

SandRidge Energy

North Park Basin

T8N-R81W-S7

Hebron 0781 5-12H

Wellbore #1

Plan: Design #1

Standard Survey Report

29 September, 2016

SandRidge Energy

Survey Report

| | | | |
|------------------|-------------------|-------------------------------------|------------------------|
| Company: | SandRidge Energy | Local Co-ordinate Reference: | Well Hebron 0781 5-12H |
| Project: | North Park Basin | TVD Reference: | KB @ 8146.0usft |
| Site: | T8N-R81W-S7 | MD Reference: | KB @ 8146.0usft |
| Well: | Hebron 0781 5-12H | North Reference: | Grid |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Design #1 | Database: | EDMProd |

| | | | |
|--------------------|---------------------------|----------------------|----------------|
| Project | North Park Basin | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Northern Zone | | |

| | | | | | | |
|-----------------------|-------------|-----------|-------------------|------------|-------------------|---------|
| Site | T8N-R81W-S7 | | | | | |
| Site Position: | | Northing: | 1,462,087.17 usft | Latitude: | 40° 35' 53.334 N | |
| From: | Map | Easting: | 2,743,086.13 usft | Longitude: | 106° 25' 30.641 W | |
| Position Uncertainty: | | 0.0 usft | Slot Radius: | 13-3/16 " | Grid Convergence: | -0.60 ° |

| | | | | | | |
|----------------------|-------------------|----------|---------------------|-------------------|---------------|-------------------|
| Well | Hebron 0781 5-12H | | | | | |
| Well Position | +N/-S | 0.0 usft | Northing: | 1,461,937.65 usft | Latitude: | 40° 35' 51.852 N |
| | +E/-W | 0.0 usft | Easting: | 2,743,039.55 usft | Longitude: | 106° 25' 31.225 W |
| Position Uncertainty | | 0.0 usft | Wellhead Elevation: | 0.0 usft | Ground Level: | 8,130.0 usft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF200510 | 12/31/2009 | 9.90 | 66.98 | 53,194 |

| | | | | | |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|--|
| Design | Design #1 | | | | |
| Audit Notes: | | | | | |
| Version: | Phase: | PROTOTYPE | Tie On Depth: | 0.0 | |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) | |
| | 0.0 | 0.0 | 0.0 | 180.00 | |

| | | | | | |
|----------------------------|------------------|--------------------------|------------------|-------------------------------|--|
| Survey Tool Program | Date | 9/29/2016 | | | |
| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description | |
| 0.0 | 11,957.6 | Design #1 (Wellbore #1) | Sperry MWD | Fixed:v2:standard declination | |

| | | | | | | | | | | |
|------------------------------|------------------------|--------------------|------------------------------|---------------------|---------------------|--------------------------------|--------------------------------|-------------------------------|------------------------------|--|
| Planned Survey | | | | | | | | | | |
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical 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 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | |
| 100.0 | 0.00 | 0.00 | 100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | |
| 300.0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | |
| 400.0 | 0.00 | 0.00 | 400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | |
| 500.0 | 0.00 | 0.00 | 500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | |
| 600.0 | 0.00 | 0.00 | 600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | |
| 700.0 | 0.00 | 0.00 | 700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | |
| 800.0 | 0.00 | 0.00 | 800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | |
| 900.0 | 0.00 | 0.00 | 900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | |

SandRidge Energy

Survey Report

| | | | |
|------------------|-------------------|-------------------------------------|------------------------|
| Company: | SandRidge Energy | Local Co-ordinate Reference: | Well Hebron 0781 5-12H |
| Project: | North Park Basin | TVD Reference: | KB @ 8146.0usft |
| Site: | T8N-R81W-S7 | MD Reference: | KB @ 8146.0usft |
| Well: | Hebron 0781 5-12H | North Reference: | Grid |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Design #1 | Database: | EDMProd |

