

Company Name: SandRidge Energy

Peters 0781 10-1' <%

Jackson County, Colorado

Rig:

Created By: Shane Robbins

Date: 5/08/2018

Peters 0781 10-1HPFG

Jackson County, Colorado

Q180*** & RM-180***

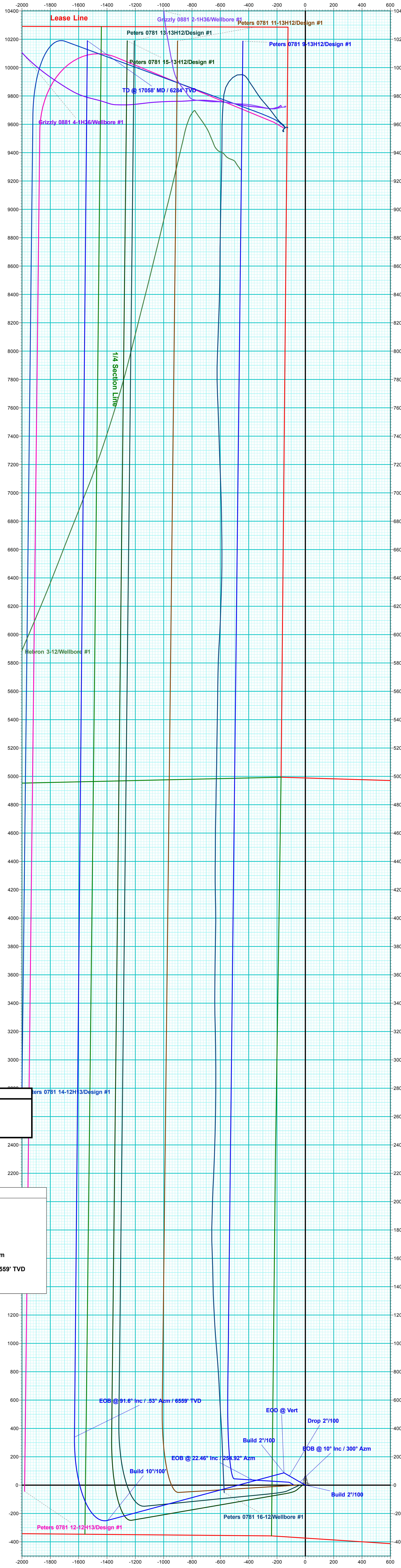
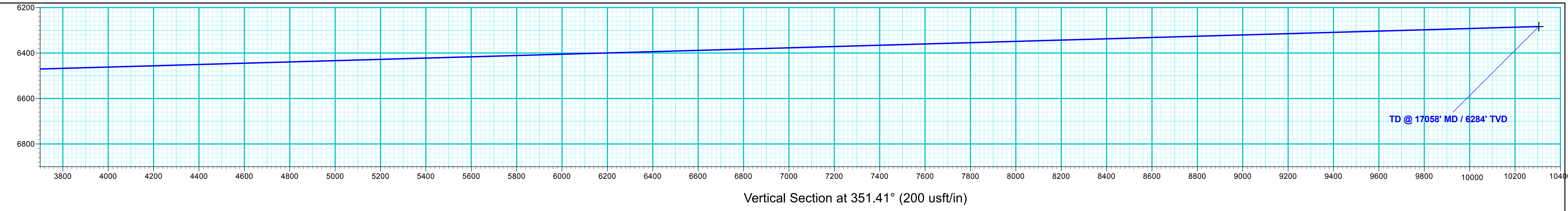
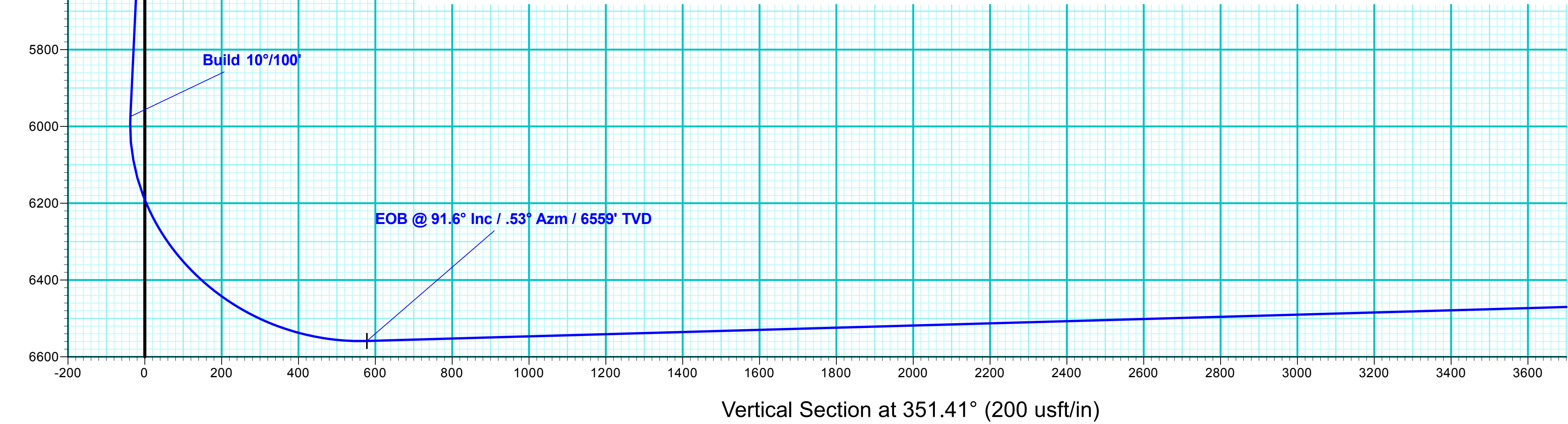
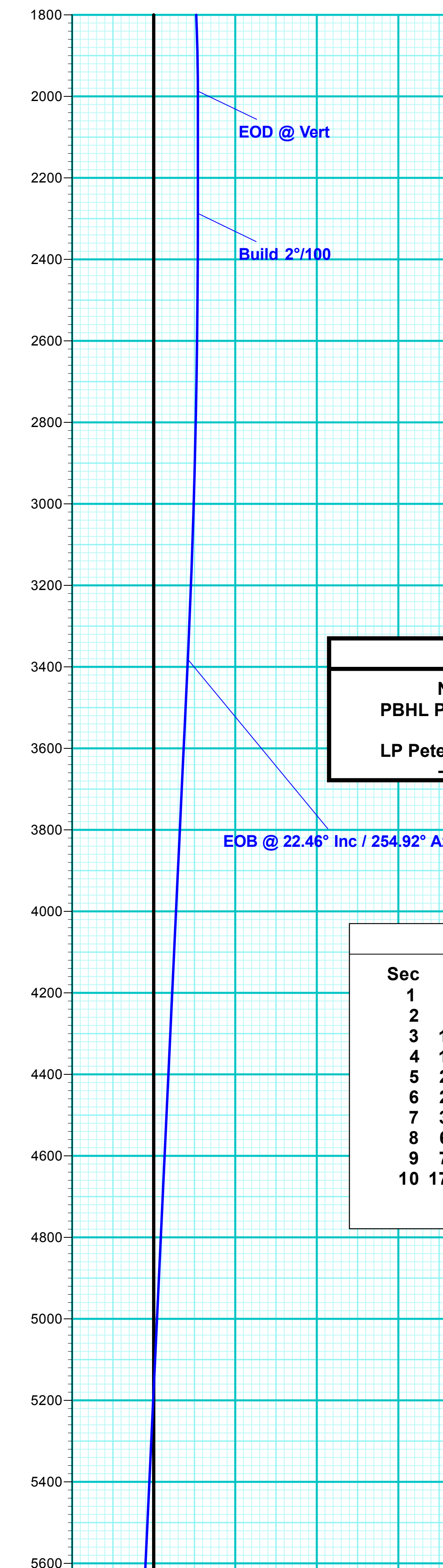
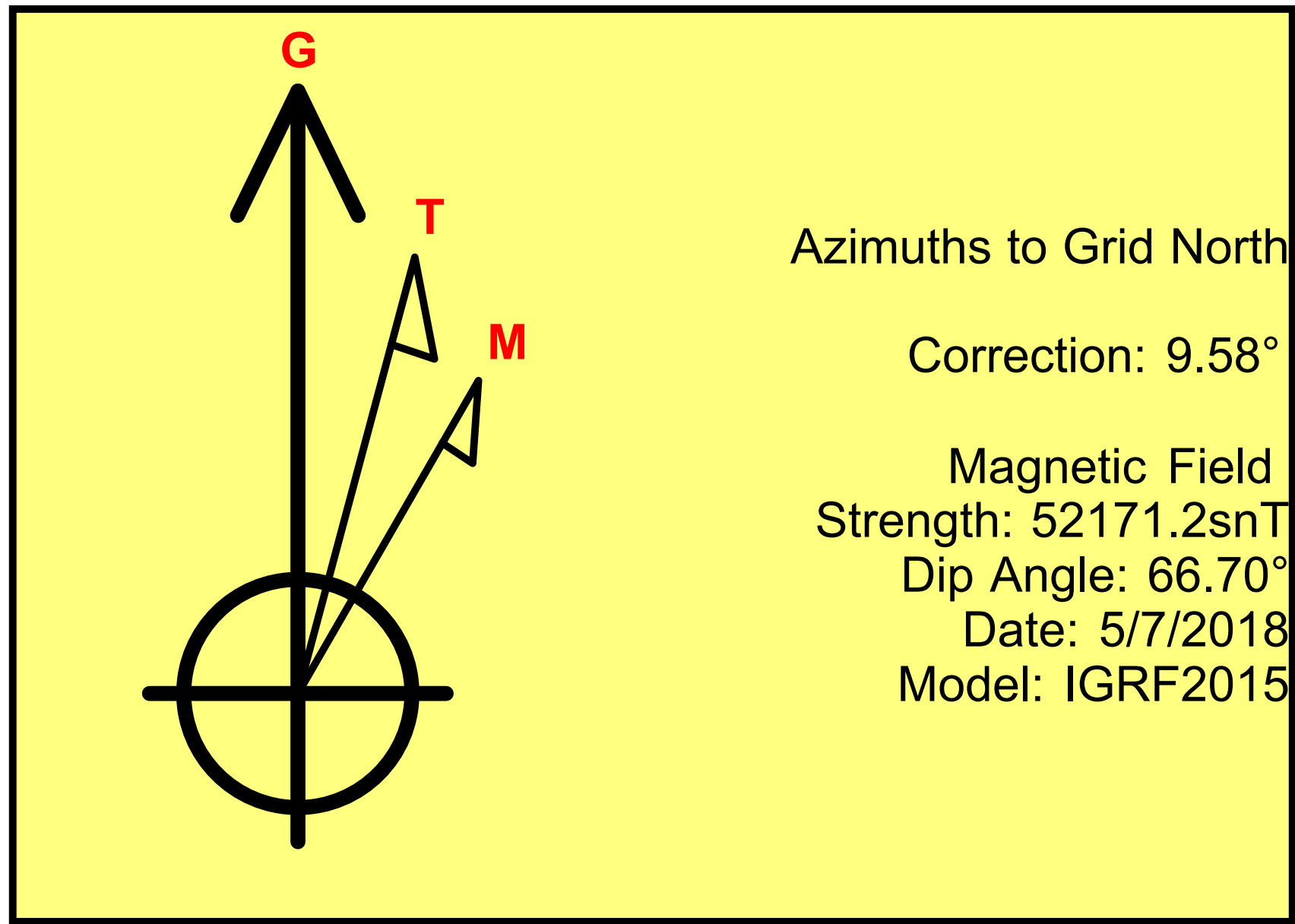
Design #2

