



Stone Energy Corporation

Mary Prospect
Erlewine Pad
Erlewine 5H - Slot 5H

OH

Design: 5H As Drilled

Standard Survey Report

13 January, 2015



www.scientificdrilling.com

06/02/2017



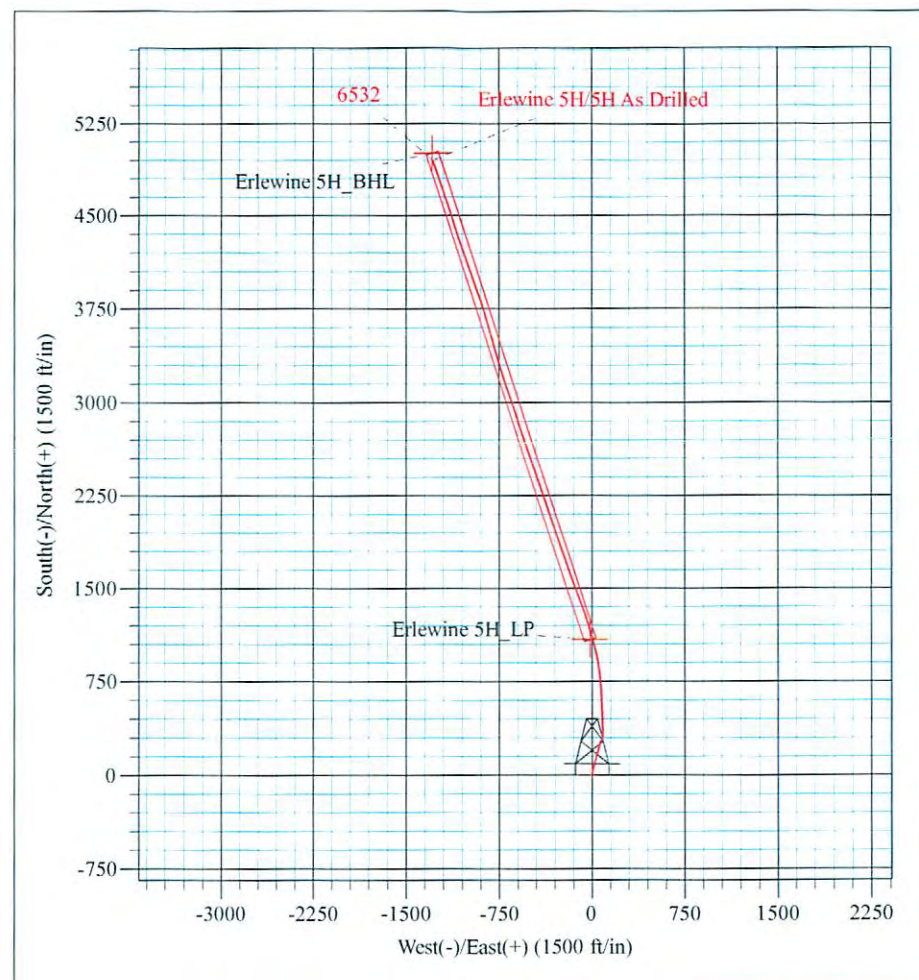