Planned Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|---------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 1,000.0 | 0.00 | 0.00 | 1,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,100.0 | 0.00 | 0.00 | 1,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,200.0 | 0.00 | 0.00 | 1,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,300.0 | 0.00 | 0.00 | 1,300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,400.0 | 0.00 | 0.00 | 1,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,500.0 | 0.00 | 0.00 | 1,500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,600.0 | 0.00 | 0.00 | 1,600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,700.0 | 0.00 | 0.00 | 1,700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,800.0 | 0.00 | 0.00 | 1,800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,900.0 | 0.00 | 0.00 | 1,900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 0.00 | 0.00 | 2,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,100.0 | 0.00 | 0.00 | 2,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 0.00 | 0.00 | 2,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,300.0 | 0.00 | 0.00 | 2,300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 0.00 | 0.00 | 2,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,500.0 | 0.00 | 0.00 | 2,500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 0.00 | 0.00 | 2,600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,700.0 | 0.00 | 0.00 | 2,700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 0.00 | 0.00 | 2,800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| Start Build 2.00 | | | | | | | | | |
| 2,900.0 | 2.00 | 278.11 | 2,900.0 | 0.2 | -1.7 | -0.2 | 2.00 | 2.00 | 0.00 |
| 3,000.0 | 4.00 | 278.11 | 2,999.8 | 1.0 | -6.9 | -1.0 | 2.00 | 2.00 | 0.00 |
| 3,100.0 | 6.00 | 278.11 | 3,099.5 | 2.2 | -15.5 | -2.2 | 2.00 | 2.00 | 0.00 |
| 3,200.0 | 8.00 | 278.11 | 3,198.7 | 3.9 | -27.6 | -3.9 | 2.00 | 2.00 | 0.00 |
| 3,300.0 | 10.00 | 278.11 | 3,297.5 | 6.1 | -43.1 | -6.1 | 2.00 | 2.00 | 0.00 |
| 3,400.0 | 12.00 | 278.11 | 3,395.6 | 8.8 | -62.0 | -8.8 | 2.00 | 2.00 | 0.00 |
| 3,500.0 | 14.00 | 278.11 | 3,493.1 | 12.0 | -84.2 | -12.0 | 2.00 | 2.00 | 0.00 |
| 3,600.0 | 16.00 | 278.11 | 3,589.6 | 15.7 | -109.9 | -15.7 | 2.00 | 2.00 | 0.00 |
| 3,700.0 | 18.00 | 278.11 | 3,685.3 | 19.8 | -138.8 | -19.8 | 2.00 | 2.00 | 0.00 |
| 3,800.0 | 20.00 | 278.11 | 3,779.8 | 24.4 | -171.0 | -24.4 | 2.00 | 2.00 | 0.00 |
| 3,900.0 | 22.00 | 278.11 | 3,873.2 | 29.4 | -206.5 | -29.4 | 2.00 | 2.00 | 0.00 |
| 4,000.0 | 24.00 | 278.11 | 3,965.2 | 34.9 | -245.2 | -34.9 | 2.00 | 2.00 | 0.00 |
| 4,100.0 | 26.00 | 278.11 | 4,055.8 | 40.9 | -287.0 | -40.9 | 2.00 | 2.00 | 0.00 |
| 4,190.3 | 27.81 | 278.11 | 4,136.3 | 46.6 | -327.5 | -46.6 | 2.00 | 2.00 | 0.00 |
| Start 2331.1 hold at 4190.3 MD | | | | | | | | | |
| 4,200.0 | 27.81 | 278.11 | 4,144.9 | 47.3 | -332.0 | -47.3 | 0.00 | 0.00 | 0.00 |
| 4,300.0 | 27.81 | 278.11 | 4,233.4 | 53.9 | -378.1 | -53.9 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 27.81 | 278.11 | 4,321.9 | 60.4 | -424.3 | -60.4 | 0.00 | 0.00 | 0.00 |
| 4,500.0 | 27.81 | 278.11 | 4,410.3 | 67.0 | -470.5 | -67.0 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 27.81 | 278.11 | 4,498.8 | 73.6 | -516.7 | -73.6 | 0.00 | 0.00 | 0.00 |
| 4,700.0 | 27.81 | 278.11 | 4,587.2 | 80.2 | -562.9 | -80.2 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 27.81 | 278.11 | 4,675.7 | 86.8 | -609.0 | -86.8 | 0.00 | 0.00 | 0.00 |
| 4,900.0 | 27.81 | 278.11 | 4,764.1 | 93.3 | -655.2 | -93.3 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 27.81 | 278.11 | 4,852.6 | 99.9 | -701.4 | -99.9 | 0.00 | 0.00 | 0.00 |

