

Company Name: SandRidge Energy

Peters 0781 13-13H12

Jackson County, Colorado

Rig:

Created By: Shane Robbins

Date: 5/08/2018

Peters 0781 13-13H12

Jackson County, Colorado

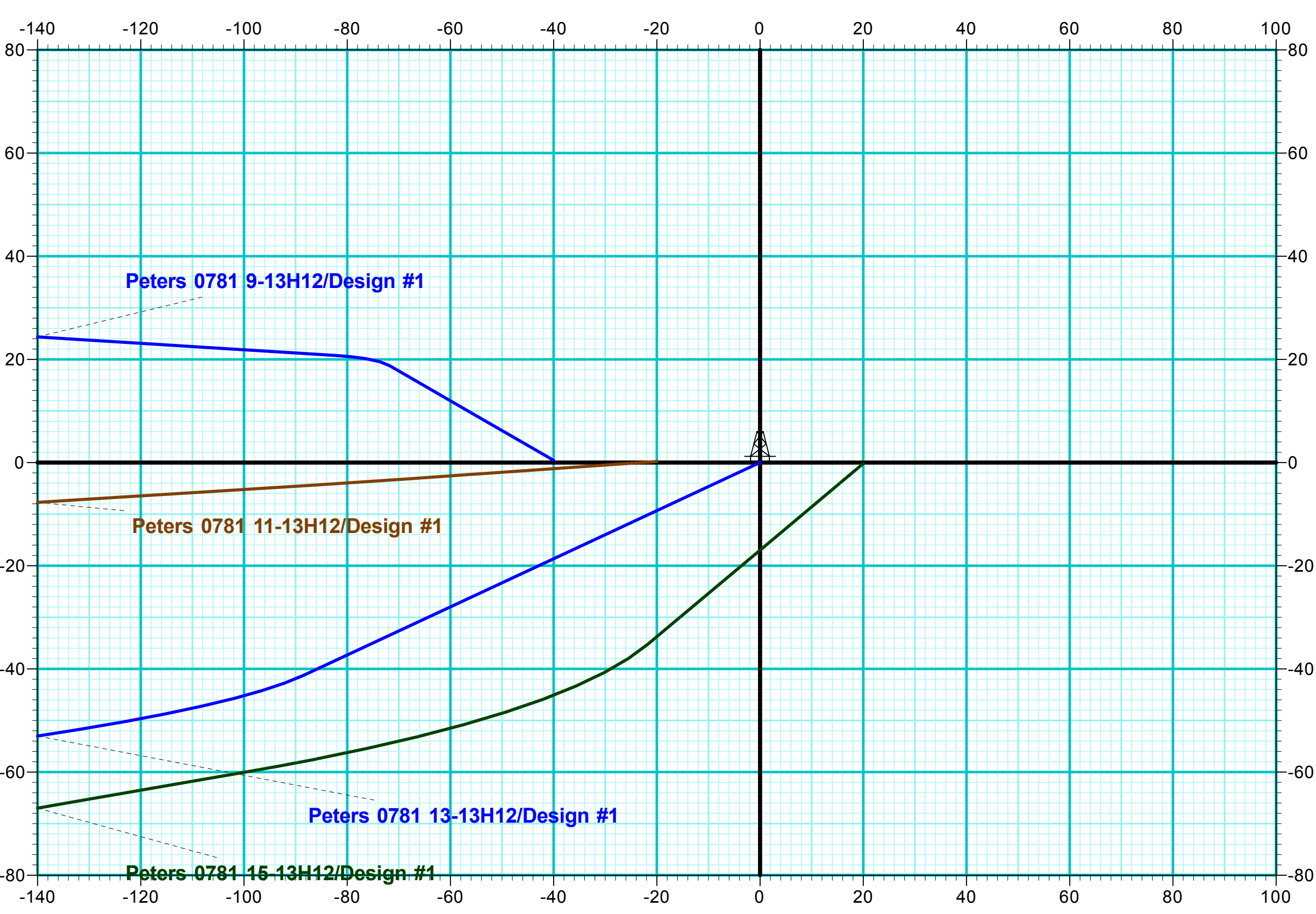
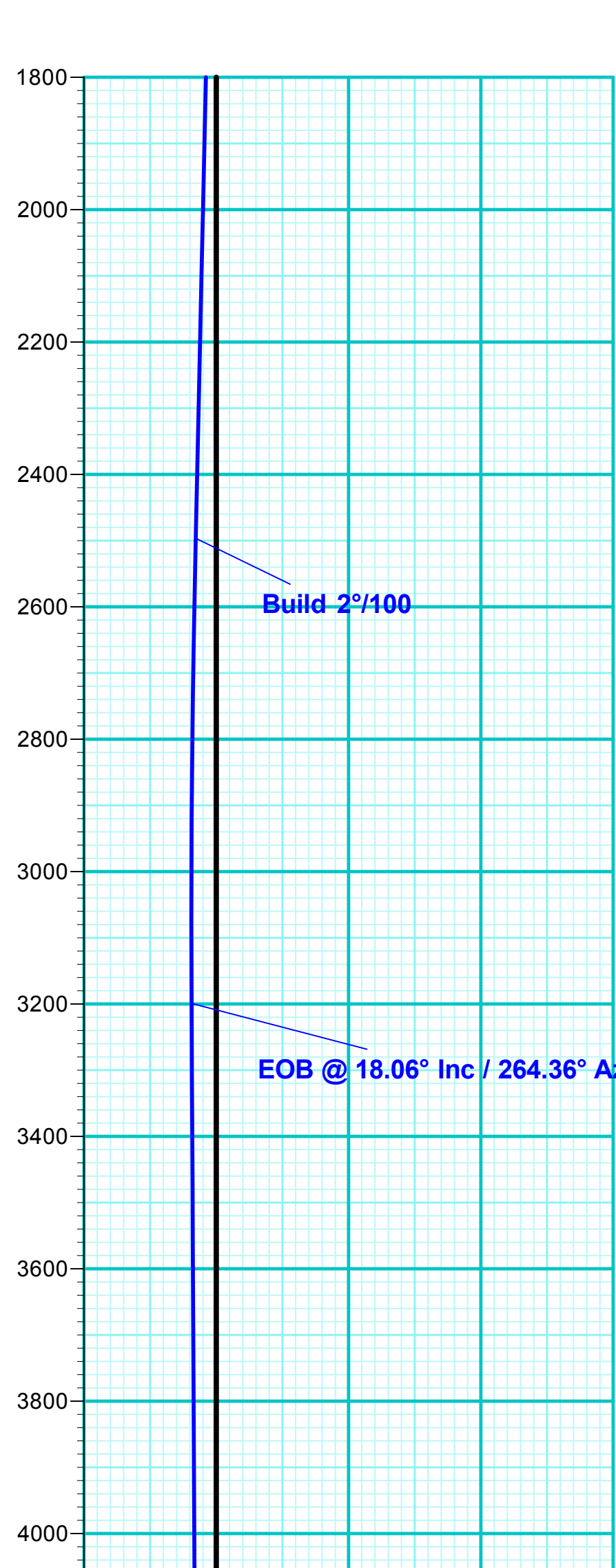
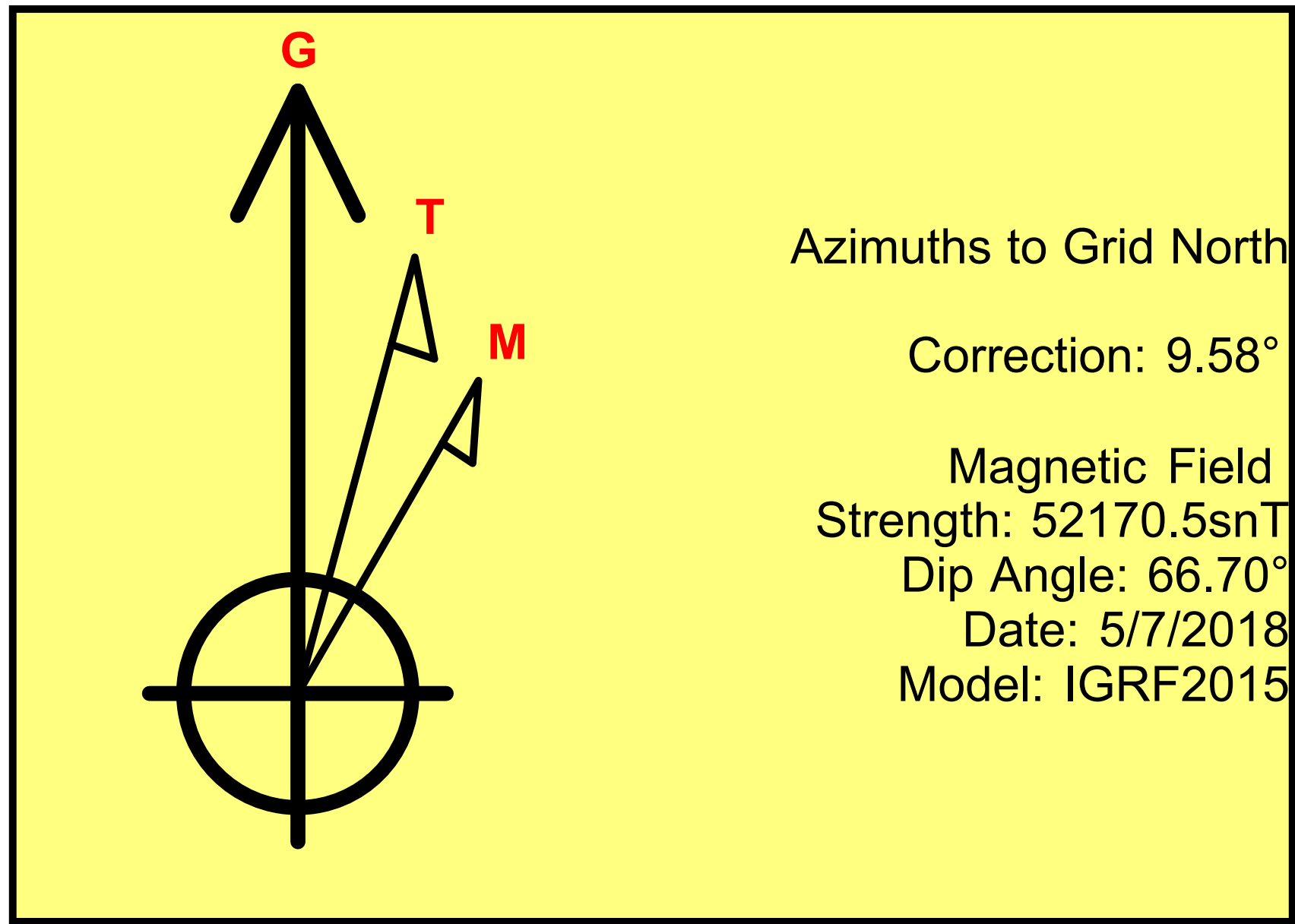
Q180\*\*\* & RM-180\*\*\*