SandRidge Energy



WELL DETAILS: Peters 0781 10-13H12						
			8130.5			
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.0	0.0	1452361.83	2743209.79	40° 34' 17.250 N	106° 25' 27.724 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 12, T7N, R81W, 6th PM
Peters 0781 10-13H12**

Wellbore #1

Plan: Design #2

QES Well Planning Report

24 July, 2018



Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Peters 0781 10-13H12
Company:	SandRidge Energy	TVD Reference:	WELL @ 8155.5usft
Project:	Jackson County, Colorado	MD Reference:	WELL @ 8155.5usft
Site:	Sec 12, T7N, R81W,6th PM	North Reference:	Grid
Well:	Peters 0781 10-13H12	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

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 12, T7N, R81W,6th PM			
Site Position:		Northing:	1,461,937.34 usft	Latitude:	40° 35' 51.852 N
From:	Map	Easting:	2,743,069.62 usft	Longitude:	106° 25' 30.835 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.60 °

Well	Peters 0781 10-13H12					
Well Position	+N/-S	-9,575.5 usft	Northing:	1,452,361.83 usft	Latitude:	40° 34' 17.250 N
	+E/-W	140.2 usft	Easting:	2,743,209.79 usft	Longitude:	106° 25' 27.724 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	8,130.5 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	5/7/2018	8.99	66.70	52,171.17021473

Design	Design #2			
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	351.41

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	
1,000.0	10.00	300.00	997.5	21.8	-37.7	2.00	2.00	0.00	300.00	
1,500.0	10.00	300.00	1,489.9	65.2	-112.9	0.00	0.00	0.00	0.00	
2,000.0	0.00	0.00	1,987.3	86.9	-150.6	2.00	-2.00	0.00	180.00	
2,300.0	0.00	0.00	2,287.3	86.9	-150.6	0.00	0.00	0.00	0.00	
3,422.8	22.46	254.92	3,381.6	30.4	-360.3	2.00	2.00	0.00	254.92	
6,228.4	22.46	254.92	5,974.5	-248.4	-1,395.1	0.00	0.00	0.00	0.00	
7,202.3	91.60	0.53	6,558.9	338.5	-1,629.6	10.00	7.10	10.84	103.88	LP Peters 0781 10-
17,057.6	91.60	0.53	6,283.7	10,189.6	-1,538.5	0.00	0.00	0.00	0.00	PBHL Peters 0781

Well Planning Report



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Project:	Jackson County, Colorado	MD Reference:	WELL @ 8155.5usft
Site:	Sec 12, T7N, R81W,6th PM	North Reference:	Grid
Well:	Peters 0781 10-13H12	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

