



Stone Energy Corporation

Heather Prospect (NAD 27)

Martin Pad

Martin 1H - Slot 1H

OH

Design: As Drilled

Standard Survey Report

02 October, 2014

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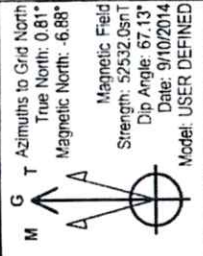
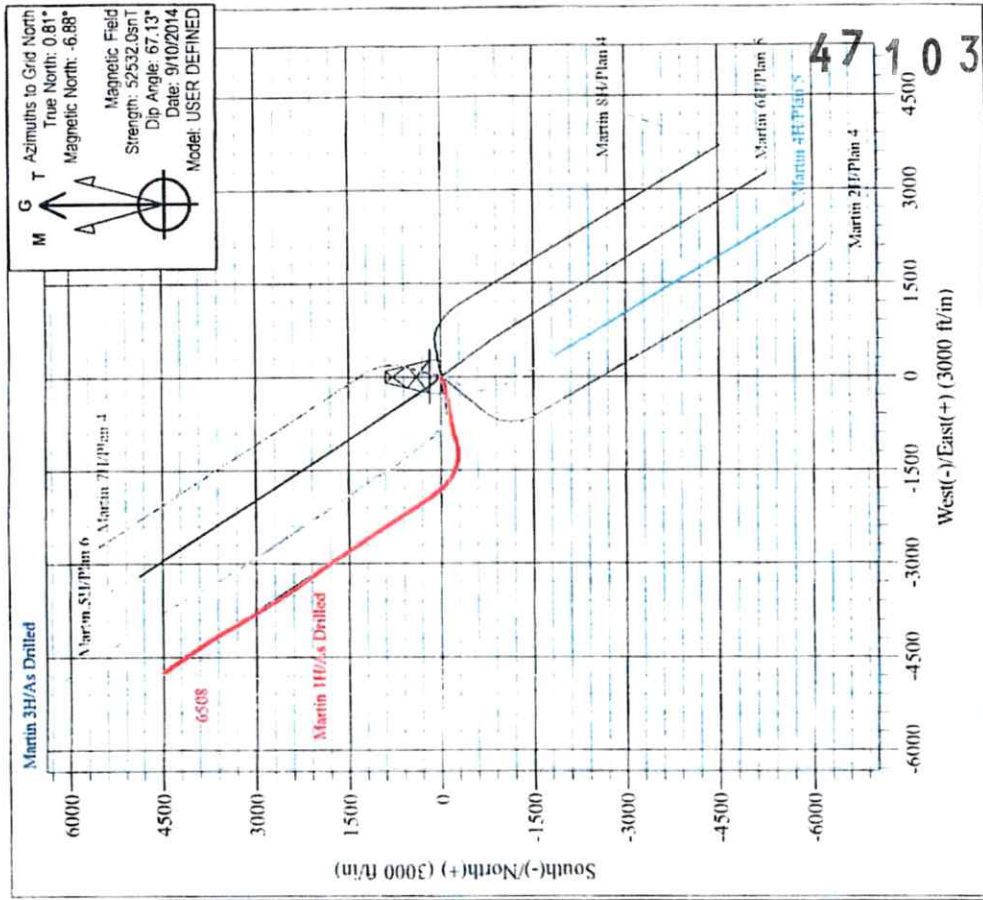
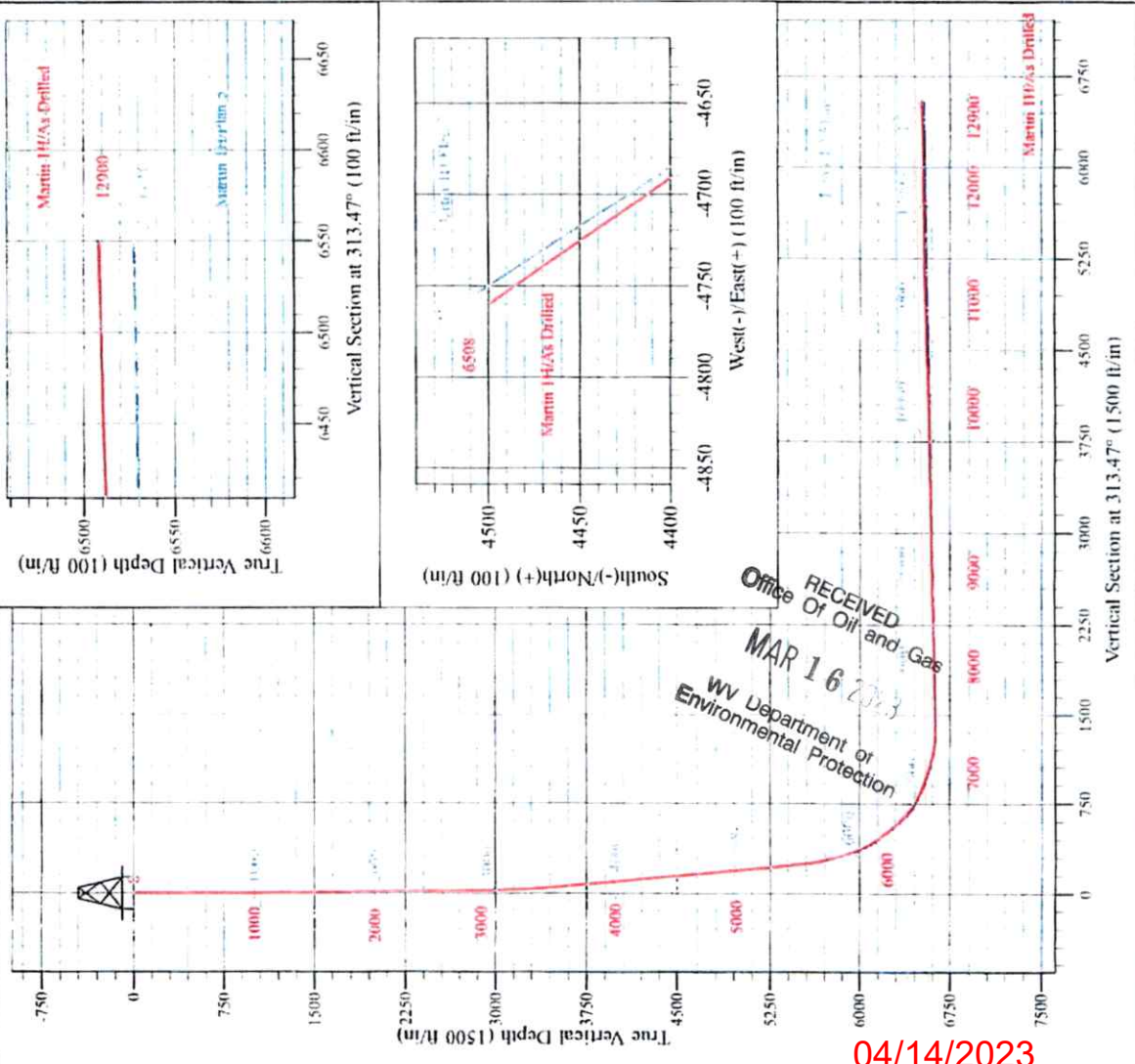
Martin Pad
 Martin III
 As Drilled
 GI 906' & KB 18' @ 924.00ft (Saxon 141)
 Heather Prospect (NAD 27)