Design #1



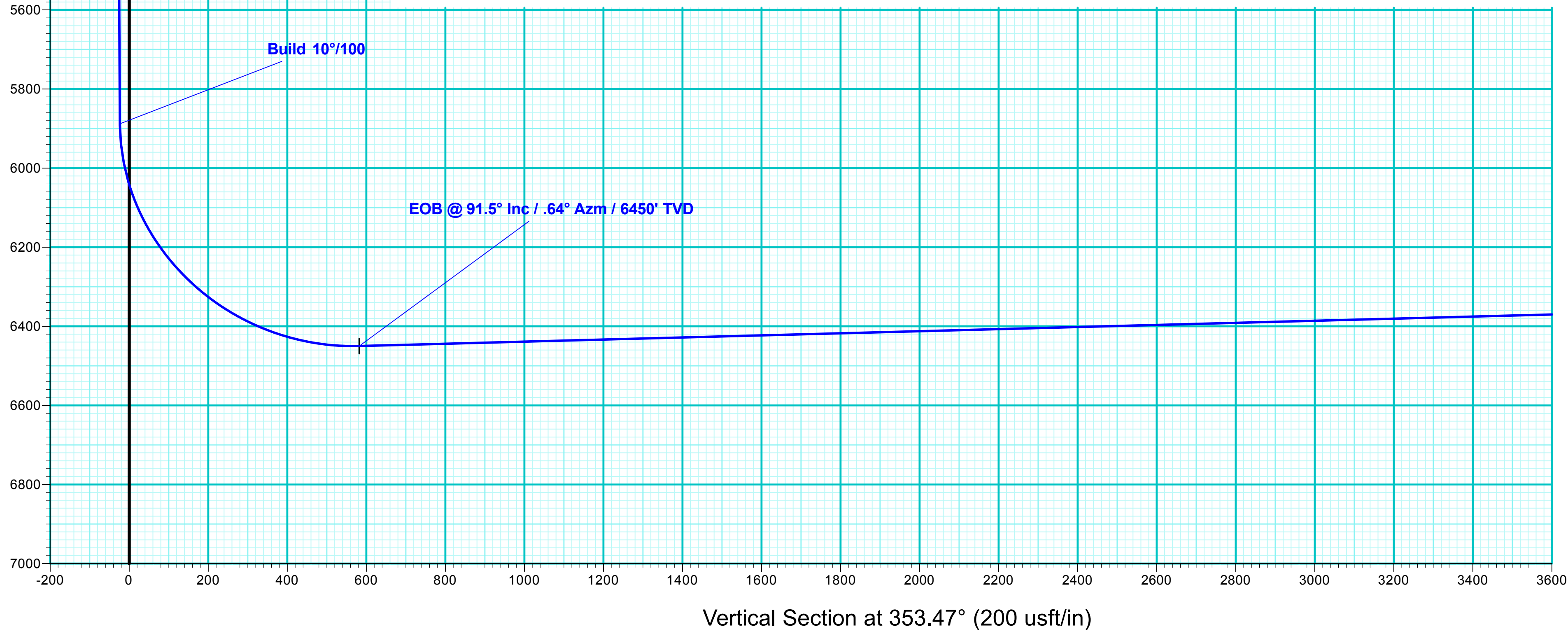
WELL DETAILS: Peters 0781 13-13H12						
			8207.1			
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.0	0.0	1452362.04	2743169.80	40° 34' 17.248 N	106° 25' 28.242 W	

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	

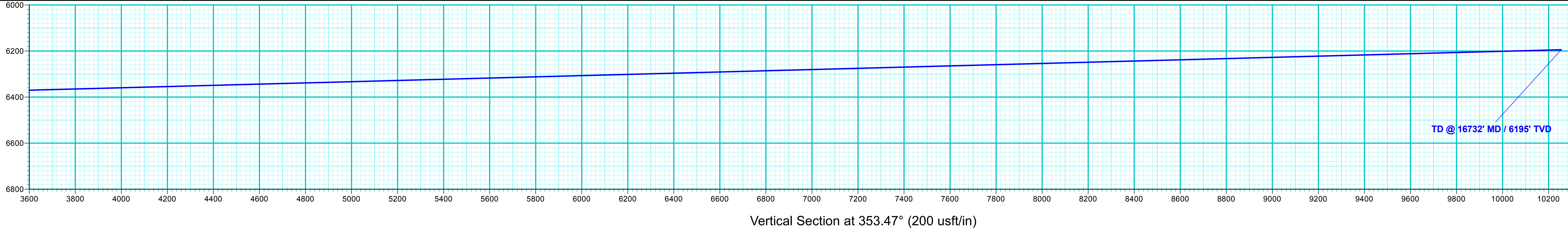
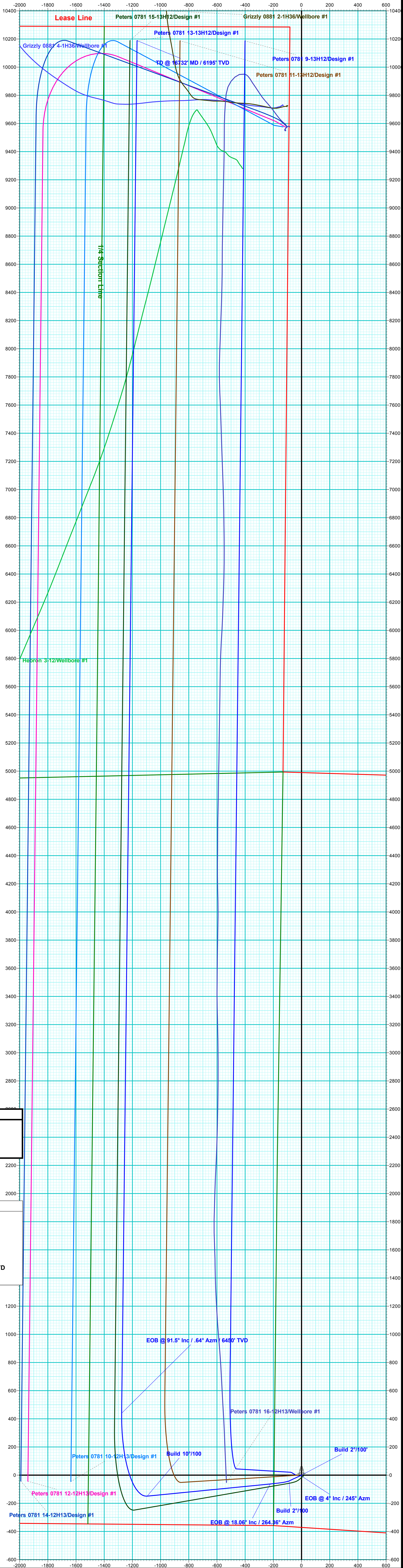


DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL Peters 0781 13-13H12	0.0	10188.5	-1167.1	1462550.49	2742002.74	40° 35' 57.800 N	106° 25' 44.748 W
- plan misses target center by 6194.7usft at 16732.0usft MD (6194.7 TVD, 10188.5 N, -1167.1 E)							
LP Peters 0781 13-13H12	6450.0	439.8	-1276.1	1452801.88	2741893.72	40° 34' 21.462 N	106° 25' 44.837 W
- plan hits target center							

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0	Build 2°/100°
3	1200.0	4.00	245.00	1199.8	-2.9	-6.3	2.00	245.00	-2.2	EOB @ 4° Inc / 245° Azm
4	2500.0	4.00	245.00	2496.7	-41.3	-88.5	0.00	0.00	-30.9	Build 2°/100°
5	3217.5	18.06	264.36	3199.3	-62.9	-222.6	2.00	24.50	-37.2	EOB @ 18.06° Inc / 264.36° Azm
6	6045.8	18.06	264.36	5888.2	-149.1	-1095.4	0.00	0.00	-23.5	Build 10°/100°
7	6979.5	91.50	0.64	6450.0	439.8	-1276.1	10.00	95.51	582.2	LP Peters 0781 13-13H12
8	16732.0	91.50	0.64	6194.7	10188.5	-1167.1	0.00	0.00	10255.1	PBHL Peters 0781 13-13H12



Vertical Section at 353.47° (200 usf/in)



Vertical Section at 353.47° (200 usf/in)



# **SandRidge Energy**

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

**Wellbore #1**

**Plan: Design #1**

## **QES Well Planning Report**

**09 May, 2018**



# Well Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Peters 0781 13-13H12
<b>Company:</b>	SandRidge Energy	<b>TVD Reference:</b>	WELL @ 8232.1usft
<b>Project:</b>	Jackson County, Colorado	<b>MD Reference:</b>	WELL @ 8232.1usft
<b>Site:</b>	Sec 18, T7N, R80W, 6th PM	<b>North Reference:</b>	Grid
<b>Well:</b>	Peters 0781 13-13H12	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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 13-13H12					
Well Position	+N/-S	-0.4 usft	Northing:	1,452,362.04 usft	Latitude:	40° 34' 17.248 N
	+E/-W	40.0 usft	Easting:	2,743,169.80 usft	Longitude:	106° 25' 28.242 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	52,170.53965396

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	353.47

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	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,200.0	4.00	245.00	1,199.8	-2.9	-6.3	2.00	2.00	0.00	245.00	
2,500.0	4.00	245.00	2,496.7	-41.3	-88.5	0.00	0.00	0.00	0.00	
3,217.5	18.06	264.36	3,199.3	-62.9	-222.6	2.00	1.96	2.70	24.50	
6,045.8	18.06	264.36	5,888.2	-149.1	-1,095.4	0.00	0.00	0.00	0.00	
6,979.5	91.50	0.64	6,450.0	439.8	-1,276.1	10.00	7.86	10.31	95.51	LP Peters 0781 13-
16,732.0	91.50	0.64	6,194.7	10,188.5	-1,167.1	0.00	0.00	0.00	0.00	PBHL Peters 0781