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	300.00	600.0	0.9	-1.5	1.1	2.00	2.00	0.00
700.0	4.00	300.00	699.8	3.5	-6.0	4.4	2.00	2.00	0.00
800.0	6.00	300.00	799.5	7.8	-13.6	9.8	2.00	2.00	0.00
900.0	8.00	300.00	898.7	13.9	-24.1	17.4	2.00	2.00	0.00
EOB @ 10° Inc / 300° Azm									
1,000.0	10.00	300.00	997.5	21.8	-37.7	27.1	2.00	2.00	0.00
1,100.0	10.00	300.00	1,095.9	30.4	-52.7	38.0	0.00	0.00	0.00
1,200.0	10.00	300.00	1,194.4	39.1	-67.8	48.8	0.00	0.00	0.00
1,300.0	10.00	300.00	1,292.9	47.8	-82.8	59.6	0.00	0.00	0.00
1,400.0	10.00	300.00	1,391.4	56.5	-97.8	70.5	0.00	0.00	0.00
Drop 2°/100									
1,500.0	10.00	300.00	1,489.9	65.2	-112.9	81.3	0.00	0.00	0.00
1,600.0	8.00	300.00	1,588.6	73.0	-126.4	91.1	2.00	-2.00	0.00
1,700.0	6.00	300.00	1,687.9	79.1	-137.0	98.7	2.00	-2.00	0.00
1,800.0	4.00	300.00	1,787.5	83.4	-144.5	104.1	2.00	-2.00	0.00
1,900.0	2.00	300.00	1,887.4	86.1	-149.1	107.4	2.00	-2.00	0.00
EOD @ Vert									
2,000.0	0.00	0.00	1,987.3	86.9	-150.6	108.4	2.00	-2.00	60.00
2,100.0	0.00	0.00	2,087.3	86.9	-150.6	108.4	0.00	0.00	0.00
2,200.0	0.00	0.00	2,187.3	86.9	-150.6	108.4	0.00	0.00	0.00
Build 2°/100									
2,300.0	0.00	0.00	2,287.3	86.9	-150.6	108.4	0.00	0.00	0.00
2,400.0	2.00	254.92	2,387.3	86.5	-152.3	108.2	2.00	2.00	0.00
2,500.0	4.00	254.92	2,487.2	85.1	-157.3	107.7	2.00	2.00	0.00
2,600.0	6.00	254.92	2,586.8	82.9	-165.7	106.7	2.00	2.00	0.00
2,700.0	8.00	254.92	2,686.0	79.7	-177.5	105.3	2.00	2.00	0.00
2,800.0	10.00	254.92	2,784.8	75.6	-192.6	103.5	2.00	2.00	0.00
2,900.0	12.00	254.92	2,883.0	70.6	-211.0	101.4	2.00	2.00	0.00
3,000.0	14.00	254.92	2,980.4	64.8	-232.7	98.8	2.00	2.00	0.00
3,100.0	16.00	254.92	3,077.0	58.1	-257.7	95.9	2.00	2.00	0.00
3,200.0	18.00	254.92	3,172.6	50.5	-286.0	92.6	2.00	2.00	0.00
3,300.0	20.00	254.92	3,267.2	42.0	-317.4	88.9	2.00	2.00	0.00
3,400.0	22.00	254.92	3,360.5	32.7	-352.0	84.8	2.00	2.00	0.00
EOB @ 22.46° Inc / 254.92° Azm									
3,422.8	22.46	254.92	3,381.6	30.4	-360.3	83.9	2.00	2.00	0.00
3,500.0	22.46	254.92	3,453.0	22.7	-388.8	80.5	0.00	0.00	0.00
3,600.0	22.46	254.92	3,545.4	12.8	-425.7	76.2	0.00	0.00	0.00
3,700.0	22.46	254.92	3,637.8	2.9	-462.6	71.9	0.00	0.00	0.00
3,800.0	22.46	254.92	3,730.2	-7.1	-499.4	67.6	0.00	0.00	0.00
3,900.0	22.46	254.92	3,822.6	-17.0	-536.3	63.3	0.00	0.00	0.00
4,000.0	22.46	254.92	3,915.0	-26.9	-573.2	58.9	0.00	0.00	0.00
4,100.0	22.46	254.92	4,007.5	-36.9	-610.1	54.6	0.00	0.00	0.00
4,200.0	22.46	254.92	4,099.9	-46.8	-647.0	50.3	0.00	0.00	0.00
4,300.0	22.46	254.92	4,192.3	-56.8	-683.9	46.0	0.00	0.00	0.00
4,400.0	22.46	254.92	4,284.7	-66.7	-720.7	41.7	0.00	0.00	0.00
4,500.0	22.46	254.92	4,377.1	-76.6	-757.6	37.3	0.00	0.00	0.00

Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Peters 0781 10-13H12
Company:	SandRidge Energy	TVD Reference:	WELL @ 8155.5usft
Project:	Jackson County, Colorado	MD Reference:	WELL @ 8155.5usft
Site:	Sec 12, T7N, R81W,6th PM	North Reference:	Grid
Well:	Peters 0781 10-13H12	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