SandRidge Energy

Survey Report

| | | | |
|------------------|-------------------|-------------------------------------|------------------------|
| Company: | SandRidge Energy | Local Co-ordinate Reference: | Well Hebron 0781 5-12H |
| Project: | North Park Basin | TVD Reference: | KB @ 8146.0usft |
| Site: | T8N-R81W-S7 | MD Reference: | KB @ 8146.0usft |
| Well: | Hebron 0781 5-12H | North Reference: | Grid |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Design #1 | Database: | EDMProd |

Planned Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|--------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 5,100.0 | 27.81 | 278.11 | 4,941.0 | 106.5 | -747.6 | -106.5 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 27.81 | 278.11 | 5,029.5 | 113.1 | -793.8 | -113.1 | 0.00 | 0.00 | 0.00 |
| 5,300.0 | 27.81 | 278.11 | 5,117.9 | 119.7 | -840.0 | -119.7 | 0.00 | 0.00 | 0.00 |
| 5,400.0 | 27.81 | 278.11 | 5,206.4 | 126.2 | -886.1 | -126.2 | 0.00 | 0.00 | 0.00 |
| 5,500.0 | 27.81 | 278.11 | 5,294.8 | 132.8 | -932.3 | -132.8 | 0.00 | 0.00 | 0.00 |
| 5,600.0 | 27.81 | 278.11 | 5,383.3 | 139.4 | -978.5 | -139.4 | 0.00 | 0.00 | 0.00 |
| 5,700.0 | 27.81 | 278.11 | 5,471.8 | 146.0 | -1,024.7 | -146.0 | 0.00 | 0.00 | 0.00 |
| 5,800.0 | 27.81 | 278.11 | 5,560.2 | 152.5 | -1,070.9 | -152.5 | 0.00 | 0.00 | 0.00 |
| 5,900.0 | 27.81 | 278.11 | 5,648.7 | 159.1 | -1,117.0 | -159.1 | 0.00 | 0.00 | 0.00 |
| 6,000.0 | 27.81 | 278.11 | 5,737.1 | 165.7 | -1,163.2 | -165.7 | 0.00 | 0.00 | 0.00 |
| 6,100.0 | 27.81 | 278.11 | 5,825.6 | 172.3 | -1,209.4 | -172.3 | 0.00 | 0.00 | 0.00 |
| 6,200.0 | 27.81 | 278.11 | 5,914.0 | 178.9 | -1,255.6 | -178.9 | 0.00 | 0.00 | 0.00 |
| 6,300.0 | 27.81 | 278.11 | 6,002.5 | 185.4 | -1,301.8 | -185.4 | 0.00 | 0.00 | 0.00 |
| 6,400.0 | 27.81 | 278.11 | 6,090.9 | 192.0 | -1,347.9 | -192.0 | 0.00 | 0.00 | 0.00 |
| 6,500.0 | 27.81 | 278.11 | 6,179.4 | 198.6 | -1,394.1 | -198.6 | 0.00 | 0.00 | 0.00 |
| 6,521.4 | 27.81 | 278.11 | 6,198.3 | 200.0 | -1,404.0 | -200.0 | 0.00 | 0.00 | 0.00 |
| Start DLS 8.00 TFO -13.09 | | | | | | | | | |
| 6,550.0 | 30.04 | 277.07 | 6,223.3 | 201.8 | -1,417.7 | -201.8 | 8.00 | 7.81 | -3.62 |