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: Martin III

| +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
|-------|-------|-----------|------------|------------------|------------------|
| 0.00 | 0.00 | 407759.00 | 1643274.00 | 30° 36' 45.478 N | 80° 45' 58.459 W |



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Shane Rhodes
 14-10, October 02, 2014
 Scientific Drilling International
 124 Vista Drive
 Charleroi, PA 15022

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Company: Stone Energy Corporation
Project: Heather Prospect (NAD 27)
Site: Martin Pad
Well: Martin 1H
Wellbore: OH
Design: As Drilled

Local Co-ordinate Reference: Well Martin 1H - Slot 1H
TVD Reference: GL 906' & KB 18' @ 924.00ft (Saxon 141)
MD Reference: GL 906' & KB 18' @ 924.00ft (Saxon 141)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Northeast District

| | | | |
|--------------------|---|----------------------|----------------|
| Project | Heather Prospect (NAD 27), 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 | Martin Pad | | | | |
| Site Position: | | Northing: | 407,759.00 usft | Latitude: | 39° 36' 45.478 N |
| From: | Map | Easting: | 1,643,274.00 usft | Longitude: | 80° 45' 58.459 W |
| Position Uncertainty: | 0.00 ft | Slot Radius: | 13-3/16 " | Grid Convergence: | -0.81 " |

| | | | | | | |
|-----------------------------|---------------------|---------|----------------------------|-------------------|----------------------|------------------|
| Well | Martin 1H - Slot 1H | | | | | |
| Well Position | +N/-S | 0.00 ft | Northing: | 407,759.00 usft | Latitude: | 39° 36' 45.478 N |
| | +E/-W | 0.00 ft | Easting: | 1,643,274.00 usft | Longitude: | 80° 45' 58.459 W |
| Position Uncertainty | 0.00 ft | | Wellhead Elevation: | 0.00 ft | Ground Level: | 906.00 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | OH | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | BGGM2013 | 4/11/2014 | -8.59 | 67.11 | 52,434 |
| | User Defined | 9/10/2014 | -7.69 | 67.13 | 52,532 |

| | | | | | |
|--------------------------|------------------------------|-------------------|-------------------|----------------------|------|
| Design | 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 | 313.47 | |

| | | | | | |
|-----------------------|----------------|---|------------------|------------------------------|--|
| Survey Program | Date | 10/2/2014 | | | |
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description | |
| 108.00 | 2,238.00 | Survey #1 - 9-5/8" Intermediate Casing Su | VES GyroFlex | | |
| 2,404.00 | 5,387.00 | Survey #2 - SDI MWD Surveys to KOP 8-3 | SDI MWD | SDI MWD - Standard ver 1.0.1 | |
| 5,413.00 | 12,900.00 | Survey #3 - SDI MWD 8-3/4 Hole (OH) | SDI 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 | |
| 108.00 | 0.27 | 277.00 | 108.00 | 0.03 | -0.25 | 0.20 | 0.25 | 0.25 | 0.25 | |
| First Vaughn Gyro Survey @ 108 MD | | | | | | | | | | |
| 208.00 | 0.15 | 264.26 | 208.00 | 0.05 | -0.62 | 0.48 | 0.13 | -0.12 | -0.12 | |
| 308.00 | 0.08 | 259.35 | 308.00 | 0.02 | -0.82 | 0.61 | 0.07 | -0.12 | -4.91 | |
| 408.00 | 0.28 | 280.06 | 408.00 | 0.05 | -1.12 | 0.85 | 0.21 | -0.12 | -4.91 | |
| 508.00 | 0.22 | 303.24 | 508.00 | 0.20 | -1.53 | 1.24 | 0.12 | -0.06 | 23.18 | |

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Scientific Drilling International
Survey Report

47 1 0 3 0 2 9 6 Scientific Drilling

Company: Stone Energy Corporation
Project: Heather Prospect (NAD 27)
Site: Martin Pad
Well: Martin 1H
Wellbore: OH
Design: As Drilled

