

Company Name: SandRidge Energy

Peters 0781 15-13H12

Jackson County, Colorado

Rig:

Created By: Shane Robbins

Date: 5/08/2018

Peters 0781 15-13H12

Jackson County, Colorado

Q180*** & RM-180***

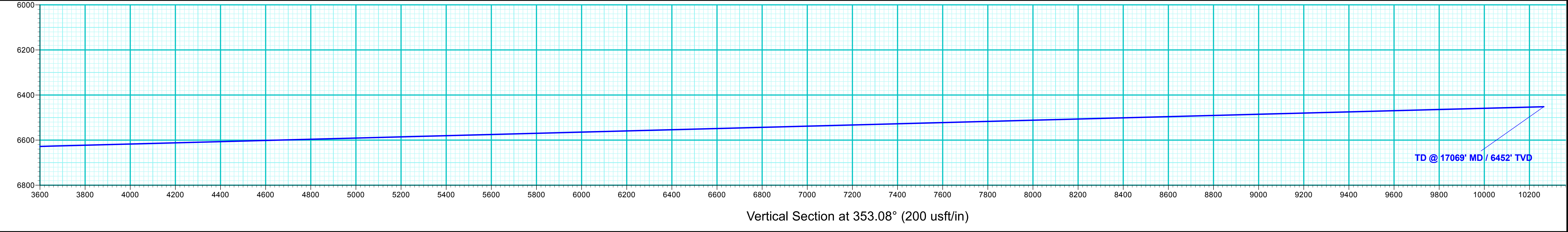
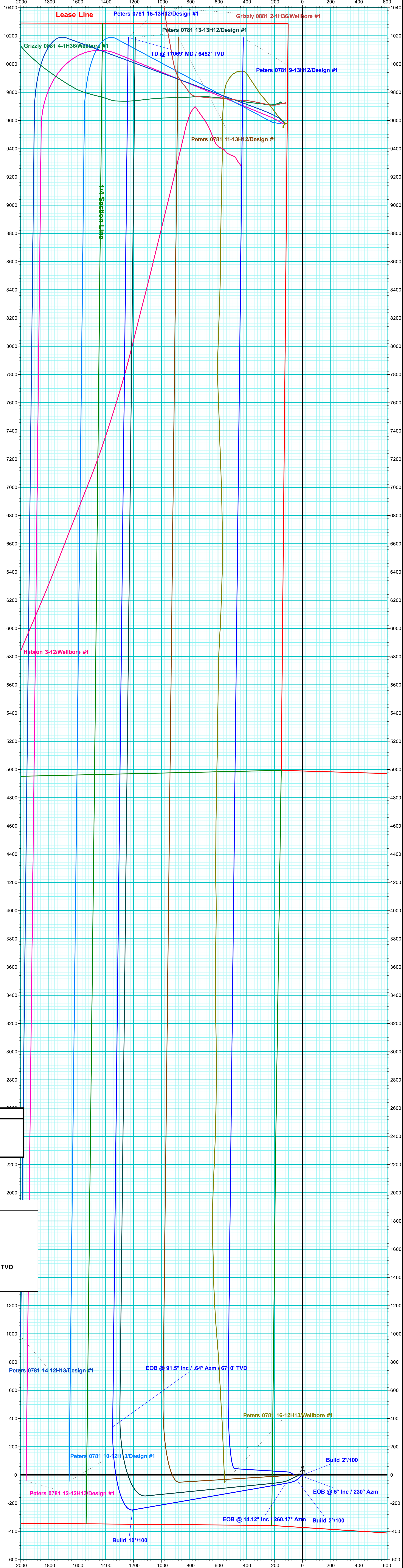
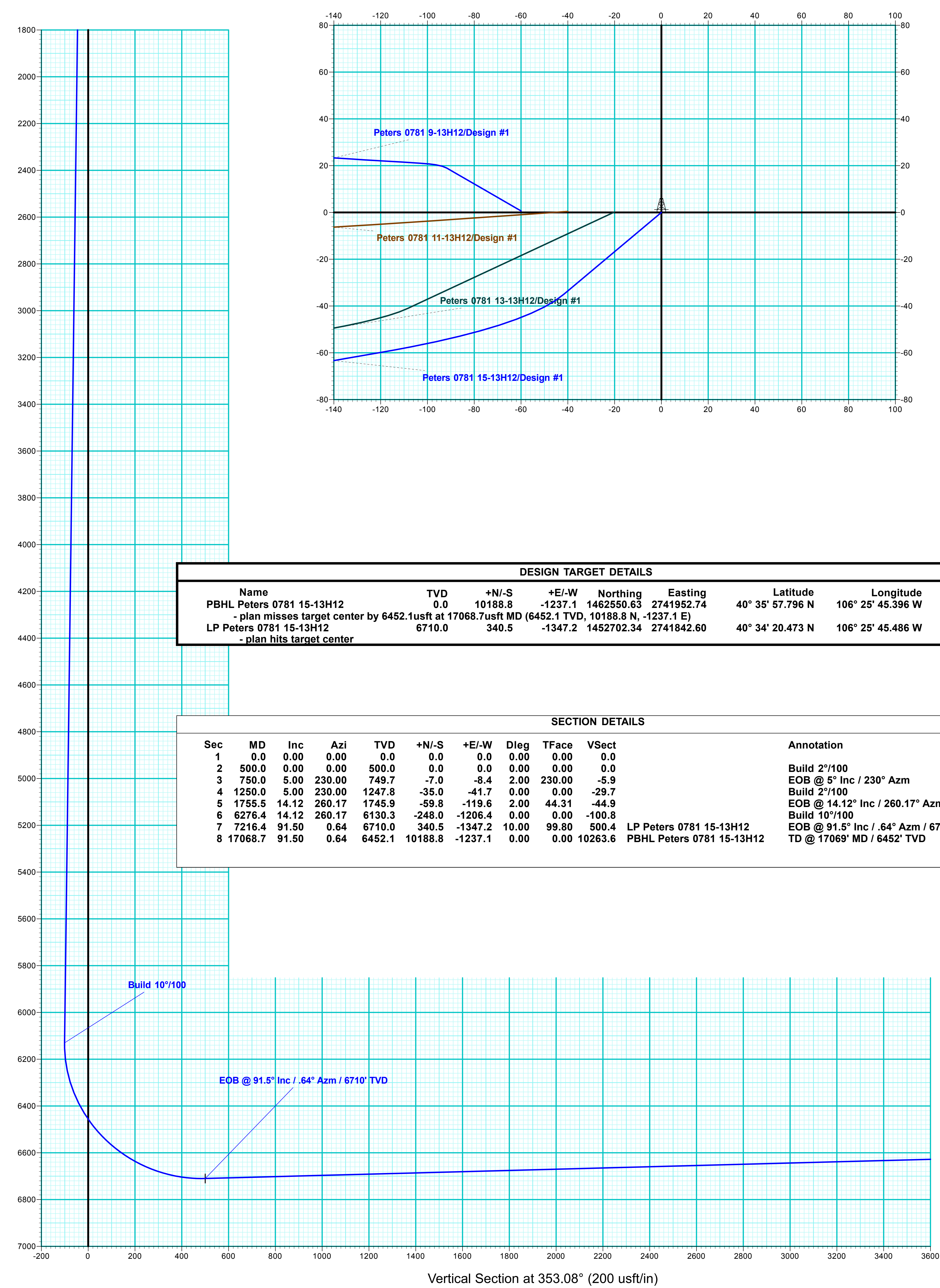
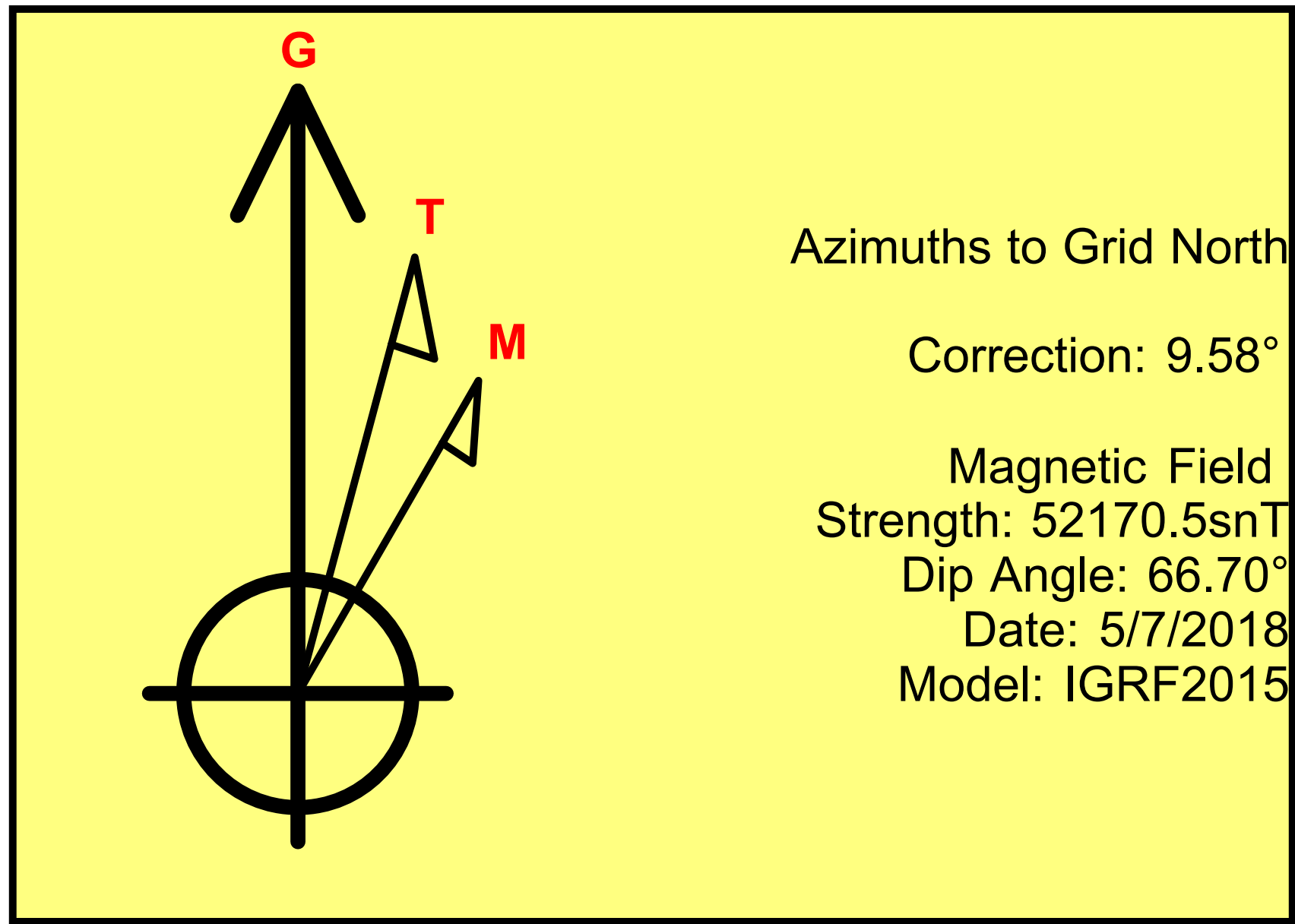
Design #1

