grid |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | 8H As Drilled | Database: | Northeast District |

| Survey | | | | | | | | | | |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | |
| 8,989.00 | 88.02 | 161.31 | 6,624.75 | -2,611.98 | 1,360.73 | 2,935.55 | 0.94 | 0.42 | -0.84 | |
| 9,052.00 | 88.56 | 162.22 | 6,626.63 | -2,671.79 | 1,380.44 | 2,998.32 | 1.68 | 0.86 | 1.44 | |
| 9,116.00 | 89.33 | 162.14 | 6,627.81 | -2,732.71 | 1,400.02 | 3,062.05 | 1.21 | 1.20 | -0.13 | |
| 9,180.00 | 89.97 | 162.23 | 6,628.20 | -2,793.64 | 1,419.60 | 3,125.80 | 1.01 | 1.00 | 0.14 | |
| 9,243.00 | 90.57 | 161.76 | 6,627.91 | -2,853.55 | 1,439.07 | 3,188.57 | 1.21 | 0.95 | -0.75 | |
| 9,307.00 | 90.91 | 161.71 | 6,627.08 | -2,914.32 | 1,459.13 | 3,252.36 | 0.54 | 0.53 | -0.08 | |
| 9,371.00 | 89.90 | 162.04 | 6,626.63 | -2,975.15 | 1,479.04 | 3,316.14 | 1.66 | -1.58 | 0.52 | |
| 9,435.00 | 89.56 | 163.51 | 6,626.93 | -3,036.27 | 1,497.99 | 3,379.82 | 2.36 | -0.53 | 2.30 | |
| 9,498.00 | 90.37 | 162.73 | 6,626.97 | -3,096.56 | 1,516.28 | 3,442.47 | 1.78 | 1.29 | -1.24 | |
| 9,562.00 | 88.99 | 162.50 | 6,627.32 | -3,157.63 | 1,535.40 | 3,506.18 | 2.19 | -2.16 | -0.36 | |
| 9,626.00 | 87.75 | 162.60 | 6,629.14 | -3,218.66 | 1,554.59 | 3,569.86 | 1.94 | -1.94 | 0.16 | |
| 9,689.00 | 88.29 | 162.93 | 6,631.32 | -3,278.79 | 1,573.24 | 3,632.52 | 1.00 | 0.86 | 0.52 | |
| 9,753.00 | 89.03 | 162.96 | 6,632.82 | -3,339.96 | 1,592.01 | 3,696.17 | 1.16 | 1.16 | 0.05 | |
| 9,816.00 | 87.82 | 162.85 | 6,634.55 | -3,400.16 | 1,610.52 | 3,758.82 | 1.93 | -1.92 | -0.17 | |
| 9,880.00 | 87.38 | 162.48 | 6,637.23 | -3,461.19 | 1,629.57 | 3,822.47 | 0.90 | -0.69 | -0.58 | |
| 9,944.00 | 88.12 | 162.20 | 6,639.74 | -3,522.13 | 1,648.97 | 3,886.15 | 1.24 | 1.16 | -0.44 | |
| 10,007.00 | 88.79 | 162.82 | 6,641.44 | -3,582.20 | 1,667.90 | 3,948.85 | 1.45 | 1.06 | 0.98 | |
| 10,070.00 | 88.05 | 163.58 | 6,643.18 | -3,642.48 | 1,686.10 | 4,011.47 | 1.68 | -1.17 | 1.21 | |
| 10,134.00 | 87.38 | 164.01 | 6,645.73 | -3,703.89 | 1,703.95 | 4,074.98 | 1.24 | -1.05 | 0.67 | |
| 10,198.00 | 87.55 | 163.51 | 6,648.56 | -3,765.28 | 1,721.83 | 4,138.49 | 0.82 | 0.27 | -0.78 | |
| 10,262.00 | 87.79 | 163.19 | 6,651.16 | -3,826.54 | 1,740.15 | 4,202.06 | 0.62 | 0.38 | -0.50 | |
| 10,325.00 | 87.75 | 162.67 | 6,653.61 | -3,886.72 | 1,758.63 | 4,264.69 | 0.83 | -0.06 | -0.83 | |
| 10,388.00 | 87.52 | 162.30 | 6,656.21 | -3,946.75 | 1,777.57 | 4,327.36 | 0.69 | -0.37 | -0.59 | |
| 10,450.00 | 87.25 | 161.62 | 6,659.04 | -4,005.64 | 1,796.75 | 4,389.07 | 1.18 | -0.44 | -1.10 | |
| 10,513.00 | 87.99 | 161.66 | 6,661.66 | -4,065.38 | 1,816.58 | 4,451.82 | 1.18 | 1.17 | 0.06 | |
| 10,577.00 | 88.49 | 162.53 | 6,663.62 | -4,126.25 | 1,836.25 | 4,515.55 | 1.57 | 0.78 | 1.36 | |
| 10,641.00 | 88.76 | 162.80 | 6,665.16 | -4,187.33 | 1,855.31 | 4,579.23 | 0.60 | 0.42 | 0.42 | |
| 10,703.00 | 89.33 | 162.59 | 6,666.19 | -4,246.51 | 1,873.75 | 4,640.93 | 0.98 | 0.92 | -0.34 | |
| 10,766.00 | 88.12 | 161.81 | 6,667.59 | -4,306.48 | 1,893.00 | 4,703.66 | 2.28 | -1.92 | -1.24 | |
| 10,830.00 | 87.59 | 162.37 | 6,669.99 | -4,367.34 | 1,912.67 | 4,767.38 | 1.20 | -0.83 | 0.88 | |
| 10,893.00 | 87.55 | 162.98 | 6,672.66 | -4,427.42 | 1,931.41 | 4,830.02 | 0.97 | -0.06 | 0.97 | |
| 10,957.00 | 87.55 | 162.54 | 6,675.40 | -4,488.49 | 1,950.37 | 4,893.65 | 0.69 | 0.00 | -0.69 | |
| 11,020.00 | 86.98 | 161.42 | 6,678.40 | -4,548.33 | 1,969.83 | 4,956.35 | 1.99 | -0.90 | -1.78 | |
| 11,084.00 | 87.79 | 161.44 | 6,681.32 | -4,608.94 | 1,990.19 | 5,020.11 | 1.27 | 1.27 | 0.03 | |
| 11,147.00 | 88.12 | 159.48 | 6,683.57 | -4,668.27 | 2,011.25 | 5,082.96 | 3.15 | 0.52 | -3.11 | |
| 11,211.00 | 88.05 | 157.71 | 6,685.71 | -4,727.82 | 2,034.59 | 5,146.90 | 2.77 | -0.11 | -2.77 | |
| 11,274.00 | 89.46 | 157.61 | 6,687.08 | -4,786.07 | 2,058.53 | 5,209.88 | 2.24 | 2.24 | -0.16 | |
| 11,338.00 | 90.20 | 158.03 | 6,687.27 | -4,845.34 | 2,082.69 | 5,273.87 | 1.33 | 1.16 | 0.16 | |
| 11,402.00 | 89.90 | 158.20 | 6,687.21 | -4,904.72 | 2,106.55 | 5,337.86 | 0.54 | -0.47 | 0.16 | |
| 11,465.00 | 89.43 | 158.60 | 6,687.58 | -4,963.30 | 2,129.74 | 5,400.84 | 0.98 | -0.75 | 0.63 | |
| 11,529.00 | 89.13 | 158.91 | 6,688.39 | -5,022.94 | 2,152.93 | 5,464.81 | 0.67 | -0.47 | 0.48 | |
| 11,593.00 | 88.63 | 159.01 | 6,689.64 | -5,082.67 | 2,175.90 | 5,528.77 | 0.80 | -0.78 | 0.16 | |
| 11,656.00 | 88.99 | 157.89 | 6,690.95 | -5,141.25 | 2,199.04 | 5,591.73 | 1.87 | 0.57 | -1.78 | |