Local Co-ordinate Reference: Well Martin 1H - Slot 1H
TVD Reference: GL 906' & KB 18' @ 924.00ft (Saxon 141)
MD Reference: GL 906' & KB 18' @ 924.00ft (Saxon 141)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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) |
|-----------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|
| 608.00 | 0.10 | 348.40 | 608.00 | 0.39 | -1.70 | 1.50 | 0.17 | -0.12 | 45.16 |
| 708.00 | 0.06 | 356.52 | 708.00 | 0.53 | -1.72 | 1.61 | 0.04 | -0.04 | 8.12 |
| 808.00 | 0.18 | 332.43 | 808.00 | 0.72 | -1.80 | 1.80 | 0.13 | 0.12 | -24.09 |
| 908.00 | 0.16 | 329.79 | 908.00 | 0.98 | -1.94 | 2.08 | 0.02 | -0.02 | -2.64 |
| 1,008.00 | 0.47 | 320.10 | 1,007.99 | 1.41 | -2.28 | 2.62 | 0.31 | 0.31 | -9.69 |
| 1,108.00 | 0.53 | 321.02 | 1,107.99 | 2.09 | -2.83 | 3.49 | 0.06 | 0.06 | 0.92 |
| 1,208.00 | 0.41 | 324.55 | 1,207.99 | 2.74 | -3.33 | 4.30 | 0.12 | -0.12 | 3.53 |
| 1,308.00 | 0.56 | 320.89 | 1,307.98 | 3.41 | -3.85 | 5.14 | 0.15 | 0.15 | -3.66 |
| 1,408.00 | 0.28 | 321.32 | 1,407.98 | 3.98 | -4.31 | 5.86 | 0.28 | -0.28 | 0.43 |
| 1,508.00 | 0.30 | 293.14 | 1,507.98 | 4.27 | -4.70 | 6.35 | 0.14 | 0.02 | -28.18 |
| 1,608.00 | 0.34 | 294.48 | 1,607.98 | 4.50 | -5.21 | 6.88 | 0.04 | 0.04 | 1.34 |
| 1,708.00 | 0.37 | 297.87 | 1,707.98 | 4.77 | -5.77 | 7.47 | 0.04 | 0.03 | 3.39 |
| 1,808.00 | 0.20 | 320.27 | 1,807.97 | 5.06 | -6.16 | 7.95 | 0.20 | -0.17 | 22.40 |
| 1,908.00 | 0.61 | 10.96 | 1,907.97 | 5.71 | -6.17 | 8.41 | 0.51 | 0.41 | 50.69 |
| 2,008.00 | 0.94 | 26.27 | 2,007.96 | 6.97 | -5.71 | 8.94 | 0.39 | 0.33 | 15.31 |
| 2,108.00 | 1.10 | 25.36 | 2,107.95 | 8.58 | -4.93 | 9.48 | 0.16 | 0.16 | -0.91 |
| 2,208.00 | 1.31 | 13.56 | 2,207.93 | 10.55 | -4.26 | 10.35 | 0.32 | 0.21 | -11.80 |
| 2,238.00 | 1.27 | 6.88 | 2,237.92 | 11.22 | -4.14 | 10.72 | 0.52 | -0.13 | -22.27 |
| Last Vaughn Gyro Survey @ 2238 MD | | | | | | | | | |
| 2,404.00 | 0.76 | 295.27 | 2,403.90 | 13.51 | -4.91 | 12.86 | 0.76 | -0.31 | -43.14 |
| First SDI MWD Survey @ 2404 MD | | | | | | | | | |
| 2,498.00 | 2.38 | 247.79 | 2,497.86 | 13.04 | -7.28 | 14.26 | 2.07 | 1.72 | -50.51 |
| 2,592.00 | 3.28 | 239.65 | 2,591.75 | 10.95 | -11.41 | 15.81 | 1.05 | 0.96 | -8.66 |
| 2,686.00 | 4.10 | 244.79 | 2,685.55 | 8.16 | -16.77 | 17.78 | 0.94 | 0.87 | 5.47 |
| 2,780.00 | 5.13 | 251.25 | 2,779.25 | 5.37 | -23.79 | 20.96 | 1.23 | 1.10 | 6.87 |
| 2,874.00 | 4.83 | 239.86 | 2,872.89 | 2.04 | -31.19 | 24.04 | 1.10 | -0.32 | -12.12 |
| 2,968.00 | 5.40 | 227.10 | 2,966.52 | -2.96 | -37.86 | 25.44 | 1.35 | 0.61 | -13.57 |
| 3,063.00 | 6.84 | 229.54 | 3,060.98 | -9.68 | -45.43 | 26.32 | 1.54 | 1.52 | 2.57 |
| 3,157.00 | 8.16 | 233.99 | 3,154.17 | -17.23 | -55.09 | 28.13 | 1.53 | 1.40 | 4.73 |
| 3,251.00 | 8.87 | 240.82 | 3,247.14 | -24.69 | -66.81 | 31.51 | 1.31 | 0.76 | 7.27 |
| 3,345.00 | 10.21 | 241.89 | 3,339.84 | -32.15 | -80.49 | 36.30 | 1.44 | 1.43 | 1.14 |
| 3,441.00 | 10.76 | 246.19 | 3,434.23 | -39.77 | -96.19 | 42.46 | 1.00 | 0.57 | 4.48 |
| 3,535.00 | 10.94 | 254.37 | 3,526.56 | -45.72 | -112.81 | 50.43 | 1.65 | 0.19 | 8.70 |
| 3,629.00 | 11.14 | 257.28 | 3,618.82 | -50.12 | -130.26 | 60.06 | 0.63 | 0.21 | 3.10 |
| 3,722.00 | 10.73 | 254.71 | 3,710.13 | -54.38 | -147.38 | 69.55 | 0.68 | 0.68 | -2.76 |
| 3,816.00 | 9.73 | 257.05 | 3,802.64 | -58.47 | -163.56 | 78.48 | 1.15 | 1.15 | 2.49 |
| 3,910.00 | 9.02 | 258.51 | 3,895.38 | -61.72 | -178.52 | 87.11 | 0.80 | 0.80 | 0.55 |
| 4,004.00 | 9.41 | 257.27 | 3,988.17 | -64.88 | -193.24 | 95.62 | 0.44 | 0.44 | -1.32 |
| 4,098.00 | 9.98 | 254.13 | 4,080.82 | -68.80 | -208.57 | 104.05 | 0.83 | 0.61 | -3.34 |
| 4,192.00 | 9.65 | 255.34 | 4,173.45 | -73.02 | -224.02 | 112.36 | 0.41 | 0.41 | 1.29 |
| 4,289.00 | 10.10 | 259.40 | 4,269.01 | -76.64 | -240.25 | 121.64 | 0.85 | 0.46 | 4.19 |
| 4,383.00 | 9.75 | 259.14 | 4,361.61 | -79.66 | -256.17 | 131.12 | 0.38 | -0.37 | -0.28 |
| 4,477.00 | 9.74 | 254.09 | 4,454.25 | -83.34 | -271.63 | 139.82 | 0.91 | -0.01 | -5.37 |
| 4,571.00 | 9.57 | 250.84 | 4,546.92 | -88.08 | -286.66 | 147.46 | 0.61 | -0.18 | -3.46 |

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Scientific Drilling International
Survey Report