| 6,600.0 | 33.96 | 275.56 | 6,265.7 | 204.7 | -1,444.0 | -204.7 | 8.00 | 7.84 | -3.02 |
| 6,650.0 | 37.89 | 274.33 | 6,306.2 | 207.2 | -1,473.3 | -207.2 | 8.00 | 7.87 | -2.46 |
| 6,700.0 | 41.84 | 273.30 | 6,344.6 | 209.4 | -1,505.2 | -209.4 | 8.00 | 7.89 | -2.06 |
| 6,749.1 | 45.72 | 272.43 | 6,380.0 | 211.0 | -1,539.1 | -211.0 | 8.00 | 7.91 | -1.77 |
| Niobrara | | | | | | | | | |
| 6,750.0 | 45.79 | 272.42 | 6,380.7 | 211.1 | -1,539.8 | -211.1 | 8.00 | 7.91 | -1.65 |
| 6,800.0 | 49.75 | 271.64 | 6,414.3 | 212.4 | -1,576.8 | -212.4 | 8.00 | 7.92 | -1.54 |
| 6,850.0 | 53.71 | 270.96 | 6,445.2 | 213.3 | -1,616.0 | -213.3 | 8.00 | 7.93 | -1.37 |
| 6,900.0 | 57.68 | 270.34 | 6,473.4 | 213.7 | -1,657.3 | -213.7 | 8.00 | 7.93 | -1.24 |
| 6,929.2 | 60.00 | 270.00 | 6,488.5 | 213.8 | -1,682.3 | -213.8 | 8.00 | 7.94 | -1.15 |
| Start 150.0 hold at 6929.2 MD | | | | | | | | | |
| 7,000.0 | 60.00 | 270.00 | 6,523.9 | 213.8 | -1,743.6 | -213.8 | 0.00 | 0.00 | 0.00 |
| 7,079.2 | 60.00 | 270.00 | 6,563.5 | 213.8 | -1,812.2 | -213.8 | 0.00 | 0.00 | 0.00 |
| Start DLS 10.00 TFO -90.00 | | | | | | | | | |
| 7,100.0 | 60.02 | 267.60 | 6,573.9 | 213.4 | -1,830.2 | -213.4 | 10.00 | 0.10 | -11.55 |
| 7,150.0 | 60.25 | 261.84 | 6,598.8 | 209.4 | -1,873.4 | -209.4 | 10.00 | 0.46 | -11.52 |
| 7,200.0 | 60.73 | 256.12 | 6,623.5 | 201.1 | -1,916.1 | -201.1 | 10.00 | 0.96 | -11.44 |
| 7,250.0 | 61.45 | 250.47 | 6,647.6 | 188.5 | -1,958.0 | -188.5 | 10.00 | 1.44 | -11.31 |
| 7,300.0 | 62.40 | 244.90 | 6,671.2 | 171.8 | -1,998.7 | -171.8 | 10.00 | 1.90 | -11.13 |
| 7,350.0 | 63.56 | 239.44 | 6,693.9 | 151.0 | -2,038.1 | -151.0 | 10.00 | 2.33 | -10.92 |
| 7,400.0 | 64.93 | 234.11 | 6,715.7 | 126.3 | -2,075.7 | -126.3 | 10.00 | 2.74 | -10.68 |
| 7,450.0 | 66.49 | 228.89 | 6,736.2 | 97.9 | -2,111.4 | -97.9 | 10.00 | 3.11 | -10.43 |
| 7,500.0 | 68.21 | 223.81 | 6,755.5 | 66.1 | -2,144.8 | -66.1 | 10.00 | 3.45 | -10.17 |
| 7,550.0 | 70.09 | 218.85 | 6,773.3 | 31.0 | -2,175.6 | -31.0 | 10.00 | 3.75 | -9.92 |
| 7,600.0 | 72.10 | 214.01 | 6,789.5 | -7.0 | -2,203.7 | 7.0 | 10.00 | 4.02 | -9.68 |
| 7,650.0 | 74.23 | 209.28 | 6,804.0 | -47.8 | -2,228.7 | 47.8 | 10.00 | 4.26 | -9.46 |