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| Project: | Mary Prospect | TVD Reference: | GL 1212' & KB 18' @ 1230.00ft (Saxon 141) |
| Site: | Erlewine Pad | MD Reference: | GL 1212' & KB 18' @ 1230.00ft (Saxon 141) |
| Well: | Erlewine 8H | North Reference: | Grid |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | 8H As Drilled | Database: | Northeast District |

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|---------------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|
| Last SDI MWD Survey @ 11656 MD | | | | | | | | | |
| 11,729.00 | 88.99 | 157.89 | 6,692.23 | -5,208.87 | 2,226.51 | 5,664.72 | 0.00 | 0.00 | 0.00 |
| Projection to Bit @ 11729 MD | | | | | | | | | |

| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates | | Comment |
|---------------------|---------------------|-------------------|------------|--------------------------------|
| | | +N/-S (ft) | +E/-W (ft) | |
| 18.00 | 18.00 | 0.00 | 0.00 | Ground Level |
| 108.00 | 108.00 | 0.12 | 0.18 | First VES Gyro @ 108 MD |
| 2,392.00 | 2,391.95 | 10.76 | 6.67 | Last VES Gyro @ 2392 MD |
| 2,497.00 | 2,496.95 | 11.13 | 6.29 | First SDI MWD Survey @ 2497 MD |
| 11,656.00 | 6,690.95 | -5,141.25 | 2,199.04 | Last SDI MWD Survey @ 11656 MD |
| 11,729.00 | 6,692.23 | -5,208.87 | 2,226.51 | Projection to Bit @ 11729 MD |

Checked By: _____ Approved By: _____ Date: _____

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