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)
4,600.0	22.46	254.92	4,469.5	-86.6	-794.5	33.0	0.00	0.00	0.00
4,700.0	22.46	254.92	4,562.0	-96.5	-831.4	28.7	0.00	0.00	0.00
4,800.0	22.46	254.92	4,654.4	-106.4	-868.3	24.4	0.00	0.00	0.00
4,900.0	22.46	254.92	4,746.8	-116.4	-905.2	20.1	0.00	0.00	0.00
5,000.0	22.46	254.92	4,839.2	-126.3	-942.0	15.7	0.00	0.00	0.00
5,100.0	22.46	254.92	4,931.6	-136.3	-978.9	11.4	0.00	0.00	0.00
5,200.0	22.46	254.92	5,024.0	-146.2	-1,015.8	7.1	0.00	0.00	0.00
5,300.0	22.46	254.92	5,116.5	-156.1	-1,052.7	2.8	0.00	0.00	0.00
5,400.0	22.46	254.92	5,208.9	-166.1	-1,089.6	-1.5	0.00	0.00	0.00
5,500.0	22.46	254.92	5,301.3	-176.0	-1,126.5	-5.9	0.00	0.00	0.00
5,600.0	22.46	254.92	5,393.7	-186.0	-1,163.3	-10.2	0.00	0.00	0.00
5,700.0	22.46	254.92	5,486.1	-195.9	-1,200.2	-14.5	0.00	0.00	0.00
5,800.0	22.46	254.92	5,578.5	-205.8	-1,237.1	-18.8	0.00	0.00	0.00
5,900.0	22.46	254.92	5,671.0	-215.8	-1,274.0	-23.2	0.00	0.00	0.00
6,000.0	22.46	254.92	5,763.4	-225.7	-1,310.9	-27.5	0.00	0.00	0.00
6,100.0	22.46	254.92	5,855.8	-235.6	-1,347.8	-31.8	0.00	0.00	0.00
6,200.0	22.46	254.92	5,948.2	-245.6	-1,384.6	-36.1	0.00	0.00	0.00
Build 10°/100'									
6,228.4	22.46	254.92	5,974.5	-248.4	-1,395.1	-37.3	0.00	0.00	0.00
6,250.0	22.03	260.51	5,994.4	-250.1	-1,403.1	-37.9	9.99	-1.96	25.88
6,300.0	21.82	273.91	6,040.9	-251.1	-1,421.6	-36.0	10.00	-0.44	26.81
6,350.0	22.67	286.96	6,087.2	-247.6	-1,440.1	-29.8	10.00	1.71	26.08
6,400.0	24.48	298.63	6,133.0	-239.8	-1,458.5	-19.4	10.00	3.63	23.35
6,450.0	27.07	308.50	6,178.1	-227.8	-1,476.5	-4.8	10.00	5.16	19.74
6,500.0	30.22	316.61	6,222.0	-211.5	-1,494.0	13.9	10.00	6.30	16.23
6,550.0	33.78	323.24	6,264.4	-191.3	-1,511.0	36.5	10.00	7.13	13.26
6,600.0	37.64	328.71	6,305.0	-167.1	-1,527.3	62.8	10.00	7.71	10.92
6,650.0	41.70	333.27	6,343.5	-139.1	-1,542.7	92.7	10.00	8.13	9.13
6,700.0	45.92	337.15	6,379.5	-107.7	-1,557.1	126.0	10.00	8.44	7.76
6,750.0	50.26	340.50	6,412.9	-73.0	-1,570.5	162.3	10.00	8.67	6.71
6,800.0	54.68	343.45	6,443.4	-35.3	-1,582.8	201.4	10.00	8.84	5.91
6,850.0	59.16	346.10	6,470.7	5.1	-1,593.7	243.0	10.00	8.97	5.29
6,900.0	63.69	348.50	6,494.6	47.9	-1,603.4	286.7	10.00	9.06	4.81
6,950.0	68.26	350.73	6,514.9	92.8	-1,611.6	332.4	10.00	9.14	4.45
7,000.0	72.86	352.82	6,531.6	139.5	-1,618.3	379.5	10.00	9.19	4.17
7,050.0	77.47	354.80	6,544.4	187.5	-1,623.5	427.8	10.00	9.23	3.97
7,100.0	82.10	356.72	6,553.2	236.6	-1,627.2	476.8	10.00	9.26	3.83
7,150.0	86.74	358.59	6,558.1	286.3	-1,629.2	526.3	10.00	9.28	3.75
EOB @ 91.6° Inc / .53° Azm / 6559' TVD									
7,202.3	91.60	0.53	6,558.9	338.5	-1,629.6	578.0	10.00	9.28	3.71
7,300.0	91.60	0.53	6,556.1	436.2	-1,628.7	674.5	0.00	0.00	0.00
7,400.0	91.60	0.53	6,553.3	536.2	-1,627.8	773.2	0.00	0.00	0.00
7,500.0	91.60	0.53	6,550.5	636.1	-1,626.8	871.9	0.00	0.00	0.00
7,600.0	91.60	0.53	6,547.7	736.1	-1,625.9	970.6	0.00	0.00	0.00
7,700.0	91.60	0.53	6,545.0	836.0	-1,625.0	1,069.3	0.00	0.00	0.00
7,800.0	91.60	0.53	6,542.2	936.0	-1,624.1	1,168.0	0.00	0.00	0.00
7,900.0	91.60	0.53	6,539.4	1,035.9	-1,623.1	1,266.7	0.00	0.00	0.00
8,000.0	91.60	0.53	6,536.6	1,135.9	-1,622.2	1,365.4	0.00	0.00	0.00
8,100.0	91.60	0.53	6,533.8	1,235.9	-1,621.3	1,464.1	0.00	0.00	0.00
8,200.0	91.60	0.53	6,531.0	1,335.8	-1,620.4	1,562.8	0.00	0.00	0.00
8,300.0	91.60	0.53	6,528.2	1,435.8	-1,619.4	1,661.5	0.00	0.00	0.00
8,400.0	91.60	0.53	6,525.4	1,535.7	-1,618.5	1,760.2	0.00	0.00	0.00
8,500.0	91.60	0.53	6,522.6	1,635.7	-1,617.6	1,858.8	0.00	0.00	0.00
8,600.0	91.60	0.53	6,519.8	1,735.6	-1,616.7	1,957.5	0.00	0.00	0.00