SandRidge Energy

Survey Report

| | | | |
|------------------|-------------------|-------------------------------------|------------------------|
| Company: | SandRidge Energy | Local Co-ordinate Reference: | Well Hebron 0781 5-12H |
| Project: | North Park Basin | TVD Reference: | KB @ 8146.0usft |
| Site: | T8N-R81W-S7 | MD Reference: | KB @ 8146.0usft |
| Well: | Hebron 0781 5-12H | North Reference: | Grid |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Design #1 | Database: | EDMProd |

Planned Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|---------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 7,700.0 | 76.46 | 204.65 | 6,816.6 | -90.9 | -2,250.7 | 90.9 | 10.00 | 4.46 | -9.25 |
| 7,750.0 | 78.77 | 200.11 | 6,827.4 | -136.0 | -2,269.2 | 136.0 | 10.00 | 4.62 | -9.08 |
| 7,800.0 | 81.15 | 195.65 | 6,836.1 | -182.9 | -2,284.3 | 182.9 | 10.00 | 4.76 | -8.93 |
| 7,850.0 | 83.58 | 191.24 | 6,842.7 | -231.0 | -2,295.9 | 231.0 | 10.00 | 4.86 | -8.82 |
| 7,900.0 | 86.05 | 186.87 | 6,847.3 | -280.2 | -2,303.7 | 280.2 | 10.00 | 4.94 | -8.73 |
| 7,950.0 | 88.54 | 182.53 | 6,849.6 | -330.0 | -2,307.8 | 330.0 | 10.00 | 4.98 | -8.68 |
| 7,979.2 | 90.00 | 180.00 | 6,850.0 | -359.2 | -2,308.4 | 359.2 | 10.01 | 5.01 | -8.67 |
| Start 3978.7 hold at 7979.2 MD | | | | | | | | | |
| 8,000.0 | 90.00 | 180.00 | 6,850.0 | -380.0 | -2,308.4 | 380.0 | 0.00 | 0.00 | 0.00 |
| 8,100.0 | 90.00 | 180.00 | 6,850.0 | -480.0 | -2,308.4 | 480.0 | 0.00 | 0.00 | 0.00 |
| 8,200.0 | 90.00 | 180.00 | 6,850.0 | -580.0 | -2,308.4 | 580.0 | 0.00 | 0.00 | 0.00 |
| 8,300.0 | 90.00 | 180.00 | 6,850.0 | -680.0 | -2,308.4 | 680.0 | 0.00 | 0.00 | 0.00 |
| 8,400.0 | 90.00 | 180.00 | 6,850.0 | -780.0 | -2,308.4 | 780.0 | 0.00 | 0.00 | 0.00 |
| 8,500.0 | 90.00 | 180.00 | 6,850.0 | -880.0 | -2,308.4 | 880.0 | 0.00 | 0.00 | 0.00 |
| 8,600.0 | 90.00 | 180.00 | 6,850.0 | -980.0 | -2,308.4 | 980.0 | 0.00 | 0.00 | 0.00 |
| 8,700.0 | 90.00 | 180.00 | 6,850.0 | -1,080.0 | -2,308.3 | 1,080.0 | 0.00 | 0.00 | 0.00 |
| 8,800.0 | 90.00 | 180.00 | 6,850.0 | -1,180.0 | -2,308.3 | 1,180.0 | 0.00 | 0.00 | 0.00 |
| 8,900.0 | 90.00 | 180.00 | 6,850.0 | -1,280.0 | -2,308.3 | 1,280.0 | 0.00 | 0.00 | 0.00 |
| 9,000.0 | 90.00 | 180.00 | 6,850.0 | -1,380.0 | -2,308.3 | 1,380.0 | 0.00 | 0.00 | 0.00 |
