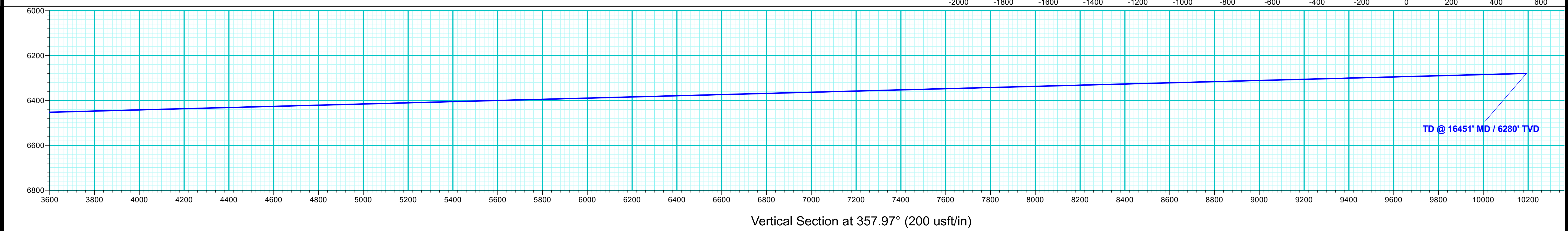


Peters 0781 9-13H12
Jackson County, Colorado
Q180*** & RM-180***
Design #1



SandRidge Energy

**Jackson County, Colorado
Sec 18, T7N, R80W, 6th PM
Peters 0781 9-13H12**

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 9-13H12
Company:	SandRidge Energy	TVD Reference:	WELL @ 8232.2usft
Project:	Jackson County, Colorado	MD Reference:	WELL @ 8232.2usft
Site:	Sec 18, T7N, R80W, 6th PM	North Reference:	Grid
Well:	Peters 0781 9-13H12	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
From:	Map	Easting:	2,743,129.82 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	40° 34' 17.248 N
		Longitude:	106° 25' 28.760 W
		Grid Convergence:	-0.60 °

Well	Peters 0781 9-13H12		
Well Position	+N/-S	0.0 usft	Northing: 1,452,362.47 usft
	+E/-W	0.0 usft	Easting: 2,743,129.82 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 40° 34' 17.248 N
			Longitude: 106° 25' 28.760 W
			Ground Level: 8,207.2 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	5/7/2018	8.99	66.70	52,170.52236045