## Well Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Peters 0781 13-13H12
<b>Company:</b>	SandRidge Energy	<b>TVD Reference:</b>	WELL @ 8232.1usft
<b>Project:</b>	Jackson County, Colorado	<b>MD Reference:</b>	WELL @ 8232.1usft
<b>Site:</b>	Sec 18, T7N, R80W, 6th PM	<b>North Reference:</b>	Grid
<b>Well:</b>	Peters 0781 13-13H12	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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
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
<b>Build 2°/100'</b>									
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	2.00	245.00	1,100.0	-0.7	-1.6	-0.6	2.00	2.00	0.00
<b>EOB @ 4° Inc / 245° Azm</b>									
1,200.0	4.00	245.00	1,199.8	-2.9	-6.3	-2.2	2.00	2.00	0.00
1,300.0	4.00	245.00	1,299.6	-5.9	-12.6	-4.4	0.00	0.00	0.00
1,400.0	4.00	245.00	1,399.4	-8.8	-19.0	-6.6	0.00	0.00	0.00
1,500.0	4.00	245.00	1,499.1	-11.8	-25.3	-8.8	0.00	0.00	0.00
1,600.0	4.00	245.00	1,598.9	-14.7	-31.6	-11.0	0.00	0.00	0.00
1,700.0	4.00	245.00	1,698.6	-17.7	-37.9	-13.3	0.00	0.00	0.00
1,800.0	4.00	245.00	1,798.4	-20.6	-44.3	-15.5	0.00	0.00	0.00
1,900.0	4.00	245.00	1,898.1	-23.6	-50.6	-17.7	0.00	0.00	0.00
2,000.0	4.00	245.00	1,997.9	-26.5	-56.9	-19.9	0.00	0.00	0.00
2,100.0	4.00	245.00	2,097.6	-29.5	-63.2	-22.1	0.00	0.00	0.00
2,200.0	4.00	245.00	2,197.4	-32.4	-69.5	-24.3	0.00	0.00	0.00
2,300.0	4.00	245.00	2,297.2	-35.4	-75.9	-26.5	0.00	0.00	0.00
2,400.0	4.00	245.00	2,396.9	-38.3	-82.2	-28.7	0.00	0.00	0.00
<b>Build 2°/100</b>									
2,500.0	4.00	245.00	2,496.7	-41.3	-88.5	-30.9	0.00	0.00	0.00
2,600.0	5.88	253.12	2,596.3	-44.2	-96.6	-33.0	2.00	1.88	8.12
2,700.0	7.82	257.28	2,695.6	-47.2	-108.1	-34.6	2.00	1.94	4.16
2,800.0	9.78	259.79	2,794.4	-50.2	-123.1	-35.9	2.00	1.96	2.50
2,900.0	11.76	261.46	2,892.6	-53.2	-141.5	-36.8	2.00	1.98	1.67
3,000.0	13.74	262.65	2,990.2	-56.3	-163.4	-37.3	2.00	1.98	1.20
3,100.0	15.73	263.55	3,086.9	-59.3	-188.6	-37.5	2.00	1.99	0.90
3,200.0	17.72	264.25	3,182.6	-62.4	-217.2	-37.2	2.00	1.99	0.70
<b>EOB @ 18.06° Inc / 264.36° Azm</b>									
3,217.5	18.06	264.36	3,199.3	-62.9	-222.6	-37.2	2.00	1.99	0.61
3,300.0	18.06	264.36	3,277.7	-65.4	-248.1	-36.8	0.00	0.00	0.00
3,400.0	18.06	264.36	3,372.8	-68.5	-278.9	-36.3	0.00	0.00	0.00
3,500.0	18.06	264.36	3,467.9	-71.5	-309.8	-35.8	0.00	0.00	0.00
3,600.0	18.06	264.36	3,562.9	-74.6	-340.6	-35.3	0.00	0.00	0.00
3,700.0	18.06	264.36	3,658.0	-77.6	-371.5	-34.8	0.00	0.00	0.00
3,800.0	18.06	264.36	3,753.1	-80.6	-402.3	-34.3	0.00	0.00	0.00
3,900.0	18.06	264.36	3,848.1	-83.7	-433.2	-33.9	0.00	0.00	0.00
4,000.0	18.06	264.36	3,943.2	-86.7	-464.1	-33.4	0.00	0.00	0.00
4,100.0	18.06	264.36	4,038.3	-89.8	-494.9	-32.9	0.00	0.00	0.00
4,200.0	18.06	264.36	4,133.4	-92.8	-525.8	-32.4	0.00	0.00	0.00
4,300.0	18.06	264.36	4,228.4	-95.9	-556.6	-31.9	0.00	0.00	0.00
4,400.0	18.06	264.36	4,323.5	-98.9	-587.5	-31.4	0.00	0.00	0.00
4,500.0	18.06	264.36	4,418.6	-102.0	-618.4	-30.9	0.00	0.00	0.00
4,600.0	18.06	264.36	4,513.6	-105.0	-649.2	-30.5	0.00	0.00	0.00
4,700.0	18.06	264.36	4,608.7	-108.1	-680.1	-30.0	0.00	0.00	0.00
4,800.0	18.06	264.36	4,703.8	-111.1	-710.9	-29.5	0.00	0.00	0.00