SandRidge Energy



| WELL DETAILS: Peters 0781 15-13H12 | | | | | | |
|------------------------------------|-------|------------|------------|------------------|-------------------|--|
| | | | 8207.1 | | | |
| +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | |
| 0.0 | 0.0 | 1452361.83 | 2743189.79 | 40° 34' 17.248 N | 106° 25' 27.983 W | |

| PROJECT DETAILS: Jackson County, Colorado | |
|---|--|
| Geodetic System: US State Plane 1983 | |
| Datum: North American Datum 1983 | |
| Ellipsoid: GRS 1980 | |
| Zone: Colorado Northern Zone | |
| System Datum: Mean Sea Level | |



SandRidge Energy

**Jackson County, Colorado
Sec 18, T7N, R80W, 6th PM
Peters 0781 15-13H12**

Wellbore #1

Plan: Design #1

QES Well Planning Report

09 May, 2018



Well Planning Report



| | | | |
|------------------|---------------------------|-------------------------------------|---------------------------|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well Peters 0781 15-13H12 |
| Company: | SandRidge Energy | TVD Reference: | WELL @ 8232.1usft |
| Project: | Jackson County, Colorado | MD Reference: | WELL @ 8232.1usft |
| Site: | Sec 18, T7N, R80W, 6th PM | North Reference: | Grid |
| Well: | Peters 0781 15-13H12 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 | | |