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Well:	Peters 0781 10-13H12	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

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	91.60	0.53	6,517.0	1,835.6	-1,615.7	2,056.2	0.00	0.00	0.00
8,800.0	91.60	0.53	6,514.2	1,935.6	-1,614.8	2,154.9	0.00	0.00	0.00
8,900.0	91.60	0.53	6,511.4	2,035.5	-1,613.9	2,253.6	0.00	0.00	0.00
9,000.0	91.60	0.53	6,508.7	2,135.5	-1,613.0	2,352.3	0.00	0.00	0.00
9,100.0	91.60	0.53	6,505.9	2,235.4	-1,612.0	2,451.0	0.00	0.00	0.00
9,200.0	91.60	0.53	6,503.1	2,335.4	-1,611.1	2,549.7	0.00	0.00	0.00
9,300.0	91.60	0.53	6,500.3	2,435.3	-1,610.2	2,648.4	0.00	0.00	0.00
9,400.0	91.60	0.53	6,497.5	2,535.3	-1,609.3	2,747.1	0.00	0.00	0.00
9,500.0	91.60	0.53	6,494.7	2,635.3	-1,608.3	2,845.8	0.00	0.00	0.00
9,600.0	91.60	0.53	6,491.9	2,735.2	-1,607.4	2,944.5	0.00	0.00	0.00
9,700.0	91.60	0.53	6,489.1	2,835.2	-1,606.5	3,043.2	0.00	0.00	0.00
9,800.0	91.60	0.53	6,486.3	2,935.1	-1,605.6	3,141.9	0.00	0.00	0.00
9,900.0	91.60	0.53	6,483.5	3,035.1	-1,604.6	3,240.6	0.00	0.00	0.00
10,000.0	91.60	0.53	6,480.7	3,135.0	-1,603.7	3,339.3	0.00	0.00	0.00
10,100.0	91.60	0.53	6,477.9	3,235.0	-1,602.8	3,438.0	0.00	0.00	0.00
10,200.0	91.60	0.53	6,475.2	3,335.0	-1,601.9	3,536.7	0.00	0.00	0.00
10,300.0	91.60	0.53	6,472.4	3,434.9	-1,600.9	3,635.4	0.00	0.00	0.00
10,400.0	91.60	0.53	6,469.6	3,534.9	-1,600.0	3,734.1	0.00	0.00	0.00
10,500.0	91.60	0.53	6,466.8	3,634.8	-1,599.1	3,832.8	0.00	0.00	0.00
10,600.0	91.60	0.53	6,464.0	3,734.8	-1,598.2	3,931.5	0.00	0.00	0.00
10,700.0	91.60	0.53	6,461.2	3,834.7	-1,597.2	4,030.2	0.00	0.00	0.00
10,800.0	91.60	0.53	6,458.4	3,934.7	-1,596.3	4,128.9	0.00	0.00	0.00
10,900.0	91.60	0.53	6,455.6	4,034.6	-1,595.4	4,227.6	0.00	0.00	0.00
11,000.0	91.60	0.53	6,452.8	4,134.6	-1,594.5	4,326.3	0.00	0.00	0.00
11,100.0	91.60	0.53	6,450.0	4,234.6	-1,593.6	4,425.0	0.00	0.00	0.00
11,200.0	91.60	0.53	6,447.2	4,334.5	-1,592.6	4,523.7	0.00	0.00	0.00
11,300.0	91.60	0.53	6,444.4	4,434.5	-1,591.7	4,622.4	0.00	0.00	0.00
11,400.0	91.60	0.53	6,441.6	4,534.4	-1,590.8	4,721.1	0.00	0.00	0.00