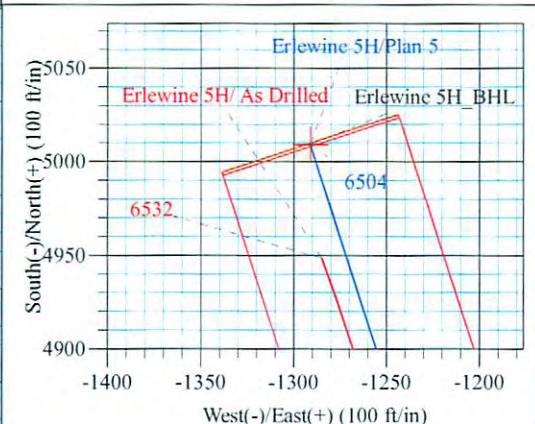
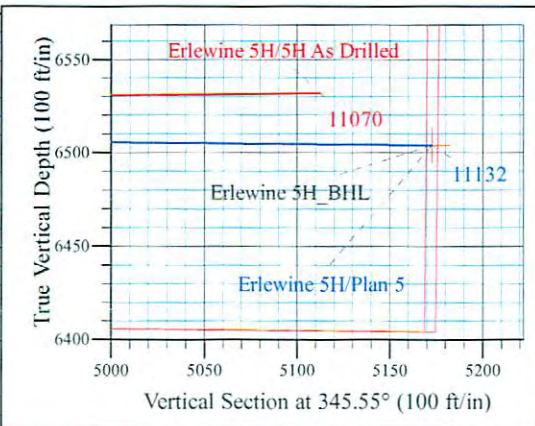
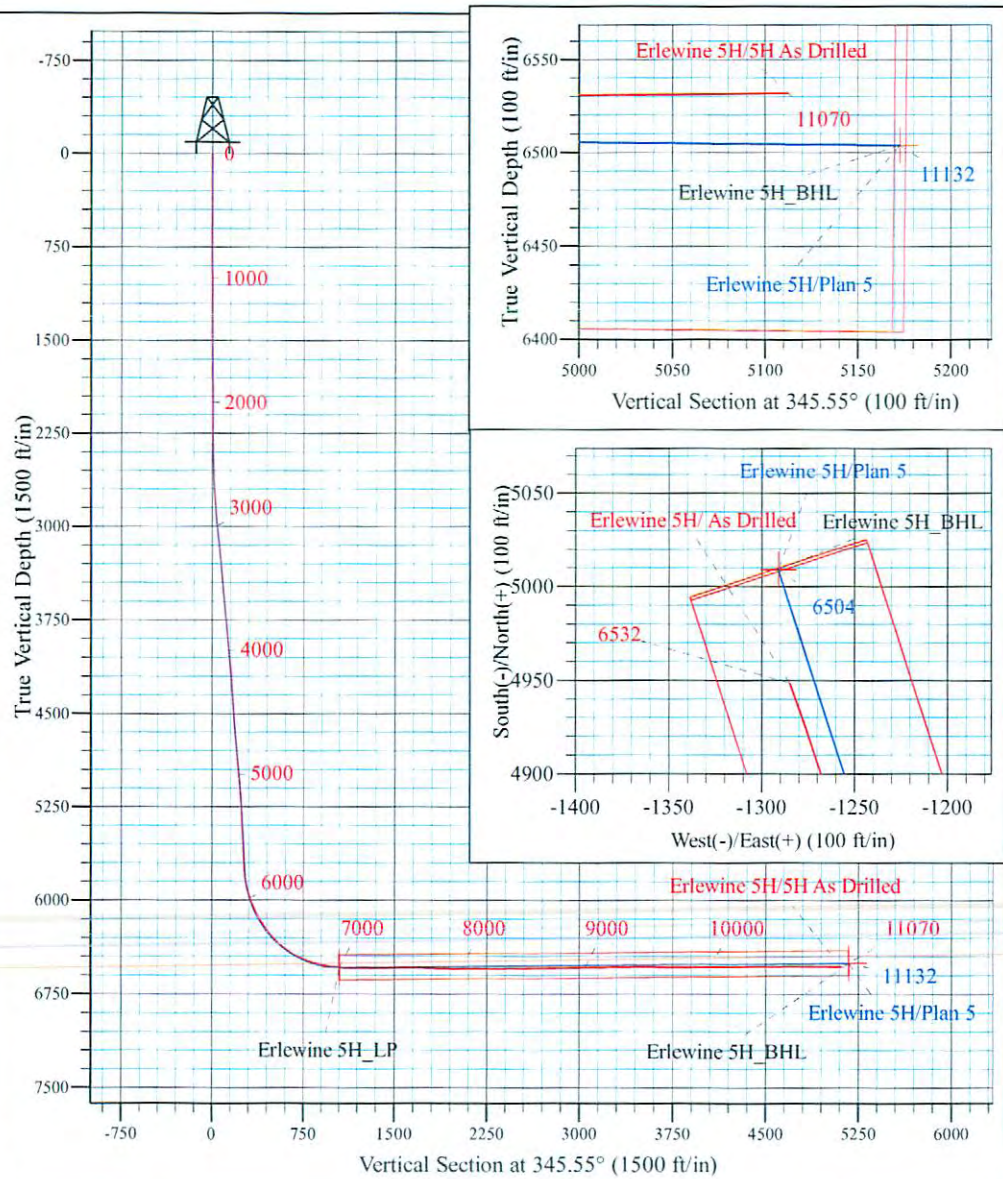
Erlewine Pad
 Erlewine 5H
 Plan 5
 GL 1212' & KB 18' @ 1230.00ft (Saxon 141)
 Mary Prospect