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

| | | | | | |
|-----------------------|----------|---------------------------|-------------------|-------------------|-------------------|
| Site | | Sec 18, T7N, R80W, 6th PM | | | |
| Site Position: | | Northing: | 1,452,362.47 usft | Latitude: | 40° 34' 17.248 N |
| From: | Map | Easting: | 2,743,129.82 usft | Longitude: | 106° 25' 28.760 W |
| Position Uncertainty: | 0.0 usft | Slot Radius: | 13-3/16 " | Grid Convergence: | -0.60 ° |

| Well | Peters 0781 15-13H12 | | | | | |
|----------------------|----------------------|-----------|---------------------|-------------------|---------------|-------------------|
| Well Position | +N/-S | -0.6 usft | Northing: | 1,452,361.83 usft | Latitude: | 40° 34' 17.248 N |
| | +E/-W | 60.0 usft | Easting: | 2,743,189.79 usft | Longitude: | 106° 25' 27.983 W |
| Position Uncertainty | | 0.0 usft | Wellhead Elevation: | | Ground Level: | 8,207.1 usft |

| | | | | | |
|-----------|-------------|-------------|-----------------|---------------|---------------------|
| Wellbore | Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2015 | 5/7/2018 | 8.99 | 66.70 | 52,170.54790713 |

| | | | | |
|-------------------|----------------------------|-----------------|-----------------|------------------|
| Design | Design #1 | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PLAN | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) |
| | 0.0 | 0.0 | 0.0 | 353.08 |

| Plan Sections | | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|--------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 500.0 | 0.00 | 0.00 | 500.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 750.0 | 5.00 | 230.00 | 749.7 | -7.0 | -8.4 | 2.00 | 2.00 | 0.00 | 230.00 | |
| 1,250.0 | 5.00 | 230.00 | 1,247.8 | -35.0 | -41.7 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,755.5 | 14.12 | 260.17 | 1,745.9 | -59.8 | -119.6 | 2.00 | 1.80 | 5.97 | 44.31 | |
| 6,276.4 | 14.12 | 260.17 | 6,130.3 | -248.0 | -1,206.4 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,216.4 | 91.50 | 0.64 | 6,710.0 | 340.5 | -1,347.2 | 10.00 | 8.23 | 10.69 | 99.80 | LP Peters 0781 15- |
| 17,068.7 | 91.50 | 0.64 | 6,452.1 | 10,188.8 | -1,237.1 | 0.00 | 0.00 | 0.00 | 0.00 | PBHL Peters 0781 |

Well Planning Report



| | | | |
|------------------|---------------------------|-------------------------------------|---------------------------|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well Peters 0781 15-13H12 |
| Company: | SandRidge Energy | TVD Reference: | WELL @ 8232.1usft |
| Project: | Jackson County, Colorado | MD Reference: | WELL @ 8232.1usft |
| Site: | Sec 18, T7N, R80W, 6th PM | North Reference: | Grid |
| Well: | Peters 0781 15-13H12 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 | | |