| 9,100.0 | 90.00 | 180.00 | 6,850.0 | -1,480.0 | -2,308.3 | 1,480.0 | 0.00 | 0.00 | 0.00 |
| 9,200.0 | 90.00 | 180.00 | 6,850.0 | -1,580.0 | -2,308.3 | 1,580.0 | 0.00 | 0.00 | 0.00 |
| 9,300.0 | 90.00 | 180.00 | 6,850.0 | -1,680.0 | -2,308.3 | 1,680.0 | 0.00 | 0.00 | 0.00 |
| 9,400.0 | 90.00 | 180.00 | 6,850.0 | -1,780.0 | -2,308.3 | 1,780.0 | 0.00 | 0.00 | 0.00 |
| 9,500.0 | 90.00 | 180.00 | 6,850.0 | -1,880.0 | -2,308.3 | 1,880.0 | 0.00 | 0.00 | 0.00 |
| 9,600.0 | 90.00 | 180.00 | 6,850.0 | -1,980.0 | -2,308.3 | 1,980.0 | 0.00 | 0.00 | 0.00 |
| 9,700.0 | 90.00 | 180.00 | 6,850.0 | -2,080.0 | -2,308.3 | 2,080.0 | 0.00 | 0.00 | 0.00 |
| 9,800.0 | 90.00 | 180.00 | 6,850.0 | -2,180.0 | -2,308.3 | 2,180.0 | 0.00 | 0.00 | 0.00 |
| 9,900.0 | 90.00 | 180.00 | 6,850.0 | -2,280.0 | -2,308.3 | 2,280.0 | 0.00 | 0.00 | 0.00 |
| 10,000.0 | 90.00 | 180.00 | 6,850.0 | -2,380.0 | -2,308.3 | 2,380.0 | 0.00 | 0.00 | 0.00 |
| 10,100.0 | 90.00 | 180.00 | 6,850.0 | -2,480.0 | -2,308.3 | 2,480.0 | 0.00 | 0.00 | 0.00 |
| 10,200.0 | 90.00 | 180.00 | 6,850.0 | -2,580.0 | -2,308.3 | 2,580.0 | 0.00 | 0.00 | 0.00 |
| 10,300.0 | 90.00 | 180.00 | 6,850.0 | -2,680.0 | -2,308.3 | 2,680.0 | 0.00 | 0.00 | 0.00 |
| 10,400.0 | 90.00 | 180.00 | 6,850.0 | -2,780.0 | -2,308.3 | 2,780.0 | 0.00 | 0.00 | 0.00 |
| 10,500.0 | 90.00 | 180.00 | 6,850.0 | -2,880.0 | -2,308.3 | 2,880.0 | 0.00 | 0.00 | 0.00 |
| 10,600.0 | 90.00 | 180.00 | 6,850.0 | -2,980.0 | -2,308.2 | 2,980.0 | 0.00 | 0.00 | 0.00 |
| 10,700.0 | 90.00 | 180.00 | 6,850.0 | -3,080.0 | -2,308.2 | 3,080.0 | 0.00 | 0.00 | 0.00 |
| 10,800.0 | 90.00 | 180.00 | 6,850.0 | -3,180.0 | -2,308.2 | 3,180.0 | 0.00 | 0.00 | 0.00 |
| 10,900.0 | 90.00 | 180.00 | 6,850.0 | -3,280.0 | -2,308.2 | 3,280.0 | 0.00 | 0.00 | 0.00 |
| 11,000.0 | 90.00 | 180.00 | 6,850.0 | -3,380.0 | -2,308.2 | 3,380.0 | 0.00 | 0.00 | 0.00 |
| 11,100.0 | 90.00 | 180.00 | 6,850.0 | -3,480.0 | -2,308.2 | 3,480.0 | 0.00 | 0.00 | 0.00 |
| 11,200.0 | 90.00 | 180.00 | 6,850.0 | -3,580.0 | -2,308.2 | 3,580.0 | 0.00 | 0.00 | 0.00 |
| 11,300.0 | 90.00 | 180.00 | 6,850.0 | -3,680.0 | -2,308.2 | 3,680.0 | 0.00 | 0.00 | 0.00 |
| 11,400.0 | 90.00 | 180.00 | 6,850.0 | -3,780.0 | -2,308.2 | 3,780.0 | 0.00 | 0.00 | 0.00 |
| 11,500.0 | 90.00 | 180.00 | 6,850.0 | -3,880.0 | -2,308.2 | 3,880.0 | 0.00 | 0.00 | 0.00 |