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



WELL DETAILS: Erlewine 5H

| +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
|-------|-------|-----------|------------|-----------------|------------------|
| 0.00 | 0.00 | 433710.00 | 1634896.00 | 39° 41' 0.763 N | 80° 47' 50.292 W |



Azimuths to Grid North
 True North: 0.83°
 Magnetic North: -6.80°
 Magnetic Field
 Strength: 52522.0snT
 Dip Angle: 67.14°
 Date: 11/18/2014
 Model: USER DEFINED

Shane Rhodes
 8:19, January 13 2015
 Scientific Drilling International
 124 Vista Drive
 Charleroi, PA 15022



| | | | |
|------------------|--------------------------|-------------------------------------|---|
| Company: | Stone Energy Corporation | Local Co-ordinate Reference: | Well Erlewine 5H - Slot 5H |
| 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 5H | North Reference: | Grid |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | 5H 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 5H - Slot 5H | | | | | |
| Well Position | +N/-S | 0.00 ft | Northing: | 433,710.00 usft | Latitude: | 39° 41' 0.763 N |
| | +E/-W | 0.00 ft | Easting: | 1,634,896.00 usft | Longitude: | 80° 47' 50.292 W |
| Position Uncertainty | | 2.00 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 | 52,581 |
| | User Defined | 7/10/2014 | -7.61 | 67.17 | 52,572 |
| | User Defined | 8/12/2014 | -7.62 | 67.16 | 52,559 |
| | User Defined | 11/18/2014 | -7.63 | 67.14 | 52,522 |

| | | | | | |
|--------------------------|------------------------------|-------------------|-------------------|----------------------|-------|
| Design | 5H 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 | | 13.41 |

| | | | | | |
|-----------------------|----------------|-----------------------------|------------------|--------------------------|--|
| Survey Program | Date | 1/13/2015 | | | |
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description | |
| 18.00 | 2,388.00 | Survey 1 - Vaughn Gyro (OH) | VES GyroFlex | | |
| 2,432.00 | 11,070.00 | 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 @ 10.00 MD | | | | | | | | | | |
| 108.00 | 0.36 | 190.13 | 108.00 | -0.28 | -0.05 | -0.28 | 0.40 | 0.40 | 0.00 | |
| First Vaughn Gyro Survey @ 100.00 MD | | | | | | | | | | |
| 208.00 | 0.21 | 245.80 | 208.00 | -0.66 | -0.27 | -0.71 | 0.30 | -0.15 | 55.67 | |
| 308.00 | 0.21 | 211.57 | 308.00 | -0.89 | -0.54 | -0.99 | 0.12 | 0.00 | -34.23 | |