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 |
| Build 2°/100 | | | | | | | | | |
| 500.0 | 0.00 | 0.00 | 500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 600.0 | 2.00 | 230.00 | 600.0 | -1.1 | -1.3 | -1.0 | 2.00 | 2.00 | 0.00 |
| 700.0 | 4.00 | 230.00 | 699.8 | -4.5 | -5.3 | -3.8 | 2.00 | 2.00 | 0.00 |
| EOB @ 5° Inc / 230° Azm | | | | | | | | | |
| 750.0 | 5.00 | 230.00 | 749.7 | -7.0 | -8.4 | -5.9 | 2.00 | 2.00 | 0.00 |
| 800.0 | 5.00 | 230.00 | 799.5 | -9.8 | -11.7 | -8.3 | 0.00 | 0.00 | 0.00 |
| 900.0 | 5.00 | 230.00 | 899.1 | -15.4 | -18.4 | -13.1 | 0.00 | 0.00 | 0.00 |
| 1,000.0 | 5.00 | 230.00 | 998.7 | -21.0 | -25.0 | -17.8 | 0.00 | 0.00 | 0.00 |
| 1,100.0 | 5.00 | 230.00 | 1,098.4 | -26.6 | -31.7 | -22.6 | 0.00 | 0.00 | 0.00 |
| 1,200.0 | 5.00 | 230.00 | 1,198.0 | -32.2 | -38.4 | -27.4 | 0.00 | 0.00 | 0.00 |
| Build 2°/100 | | | | | | | | | |
| 1,250.0 | 5.00 | 230.00 | 1,247.8 | -35.0 | -41.7 | -29.7 | 0.00 | 0.00 | 0.00 |
| 1,300.0 | 5.76 | 236.98 | 1,297.6 | -37.8 | -45.5 | -32.0 | 2.00 | 1.52 | 13.96 |
| 1,400.0 | 7.45 | 246.38 | 1,396.9 | -43.1 | -55.7 | -36.1 | 2.00 | 1.69 | 9.41 |
| 1,500.0 | 9.26 | 252.23 | 1,495.8 | -48.2 | -69.3 | -39.5 | 2.00 | 1.81 | 5.85 |
| 1,600.0 | 11.14 | 256.15 | 1,594.2 | -52.9 | -86.3 | -42.1 | 2.00 | 1.88 | 3.92 |
| 1,700.0 | 13.05 | 258.95 | 1,692.0 | -57.4 | -106.8 | -44.1 | 2.00 | 1.91 | 2.79 |
| EOB @ 14.12° Inc / 260.17° Azm | | | | | | | | | |
| 1,755.5 | 14.12 | 260.17 | 1,745.9 | -59.8 | -119.6 | -44.9 | 2.00 | 1.93 | 2.21 |
| 1,800.0 | 14.12 | 260.17 | 1,789.1 | -61.6 | -130.3 | -45.5 | 0.00 | 0.00 | 0.00 |
| 1,900.0 | 14.12 | 260.17 | 1,886.1 | -65.8 | -154.3 | -46.7 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 14.12 | 260.17 | 1,983.1 | -70.0 | -178.3 | -47.9 | 0.00 | 0.00 | 0.00 |
| 2,100.0 | 14.12 | 260.17 | 2,080.1 | -74.1 | -202.4 | -49.2 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 14.12 | 260.17 | 2,177.0 | -78.3 | -226.4 | -50.4 | 0.00 | 0.00 | 0.00 |
| 2,300.0 | 14.12 | 260.17 | 2,274.0 | -82.4 | -250.5 | -51.7 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 14.12 | 260.17 | 2,371.0 | -86.6 | -274.5 | -52.9 | 0.00 | 0.00 | 0.00 |
| 2,500.0 | 14.12 | 260.17 | 2,468.0 | -90.8 | -298.5 | -54.1 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 14.12 | 260.17 | 2,565.0 | -94.9 | -322.6 | -55.4 | 0.00 | 0.00 | 0.00 |
| 2,700.0 | 14.12 | 260.17 | 2,661.9 | -99.1 | -346.6 | -56.6 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 14.12 | 260.17 | 2,758.9 | -103.3 | -370.7 | -57.8 | 0.00 | 0.00 | 0.00 |
| 2,900.0 | 14.12 | 260.17 | 2,855.9 | -107.4 | -394.7 | -59.1 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 14.12 | 260.17 | 2,952.9 | -111.6 | -418.7 | -60.3 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 14.12 | 260.17 | 3,049.8 | -115.8 | -442.8 | -61.6 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 14.12 | 260.17 | 3,146.8 | -119.9 | -466.8 | -62.8 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 14.12 | 260.17 | 3,243.8 | -124.1 | -490.9 | -64.0 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 14.12 | 260.17 | 3,340.8 | -128.3 | -514.9 | -65.3 | 0.00 | 0.00 | 0.00 |
| 3,500.0 | 14.12 | 260.17 | 3,437.8 | -132.4 | -538.9 | -66.5 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 14.12 | 260.17 | 3,534.7 | -136.6 | -563.0 | -67.7 | 0.00 | 0.00 | 0.00 |
| 3,700.0 | 14.12 | 260.17 | 3,631.7 | -140.7 | -587.0 | -69.0 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 14.12 | 260.17 | 3,728.7 | -144.9 | -611.1 | -70.2 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 14.12 | 260.17 | 3,825.7 | -149.1 | -635.1 | -71.4 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 14.12 | 260.17 | 3,922.6 | -153.2 | -659.1 | -72.7 | 0.00 | 0.00 | 0.00 |
| 4,100.0 | 14.12 | 260.17 | 4,019.6 | -157.4 | -683.2 | -73.9 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 14.12 | 260.17 | 4,116.6 | -161.6 | -707.2 | -75.2 | 0.00 | 0.00 | 0.00 |
| 4,300.0 | 14.12 | 260.17 | 4,213.6 | -165.7 | -731.3 | -76.4 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 14.12 | 260.17 | 4,310.6 | -169.9 | -755.3 | -77.6 | 0.00 | 0.00 | 0.00 |
| 4,500.0 | 14.12 | 260.17 | 4,407.5 | -174.1 | -779.3 | -78.9 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 14.12 | 260.17 | 4,504.5 | -178.2 | -803.4 | -80.1 | 0.00 | 0.00 | 0.00 |

Well Planning Report



| | | | |
|------------------|---------------------------|-------------------------------------|---------------------------|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well Peters 0781 15-13H12 |
| Company: | SandRidge Energy | TVD Reference: | WELL @ 8232.1usft |
| Project: | Jackson County, Colorado | MD Reference: | WELL @ 8232.1usft |
| Site: | Sec 18, T7N, R80W, 6th PM | North Reference: | Grid |
| Well: | Peters 0781 15-13H12 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 | | |