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Scientific Drilling

Company: Stone Energy Corporation
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Well: Martin 1H
Wellbore: OH
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| 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) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|
| 4,666.00 | 9.92 | 255.27 | 4,640.55 | -92.76 | -302.03 | 155.40 | 0.87 | 0.37 | 4.66 |
| 4,760.00 | 9.86 | 260.44 | 4,733.16 | -96.15 | -317.80 | 164.51 | 0.95 | -0.06 | 5.50 |
| 4,854.00 | 9.60 | 260.33 | 4,825.80 | -98.81 | -333.47 | 174.05 | 0.28 | -0.28 | -0.12 |
| 4,948.00 | 9.65 | 258.35 | 4,918.48 | -101.71 | -348.91 | 183.26 | 0.36 | 0.05 | -2.11 |
| 5,042.00 | 9.65 | 260.98 | 5,011.15 | -104.54 | -364.41 | 192.57 | 0.47 | 0.00 | 2.80 |
| 5,136.00 | 9.48 | 260.54 | 5,103.84 | -107.05 | -379.82 | 202.03 | 0.20 | -0.18 | -0.47 |
| 5,230.00 | 9.27 | 259.21 | 5,196.59 | -109.74 | -394.90 | 211.12 | 0.32 | -0.22 | -1.41 |
| 5,325.00 | 9.72 | 262.89 | 5,290.29 | -112.16 | -410.37 | 220.68 | 0.80 | 0.47 | 3.87 |
| 5,387.00 | 10.03 | 263.55 | 5,351.37 | -113.42 | -420.93 | 227.48 | 0.53 | 0.50 | 1.06 |
| 5,413.00 | 10.05 | 263.82 | 5,376.97 | -113.91 | -425.43 | 230.41 | 0.20 | 0.08 | 1.04 |
| 5,476.00 | 10.07 | 264.30 | 5,439.00 | -115.05 | -436.38 | 237.57 | 0.14 | 0.03 | 0.76 |
| 5,540.00 | 9.89 | 263.16 | 5,502.03 | -116.26 | -447.40 | 244.74 | 0.42 | -0.28 | -1.78 |
| 5,572.00 | 10.21 | 261.74 | 5,533.54 | -117.00 | -452.94 | 248.25 | 1.26 | 1.00 | -4.44 |
| 5,604.00 | 11.30 | 262.31 | 5,564.98 | -117.82 | -458.85 | 251.97 | 3.42 | 3.41 | 1.78 |
| 5,635.00 | 13.84 | 263.44 | 5,595.23 | -118.65 | -465.55 | 256.26 | 8.23 | 8.19 | 3.65 |
| 5,667.00 | 16.45 | 263.68 | 5,626.12 | -119.59 | -473.86 | 261.65 | 8.16 | 8.16 | 0.75 |
| 5,699.00 | 18.62 | 263.83 | 5,656.63 | -120.64 | -483.44 | 267.88 | 6.78 | 6.78 | 0.47 |
| 5,731.00 | 19.14 | 263.63 | 5,686.91 | -121.77 | -493.73 | 274.57 | 1.64 | 1.63 | -0.63 |
| 5,763.00 | 19.40 | 262.94 | 5,717.12 | -123.01 | -504.22 | 281.34 | 1.08 | 0.81 | -2.16 |
| 5,795.00 | 20.94 | 262.01 | 5,747.15 | -124.45 | -515.16 | 288.28 | 4.92 | 4.81 | -2.91 |
| 5,827.00 | 22.70 | 261.50 | 5,776.86 | -126.16 | -526.93 | 295.65 | 5.53 | 5.50 | -1.59 |
| 5,859.00 | 24.69 | 260.78 | 5,806.16 | -128.14 | -539.63 | 303.50 | 6.28 | 6.22 | -2.25 |
| 5,891.00 | 26.48 | 260.52 | 5,835.02 | -130.39 | -553.27 | 311.85 | 5.60 | 5.59 | -0.81 |
| 5,922.00 | 28.70 | 260.05 | 5,862.50 | -132.82 | -567.42 | 320.46 | 7.20 | 7.16 | -1.52 |
| 5,954.00 | 30.26 | 259.80 | 5,890.35 | -135.57 | -582.92 | 329.81 | 4.89 | 4.88 | -0.78 |
| 5,986.00 | 32.12 | 257.89 | 5,917.73 | -138.78 | -599.18 | 339.40 | 6.58 | 5.81 | -5.97 |
| 6,018.00 | 33.79 | 258.39 | 5,944.58 | -142.36 | -616.21 | 349.30 | 5.29 | 5.22 | 1.56 |
| 6,050.00 | 36.29 | 258.69 | 5,970.77 | -146.01 | -634.22 | 359.86 | 7.83 | 7.81 | 0.94 |
| 6,081.00 | 38.50 | 258.73 | 5,995.40 | -149.69 | -652.68 | 370.73 | 7.13 | 7.13 | 0.13 |
| 6,113.00 | 40.61 | 257.56 | 6,020.07 | -153.88 | -672.62 | 382.32 | 6.99 | 6.59 | -3.66 |
| 6,145.00 | 42.14 | 256.93 | 6,044.08 | -158.56 | -693.25 | 394.07 | 4.96 | 4.78 | -1.97 |
| 6,177.00 | 44.45 | 255.72 | 6,067.37 | -163.75 | -714.57 | 405.98 | 7.67 | 7.22 | -3.78 |
| 6,209.00 | 46.60 | 255.68 | 6,089.79 | -169.39 | -736.69 | 418.15 | 6.72 | 6.72 | -0.13 |
| 6,240.00 | 49.41 | 255.15 | 6,110.53 | -175.19 | -758.99 | 430.34 | 9.15 | 9.15 | -1.71 |
| 6,272.00 | 51.24 | 255.35 | 6,130.96 | -181.46 | -782.80 | 443.31 | 5.74 | 5.74 | 0.63 |
| 6,303.00 | 53.41 | 255.40 | 6,149.91 | -187.66 | -806.54 | 456.28 | 7.00 | 7.00 | 0.16 |
| 6,335.00 | 54.40 | 255.18 | 6,168.76 | -194.22 | -831.55 | 469.92 | 3.44 | 3.44 | -0.69 |
| 6,366.00 | 55.61 | 255.47 | 6,186.54 | -200.65 | -856.12 | 483.32 | 3.98 | 3.98 | 0.94 |
| 6,398.00 | 57.54 | 254.91 | 6,204.16 | -207.48 | -881.94 | 497.36 | 6.21 | 6.21 | -1.75 |
| 6,430.00 | 59.01 | 254.89 | 6,220.99 | -214.57 | -908.21 | 511.56 | 4.59 | 4.59 | -0.06 |
| 6,462.00 | 59.05 | 254.39 | 6,237.46 | -221.84 | -934.67 | 525.76 | 1.35 | 0.13 | -1.56 |
| 6,494.00 | 59.34 | 255.12 | 6,253.84 | -229.07 | -961.19 | 540.04 | 2.16 | 0.91 | 2.28 |
| 6,526.00 | 58.93 | 254.96 | 6,270.26 | -236.16 | -987.73 | 554.42 | 1.35 | -1.28 | -0.50 |