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 5H | North Reference: | Grid |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | 5H 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 | 0.21 | 200.75 | 408.00 | -1.22 | -0.70 | -1.35 | 0.04 | 0.00 | -10.82 |
| 508.00 | 0.10 | 119.91 | 508.00 | -1.44 | -0.69 | -1.56 | 0.22 | -0.11 | -80.84 |
| 608.00 | 0.49 | 70.02 | 608.00 | -1.33 | -0.21 | -1.35 | 0.43 | 0.39 | -49.89 |
| 708.00 | 0.60 | 43.20 | 707.99 | -0.81 | 0.55 | -0.66 | 0.27 | 0.11 | -26.82 |
| 808.00 | 0.38 | 77.49 | 807.99 | -0.35 | 1.23 | -0.06 | 0.36 | -0.22 | 34.29 |
| 908.00 | 0.44 | 42.70 | 907.98 | 0.00 | 1.82 | 0.42 | 0.25 | 0.06 | -34.79 |
| 1,008.00 | 0.36 | 48.35 | 1,007.98 | 0.49 | 2.31 | 1.02 | 0.09 | -0.08 | 5.65 |
| 1,108.00 | 0.50 | 54.83 | 1,107.98 | 0.95 | 2.91 | 1.60 | 0.15 | 0.14 | 6.48 |
| 1,208.00 | 0.66 | 32.46 | 1,207.97 | 1.69 | 3.57 | 2.47 | 0.27 | 0.16 | -22.37 |
| 1,308.00 | 0.49 | 15.26 | 1,307.97 | 2.59 | 3.99 | 3.44 | 0.24 | -0.17 | -17.20 |
| 1,408.00 | 0.24 | 350.21 | 1,407.97 | 3.21 | 4.07 | 4.06 | 0.29 | -0.25 | -25.05 |
| 1,508.00 | 0.31 | 9.30 | 1,507.97 | 3.68 | 4.08 | 4.53 | 0.11 | 0.07 | 19.09 |
| 1,608.00 | 0.29 | 2.44 | 1,607.97 | 4.20 | 4.13 | 5.04 | 0.04 | -0.02 | -6.86 |
| 1,708.00 | 0.31 | 318.66 | 1,707.96 | 4.66 | 3.96 | 5.45 | 0.22 | 0.02 | -43.78 |
| 1,808.00 | 0.40 | 312.52 | 1,807.96 | 5.10 | 3.53 | 5.77 | 0.10 | 0.09 | -6.14 |
| 1,908.00 | 0.26 | 317.80 | 1,907.96 | 5.50 | 3.12 | 6.07 | 0.14 | -0.14 | 5.28 |
| 2,008.00 | 0.38 | 332.96 | 2,007.96 | 5.96 | 2.82 | 6.45 | 0.15 | 0.12 | 15.16 |
| 2,108.00 | 0.24 | 309.67 | 2,107.96 | 6.39 | 2.50 | 6.80 | 0.19 | -0.14 | -23.29 |
| 2,208.00 | 0.15 | 340.48 | 2,207.96 | 6.65 | 2.30 | 7.00 | 0.14 | -0.09 | 30.81 |
| 2,308.00 | 0.55 | 324.69 | 2,307.95 | 7.16 | 1.98 | 7.43 | 0.41 | 0.40 | -15.79 |
| 2,388.00 | 0.58 | 341.28 | 2,387.95 | 7.86 | 1.63 | 8.02 | 0.21 | 0.04 | 20.74 |
| Last Vaughn Gyro Survey @ 2380.00 MD | | | | | | | | | |
| 2,432.00 | 0.50 | 342.73 | 2,431.95 | 8.26 | 1.50 | 8.38 | 0.18 | -0.18 | 3.30 |
| First SDI MWD Survey @ 2424.00 MD | | | | | | | | | |
| 2,527.00 | 1.67 | 346.61 | 2,526.93 | 10.00 | 1.05 | 9.97 | 1.23 | 1.23 | 4.08 |
| 2,621.00 | 2.79 | 357.10 | 2,620.86 | 13.62 | 0.62 | 13.39 | 1.26 | 1.19 | 11.16 |
| 2,715.00 | 3.79 | 13.54 | 2,714.70 | 18.92 | 1.23 | 18.69 | 1.45 | 1.06 | 17.49 |
| 2,809.00 | 4.70 | 18.99 | 2,808.45 | 25.58 | 3.21 | 25.63 | 1.06 | 0.97 | 5.80 |
| 2,903.00 | 5.96 | 17.00 | 2,902.04 | 33.89 | 5.89 | 34.33 | 1.35 | 1.34 | -2.12 |
| 2,997.00 | 6.87 | 14.70 | 2,995.45 | 44.00 | 8.75 | 44.83 | 1.01 | 0.97 | -2.45 |
| 3,091.00 | 7.02 | 10.02 | 3,088.76 | 55.09 | 11.17 | 56.18 | 0.62 | 0.16 | -4.98 |
| 3,185.00 | 6.56 | 10.25 | 3,182.10 | 66.03 | 13.13 | 67.28 | 0.49 | -0.49 | 0.24 |
| 3,279.00 | 6.37 | 17.34 | 3,275.50 | 76.29 | 15.64 | 77.84 | 0.87 | -0.20 | 7.54 |
| 3,373.00 | 6.33 | 17.90 | 3,368.93 | 86.20 | 18.78 | 88.21 | 0.08 | -0.04 | 0.60 |
| 3,467.00 | 5.97 | 12.33 | 3,462.39 | 95.91 | 21.42 | 98.26 | 0.74 | -0.38 | -5.93 |
| 3,562.00 | 6.12 | 10.21 | 3,556.86 | 105.72 | 23.37 | 108.26 | 0.28 | 0.16 | -2.23 |
| 3,656.00 | 6.18 | 17.18 | 3,650.32 | 115.48 | 25.76 | 118.31 | 0.80 | 0.06 | 7.41 |
| 3,750.00 | 6.03 | 20.35 | 3,743.79 | 124.95 | 28.97 | 128.26 | 0.39 | -0.16 | 3.37 |
| 3,846.00 | 5.95 | 15.55 | 3,839.26 | 134.47 | 32.05 | 138.24 | 0.53 | -0.08 | -5.00 |
| 3,940.00 | 6.02 | 10.06 | 3,932.75 | 144.02 | 34.22 | 148.03 | 0.61 | 0.07 | -5.84 |
| 4,034.00 | 6.17 | 17.15 | 4,026.22 | 153.70 | 36.57 | 157.99 | 0.82 | 0.16 | 7.54 |
| 4,128.00 | 6.06 | 17.73 | 4,119.69 | 163.25 | 39.57 | 167.98 | 0.13 | -0.12 | 0.62 |
| 4,222.00 | 5.30 | 17.23 | 4,213.22 | 172.12 | 42.37 | 177.26 | 0.81 | -0.81 | -0.53 |