# Well Planning Report



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<b>Company:</b>	SandRidge Energy	<b>TVD Reference:</b>	WELL @ 8232.1usft
<b>Project:</b>	Jackson County, Colorado	<b>MD Reference:</b>	WELL @ 8232.1usft
<b>Site:</b>	Sec 18, T7N, R80W, 6th PM	<b>North Reference:</b>	Grid
<b>Well:</b>	Peters 0781 13-13H12	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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)
4,900.0	18.06	264.36	4,798.9	-114.2	-741.8	-29.0	0.00	0.00	0.00
5,000.0	18.06	264.36	4,893.9	-117.2	-772.6	-28.5	0.00	0.00	0.00
5,100.0	18.06	264.36	4,989.0	-120.3	-803.5	-28.0	0.00	0.00	0.00
5,200.0	18.06	264.36	5,084.1	-123.3	-834.4	-27.6	0.00	0.00	0.00
5,300.0	18.06	264.36	5,179.1	-126.4	-865.2	-27.1	0.00	0.00	0.00
5,400.0	18.06	264.36	5,274.2	-129.4	-896.1	-26.6	0.00	0.00	0.00
5,500.0	18.06	264.36	5,369.3	-132.5	-926.9	-26.1	0.00	0.00	0.00
5,600.0	18.06	264.36	5,464.4	-135.5	-957.8	-25.6	0.00	0.00	0.00
5,700.0	18.06	264.36	5,559.4	-138.6	-988.7	-25.1	0.00	0.00	0.00
5,800.0	18.06	264.36	5,654.5	-141.6	-1,019.5	-24.7	0.00	0.00	0.00
5,900.0	18.06	264.36	5,749.6	-144.6	-1,050.4	-24.2	0.00	0.00	0.00
6,000.0	18.06	264.36	5,844.6	-147.7	-1,081.2	-23.7	0.00	0.00	0.00
<b>Build 10°/100</b>									
6,045.8	18.06	264.36	5,888.2	-149.1	-1,095.4	-23.5	0.00	0.00	0.00
6,050.0	18.03	265.72	5,892.2	-149.2	-1,096.7	-23.4	10.00	-0.85	32.16
6,100.0	18.33	281.76	5,939.7	-148.2	-1,112.1	-20.7	10.00	0.60	32.09
6,150.0	19.88	296.33	5,987.0	-142.8	-1,127.4	-13.6	10.00	3.10	29.14
6,200.0	22.42	308.30	6,033.6	-133.1	-1,142.5	-2.2	10.00	5.09	23.94
6,250.0	25.66	317.68	6,079.3	-119.2	-1,157.3	13.3	10.00	6.48	18.74
6,300.0	29.37	324.95	6,123.7	-101.1	-1,171.6	32.9	10.00	7.42	14.55
6,350.0	33.40	330.67	6,166.3	-79.1	-1,185.4	56.3	10.00	8.04	11.44
6,400.0	37.63	335.26	6,207.0	-53.2	-1,198.6	83.5	10.00	8.46	9.18
6,450.0	42.01	339.03	6,245.4	-23.7	-1,210.9	114.3	10.00	8.76	7.55
6,500.0	46.49	342.21	6,281.2	9.2	-1,222.5	148.3	10.00	8.97	6.35
6,550.0	51.05	344.95	6,314.2	45.3	-1,233.1	185.3	10.00	9.12	5.47
6,600.0	55.66	347.35	6,344.0	84.2	-1,242.7	225.1	10.00	9.23	4.80
6,650.0	60.32	349.50	6,370.5	125.7	-1,251.1	267.3	10.00	9.31	4.30
6,700.0	65.01	351.45	6,393.5	169.5	-1,258.5	311.6	10.00	9.38	3.92
6,750.0	69.72	353.27	6,412.7	215.2	-1,264.6	357.8	10.00	9.42	3.63
6,800.0	74.45	354.97	6,428.1	262.6	-1,269.5	405.3	10.00	9.46	3.41
6,850.0	79.19	356.60	6,439.5	311.1	-1,273.0	453.9	10.00	9.48	3.26
6,900.0	83.94	358.18	6,446.8	360.5	-1,275.3	503.3	10.00	9.50	3.16
6,950.0	88.70	359.73	6,450.1	410.4	-1,276.2	552.9	10.00	9.51	3.10
<b>EOB @ 91.5° Inc / .64° Azm / 6450' TVD</b>									
6,979.5	91.50	0.64	6,450.0	439.8	-1,276.1	582.2	10.00	9.51	3.09
7,000.0	91.50	0.64	6,449.5	460.3	-1,275.9	602.6	0.00	0.00	0.00
7,100.0	91.50	0.64	6,446.8	560.3	-1,274.7	701.7	0.00	0.00	0.00
7,200.0	91.50	0.64	6,444.2	660.3	-1,273.6	800.9	0.00	0.00	0.00
7,300.0	91.50	0.64	6,441.6	760.2	-1,272.5	900.1	0.00	0.00	0.00
7,400.0	91.50	0.64	6,439.0	860.2	-1,271.4	999.3	0.00	0.00	0.00
7,500.0	91.50	0.64	6,436.4	960.1	-1,270.3	1,098.5	0.00	0.00	0.00
7,600.0	91.50	0.64	6,433.8	1,060.1	-1,269.1	1,197.6	0.00	0.00	0.00
7,700.0	91.50	0.64	6,431.1	1,160.1	-1,268.0	1,296.8	0.00	0.00	0.00
7,800.0	91.50	0.64	6,428.5	1,260.0	-1,266.9	1,396.0	0.00	0.00	0.00
7,900.0	91.50	0.64	6,425.9	1,360.0	-1,265.8	1,495.2	0.00	0.00	0.00
8,000.0	91.50	0.64	6,423.3	1,459.9	-1,264.7	1,594.4	0.00	0.00	0.00
8,100.0	91.50	0.64	6,420.7	1,559.9	-1,263.6	1,693.6	0.00	0.00	0.00
8,200.0	91.50	0.64	6,418.1	1,659.9	-1,262.4	1,792.7	0.00	0.00	0.00
8,300.0	91.50	0.64	6,415.4	1,759.8	-1,261.3	1,891.9	0.00	0.00	0.00
8,400.0	91.50	0.64	6,412.8	1,859.8	-1,260.2	1,991.1	0.00	0.00	0.00
8,500.0	91.50	0.64	6,410.2	1,959.7	-1,259.1	2,090.3	0.00	0.00	0.00
8,600.0	91.50	0.64	6,407.6	2,059.7	-1,258.0	2,189.5	0.00	0.00	0.00
8,700.0	91.50	0.64	6,405.0	2,159.7	-1,256.8	2,288.7	0.00	0.00	0.00