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|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|
| 6,558.00 | 59.66 | 254.41 | 6,286.60 | -243.43 | -1,014.26 | 568.68 | 2.72 | 2.28 | -1.72 |
| 6,590.00 | 60.93 | 254.16 | 6,302.46 | -250.95 | -1,041.02 | 582.92 | 4.03 | 3.97 | -0.78 |
| 6,621.00 | 61.89 | 254.27 | 6,317.29 | -258.36 | -1,067.21 | 596.83 | 3.11 | 3.10 | 0.35 |
| 6,653.00 | 61.87 | 254.30 | 6,332.37 | -266.00 | -1,094.38 | 611.29 | 0.10 | -0.06 | 0.09 |
| 6,684.00 | 62.00 | 255.77 | 6,346.96 | -273.07 | -1,120.81 | 625.61 | 4.21 | 0.42 | 4.74 |
| 6,716.00 | 61.67 | 259.76 | 6,362.07 | -279.04 | -1,148.37 | 641.51 | 11.04 | -1.03 | 12.47 |
| 6,748.00 | 61.09 | 263.38 | 6,377.40 | -283.16 | -1,176.15 | 658.83 | 10.09 | -1.81 | 11.31 |
| 6,780.00 | 60.73 | 267.02 | 6,392.96 | -285.50 | -1,204.01 | 677.44 | 10.00 | -1.13 | 11.38 |
| 6,812.00 | 61.18 | 269.92 | 6,408.50 | -286.25 | -1,231.97 | 697.22 | 8.05 | 1.41 | 9.06 |
| 6,843.00 | 61.83 | 272.71 | 6,423.29 | -285.62 | -1,259.20 | 717.42 | 8.18 | 2.10 | 9.00 |
| 6,875.00 | 62.49 | 275.87 | 6,438.24 | -283.50 | -1,287.41 | 739.35 | 8.97 | 2.06 | 9.88 |
| 6,906.00 | 63.13 | 277.78 | 6,452.40 | -280.23 | -1,314.79 | 761.48 | 5.86 | 2.06 | 6.16 |
| 6,936.00 | 63.89 | 279.49 | 6,465.79 | -276.19 | -1,341.33 | 783.52 | 5.70 | 2.53 | 5.70 |
| 6,966.00 | 64.86 | 281.14 | 6,478.76 | -271.35 | -1,367.94 | 806.16 | 5.92 | 3.23 | 5.50 |
| 6,996.00 | 66.62 | 283.57 | 6,491.09 | -265.49 | -1,394.66 | 829.58 | 9.43 | 5.87 | 8.10 |
| 7,026.00 | 68.11 | 286.06 | 6,502.64 | -258.41 | -1,421.42 | 853.88 | 9.13 | 4.97 | 8.30 |
| 7,056.00 | 69.30 | 288.34 | 6,513.53 | -250.14 | -1,448.12 | 878.94 | 8.12 | 3.97 | 7.60 |
| 7,087.00 | 70.65 | 291.00 | 6,524.15 | -240.34 | -1,475.54 | 905.59 | 9.16 | 4.35 | 8.58 |
| 7,117.00 | 71.65 | 294.00 | 6,533.84 | -229.47 | -1,501.77 | 932.10 | 10.03 | 3.33 | 10.00 |
| 7,148.00 | 71.97 | 296.12 | 6,543.52 | -217.00 | -1,528.44 | 960.04 | 6.58 | 1.03 | 6.84 |
| 7,178.00 | 72.15 | 298.31 | 6,552.76 | -203.95 | -1,553.82 | 987.44 | 6.97 | 0.60 | 7.30 |
| 7,208.00 | 72.04 | 299.68 | 6,561.99 | -190.11 | -1,578.79 | 1,015.08 | 4.36 | -0.37 | 4.57 |
| 7,238.00 | 72.58 | 301.82 | 6,571.10 | -175.50 | -1,603.35 | 1,042.96 | 7.03 | 1.80 | 7.13 |
| 7,268.00 | 73.25 | 303.59 | 6,579.92 | -160.00 | -1,627.48 | 1,071.13 | 6.07 | 2.23 | 5.90 |
| 7,299.00 | 74.45 | 305.68 | 6,588.54 | -143.08 | -1,651.98 | 1,100.55 | 7.54 | 3.87 | 6.74 |
| 7,329.00 | 76.62 | 307.37 | 6,596.03 | -125.79 | -1,675.32 | 1,129.38 | 9.06 | 7.23 | 5.63 |
| 7,359.00 | 79.28 | 309.08 | 6,602.30 | -107.64 | -1,698.36 | 1,158.60 | 10.47 | 8.87 | 5.70 |
| 7,389.00 | 81.46 | 310.52 | 6,607.32 | -88.71 | -1,721.08 | 1,188.11 | 8.67 | 7.27 | 4.80 |
| 7,419.00 | 83.62 | 312.36 | 6,611.21 | -69.02 | -1,743.38 | 1,217.83 | 9.42 | 7.20 | 6.13 |
| 7,450.00 | 85.06 | 314.61 | 6,614.27 | -47.79 | -1,765.76 | 1,248.68 | 8.59 | 4.65 | 7.26 |
| 7,480.00 | 86.71 | 317.08 | 6,616.42 | -26.33 | -1,786.60 | 1,278.57 | 9.88 | 5.50 | 8.23 |
| 7,510.00 | 88.49 | 318.88 | 6,617.68 | -4.06 | -1,806.66 | 1,308.45 | 8.43 | 5.93 | 6.00 |
| 7,541.00 | 88.96 | 320.71 | 6,618.37 | 19.61 | -1,826.67 | 1,339.25 | 6.09 | 1.52 | 5.90 |
| 7,601.00 | 89.60 | 321.66 | 6,619.12 | 66.35 | -1,864.27 | 1,398.70 | 1.91 | 1.07 | 1.58 |
| 7,662.00 | 90.17 | 324.17 | 6,619.24 | 115.01 | -1,901.05 | 1,458.87 | 4.22 | 0.99 | 1.58 |
| 7,722.00 | 90.81 | 325.27 | 6,618.73 | 163.99 | -1,935.70 | 1,517.71 | 2.12 | 1.07 | 1.83 |
| 7,783.00 | 91.24 | 325.02 | 6,617.64 | 214.04 | -1,970.56 | 1,577.44 | 0.82 | 1.07 | 1.85 |
| 7,842.00 | 90.87 | 326.11 | 6,616.55 | 262.69 | -2,003.92 | 1,635.12 | 1.95 | 0.84 | 1.85 |
| 7,903.00 | 91.38 | 325.53 | 6,615.36 | 313.14 | -2,038.18 | 1,694.70 | 1.27 | 0.84 | 1.85 |
| 7,967.00 | 91.51 | 325.95 | 6,613.74 | 366.02 | -2,074.19 | 1,757.21 | 0.69 | 0.20 | 0.68 |
| 8,031.00 | 91.54 | 327.76 | 6,612.04 | 419.59 | -2,109.17 | 1,819.45 | 2.83 | 0.05 | 2.83 |
| 8,094.00 | 92.08 | 328.65 | 6,610.05 | 473.11 | -2,142.35 | 1,880.34 | 1.65 | 0.86 | 1.41 |
| 8,158.00 | 91.98 | 328.26 | 6,607.78 | 527.62 | -2,175.81 | 1,942.13 | 0.63 | -0.16 | -0.61 |
| 8,220.00 | 90.94 | 327.33 | 6,606.20 | 580.06 | -2,208.84 | 2,002.18 | 2.25 | -1.68 | -1.50 |