| 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) |
| 4,700.0 | 14.12 | 260.17 | 4,601.5 | -182.4 | -827.4 | -81.3 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 14.12 | 260.17 | 4,698.5 | -186.6 | -851.4 | -82.6 | 0.00 | 0.00 | 0.00 |
| 4,900.0 | 14.12 | 260.17 | 4,795.5 | -190.7 | -875.5 | -83.8 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 14.12 | 260.17 | 4,892.4 | -194.9 | -899.5 | -85.1 | 0.00 | 0.00 | 0.00 |
| 5,100.0 | 14.12 | 260.17 | 4,989.4 | -199.1 | -923.6 | -86.3 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 14.12 | 260.17 | 5,086.4 | -203.2 | -947.6 | -87.5 | 0.00 | 0.00 | 0.00 |
| 5,300.0 | 14.12 | 260.17 | 5,183.4 | -207.4 | -971.6 | -88.8 | 0.00 | 0.00 | 0.00 |
| 5,400.0 | 14.12 | 260.17 | 5,280.3 | -211.5 | -995.7 | -90.0 | 0.00 | 0.00 | 0.00 |
| 5,500.0 | 14.12 | 260.17 | 5,377.3 | -215.7 | -1,019.7 | -91.2 | 0.00 | 0.00 | 0.00 |
| 5,600.0 | 14.12 | 260.17 | 5,474.3 | -219.9 | -1,043.8 | -92.5 | 0.00 | 0.00 | 0.00 |
| 5,700.0 | 14.12 | 260.17 | 5,571.3 | -224.0 | -1,067.8 | -93.7 | 0.00 | 0.00 | 0.00 |
| 5,800.0 | 14.12 | 260.17 | 5,668.3 | -228.2 | -1,091.8 | -94.9 | 0.00 | 0.00 | 0.00 |
| 5,900.0 | 14.12 | 260.17 | 5,765.2 | -232.4 | -1,115.9 | -96.2 | 0.00 | 0.00 | 0.00 |
| 6,000.0 | 14.12 | 260.17 | 5,862.2 | -236.5 | -1,139.9 | -97.4 | 0.00 | 0.00 | 0.00 |
| 6,100.0 | 14.12 | 260.17 | 5,959.2 | -240.7 | -1,164.0 | -98.7 | 0.00 | 0.00 | 0.00 |
| 6,200.0 | 14.12 | 260.17 | 6,056.2 | -244.9 | -1,188.0 | -99.9 | 0.00 | 0.00 | 0.00 |
| Build 10°/100 | | | | | | | | | |
| 6,276.4 | 14.12 | 260.17 | 6,130.3 | -248.0 | -1,206.4 | -100.8 | 0.00 | 0.00 | 0.00 |
| 6,300.0 | 13.91 | 269.89 | 6,153.2 | -248.5 | -1,212.0 | -100.6 | 10.00 | -0.89 | 41.17 |
| 6,350.0 | 14.74 | 289.93 | 6,201.6 | -246.4 | -1,224.0 | -97.1 | 10.00 | 1.65 | 40.08 |
| 6,400.0 | 17.02 | 306.27 | 6,249.7 | -239.9 | -1,235.9 | -89.2 | 10.00 | 4.57 | 32.69 |
| 6,450.0 | 20.28 | 318.19 | 6,297.1 | -229.1 | -1,247.6 | -77.0 | 10.00 | 6.52 | 23.83 |
| 6,500.0 | 24.12 | 326.69 | 6,343.4 | -214.1 | -1,259.0 | -60.8 | 10.00 | 7.68 | 17.01 |
| 6,550.0 | 28.31 | 332.90 | 6,388.3 | -195.0 | -1,270.0 | -40.5 | 10.00 | 8.37 | 12.41 |
| 6,600.0 | 32.71 | 337.59 | 6,431.4 | -171.9 | -1,280.6 | -16.3 | 10.00 | 8.80 | 9.38 |
| 6,650.0 | 37.25 | 341.26 | 6,472.3 | -145.1 | -1,290.6 | 11.5 | 10.00 | 9.07 | 7.35 |
| 6,700.0 | 41.88 | 344.23 | 6,510.9 | -114.7 | -1,300.0 | 42.9 | 10.00 | 9.26 | 5.95 |
| 6,750.0 | 46.57 | 346.71 | 6,546.7 | -80.9 | -1,308.7 | 77.4 | 10.00 | 9.39 | 4.95 |
| 6,800.0 | 51.31 | 348.83 | 6,579.5 | -44.1 | -1,316.7 | 114.9 | 10.00 | 9.48 | 4.24 |
| 6,850.0 | 56.08 | 350.68 | 6,609.1 | -4.4 | -1,323.8 | 155.1 | 10.00 | 9.54 | 3.71 |
| 6,900.0 | 60.88 | 352.34 | 6,635.2 | 37.7 | -1,330.1 | 197.7 | 10.00 | 9.59 | 3.31 |
| 6,950.0 | 65.69 | 353.85 | 6,657.7 | 82.0 | -1,335.5 | 242.4 | 10.00 | 9.63 | 3.02 |
| 7,000.0 | 70.52 | 355.24 | 6,676.4 | 128.2 | -1,339.9 | 288.8 | 10.00 | 9.66 | 2.79 |
| 7,050.0 | 75.36 | 356.56 | 6,691.0 | 175.9 | -1,343.3 | 336.5 | 10.00 | 9.68 | 2.63 |
| 7,100.0 | 80.21 | 357.82 | 6,701.6 | 224.7 | -1,345.7 | 385.2 | 10.00 | 9.69 | 2.52 |
| 7,150.0 | 85.06 | 359.04 | 6,708.0 | 274.2 | -1,347.0 | 434.6 | 10.00 | 9.70 | 2.45 |
| 7,200.0 | 89.91 | 0.25 | 6,710.2 | 324.1 | -1,347.3 | 484.2 | 10.00 | 9.71 | 2.41 |
| EOB @ 91.5° Inc / .64° Azm / 6710' TVD | | | | | | | | | |
| 7,216.4 | 91.50 | 0.64 | 6,710.0 | 340.5 | -1,347.2 | 500.4 | 10.00 | 9.71 | 2.40 |
| 7,300.0 | 91.50 | 0.64 | 6,707.8 | 424.1 | -1,346.3 | 583.3 | 0.00 | 0.00 | 0.00 |
| 7,400.0 | 91.50 | 0.64 | 6,705.2 | 524.1 | -1,345.1 | 682.4 | 0.00 | 0.00 | 0.00 |
| 7,500.0 | 91.50 | 0.64 | 6,702.6 | 624.0 | -1,344.0 | 781.5 | 0.00 | 0.00 | 0.00 |
| 7,600.0 | 91.50 | 0.64 | 6,700.0 | 724.0 | -1,342.9 | 880.6 | 0.00 | 0.00 | 0.00 |
| 7,700.0 | 91.50 | 0.64 | 6,697.3 | 823.9 | -1,341.8 | 979.7 | 0.00 | 0.00 | 0.00 |
| 7,800.0 | 91.50 | 0.64 | 6,694.7 | 923.9 | -1,340.7 | 1,078.8 | 0.00 | 0.00 | 0.00 |
| 7,900.0 | 91.50 | 0.64 | 6,692.1 | 1,023.9 | -1,339.5 | 1,177.8 | 0.00 | 0.00 | 0.00 |
| 8,000.0 | 91.50 | 0.64 | 6,689.5 | 1,123.8 | -1,338.4 | 1,276.9 | 0.00 | 0.00 | 0.00 |
| 8,100.0 | 91.50 | 0.64 | 6,686.9 | 1,223.8 | -1,337.3 | 1,376.0 | 0.00 | 0.00 | 0.00 |
| 8,200.0 | 91.50 | 0.64 | 6,684.3 | 1,323.7 | -1,336.2 | 1,475.1 | 0.00 | 0.00 | 0.00 |
| 8,300.0 | 91.50 | 0.64 | 6,681.6 | 1,423.7 | -1,335.1 | 1,574.2 | 0.00 | 0.00 | 0.00 |
| 8,400.0 | 91.50 | 0.64 | 6,679.0 | 1,523.7 | -1,334.0 | 1,673.3 | 0.00 | 0.00 | 0.00 |
| 8,500.0 | 91.50 | 0.64 | 6,676.4 | 1,623.6 | -1,332.8 | 1,772.4 | 0.00 | 0.00 | 0.00 |
| 8,600.0 | 91.50 | 0.64 | 6,673.8 | 1,723.6 | -1,331.7 | 1,871.5 | 0.00 | 0.00 | 0.00 |