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| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | 5H 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) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|
| 4,316.00 | 4.41 | 15.26 | 4,306.88 | 179.76 | 44.61 | 185.20 | 0.96 | -0.95 | -2.10 |
| 4,410.00 | 4.00 | 12.26 | 4,400.63 | 186.45 | 46.25 | 192.09 | 0.49 | -0.44 | -3.19 |
| 4,504.00 | 4.98 | 13.85 | 4,494.34 | 193.61 | 47.93 | 199.45 | 1.05 | 1.04 | 1.69 |
| 4,598.00 | 5.81 | 16.65 | 4,587.93 | 202.13 | 50.27 | 208.28 | 0.93 | 0.88 | 2.98 |
| 4,692.00 | 6.13 | 11.96 | 4,681.42 | 211.60 | 52.67 | 218.05 | 0.62 | 0.34 | -4.99 |
| 4,787.00 | 5.98 | 16.12 | 4,775.89 | 221.32 | 55.10 | 228.06 | 0.49 | -0.16 | 4.38 |
| 4,881.00 | 6.02 | 16.74 | 4,869.37 | 230.74 | 57.88 | 237.87 | 0.08 | 0.04 | 0.66 |
| 4,975.00 | 6.29 | 11.01 | 4,962.83 | 240.51 | 60.28 | 247.94 | 0.71 | 0.29 | -6.10 |
| 5,069.00 | 5.77 | 18.26 | 5,056.31 | 250.06 | 62.74 | 257.79 | 0.98 | -0.55 | 7.71 |
| 5,163.00 | 6.06 | 25.22 | 5,149.81 | 259.03 | 66.34 | 267.36 | 0.82 | 0.31 | 7.40 |
| 5,259.00 | 5.00 | 24.49 | 5,245.36 | 267.42 | 70.23 | 276.42 | 1.11 | -1.10 | -0.76 |
| 5,353.00 | 3.99 | 29.93 | 5,339.07 | 273.99 | 73.56 | 283.58 | 1.17 | -1.07 | 5.79 |
| 5,447.00 | 3.63 | 28.81 | 5,432.87 | 279.43 | 76.63 | 289.58 | 0.39 | -0.38 | -1.19 |
| 5,541.00 | 3.67 | 26.78 | 5,526.68 | 284.72 | 79.42 | 295.38 | 0.14 | 0.04 | -2.16 |
| 5,635.00 | 3.98 | 25.08 | 5,620.47 | 290.36 | 82.15 | 301.50 | 0.35 | 0.33 | -1.81 |
| 5,729.00 | 4.21 | 12.72 | 5,714.23 | 296.68 | 84.30 | 308.14 | 0.97 | 0.24 | -13.15 |
| 5,760.00 | 4.46 | 15.39 | 5,745.14 | 298.95 | 84.87 | 310.49 | 1.04 | 0.81 | 8.61 |
| 5,790.00 | 4.50 | 11.00 | 5,775.05 | 301.23 | 85.40 | 312.83 | 1.15 | 0.13 | -14.63 |
| 5,820.00 | 6.03 | 9.19 | 5,804.92 | 303.95 | 85.88 | 315.57 | 5.13 | 5.10 | -6.03 |
| 5,851.00 | 8.64 | 4.63 | 5,835.66 | 307.87 | 86.33 | 319.50 | 8.62 | 8.42 | -14.71 |
| 5,881.00 | 11.59 | 3.07 | 5,865.19 | 313.13 | 86.67 | 324.69 | 9.87 | 9.83 | -5.20 |
| 5,913.00 | 13.94 | 1.54 | 5,896.40 | 320.19 | 86.94 | 331.63 | 7.42 | 7.34 | -4.78 |
| 5,945.00 | 16.15 | 0.07 | 5,927.30 | 328.50 | 87.05 | 339.73 | 7.01 | 6.91 | -4.59 |
| 5,977.00 | 18.25 | 358.19 | 5,957.87 | 337.96 | 86.90 | 348.90 | 6.79 | 6.56 | -5.88 |
| 6,008.00 | 19.45 | 357.08 | 5,987.21 | 347.97 | 86.46 | 358.54 | 4.04 | 3.87 | -3.58 |
| 6,039.00 | 21.74 | 356.80 | 6,016.22 | 358.85 | 85.90 | 368.99 | 7.39 | 7.39 | -0.90 |
| 6,071.00 | 24.09 | 356.76 | 6,045.70 | 371.29 | 85.20 | 380.93 | 7.34 | 7.34 | -0.13 |
| 6,103.00 | 26.23 | 357.42 | 6,074.66 | 384.88 | 84.51 | 393.99 | 6.74 | 6.69 | 2.06 |
| 6,135.00 | 27.69 | 357.84 | 6,103.18 | 399.37 | 83.92 | 407.95 | 4.60 | 4.56 | 1.31 |
| 6,167.00 | 29.55 | 358.80 | 6,131.27 | 414.69 | 83.47 | 422.75 | 5.99 | 5.81 | 3.00 |
| 6,198.00 | 32.06 | 358.60 | 6,157.89 | 430.56 | 83.11 | 438.10 | 8.10 | 8.10 | -0.65 |
| 6,229.00 | 33.84 | 358.64 | 6,183.91 | 447.42 | 82.70 | 454.40 | 5.74 | 5.74 | 0.13 |
| 6,261.00 | 35.90 | 359.18 | 6,210.16 | 465.71 | 82.36 | 472.11 | 6.51 | 6.44 | 1.69 |
| 6,293.00 | 37.60 | 359.12 | 6,235.80 | 484.85 | 82.07 | 490.67 | 5.31 | 5.31 | -0.19 |
| 6,325.00 | 39.33 | 358.37 | 6,260.85 | 504.75 | 81.63 | 509.93 | 5.60 | 5.41 | -2.34 |
| 6,357.00 | 41.81 | 357.40 | 6,285.16 | 525.55 | 80.86 | 529.98 | 8.00 | 7.75 | -3.03 |
| 6,389.00 | 44.95 | 356.47 | 6,308.41 | 547.49 | 79.68 | 551.05 | 10.01 | 9.81 | -2.91 |
| 6,421.00 | 47.32 | 357.11 | 6,330.59 | 570.53 | 78.39 | 573.15 | 7.55 | 7.41 | 2.00 |
| 6,452.00 | 49.69 | 357.08 | 6,351.13 | 593.71 | 77.22 | 595.44 | 7.65 | 7.65 | -0.10 |
| 6,484.00 | 52.06 | 358.07 | 6,371.32 | 618.51 | 76.17 | 619.32 | 7.79 | 7.41 | 3.09 |
| 6,516.00 | 53.23 | 358.09 | 6,390.73 | 643.94 | 75.32 | 643.85 | 3.66 | 3.66 | 0.06 |
| 6,548.00 | 54.29 | 357.37 | 6,409.65 | 669.72 | 74.29 | 668.70 | 3.78 | 3.31 | -2.25 |
| 6,580.00 | 57.01 | 356.59 | 6,427.70 | 696.10 | 72.90 | 694.04 | 8.73 | 8.50 | -2.44 |
| 6,612.00 | 61.56 | 354.89 | 6,444.05 | 723.53 | 70.85 | 720.24 | 14.93 | 14.22 | -5.31 |