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Scientific Drilling International
Survey Report

47 1 0 3 0 2 9 5 6
Scientific Drilling

Company: Stone Energy Corporation
Project: Heather Prospect (NAD 27)
Site: Martin Pad
Well: Martin 1H
Wellbore: OH
Design: As Drilled

Local Co-ordinate Reference: Well Martin 1H - Slot 1H
TVD Reference: GL 906' & KB 18' @ 924.00ft (Saxon 141)
MD Reference: GL 906' & KB 18' @ 924.00ft (Saxon 141)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|
| 8,284.00 | 90.77 | 326.95 | 6,605.25 | 633.81 | -2,243.57 | 2,064.36 | 0.65 | -0.27 | -0.59 |
| 8,347.00 | 90.87 | 327.10 | 6,604.35 | 686.66 | -2,277.85 | 2,125.60 | 0.29 | 0.16 | 0.24 |
| 8,410.00 | 91.41 | 327.06 | 6,603.09 | 739.53 | -2,312.08 | 2,186.81 | 0.86 | 0.86 | -0.06 |
| 8,474.00 | 90.91 | 326.83 | 6,601.80 | 793.16 | -2,346.98 | 2,249.04 | 0.86 | -0.78 | -0.36 |
| 8,538.00 | 90.30 | 327.21 | 6,601.12 | 846.85 | -2,381.82 | 2,311.25 | 1.12 | -0.95 | 0.59 |
| 8,601.00 | 91.17 | 327.82 | 6,600.31 | 899.98 | -2,415.65 | 2,372.36 | 1.69 | 1.38 | 0.97 |
| 8,665.00 | 91.58 | 327.84 | 6,598.78 | 954.14 | -2,449.72 | 2,434.34 | 0.64 | 0.64 | 0.03 |
| 8,728.00 | 90.44 | 327.58 | 6,597.67 | 1,007.39 | -2,483.37 | 2,495.39 | 1.86 | -1.81 | -0.41 |
| 8,792.00 | 90.77 | 327.34 | 6,596.99 | 1,061.34 | -2,517.79 | 2,557.49 | 0.64 | 0.52 | -0.38 |
| 8,856.00 | 90.94 | 326.75 | 6,596.04 | 1,115.04 | -2,552.60 | 2,619.69 | 0.96 | 0.27 | -0.92 |
| 8,919.00 | 91.17 | 325.66 | 6,594.88 | 1,167.38 | -2,587.64 | 2,681.13 | 1.77 | 0.37 | -1.73 |
| 8,983.00 | 91.54 | 324.14 | 6,593.36 | 1,219.73 | -2,624.43 | 2,743.84 | 2.44 | 0.58 | -2.38 |
| 9,047.00 | 91.71 | 324.67 | 6,591.55 | 1,271.75 | -2,661.66 | 2,806.65 | 0.87 | 0.27 | 0.83 |
| 9,109.00 | 91.51 | 326.12 | 6,589.81 | 1,322.76 | -2,696.86 | 2,867.29 | 2.36 | -0.32 | 2.34 |
| 9,172.00 | 91.81 | 327.14 | 6,587.98 | 1,375.35 | -2,731.49 | 2,928.61 | 1.69 | 0.48 | 1.62 |
| 9,236.00 | 91.61 | 327.98 | 6,586.07 | 1,429.34 | -2,765.81 | 2,990.65 | 1.35 | -0.31 | 1.31 |
| 9,298.00 | 90.80 | 328.14 | 6,584.77 | 1,481.94 | -2,798.60 | 3,050.64 | 1.33 | -1.31 | 0.26 |
| 9,360.00 | 91.64 | 328.55 | 6,583.45 | 1,534.70 | -2,831.13 | 3,110.55 | 1.51 | 1.35 | 0.66 |
| 9,424.00 | 91.07 | 327.33 | 6,581.93 | 1,586.92 | -2,865.09 | 3,172.50 | 2.10 | -0.89 | -1.91 |
| 9,487.00 | 89.93 | 327.13 | 6,581.38 | 1,641.89 | -2,899.19 | 3,233.68 | 1.84 | -1.81 | -0.32 |
| 9,551.00 | 90.54 | 327.12 | 6,581.12 | 1,695.64 | -2,933.93 | 3,295.87 | 0.95 | 0.95 | -0.02 |
| 9,614.00 | 90.84 | 325.70 | 6,580.36 | 1,748.12 | -2,968.78 | 3,357.27 | 2.30 | 0.48 | -2.25 |
| 9,678.00 | 91.07 | 324.69 | 6,579.30 | 1,800.66 | -3,005.31 | 3,419.92 | 1.62 | 0.36 | -1.58 |
| 9,742.00 | 91.21 | 324.89 | 6,578.02 | 1,852.94 | -3,042.20 | 3,482.66 | 0.38 | 0.22 | 0.31 |
| 9,805.00 | 91.21 | 325.77 | 6,576.69 | 1,904.74 | -3,078.03 | 3,544.30 | 1.40 | 0.00 | 1.40 |
| 9,869.00 | 91.71 | 325.31 | 6,575.06 | 1,957.50 | -3,114.23 | 3,606.86 | 1.06 | 0.78 | -0.72 |
| 9,933.00 | 91.57 | 324.18 | 6,573.23 | 2,009.73 | -3,151.16 | 3,669.60 | 1.78 | -0.22 | -1.77 |
| 9,997.00 | 90.94 | 322.90 | 6,571.83 | 2,061.19 | -3,189.18 | 3,732.60 | 2.23 | -0.98 | -2.00 |
| 10,060.00 | 91.24 | 322.96 | 6,570.63 | 2,111.45 | -3,227.15 | 3,794.73 | 0.49 | 0.48 | 0.10 |
| 10,124.00 | 91.85 | 325.16 | 6,568.90 | 2,163.25 | -3,264.70 | 3,857.61 | 3.57 | 0.95 | 3.44 |
| 10,188.00 | 91.14 | 324.86 | 6,567.23 | 2,215.66 | -3,301.38 | 3,920.29 | 1.20 | -1.11 | -0.47 |
| 10,251.00 | 91.01 | 323.72 | 6,566.05 | 2,266.81 | -3,338.15 | 3,982.16 | 1.82 | -0.21 | -1.81 |
| 10,314.00 | 90.97 | 324.19 | 6,564.96 | 2,317.74 | -3,375.21 | 4,044.10 | 0.75 | -0.08 | -0.08 |
| 10,378.00 | 90.64 | 324.30 | 6,564.06 | 2,369.67 | -3,412.61 | 4,106.96 | 0.54 | -0.52 | -0.52 |
| 10,442.00 | 90.84 | 325.53 | 6,563.24 | 2,422.04 | -3,449.39 | 4,169.68 | 1.95 | 1.92 | 1.92 |
| 10,505.00 | 91.84 | 328.34 | 6,561.76 | 2,474.81 | -3,483.75 | 4,230.93 | 4.73 | 1.83 | 1.83 |
| 10,568.00 | 92.15 | 329.49 | 6,559.57 | 2,528.73 | -3,516.26 | 4,291.61 | 1.89 | 0.75 | 0.75 |
| 10,631.00 | 92.62 | 329.79 | 6,556.95 | 2,583.04 | -3,548.07 | 4,352.07 | 0.88 | -0.06 | -0.06 |
| 10,695.00 | 92.58 | 329.37 | 6,554.05 | 2,638.18 | -3,580.44 | 4,413.49 | 0.66 | -0.27 | -0.27 |
| 10,758.00 | 92.41 | 329.43 | 6,551.30 | 2,692.35 | -3,612.48 | 4,474.01 | 0.29 | -0.27 | 0.10 |
| 10,822.00 | 92.72 | 329.07 | 6,548.44 | 2,747.30 | -3,645.17 | 4,535.54 | 0.74 | 0.48 | -0.56 |
| 10,886.00 | 91.91 | 329.22 | 6,545.85 | 2,802.20 | -3,677.97 | 4,597.10 | 1.29 | -1.27 | 0.23 |
| 10,949.00 | 91.21 | 329.26 | 6,544.14 | 2,856.31 | -3,710.18 | 4,657.71 | 1.11 | -1.11 | 0.06 |