Well Planning Report



| | | | |
|------------------|---------------------------|-------------------------------------|---------------------------|
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| Company: | SandRidge Energy | TVD Reference: | WELL @ 8232.1usft |
| Project: | Jackson County, Colorado | MD Reference: | WELL @ 8232.1usft |
| Site: | Sec 18, T7N, R80W, 6th PM | North Reference: | Grid |
| Well: | Peters 0781 15-13H12 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 | | |

| 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) |
| 8,700.0 | 91.50 | 0.64 | 6,671.2 | 1,823.5 | -1,330.6 | 1,970.6 | 0.00 | 0.00 | 0.00 |
| 8,800.0 | 91.50 | 0.64 | 6,668.5 | 1,923.5 | -1,329.5 | 2,069.7 | 0.00 | 0.00 | 0.00 |
| 8,900.0 | 91.50 | 0.64 | 6,665.9 | 2,023.5 | -1,328.4 | 2,168.8 | 0.00 | 0.00 | 0.00 |
| 9,000.0 | 91.50 | 0.64 | 6,663.3 | 2,123.4 | -1,327.3 | 2,267.9 | 0.00 | 0.00 | 0.00 |
| 9,100.0 | 91.50 | 0.64 | 6,660.7 | 2,223.4 | -1,326.1 | 2,367.0 | 0.00 | 0.00 | 0.00 |
| 9,200.0 | 91.50 | 0.64 | 6,658.1 | 2,323.3 | -1,325.0 | 2,466.1 | 0.00 | 0.00 | 0.00 |
| 9,300.0 | 91.50 | 0.64 | 6,655.5 | 2,423.3 | -1,323.9 | 2,565.2 | 0.00 | 0.00 | 0.00 |
| 9,400.0 | 91.50 | 0.64 | 6,652.8 | 2,523.3 | -1,322.8 | 2,664.3 | 0.00 | 0.00 | 0.00 |
| 9,500.0 | 91.50 | 0.64 | 6,650.2 | 2,623.2 | -1,321.7 | 2,763.4 | 0.00 | 0.00 | 0.00 |
| 9,600.0 | 91.50 | 0.64 | 6,647.6 | 2,723.2 | -1,320.5 | 2,862.5 | 0.00 | 0.00 | 0.00 |
| 9,700.0 | 91.50 | 0.64 | 6,645.0 | 2,823.1 | -1,319.4 | 2,961.6 | 0.00 | 0.00 | 0.00 |
| 9,800.0 | 91.50 | 0.64 | 6,642.4 | 2,923.1 | -1,318.3 | 3,060.7 | 0.00 | 0.00 | 0.00 |
| 9,900.0 | 91.50 | 0.64 | 6,639.8 | 3,023.1 | -1,317.2 | 3,159.8 | 0.00 | 0.00 | 0.00 |
| 10,000.0 | 91.50 | 0.64 | 6,637.1 | 3,123.0 | -1,316.1 | 3,258.9 | 0.00 | 0.00 | 0.00 |
| 10,100.0 | 91.50 | 0.64 | 6,634.5 | 3,223.0 | -1,315.0 | 3,358.0 | 0.00 | 0.00 | 0.00 |
| 10,200.0 | 91.50 | 0.64 | 6,631.9 | 3,322.9 | -1,313.8 | 3,457.1 | 0.00 | 0.00 | 0.00 |
| 10,300.0 | 91.50 | 0.64 | 6,629.3 | 3,422.9 | -1,312.7 | 3,556.2 | 0.00 | 0.00 | 0.00 |
| 10,400.0 | 91.50 | 0.64 | 6,626.7 | 3,522.8 | -1,311.6 | 3,655.3 | 0.00 | 0.00 | 0.00 |
| 10,500.0 | 91.50 | 0.64 | 6,624.0 | 3,622.8 | -1,310.5 | 3,754.3 | 0.00 | 0.00 | 0.00 |
| 10,600.0 | 91.50 | 0.64 | 6,621.4 | 3,722.8 | -1,309.4 | 3,853.4 | 0.00 | 0.00 | 0.00 |
| 10,700.0 | 91.50 | 0.64 | 6,618.8 | 3,822.7 | -1,308.2 | 3,952.5 | 0.00 | 0.00 | 0.00 |
| 10,800.0 | 91.50 | 0.64 | 6,616.2 | 3,922.7 | -1,307.1 | 4,051.6 | 0.00 | 0.00 | 0.00 |
| 10,900.0 | 91.50 | 0.64 | 6,613.6 | 4,022.6 | -1,306.0 | 4,150.7 | 0.00 | 0.00 | 0.00 |
| 11,000.0 | 91.50 | 0.64 | 6,611.0 | 4,122.6 | -1,304.9 | 4,249.8 | 0.00 | 0.00 | 0.00 |
| 11,100.0 | 91.50 | 0.64 | 6,608.3 | 4,222.6 | -1,303.8 | 4,348.9 | 0.00 | 0.00 | 0.00 |
| 11,200.0 | 91.50 | 0.64 | 6,605.7 | 4,322.5 | -1,302.7 | 4,448.0 | 0.00 | 0.00 | 0.00 |
| 11,300.0 | 91.50 | 0.64 | 6,603.1 | 4,422.5 | -1,301.5 | 4,547.1 | 0.00 | 0.00 | 0.00 |
| 11,400.0 | 91.50 | 0.64 | 6,600.5 | 4,522.4 | -1,300.4 | 4,646.2 | 0.00 | 0.00 | 0.00 |
| 11,500.0 | 91.50 | 0.64 | 6,597.9 | 4,622.4 | -1,299.3 | 4,745.3 | 0.00 | 0.00 | 0.00 |
| 11,600.0 | 91.50 | 0.64 | 6,595.2 | 4,722.4 | -1,298.2 | 4,844.4 | 0.00 | 0.00 | 0.00 |
| 11,700.0 | 91.50 | 0.64 | 6,592.6 | 4,822.3 | -1,297.1 | 4,943.5 | 0.00 | 0.00 | 0.00 |
| 11,800.0 | 91.50 | 0.64 | 6,590.0 | 4,922.3 | -1,296.0 | 5,042.6 | 0.00 | 0.00 | 0.00 |
| 11,900.0 | 91.50 | 0.64 | 6,587.4 | 5,022.2 | -1,294.8 | 5,141.7 | 0.00 | 0.00 | 0.00 |
| 12,000.0 | 91.50 | 0.64 | 6,584.8 | 5,122.2 | -1,293.7 | 5,240.8 | 0.00 | 0.00 | 0.00 |
| 12,100.0 | 91.50 | 0.64 | 6,582.2 | 5,222.2 | -1,292.6 | 5,339.9 | 0.00 | 0.00 | 0.00 |
| 12,200.0 | 91.50 | 0.64 | 6,579.5 | 5,322.1 | -1,291.5 | 5,439.0 | 0.00 | 0.00 | 0.00 |
| 12,300.0 | 91.50 | 0.64 | 6,576.9 | 5,422.1 | -1,290.4 | 5,538.1 | 0.00 | 0.00 | 0.00 |
| 12,400.0 | 91.50 | 0.64 | 6,574.3 | 5,522.0 | -1,289.2 | 5,637.2 | 0.00 | 0.00 | 0.00 |
| 12,500.0 | 91.50 | 0.64 | 6,571.7 | 5,622.0 | -1,288.1 | 5,736.3 | 0.00 | 0.00 | 0.00 |
| 12,600.0 | 91.50 | 0.64 | 6,569.1 | 5,722.0 | -1,287.0 | 5,835.4 | 0.00 | 0.00 | 0.00 |
| 12,700.0 | 91.50 | 0.64 | 6,566.5 | 5,821.9 | -1,285.9 | 5,934.5 | 0.00 | 0.00 | 0.00 |
| 12,800.0 | 91.50 | 0.64 | 6,563.8 | 5,921.9 | -1,284.8 | 6,033.6 | 0.00 | 0.00 | 0.00 |
| 12,900.0 | 91.50 | 0.64 | 6,561.2 | 6,021.8 | -1,283.7 | 6,132.7 | 0.00 | 0.00 | 0.00 |
| 13,000.0 | 91.50 | 0.64 | 6,558.6 | 6,121.8 | -1,282.5 | 6,231.7 | 0.00 | 0.00 | 0.00 |
| 13,100.0 | 91.50 | 0.64 | 6,556.0 | 6,221.8 | -1,281.4 | 6,330.8 | 0.00 | 0.00 | 0.00 |
| 13,200.0 | 91.50 | 0.64 | 6,553.4 | 6,321.7 | -1,280.3 | 6,429.9 | 0.00 | 0.00 | 0.00 |
| 13,300.0 | 91.50 | 0.64 | 6,550.7 | 6,421.7 | -1,279.2 | 6,529.0 | 0.00 | 0.00 | 0.00 |
| 13,400.0 | 91.50 | 0.64 | 6,548.1 | 6,521.6 | -1,278.1 | 6,628.1 | 0.00 | 0.00 | 0.00 |
| 13,500.0 | 91.50 | 0.64 | 6,545.5 | 6,621.6 | -1,276.9 | 6,727.2 | 0.00 | 0.00 | 0.00 |
| 13,600.0 | 91.50 | 0.64 | 6,542.9 | 6,721.6 | -1,275.8 | 6,826.3 | 0.00 | 0.00 | 0.00 |
| 13,700.0 | 91.50 | 0.64 | 6,540.3 | 6,821.5 | -1,274.7 | 6,925.4 | 0.00 | 0.00 | 0.00 |
| 13,800.0 | 91.50 | 0.64 | 6,537.7 | 6,921.5 | -1,273.6 | 7,024.5 | 0.00 | 0.00 | 0.00 |
| 13,900.0 | 91.50 | 0.64 | 6,535.0 | 7,021.4 | -1,272.5 | 7,123.6 | 0.00 | 0.00 | 0.00 |
| 14,000.0 | 91.50 | 0.64 | 6,532.4 | 7,121.4 | -1,271.4 | 7,222.7 | 0.00 | 0.00 | 0.00 |