# Well Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Peters 0781 13-13H12
<b>Company:</b>	SandRidge Energy	<b>TVD Reference:</b>	WELL @ 8232.1usft
<b>Project:</b>	Jackson County, Colorado	<b>MD Reference:</b>	WELL @ 8232.1usft
<b>Site:</b>	Sec 18, T7N, R80W, 6th PM	<b>North Reference:</b>	Grid
<b>Well:</b>	Peters 0781 13-13H12	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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)
8,800.0	91.50	0.64	6,402.3	2,259.6	-1,255.7	2,387.8	0.00	0.00	0.00
8,900.0	91.50	0.64	6,399.7	2,359.6	-1,254.6	2,487.0	0.00	0.00	0.00
9,000.0	91.50	0.64	6,397.1	2,459.5	-1,253.5	2,586.2	0.00	0.00	0.00
9,100.0	91.50	0.64	6,394.5	2,559.5	-1,252.4	2,685.4	0.00	0.00	0.00
9,200.0	91.50	0.64	6,391.9	2,659.5	-1,251.3	2,784.6	0.00	0.00	0.00
9,300.0	91.50	0.64	6,389.3	2,759.4	-1,250.1	2,883.8	0.00	0.00	0.00
9,400.0	91.50	0.64	6,386.6	2,859.4	-1,249.0	2,982.9	0.00	0.00	0.00
9,500.0	91.50	0.64	6,384.0	2,959.3	-1,247.9	3,082.1	0.00	0.00	0.00
9,600.0	91.50	0.64	6,381.4	3,059.3	-1,246.8	3,181.3	0.00	0.00	0.00
9,700.0	91.50	0.64	6,378.8	3,159.3	-1,245.7	3,280.5	0.00	0.00	0.00
9,800.0	91.50	0.64	6,376.2	3,259.2	-1,244.6	3,379.7	0.00	0.00	0.00
9,900.0	91.50	0.64	6,373.5	3,359.2	-1,243.4	3,478.9	0.00	0.00	0.00
10,000.0	91.50	0.64	6,370.9	3,459.1	-1,242.3	3,578.0	0.00	0.00	0.00
10,100.0	91.50	0.64	6,368.3	3,559.1	-1,241.2	3,677.2	0.00	0.00	0.00
10,200.0	91.50	0.64	6,365.7	3,659.0	-1,240.1	3,776.4	0.00	0.00	0.00
10,300.0	91.50	0.64	6,363.1	3,759.0	-1,239.0	3,875.6	0.00	0.00	0.00
10,400.0	91.50	0.64	6,360.5	3,859.0	-1,237.8	3,974.8	0.00	0.00	0.00
10,500.0	91.50	0.64	6,357.8	3,958.9	-1,236.7	4,074.0	0.00	0.00	0.00
10,600.0	91.50	0.64	6,355.2	4,058.9	-1,235.6	4,173.1	0.00	0.00	0.00
10,700.0	91.50	0.64	6,352.6	4,158.8	-1,234.5	4,272.3	0.00	0.00	0.00
10,800.0	91.50	0.64	6,350.0	4,258.8	-1,233.4	4,371.5	0.00	0.00	0.00
10,900.0	91.50	0.64	6,347.4	4,358.8	-1,232.3	4,470.7	0.00	0.00	0.00
11,000.0	91.50	0.64	6,344.8	4,458.7	-1,231.1	4,569.9	0.00	0.00	0.00
11,100.0	91.50	0.64	6,342.1	4,558.7	-1,230.0	4,669.0	0.00	0.00	0.00
11,200.0	91.50	0.64	6,339.5	4,658.6	-1,228.9	4,768.2	0.00	0.00	0.00
11,300.0	91.50	0.64	6,336.9	4,758.6	-1,227.8	4,867.4	0.00	0.00	0.00
11,400.0	91.50	0.64	6,334.3	4,858.6	-1,226.7	4,966.6	0.00	0.00	0.00
11,500.0	91.50	0.64	6,331.7	4,958.5	-1,225.5	5,065.8	0.00	0.00	0.00
11,600.0	91.50	0.64	6,329.0	5,058.5	-1,224.4	5,165.0	0.00	0.00	0.00
11,700.0	91.50	0.64	6,326.4	5,158.4	-1,223.3	5,264.1	0.00	0.00	0.00
11,800.0	91.50	0.64	6,323.8	5,258.4	-1,222.2	5,363.3	0.00	0.00	0.00
11,900.0	91.50	0.64	6,321.2	5,358.4	-1,221.1	5,462.5	0.00	0.00	0.00
12,000.0	91.50	0.64	6,318.6	5,458.3	-1,220.0	5,561.7	0.00	0.00	0.00
12,100.0	91.50	0.64	6,316.0	5,558.3	-1,218.8	5,660.9	0.00	0.00	0.00
12,200.0	91.50	0.64	6,313.3	5,658.2	-1,217.7	5,760.1	0.00	0.00	0.00
12,300.0	91.50	0.64	6,310.7	5,758.2	-1,216.6	5,859.2	0.00	0.00	0.00
12,400.0	91.50	0.64	6,308.1	5,858.2	-1,215.5	5,958.4	0.00	0.00	0.00
12,500.0	91.50	0.64	6,305.5	5,958.1	-1,214.4	6,057.6	0.00	0.00	0.00
12,600.0	91.50	0.64	6,302.9	6,058.1	-1,213.3	6,156.8	0.00	0.00	0.00
12,700.0	91.50	0.64	6,300.3	6,158.0	-1,212.1	6,256.0	0.00	0.00	0.00
12,800.0	91.50	0.64	6,297.6	6,258.0	-1,211.0	6,355.2	0.00	0.00	0.00
12,900.0	91.50	0.64	6,295.0	6,358.0	-1,209.9	6,454.3	0.00	0.00	0.00
13,000.0	91.50	0.64	6,292.4	6,457.9	-1,208.8	6,553.5	0.00	0.00	0.00
13,100.0	91.50	0.64	6,289.8	6,557.9	-1,207.7	6,652.7	0.00	0.00	0.00
13,200.0	91.50	0.64	6,287.2	6,657.8	-1,206.5	6,751.9	0.00	0.00	0.00
13,300.0	91.50	0.64	6,284.5	6,757.8	-1,205.4	6,851.1	0.00	0.00	0.00
13,400.0	91.50	0.64	6,281.9	6,857.8	-1,204.3	6,950.3	0.00	0.00	0.00
13,500.0	91.50	0.64	6,279.3	6,957.7	-1,203.2	7,049.4	0.00	0.00	0.00
13,600.0	91.50	0.64	6,276.7	7,057.7	-1,202.1	7,148.6	0.00	0.00	0.00
13,700.0	91.50	0.64	6,274.1	7,157.6	-1,201.0	7,247.8	0.00	0.00	0.00
13,800.0	91.50	0.64	6,271.5	7,257.6	-1,199.8	7,347.0	0.00	0.00	0.00
13,900.0	91.50	0.64	6,268.8	7,357.6	-1,198.7	7,446.2	0.00	0.00	0.00
14,000.0	91.50	0.64	6,266.2	7,457.5	-1,197.6	7,545.4	0.00	0.00	0.00
14,100.0	91.50	0.64	6,263.6	7,557.5	-1,196.5	7,644.5	0.00	0.00	0.00