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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 5H | North Reference: | Grid |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | 5H 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) |
| 6,643.00 | 64.84 | 354.41 | 6,458.02 | 751.08 | 68.26 | 746.43 | 10.67 | 10.58 | -1.55 |
| 6,675.00 | 67.57 | 354.37 | 6,470.93 | 780.21 | 65.40 | 774.11 | 8.53 | 8.53 | -0.13 |
| 6,707.00 | 69.48 | 354.39 | 6,482.65 | 809.85 | 62.49 | 802.26 | 5.97 | 5.97 | 0.06 |
| 6,738.00 | 71.61 | 353.33 | 6,492.97 | 838.91 | 59.36 | 829.81 | 7.59 | 6.87 | -3.42 |
| 6,768.00 | 73.96 | 352.35 | 6,501.85 | 867.34 | 55.79 | 856.63 | 8.43 | 7.83 | -3.27 |
| 6,801.00 | 75.59 | 349.98 | 6,510.52 | 898.80 | 50.89 | 886.10 | 8.51 | 4.94 | -7.18 |
| 6,832.00 | 77.45 | 348.48 | 6,517.74 | 928.41 | 45.26 | 913.60 | 7.62 | 6.00 | -4.84 |
| 6,864.00 | 79.47 | 347.17 | 6,524.14 | 959.05 | 38.65 | 941.88 | 7.48 | 6.31 | -4.09 |
| 6,895.00 | 81.41 | 346.63 | 6,529.29 | 988.83 | 31.72 | 969.23 | 6.49 | 6.26 | -1.74 |
| 6,927.00 | 83.59 | 346.64 | 6,533.47 | 1,019.69 | 24.38 | 997.55 | 6.81 | 6.81 | 0.03 |
| 6,958.00 | 85.23 | 345.71 | 6,536.49 | 1,049.65 | 17.01 | 1,024.98 | 6.07 | 5.29 | -3.00 |
| 6,990.00 | 86.37 | 344.06 | 6,538.83 | 1,080.46 | 8.69 | 1,053.02 | 6.26 | 3.56 | -5.16 |
| 7,022.00 | 86.78 | 343.83 | 6,540.74 | 1,111.15 | -0.14 | 1,080.83 | 1.47 | 1.28 | -0.72 |
| 7,086.00 | 90.40 | 342.73 | 6,542.32 | 1,172.42 | -18.55 | 1,136.16 | 5.91 | 5.66 | -1.72 |
| 7,149.00 | 90.44 | 342.97 | 6,541.86 | 1,232.62 | -37.12 | 1,190.41 | 0.39 | 0.06 | 0.38 |
| 7,213.00 | 89.66 | 341.03 | 6,541.80 | 1,293.48 | -56.90 | 1,245.03 | 3.27 | -1.22 | -3.03 |
| 7,277.00 | 90.03 | 339.85 | 6,541.97 | 1,353.79 | -78.33 | 1,298.72 | 1.93 | 0.58 | -1.84 |
| 7,340.00 | 89.46 | 338.93 | 6,542.25 | 1,412.75 | -100.50 | 1,350.94 | 1.72 | -0.90 | -1.46 |
| 7,404.00 | 89.50 | 339.37 | 6,542.83 | 1,472.56 | -123.28 | 1,403.83 | 0.69 | 0.06 | 0.69 |
| 7,467.00 | 90.47 | 339.44 | 6,542.85 | 1,531.53 | -145.44 | 1,456.06 | 1.54 | 1.54 | 0.11 |
| 7,531.00 | 89.87 | 340.34 | 6,542.66 | 1,591.63 | -167.45 | 1,509.42 | 1.69 | -0.94 | 1.41 |