Well Planning Report



| | | | |
|------------------|---------------------------|-------------------------------------|---------------------------|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well Peters 0781 15-13H12 |
| Company: | SandRidge Energy | TVD Reference: | WELL @ 8232.1usft |
| Project: | Jackson County, Colorado | MD Reference: | WELL @ 8232.1usft |
| Site: | Sec 18, T7N, R80W, 6th PM | North Reference: | Grid |
| Well: | Peters 0781 15-13H12 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 | | |

| 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) |
| 14,100.0 | 91.50 | 0.64 | 6,529.8 | 7,221.3 | -1,270.2 | 7,321.8 | 0.00 | 0.00 | 0.00 |
| 14,200.0 | 91.50 | 0.64 | 6,527.2 | 7,321.3 | -1,269.1 | 7,420.9 | 0.00 | 0.00 | 0.00 |
| 14,300.0 | 91.50 | 0.64 | 6,524.6 | 7,421.3 | -1,268.0 | 7,520.0 | 0.00 | 0.00 | 0.00 |
| 14,400.0 | 91.50 | 0.64 | 6,522.0 | 7,521.2 | -1,266.9 | 7,619.1 | 0.00 | 0.00 | 0.00 |
| 14,500.0 | 91.50 | 0.64 | 6,519.3 | 7,621.2 | -1,265.8 | 7,718.2 | 0.00 | 0.00 | 0.00 |
| 14,600.0 | 91.50 | 0.64 | 6,516.7 | 7,721.1 | -1,264.6 | 7,817.3 | 0.00 | 0.00 | 0.00 |
| 14,700.0 | 91.50 | 0.64 | 6,514.1 | 7,821.1 | -1,263.5 | 7,916.4 | 0.00 | 0.00 | 0.00 |
| 14,800.0 | 91.50 | 0.64 | 6,511.5 | 7,921.1 | -1,262.4 | 8,015.5 | 0.00 | 0.00 | 0.00 |
| 14,900.0 | 91.50 | 0.64 | 6,508.9 | 8,021.0 | -1,261.3 | 8,114.6 | 0.00 | 0.00 | 0.00 |
| 15,000.0 | 91.50 | 0.64 | 6,506.2 | 8,121.0 | -1,260.2 | 8,213.7 | 0.00 | 0.00 | 0.00 |
| 15,100.0 | 91.50 | 0.64 | 6,503.6 | 8,220.9 | -1,259.1 | 8,312.8 | 0.00 | 0.00 | 0.00 |
| 15,200.0 | 91.50 | 0.64 | 6,501.0 | 8,320.9 | -1,257.9 | 8,411.9 | 0.00 | 0.00 | 0.00 |
| 15,300.0 | 91.50 | 0.64 | 6,498.4 | 8,420.9 | -1,256.8 | 8,511.0 | 0.00 | 0.00 | 0.00 |
| 15,400.0 | 91.50 | 0.64 | 6,495.8 | 8,520.8 | -1,255.7 | 8,610.1 | 0.00 | 0.00 | 0.00 |
| 15,500.0 | 91.50 | 0.64 | 6,493.2 | 8,620.8 | -1,254.6 | 8,709.1 | 0.00 | 0.00 | 0.00 |
| 15,600.0 | 91.50 | 0.64 | 6,490.5 | 8,720.7 | -1,253.5 | 8,808.2 | 0.00 | 0.00 | 0.00 |
| 15,700.0 | 91.50 | 0.64 | 6,487.9 | 8,820.7 | -1,252.4 | 8,907.3 | 0.00 | 0.00 | 0.00 |
| 15,800.0 | 91.50 | 0.64 | 6,485.3 | 8,920.7 | -1,251.2 | 9,006.4 | 0.00 | 0.00 | 0.00 |
| 15,900.0 | 91.50 | 0.64 | 6,482.7 | 9,020.6 | -1,250.1 | 9,105.5 | 0.00 | 0.00 | 0.00 |
| 16,000.0 | 91.50 | 0.64 | 6,480.1 | 9,120.6 | -1,249.0 | 9,204.6 | 0.00 | 0.00 | 0.00 |
| 16,100.0 | 91.50 | 0.64 | 6,477.5 | 9,220.5 | -1,247.9 | 9,303.7 | 0.00 | 0.00 | 0.00 |
| 16,200.0 | 91.50 | 0.64 | 6,474.8 | 9,320.5 | -1,246.8 | 9,402.8 | 0.00 | 0.00 | 0.00 |
| 16,300.0 | 91.50 | 0.64 | 6,472.2 | 9,420.5 | -1,245.6 | 9,501.9 | 0.00 | 0.00 | 0.00 |
| 16,400.0 | 91.50 | 0.64 | 6,469.6 | 9,520.4 | -1,244.5 | 9,601.0 | 0.00 | 0.00 | 0.00 |
| 16,500.0 | 91.50 | 0.64 | 6,467.0 | 9,620.4 | -1,243.4 | 9,700.1 | 0.00 | 0.00 | 0.00 |
| 16,600.0 | 91.50 | 0.64 | 6,464.4 | 9,720.3 | -1,242.3 | 9,799.2 | 0.00 | 0.00 | 0.00 |
| 16,700.0 | 91.50 | 0.64 | 6,461.7 | 9,820.3 | -1,241.2 | 9,898.3 | 0.00 | 0.00 | 0.00 |
| 16,800.0 | 91.50 | 0.64 | 6,459.1 | 9,920.3 | -1,240.1 | 9,997.4 | 0.00 | 0.00 | 0.00 |
| 16,900.0 | 91.50 | 0.64 | 6,456.5 | 10,020.2 | -1,238.9 | 10,096.5 | 0.00 | 0.00 | 0.00 |
| 17,000.0 | 91.50 | 0.64 | 6,453.9 | 10,120.2 | -1,237.8 | 10,195.6 | 0.00 | 0.00 | 0.00 |
| TD @ 17069' MD / 6452' TVD | | | | | | | | | |
| 17,068.7 | 91.50 | 0.64 | 6,452.1 | 10,188.8 | -1,237.1 | 10,263.6 | 0.00 | 0.00 | 0.00 |

| Design Targets | | | | | | | | | |
|--|---------------|--------------|------------|--------------|--------------|-----------------|----------------|------------------|-------------------|
| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| PBHL Peters 0781 15 | 0.00 | 360.00 | 0.0 | 10,188.8 | -1,237.1 | 1,462,550.64 | 2,741,952.74 | 40° 35' 57.796 N | 106° 25' 45.396 W |
| - plan misses target center by 6452.1usft at 17068.7usft MD (6452.1 TVD, 10188.8 N, -1237.1 E) | | | | | | | | | |
| - Point | | | | | | | | | |
| LP Peters 0781 15-13 | 0.00 | 360.00 | 6,710.0 | 340.5 | -1,347.2 | 1,452,702.34 | 2,741,842.60 | 40° 34' 20.473 N | 106° 25' 45.486 W |
| - plan hits target center | | | | | | | | | |
| - Point | | | | | | | | | |

Well Planning Report



| | | | |
|------------------|---------------------------|-------------------------------------|---------------------------|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well Peters 0781 15-13H12 |
| Company: | SandRidge Energy | TVD Reference: | WELL @ 8232.1usft |
| Project: | Jackson County, Colorado | MD Reference: | WELL @ 8232.1usft |
| Site: | Sec 18, T7N, R80W, 6th PM | North Reference: | Grid |
| Well: | Peters 0781 15-13H12 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 | | |

Plan Annotations

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment |
|-----------------------------|-----------------------------|-------------------|-----------------|--|
| | | +N/-S (usft) | +E/-W (usft) | |
| 500.0 | 500.0 | 0.0 | 0.0 | Build 2°/100 |
| 750.0 | 749.7 | -7.0 | -8.4 | EOB @ 5° Inc / 230° Azm |
| 1,250.0 | 1,247.8 | -35.0 | -41.7 | Build 2°/100 |
| 1,755.5 | 1,745.9 | -59.8 | -119.6 | EOB @ 14.12° Inc / 260.17° Azm |
| 6,276.4 | 6,130.3 | -248.0 | -1,206.4 | Build 10°/100 |
| 7,216.4 | 6,710.0 | 340.5 | -1,347.2 | EOB @ 91.5° Inc / .64° Azm / 6710' TVD |
| 17,068.7 | 6,452.1 | 10,188.8 | -1,237.1 | TD @ 17069' MD / 6452' TVD |