# Well Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Peters 0781 13-13H12
<b>Company:</b>	SandRidge Energy	<b>TVD Reference:</b>	WELL @ 8232.1usft
<b>Project:</b>	Jackson County, Colorado	<b>MD Reference:</b>	WELL @ 8232.1usft
<b>Site:</b>	Sec 18, T7N, R80W, 6th PM	<b>North Reference:</b>	Grid
<b>Well:</b>	Peters 0781 13-13H12	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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)
14,200.0	91.50	0.64	6,261.0	7,657.4	-1,195.4	7,743.7	0.00	0.00	0.00
14,300.0	91.50	0.64	6,258.4	7,757.4	-1,194.2	7,842.9	0.00	0.00	0.00
14,400.0	91.50	0.64	6,255.8	7,857.3	-1,193.1	7,942.1	0.00	0.00	0.00
14,500.0	91.50	0.64	6,253.1	7,957.3	-1,192.0	8,041.3	0.00	0.00	0.00
14,600.0	91.50	0.64	6,250.5	8,057.3	-1,190.9	8,140.4	0.00	0.00	0.00
14,700.0	91.50	0.64	6,247.9	8,157.2	-1,189.8	8,239.6	0.00	0.00	0.00
14,800.0	91.50	0.64	6,245.3	8,257.2	-1,188.7	8,338.8	0.00	0.00	0.00
14,900.0	91.50	0.64	6,242.7	8,357.1	-1,187.5	8,438.0	0.00	0.00	0.00
15,000.0	91.50	0.64	6,240.0	8,457.1	-1,186.4	8,537.2	0.00	0.00	0.00
15,100.0	91.50	0.64	6,237.4	8,557.1	-1,185.3	8,636.4	0.00	0.00	0.00
15,200.0	91.50	0.64	6,234.8	8,657.0	-1,184.2	8,735.5	0.00	0.00	0.00
15,300.0	91.50	0.64	6,232.2	8,757.0	-1,183.1	8,834.7	0.00	0.00	0.00
15,400.0	91.50	0.64	6,229.6	8,856.9	-1,182.0	8,933.9	0.00	0.00	0.00
15,500.0	91.50	0.64	6,227.0	8,956.9	-1,180.8	9,033.1	0.00	0.00	0.00
15,600.0	91.50	0.64	6,224.3	9,056.9	-1,179.7	9,132.3	0.00	0.00	0.00
15,700.0	91.50	0.64	6,221.7	9,156.8	-1,178.6	9,231.5	0.00	0.00	0.00
15,800.0	91.50	0.64	6,219.1	9,256.8	-1,177.5	9,330.6	0.00	0.00	0.00
15,900.0	91.50	0.64	6,216.5	9,356.7	-1,176.4	9,429.8	0.00	0.00	0.00
16,000.0	91.50	0.64	6,213.9	9,456.7	-1,175.2	9,529.0	0.00	0.00	0.00
16,100.0	91.50	0.64	6,211.3	9,556.7	-1,174.1	9,628.2	0.00	0.00	0.00
16,200.0	91.50	0.64	6,208.6	9,656.6	-1,173.0	9,727.4	0.00	0.00	0.00
16,300.0	91.50	0.64	6,206.0	9,756.6	-1,171.9	9,826.6	0.00	0.00	0.00
16,400.0	91.50	0.64	6,203.4	9,856.5	-1,170.8	9,925.7	0.00	0.00	0.00
16,500.0	91.50	0.64	6,200.8	9,956.5	-1,169.7	10,024.9	0.00	0.00	0.00
16,600.0	91.50	0.64	6,198.2	10,056.5	-1,168.5	10,124.1	0.00	0.00	0.00
16,700.0	91.50	0.64	6,195.5	10,156.4	-1,167.4	10,223.3	0.00	0.00	0.00
<b>TD @ 16732' MD / 6195' TVD</b>									
16,732.0	91.50	0.64	6,194.7	10,188.5	-1,167.1	10,255.1	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
<b>PBHL Peters 0781 13</b> - hit/miss target - Shape - Point	0.00	360.00	0.0	10,188.5	-1,167.1	1,462,550.49	2,742,002.74	40° 35' 57.800 N	106° 25' 44.748 W
- plan misses target center by 6194.7usft at 16732.0usft MD (6194.7 TVD, 10188.5 N, -1167.1 E)									
<b>LP Peters 0781 13-13</b> - plan hits target center - Point	0.00	360.00	6,450.0	439.8	-1,276.1	1,452,801.88	2,741,893.72	40° 34' 21.462 N	106° 25' 44.837 W

# Well Planning Report



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

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,000.0	1,000.0	0.0	0.0	Build 2°/100'
1,200.0	1,199.8	-2.9	-6.3	EOB @ 4° Inc / 245° Azm
2,500.0	2,496.7	-41.3	-88.5	Build 2°/100'
3,217.5	3,199.3	-62.9	-222.6	EOB @ 18.06° Inc / 264.36° Azm
6,045.8	5,888.2	-149.1	-1,095.4	Build 10°/100'
6,979.5	6,450.0	439.8	-1,276.1	EOB @ 91.5° Inc / .64° Azm / 6450' TVD
16,732.0	6,194.7	10,188.5	-1,167.1	TD @ 16732' MD / 6195' TVD