| 7,595.00 | 89.87 | 341.36 | 6,542.81 | 1,652.09 | -188.44 | 1,563.36 | 1.59 | 0.00 | 1.59 |
| 7,658.00 | 89.46 | 341.22 | 6,543.17 | 1,711.76 | -208.65 | 1,616.72 | 0.69 | -0.65 | -0.22 |
| 7,722.00 | 89.30 | 341.52 | 6,543.87 | 1,772.40 | -229.09 | 1,670.97 | 0.53 | -0.25 | 0.47 |
| 7,783.00 | 88.76 | 340.93 | 6,544.90 | 1,830.14 | -248.72 | 1,722.59 | 1.31 | -0.89 | -0.97 |
| 7,846.00 | 88.25 | 340.75 | 6,546.54 | 1,889.63 | -269.39 | 1,775.66 | 0.86 | -0.81 | -0.29 |
| 7,909.00 | 88.86 | 341.70 | 6,548.13 | 1,949.26 | -289.66 | 1,828.96 | 1.79 | 0.97 | 1.51 |
| 7,973.00 | 89.36 | 341.71 | 6,549.13 | 2,010.02 | -309.75 | 1,883.41 | 0.78 | 0.78 | 0.02 |
| 8,037.00 | 89.93 | 342.18 | 6,549.52 | 2,070.87 | -329.59 | 1,938.00 | 1.15 | 0.89 | 0.73 |
| 8,100.00 | 88.99 | 341.55 | 6,550.12 | 2,130.73 | -349.19 | 1,991.68 | 1.80 | -1.49 | -1.00 |
| 8,163.00 | 89.03 | 341.42 | 6,551.21 | 2,190.46 | -369.20 | 2,045.15 | 0.22 | 0.06 | -0.21 |
| 8,226.00 | 89.66 | 341.11 | 6,551.93 | 2,250.12 | -389.43 | 2,098.49 | 1.11 | 1.00 | -0.49 |
| 8,289.00 | 90.27 | 341.45 | 6,551.96 | 2,309.79 | -409.65 | 2,151.84 | 1.11 | 0.97 | 0.54 |
| 8,353.00 | 90.57 | 341.38 | 6,551.49 | 2,370.45 | -430.05 | 2,206.12 | 0.48 | 0.47 | -0.11 |
| 8,416.00 | 90.87 | 340.70 | 6,550.70 | 2,430.02 | -450.51 | 2,259.32 | 1.18 | 0.48 | -1.08 |
| 8,480.00 | 90.94 | 338.97 | 6,549.69 | 2,490.09 | -472.57 | 2,312.64 | 2.71 | 0.11 | -2.70 |
| 8,543.00 | 91.71 | 341.08 | 6,548.24 | 2,549.28 | -494.09 | 2,365.23 | 3.56 | 1.22 | 3.35 |
| 8,607.00 | 90.97 | 341.70 | 6,546.74 | 2,609.92 | -514.50 | 2,419.48 | 1.51 | -1.16 | 0.97 |
| 8,671.00 | 90.54 | 341.25 | 6,545.90 | 2,670.60 | -534.84 | 2,473.79 | 0.97 | -0.67 | -0.70 |
| 8,734.00 | 91.31 | 341.29 | 6,544.88 | 2,730.25 | -555.06 | 2,527.13 | 1.22 | 1.22 | 0.06 |
| 8,798.00 | 91.14 | 341.17 | 6,543.51 | 2,790.83 | -575.65 | 2,581.28 | 0.33 | -0.27 | -0.19 |
| 8,861.00 | 90.90 | 342.18 | 6,542.39 | 2,850.63 | -595.46 | 2,634.86 | 1.65 | -0.38 | 1.60 |
| 8,925.00 | 90.34 | 341.69 | 6,541.70 | 2,911.47 | -615.30 | 2,689.44 | 1.16 | -0.88 | -0.77 |