SandRidge Energy

Survey Report

| | | | |
|------------------|-------------------|-------------------------------------|------------------------|
| Company: | SandRidge Energy | Local Co-ordinate Reference: | Well Hebron 0781 5-12H |
| Project: | North Park Basin | TVD Reference: | KB @ 8146.0usft |
| Site: | T8N-R81W-S7 | MD Reference: | KB @ 8146.0usft |
| Well: | Hebron 0781 5-12H | North Reference: | Grid |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Design #1 | Database: | EDMProd |

Planned Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 11,600.0 | 90.00 | 180.00 | 6,850.0 | -3,980.0 | -2,308.2 | 3,980.0 | 0.00 | 0.00 | 0.00 |
| 11,700.0 | 90.00 | 180.00 | 6,850.0 | -4,080.0 | -2,308.2 | 4,080.0 | 0.00 | 0.00 | 0.00 |
| 11,800.0 | 90.00 | 180.00 | 6,850.0 | -4,180.0 | -2,308.2 | 4,180.0 | 0.00 | 0.00 | 0.00 |
| 11,900.0 | 90.00 | 180.00 | 6,850.0 | -4,280.0 | -2,308.2 | 4,280.0 | 0.00 | 0.00 | 0.00 |
| 11,957.9 | 90.00 | 180.00 | 6,850.0 | -4,337.8 | -2,308.2 | 4,337.8 | 0.00 | 0.00 | 0.00 |
| TD at 11957.9 | | | | | | | | | |

Design Targets

| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
|---|---------------|--------------|------------|--------------|--------------|-----------------|----------------|-----------------|------------------|
| Hebron 5-12 - plan hits target center - Point | 0.00 | 360.00 | 6,850.0 | -4,337.8 | -2,308.2 | 1,457,599.83 | 2,740,731.37 | 40° 35' 8.750 N | 106° 26' 0.554 W |

Formations

| Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (°) |
|-----------------------|-----------------------|----------|-----------|---------|-------------------|
| 6,749.1 | 6,380.0 | Niobrara | | 0.00 | |

Plan Annotations

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment |
|-----------------------|-----------------------|-------------------|--------------|--------------------------------|
| | | +N/-S (usft) | +E/-W (usft) | |
| 2800 | 2800 | 0 | 0 | Start Build 2.00 |
| 4190 | 4136 | 47 | -327 | Start 2331.1 hold at 4190.3 MD |
| 6521 | 6198 | 200 | -1404 | Start DLS 8.00 TFO -13.09 |
| 6929 | 6489 | 214 | -1682 | Start 150.0 hold at 6929.2 MD |
| 7079 | 6564 | 214 | -1812 | Start DLS 10.00 TFO -90.00 |
| 7979 | 6850 | -359 | -2308 | Start 3978.7 hold at 7979.2 MD |
| 11,958 | 6850 | -4338 | -2308 | TD at 11957.9 |

Checked By: _____ Approved By: _____ Date: _____