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Scientific Drilling International

Survey Report

4710302950 Scientific Drilling

Company: Stone Energy Corporation
 Project: Heather Prospect (NAD 27)
 Site: Martin Pad
 Well: Martin 1H
 Wellbore: OH
 Design: As Drilled

Local Co-ordinate Reference: Well Martin 1H - Slot 1H
 TVD Reference: GL 906' & KB 18' @ 924.00ft (Saxon 141)
 MD Reference: GL 906' & KB 18' @ 924.00ft (Saxon 141)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 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) |
|------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|
| 11,013.00 | 91.64 | 328.52 | 6,542.55 | 2,911.09 | -3,743.23 | 4,719.38 | 1.34 | 0.67 | -1.16 |
| 11,077.00 | 91.48 | 327.56 | 6,540.80 | 2,965.37 | -3,777.10 | 4,781.30 | 1.52 | -0.25 | -1.50 |
| 11,140.00 | 89.73 | 327.28 | 6,540.14 | 3,018.45 | -3,811.02 | 4,842.44 | 2.81 | -2.78 | -0.44 |
| 11,204.00 | 90.50 | 327.80 | 6,540.01 | 3,072.45 | -3,845.37 | 4,904.51 | 1.45 | 1.20 | 0.81 |
| 11,268.00 | 91.27 | 327.95 | 6,539.02 | 3,126.64 | -3,879.40 | 4,966.49 | 1.23 | 1.20 | 0.23 |
| 11,332.00 | 92.08 | 328.54 | 6,537.15 | 3,181.04 | -3,913.06 | 5,028.35 | 1.57 | 1.27 | 0.92 |
| 11,395.00 | 92.15 | 328.22 | 6,534.83 | 3,234.65 | -3,946.07 | 5,089.18 | 0.52 | 0.11 | -0.51 |
| 11,458.00 | 90.80 | 329.06 | 6,533.21 | 3,288.43 | -3,978.84 | 5,149.97 | 2.52 | -2.14 | 1.33 |
| 11,521.00 | 91.01 | 330.52 | 6,532.21 | 3,342.86 | -4,010.54 | 5,210.42 | 2.34 | 0.33 | 2.32 |
| 11,585.00 | 91.71 | 331.30 | 6,530.69 | 3,398.77 | -4,041.65 | 5,271.46 | 1.64 | 1.09 | 1.22 |
| 11,648.00 | 90.27 | 331.04 | 6,529.60 | 3,453.96 | -4,072.02 | 5,331.46 | 2.32 | -2.29 | -0.41 |
| 11,712.00 | 89.63 | 330.99 | 6,529.66 | 3,509.94 | -4,103.03 | 5,392.48 | 1.00 | -1.00 | -0.08 |
| 11,776.00 | 90.30 | 330.43 | 6,529.70 | 3,565.76 | -4,134.34 | 5,453.60 | 1.36 | 1.05 | -0.88 |
| 11,840.00 | 90.17 | 329.20 | 6,529.43 | 3,621.08 | -4,166.52 | 5,515.02 | 1.93 | -0.20 | -1.92 |
| 11,904.00 | 90.91 | 329.63 | 6,528.83 | 3,676.17 | -4,199.08 | 5,576.55 | 1.34 | 1.16 | 0.67 |
| 11,967.00 | 92.35 | 329.44 | 6,527.04 | 3,730.45 | -4,231.01 | 5,637.06 | 2.31 | 2.29 | -0.30 |
| 12,031.00 | 91.78 | 326.79 | 6,524.73 | 3,784.75 | -4,264.79 | 5,698.93 | 4.23 | -0.89 | -4.14 |
| 12,095.00 | 91.01 | 324.93 | 6,523.18 | 3,837.70 | -4,300.70 | 5,761.42 | 3.14 | -1.20 | -2.91 |
| 12,158.00 | 91.54 | 324.72 | 6,521.77 | 3,889.19 | -4,336.98 | 5,823.17 | 0.90 | 0.84 | -0.33 |
| 12,222.00 | 89.90 | 325.02 | 6,520.97 | 3,941.52 | -4,373.81 | 5,885.90 | 2.61 | -2.56 | 0.47 |
| 12,285.00 | 88.79 | 325.01 | 6,521.69 | 3,993.13 | -4,409.92 | 5,947.62 | 1.76 | -1.76 | -0.02 |
| 12,349.00 | 89.36 | 324.80 | 6,522.72 | 4,045.49 | -4,446.72 | 6,010.34 | 0.95 | 0.89 | -0.33 |