11,500.0	91.60	0.53	6,438.9	4,634.4	-1,589.9	4,819.8	0.00	0.00	0.00
11,600.0	91.60	0.53	6,436.1	4,734.3	-1,588.9	4,918.5	0.00	0.00	0.00
11,700.0	91.60	0.53	6,433.3	4,834.3	-1,588.0	5,017.2	0.00	0.00	0.00
11,800.0	91.60	0.53	6,430.5	4,934.3	-1,587.1	5,115.9	0.00	0.00	0.00
11,900.0	91.60	0.53	6,427.7	5,034.2	-1,586.2	5,214.6	0.00	0.00	0.00
12,000.0	91.60	0.53	6,424.9	5,134.2	-1,585.2	5,313.3	0.00	0.00	0.00
12,100.0	91.60	0.53	6,422.1	5,234.1	-1,584.3	5,412.0	0.00	0.00	0.00
12,200.0	91.60	0.53	6,419.3	5,334.1	-1,583.4	5,510.7	0.00	0.00	0.00
12,300.0	91.60	0.53	6,416.5	5,434.0	-1,582.5	5,609.4	0.00	0.00	0.00
12,400.0	91.60	0.53	6,413.7	5,534.0	-1,581.5	5,708.1	0.00	0.00	0.00
12,500.0	91.60	0.53	6,410.9	5,634.0	-1,580.6	5,806.8	0.00	0.00	0.00
12,600.0	91.60	0.53	6,408.1	5,733.9	-1,579.7	5,905.5	0.00	0.00	0.00
12,700.0	91.60	0.53	6,405.3	5,833.9	-1,578.8	6,004.2	0.00	0.00	0.00
12,800.0	91.60	0.53	6,402.6	5,933.8	-1,577.8	6,102.9	0.00	0.00	0.00
12,900.0	91.60	0.53	6,399.8	6,033.8	-1,576.9	6,201.6	0.00	0.00	0.00
13,000.0	91.60	0.53	6,397.0	6,133.7	-1,576.0	6,300.3	0.00	0.00	0.00
13,100.0	91.60	0.53	6,394.2	6,233.7	-1,575.1	6,399.0	0.00	0.00	0.00
13,200.0	91.60	0.53	6,391.4	6,333.7	-1,574.1	6,497.7	0.00	0.00	0.00
13,300.0	91.60	0.53	6,388.6	6,433.6	-1,573.2	6,596.4	0.00	0.00	0.00
13,400.0	91.60	0.53	6,385.8	6,533.6	-1,572.3	6,695.1	0.00	0.00	0.00
13,500.0	91.60	0.53	6,383.0	6,633.5	-1,571.4	6,793.8	0.00	0.00	0.00
13,600.0	91.60	0.53	6,380.2	6,733.5	-1,570.4	6,892.5	0.00	0.00	0.00
13,700.0	91.60	0.53	6,377.4	6,833.4	-1,569.5	6,991.2	0.00	0.00	0.00
13,800.0	91.60	0.53	6,374.6	6,933.4	-1,568.6	7,089.9	0.00	0.00	0.00
13,900.0	91.60	0.53	6,371.8	7,033.4	-1,567.7	7,188.6	0.00	0.00	0.00
14,000.0	91.60	0.53	6,369.0	7,133.3	-1,566.7	7,287.3	0.00	0.00	0.00

Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Peters 0781 10-13H12
Company:	SandRidge Energy	TVD Reference:	WELL @ 8155.5usft
Project:	Jackson County, Colorado	MD Reference:	WELL @ 8155.5usft
Site:	Sec 12, T7N, R81W,6th PM	North Reference:	Grid
Well:	Peters 0781 10-13H12	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