Scientific Drilling International
Survey Report



| | | | |
|------------------|--------------------------|-------------------------------------|---|
| Company: | Stone Energy Corporation | Local Co-ordinate Reference: | Well Erlewine 5H - Slot 5H |
| 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 5H | North Reference: | Grid |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | 5H 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) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|
| 8,989.00 | 90.17 | 340.70 | 6,541.41 | 2,972.05 | -635.93 | 2,743.58 | 1.57 | -0.27 | -1.55 |
| 9,053.00 | 91.07 | 340.98 | 6,540.72 | 3,032.50 | -656.94 | 2,797.52 | 1.47 | 1.41 | 0.44 |
| 9,116.00 | 91.07 | 340.81 | 6,539.54 | 3,092.02 | -677.55 | 2,850.63 | 0.27 | 0.00 | -0.27 |
| 9,180.00 | 90.94 | 340.88 | 6,538.42 | 3,152.47 | -698.55 | 2,904.56 | 0.23 | -0.20 | 0.11 |
| 9,244.00 | 90.94 | 341.96 | 6,537.37 | 3,213.13 | -718.94 | 2,958.84 | 1.69 | 0.00 | 1.69 |
| 9,307.00 | 90.37 | 343.26 | 6,536.65 | 3,273.24 | -737.76 | 3,012.95 | 2.25 | -0.90 | 2.06 |
| 9,371.00 | 90.23 | 344.58 | 6,536.31 | 3,334.73 | -755.49 | 3,068.66 | 2.07 | -0.22 | 2.06 |
| 9,435.00 | 90.74 | 344.22 | 6,535.77 | 3,396.37 | -772.70 | 3,124.63 | 0.98 | 0.80 | -0.56 |
| 9,499.00 | 90.54 | 343.41 | 6,535.06 | 3,457.83 | -790.54 | 3,180.27 | 1.30 | -0.31 | -1.27 |
| 9,562.00 | 88.72 | 343.90 | 6,535.46 | 3,518.28 | -808.27 | 3,234.96 | 2.99 | -2.89 | 0.78 |
| 9,626.00 | 88.96 | 343.86 | 6,536.76 | 3,579.75 | -826.03 | 3,290.64 | 0.38 | 0.38 | -0.06 |
| 9,690.00 | 89.73 | 343.69 | 6,537.49 | 3,641.20 | -843.91 | 3,346.27 | 1.23 | 1.20 | -0.27 |
| 9,754.00 | 90.34 | 343.27 | 6,537.45 | 3,702.56 | -862.11 | 3,401.73 | 1.16 | 0.95 | -0.66 |
| 9,817.00 | 90.64 | 341.93 | 6,536.91 | 3,762.67 | -880.95 | 3,455.84 | 2.18 | 0.48 | -2.13 |
| 9,881.00 | 90.34 | 340.38 | 6,536.37 | 3,823.24 | -901.62 | 3,509.96 | 2.47 | -0.47 | -2.42 |
| 9,945.00 | 90.91 | 339.55 | 6,535.67 | 3,883.36 | -923.55 | 3,563.36 | 1.57 | 0.89 | -1.30 |
| 10,009.00 | 90.07 | 340.41 | 6,535.12 | 3,943.49 | -945.46 | 3,616.77 | 1.88 | -1.31 | 1.34 |
| 10,072.00 | 89.93 | 341.05 | 6,535.12 | 4,002.96 | -966.25 | 3,669.80 | 1.04 | -0.22 | 1.02 |
| 10,136.00 | 90.17 | 339.72 | 6,535.06 | 4,063.24 | -987.73 | 3,723.46 | 2.11 | 0.38 | -2.08 |
| 10,199.00 | 89.80 | 339.97 | 6,535.08 | 4,122.39 | -1,009.44 | 3,775.95 | 0.71 | -0.59 | 0.40 |
| 10,263.00 | 89.30 | 339.90 | 6,535.58 | 4,182.50 | -1,031.40 | 3,829.34 | 0.79 | -0.78 | -0.11 |
| 10,327.00 | 90.24 | 341.10 | 6,535.84 | 4,242.83 | -1,052.76 | 3,883.07 | 2.38 | 1.47 | 1.88 |
| 10,390.00 | 90.94 | 342.29 | 6,535.19 | 4,302.63 | -1,072.54 | 3,936.66 | 2.19 | 1.11 | 1.89 |
| 10,454.00 | 90.00 | 342.37 | 6,534.67 | 4,363.61 | -1,091.97 | 3,991.47 | 1.47 | -1.47 | 0.13 |
| 10,517.00 | 90.10 | 341.97 | 6,534.61 | 4,423.59 | -1,111.26 | 4,045.33 | 0.65 | 0.16 | -0.63 |
| 10,581.00 | 91.28 | 341.50 | 6,533.84 | 4,484.36 | -1,131.32 | 4,099.80 | 1.98 | 1.84 | -0.73 |
| 10,645.00 | 91.78 | 341.16 | 6,532.13 | 4,544.97 | -1,151.80 | 4,154.01 | 0.94 | 0.78 | -0.53 |
| 10,708.00 | 90.10 | 342.02 | 6,531.10 | 4,604.73 | -1,171.69 | 4,207.53 | 3.00 | -2.67 | 1.37 |
| 10,771.00 | 89.66 | 342.67 | 6,531.23 | 4,664.76 | -1,190.79 | 4,261.49 | 1.25 | -0.70 | 1.03 |
| 10,835.00 | 90.74 | 341.88 | 6,531.01 | 4,725.72 | -1,210.28 | 4,316.27 | 2.09 | 1.69 | -1.23 |
| 10,898.00 | 90.17 | 341.73 | 6,530.51 | 4,785.57 | -1,229.95 | 4,369.93 | 0.94 | -0.90 | -0.24 |
| 10,962.00 | 89.06 | 341.57 | 6,530.94 | 4,846.31 | -1,250.10 | 4,424.35 | 1.75 | -1.73 | -0.25 |
| 11,023.00 | 89.70 | 341.57 | 6,531.60 | 4,904.18 | -1,269.38 | 4,476.16 | 1.05 | 1.05 | 0.00 |
| 11,070.00 | 89.93 | 340.04 | 6,531.75 | 4,948.57 | -1,284.83 | 4,515.76 | 3.29 | 0.49 | -3.26 |

Last SDI MWD Survey @ 11070 MD