| 12,413.00 | 89.83 | 324.44 | 6,523.17 | 4,097.67 | -4,483.77 | 6,073.13 | 0.93 | 0.73 | -0.56 |
| 12,476.00 | 91.78 | 326.19 | 6,522.29 | 4,149.47 | -4,519.61 | 6,134.78 | 4.16 | 3.10 | 2.78 |
| 12,539.00 | 92.45 | 326.03 | 6,519.96 | 4,201.73 | -4,554.72 | 6,196.21 | 1.09 | 1.06 | -0.25 |
| 12,603.00 | 92.45 | 325.63 | 6,517.23 | 4,254.63 | -4,590.63 | 6,258.66 | 0.62 | 0.00 | -0.63 |
| 12,666.00 | 91.78 | 325.03 | 6,514.90 | 4,306.41 | -4,626.44 | 6,320.28 | 1.43 | -1.06 | -0.95 |
| 12,730.00 | 92.62 | 325.39 | 6,512.45 | 4,358.93 | -4,662.93 | 6,382.89 | 1.43 | 1.31 | 0.56 |
| 12,792.00 | 91.07 | 325.39 | 6,510.45 | 4,409.93 | -4,698.13 | 6,443.52 | 2.50 | -2.50 | 0.00 |
| 12,838.00 | 91.31 | 325.36 | 6,509.50 | 4,447.77 | -4,724.26 | 6,488.52 | 0.53 | 0.52 | -0.07 |
| Last SDI MWD @ 12838 MD | | | | | | | | | |
| 12,900.00 | 91.31 | 325.36 | 6,508.08 | 4,498.77 | -4,759.49 | 6,549.17 | 0.00 | 0.00 | 0.00 |
| Projection to Bit @ 12900 MD | | | | | | | | | |

| Measured Depth (ft) | Vertical Depth (ft) | Name |
|---------------------|---------------------|------|
| 923.00 | Surface Casing | |
| 2,229.00 | Intermediate Casing | |

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47 103 02956

Martin #1H
 API 47-103-02956
 Stone Energy Corporation

| | Top (ft TVD) | Horizontal Top (ft MD) | Bottom (ft TVD) | Bottom (ft MD) | |
|-----------------------|-----------------|------------------------------|--------------------|-------------------|--------------------|
| Sandstone & Shale | Surface | | * 567 | | FW @ 100' |
| Coal | 567 | | * 569 | | |
| Sandstone & Shale | 569 | | * 631 | | |
| Coal | 631 | | * 635 | | |
| Sandstone & Shale | 635 | | * 707 | | |
| Coal | 707 | | * 711 | | |
| Sandstone & Shale | 711 | | * 728 | | |
| Coal | 728 | | * 732 | | |
| Sandstone & Shale | 732 | | * 745 | | |
| Coal | 745 | | * 755 | | |
| Sandstone & Shale | 755 | | * 1,883 | | SW @ None Reported |
| Little Lime | 1,883 | | * 1,913 | | |
| Big Lime | 1,913 | | * 2,013 | | |
| Big Injun | 2,013 | | * 2,113 | | |
| Sandstone & Shale | 2,113 | | * 2,477 | | |
| Berea Sandstone | 2,477 | | * 2,507 | | |
| Shale | 2,507 | | * 2,679 | | |
| Gordon | 2,679 | | * 2,729 | | |
| Undiff Devonian Shale | 2,729 | | * 5,422 | 5,459 | |
| Rhinestreet | 5,422 | 5,459 | ~ 6,238 | 6,447 | |
| Cashaqua | 6,238 | 6,447 | ~ 6,411 | 6,830 | |
| Middlesex | 6,411 | 6,830 | ~ 6,441 | 6,881 | |
| West River | 6,441 | 6,881 | ~ 6,495 | 7,007 | |
| Geneseo | 6,495 | 7,007 | ~ 6,512 | 7,054 | |
| Tully Limestone | 6,512 | 7,054 | ~ 6,544 | 7,150 | |
| Hamilton Shale | 6,544 | 7,150 | ~ 6,893 | 7,317 | |
| Marcellus | 6,893 | 7,317 | ~ 6,508 | 12,900 | |
| TD | | | 6,508 | 12,900 | |

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* From Pilot Hole Log and Driller's Log
 ~ From MWD Gamma Log