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	91.60	0.53	6,366.3	7,233.3	-1,565.8	7,386.0	0.00	0.00	0.00
14,200.0	91.60	0.53	6,363.5	7,333.2	-1,564.9	7,484.7	0.00	0.00	0.00
14,300.0	91.60	0.53	6,360.7	7,433.2	-1,564.0	7,583.4	0.00	0.00	0.00
14,400.0	91.60	0.53	6,357.9	7,533.1	-1,563.0	7,682.1	0.00	0.00	0.00
14,500.0	91.60	0.53	6,355.1	7,633.1	-1,562.1	7,780.8	0.00	0.00	0.00
14,600.0	91.60	0.53	6,352.3	7,733.0	-1,561.2	7,879.5	0.00	0.00	0.00
14,700.0	91.60	0.53	6,349.5	7,833.0	-1,560.3	7,978.2	0.00	0.00	0.00
14,800.0	91.60	0.53	6,346.7	7,933.0	-1,559.3	8,076.9	0.00	0.00	0.00
14,900.0	91.60	0.53	6,343.9	8,032.9	-1,558.4	8,175.6	0.00	0.00	0.00
15,000.0	91.60	0.53	6,341.1	8,132.9	-1,557.5	8,274.3	0.00	0.00	0.00
15,100.0	91.60	0.53	6,338.3	8,232.8	-1,556.6	8,372.9	0.00	0.00	0.00
15,200.0	91.60	0.53	6,335.5	8,332.8	-1,555.6	8,471.6	0.00	0.00	0.00
15,300.0	91.60	0.53	6,332.8	8,432.7	-1,554.7	8,570.3	0.00	0.00	0.00
15,400.0	91.60	0.53	6,330.0	8,532.7	-1,553.8	8,669.0	0.00	0.00	0.00
15,500.0	91.60	0.53	6,327.2	8,632.7	-1,552.9	8,767.7	0.00	0.00	0.00
15,600.0	91.60	0.53	6,324.4	8,732.6	-1,551.9	8,866.4	0.00	0.00	0.00
15,700.0	91.60	0.53	6,321.6	8,832.6	-1,551.0	8,965.1	0.00	0.00	0.00
15,800.0	91.60	0.53	6,318.8	8,932.5	-1,550.1	9,063.8	0.00	0.00	0.00
15,900.0	91.60	0.53	6,316.0	9,032.5	-1,549.2	9,162.5	0.00	0.00	0.00
16,000.0	91.60	0.53	6,313.2	9,132.4	-1,548.2	9,261.2	0.00	0.00	0.00
16,100.0	91.60	0.53	6,310.4	9,232.4	-1,547.3	9,359.9	0.00	0.00	0.00
16,200.0	91.60	0.53	6,307.6	9,332.4	-1,546.4	9,458.6	0.00	0.00	0.00
16,300.0	91.60	0.53	6,304.8	9,432.3	-1,545.5	9,557.3	0.00	0.00	0.00
16,400.0	91.60	0.53	6,302.0	9,532.3	-1,544.5	9,656.0	0.00	0.00	0.00
16,500.0	91.60	0.53	6,299.2	9,632.2	-1,543.6	9,754.7	0.00	0.00	0.00
16,600.0	91.60	0.53	6,296.5	9,732.2	-1,542.7	9,853.4	0.00	0.00	0.00
16,700.0	91.60	0.53	6,293.7	9,832.1	-1,541.8	9,952.1	0.00	0.00	0.00
16,800.0	91.60	0.53	6,290.9	9,932.1	-1,540.8	10,050.8	0.00	0.00	0.00
16,900.0	91.60	0.53	6,288.1	10,032.1	-1,539.9	10,149.5	0.00	0.00	0.00
17,000.0	91.60	0.53	6,285.3	10,132.0	-1,539.0	10,248.2	0.00	0.00	0.00
TD @ 17058' MD / 6284' TVD									
17,057.6	91.60	0.53	6,283.7	10,189.6	-1,538.5	10,305.1	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
- hit/miss target									
- Shape									
PBHL Peters 0781 10	0.00	360.00	6,283.8	10,189.6	-1,538.2	1,462,551.44	2,741,671.61	40° 35' 57.775 N	106° 25' 49.041 W
- plan misses target center by 0.3usft at 17057.6usft MD (6283.7 TVD, 10189.6 N, -1538.5 E)									
- Point									
LP Peters 0781 10-13	0.00	360.00	6,558.9	338.5	-1,629.6	1,452,700.37	2,741,580.20	40° 34' 20.427 N	106° 25' 48.886 W
- plan hits target center									
- Point									

Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Peters 0781 10-13H12
Company:	SandRidge Energy	TVD Reference:	WELL @ 8155.5usft
Project:	Jackson County, Colorado	MD Reference:	WELL @ 8155.5usft
Site:	Sec 12, T7N, R81W,6th PM	North Reference:	Grid
Well:	Peters 0781 10-13H12	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

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
1,000.0	997.5	21.8	-37.7	EOB @ 10° Inc / 300° Azm
1,500.0	1,489.9	65.2	-112.9	Drop 2°/100
2,000.0	1,987.3	86.9	-150.6	EOD @ Vert
2,300.0	2,287.3	86.9	-150.6	Build 2°/100
3,422.8	3,381.6	30.4	-360.3	EOB @ 22.46° Inc / 254.92° Azm
6,228.4	5,974.5	-248.4	-1,395.1	Build 10°/100'
7,202.3	6,558.9	338.5	-1,629.6	EOB @ 91.6° Inc / .53° Azm / 6559' TVD
17,057.6	6,283.7	10,189.6	-1,538.5	TD @ 17058' MD / 6284' TVD