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	357.97

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	
600.0	2.00	300.00	600.0	0.9	-1.5	2.00	2.00	0.00	300.00	
1,600.0	2.00	300.00	1,599.4	18.3	-31.7	0.00	0.00	0.00	0.00	
1,775.4	5.18	273.55	1,774.4	20.3	-42.3	2.00	1.82	-15.08	-41.13	
5,980.5	5.18	273.55	5,962.3	43.9	-421.5	0.00	0.00	0.00	0.00	
6,892.8	91.50	0.64	6,530.0	632.3	-467.7	10.00	9.46	9.55	86.97	LP Peters 0781 9-1
16,450.5	91.50	0.64	6,279.8	10,186.2	-360.9	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 9-13H12
Company:	SandRidge Energy	TVD Reference:	WELL @ 8232.2usft
Project:	Jackson County, Colorado	MD Reference:	WELL @ 8232.2usft
Site:	Sec 18, T7N, R80W, 6th PM	North Reference:	Grid
Well:	Peters 0781 9-13H12	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
EOB @ 2° Inc / 300° Azm									
600.0	2.00	300.00	600.0	0.9	-1.5	0.9	2.00	2.00	0.00
700.0	2.00	300.00	699.9	2.6	-4.5	2.8	0.00	0.00	0.00
800.0	2.00	300.00	799.9	4.4	-7.6	4.6	0.00	0.00	0.00
900.0	2.00	300.00	899.8	6.1	-10.6	6.5	0.00	0.00	0.00
1,000.0	2.00	300.00	999.7	7.9	-13.6	8.3	0.00	0.00	0.00
1,100.0	2.00	300.00	1,099.7	9.6	-16.6	10.2	0.00	0.00	0.00
1,200.0	2.00	300.00	1,199.6	11.3	-19.6	12.0	0.00	0.00	0.00
1,300.0	2.00	300.00	1,299.6	13.1	-22.7	13.9	0.00	0.00	0.00
1,400.0	2.00	300.00	1,399.5	14.8	-25.7	15.7	0.00	0.00	0.00
1,500.0	2.00	300.00	1,499.4	16.6	-28.7	17.6	0.00	0.00	0.00
Build 2°/100'									
1,600.0	2.00	300.00	1,599.4	18.3	-31.7	19.4	0.00	0.00	0.00
1,700.0	3.74	279.42	1,699.2	19.7	-36.5	21.0	2.00	1.74	-20.58
EOB @ 5.18° Inc / 273.55° Azm									
1,775.4	5.18	273.55	1,774.4	20.3	-42.3	21.8	2.00	1.91	-7.79
1,800.0	5.18	273.55	1,798.9	20.5	-44.5	22.0	0.00	0.00	0.00
1,900.0	5.18	273.55	1,898.5	21.0	-53.5	22.9	0.00	0.00	0.00
2,000.0	5.18	273.55	1,998.1	21.6	-62.6	23.8	0.00	0.00	0.00
2,100.0	5.18	273.55	2,097.7	22.2	-71.6	24.7	0.00	0.00	0.00
2,200.0	5.18	273.55	2,197.3	22.7	-80.6	25.6	0.00	0.00	0.00
2,300.0	5.18	273.55	2,296.9	23.3	-89.6	26.4	0.00	0.00	0.00
2,400.0	5.18	273.55	2,396.5	23.8	-98.6	27.3	0.00	0.00	0.00
2,500.0	5.18	273.55	2,496.0	24.4	-107.6	28.2	0.00	0.00	0.00
2,600.0	5.18	273.55	2,595.6	25.0	-116.7	29.1	0.00	0.00	0.00
2,700.0	5.18	273.55	2,695.2	25.5	-125.7	29.9	0.00	0.00	0.00
2,800.0	5.18	273.55	2,794.8	26.1	-134.7	30.8	0.00	0.00	0.00
2,900.0	5.18	273.55	2,894.4	26.6	-143.7	31.7	0.00	0.00	0.00
3,000.0	5.18	273.55	2,994.0	27.2	-152.7	32.6	0.00	0.00	0.00
3,100.0	5.18	273.55	3,093.6	27.7	-161.7	33.5	0.00	0.00	0.00
3,200.0	5.18	273.55	3,193.2	28.3	-170.8	34.3	0.00	0.00	0.00
3,300.0	5.18	273.55	3,292.8	28.9	-179.8	35.2	0.00	0.00	0.00
3,400.0	5.18	273.55	3,392.4	29.4	-188.8	36.1	0.00	0.00	0.00
3,500.0	5.18	273.55	3,492.0	30.0	-197.8	37.0	0.00	0.00	0.00
3,600.0	5.18	273.55	3,591.6	30.5	-206.8	37.8	0.00	0.00	0.00
3,700.0	5.18	273.55	3,691.1	31.1	-215.8	38.7	0.00	0.00	0.00
3,800.0	5.18	273.55	3,790.7	31.7	-224.9	39.6	0.00	0.00	0.00
3,900.0	5.18	273.55	3,890.3	32.2	-233.9	40.5	0.00	0.00	0.00
4,000.0	5.18	273.55	3,989.9	32.8	-242.9	41.4	0.00	0.00	0.00
4,100.0	5.18	273.55	4,089.5	33.3	-251.9	42.2	0.00	0.00	0.00
4,200.0	5.18	273.55	4,189.1	33.9	-260.9	43.1	0.00	0.00	0.00
4,300.0	5.18	273.55	4,288.7	34.5	-269.9	44.0	0.00	0.00	0.00
4,400.0	5.18	273.55	4,388.3	35.0	-279.0	44.9	0.00	0.00	0.00
4,500.0	5.18	273.55	4,487.9	35.6	-288.0	45.8	0.00	0.00	0.00
4,600.0	5.18	273.55	4,587.5	36.1	-297.0	46.6	0.00	0.00	0.00
4,700.0	5.18	273.55	4,687.1	36.7	-306.0	47.5	0.00	0.00	0.00
4,800.0	5.18	273.55	4,786.6	37.3	-315.0	48.4	0.00	0.00	0.00

Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Peters 0781 9-13H12
Company:	SandRidge Energy	TVD Reference:	WELL @ 8232.2usft
Project:	Jackson County, Colorado	MD Reference:	WELL @ 8232.2usft
Site:	Sec 18, T7N, R80W, 6th PM	North Reference:	Grid
Well:	Peters 0781 9-13H12	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)
4,900.0	5.18	273.55	4,886.2	37.8	-324.0	49.3	0.00	0.00	0.00
5,000.0	5.18	273.55	4,985.8	38.4	-333.1	50.1	0.00	0.00	0.00
5,100.0	5.18	273.55	5,085.4	38.9	-342.1	51.0	0.00	0.00	0.00
5,200.0	5.18	273.55	5,185.0	39.5	-351.1	51.9	0.00	0.00	0.00
5,300.0	5.18	273.55	5,284.6	40.0	-360.1	52.8	0.00	0.00	0.00
5,400.0	5.18	273.55	5,384.2	40.6	-369.1	53.7	0.00	0.00	0.00
5,500.0	5.18	273.55	5,483.8	41.2	-378.2	54.5	0.00	0.00	0.00
5,600.0	5.18	273.55	5,583.4	41.7	-387.2	55.4	0.00	0.00	0.00
5,700.0	5.18	273.55	5,683.0	42.3	-396.2	56.3	0.00	0.00	0.00
5,800.0	5.18	273.55	5,782.6	42.8	-405.2	57.2	0.00	0.00	0.00
5,900.0	5.18	273.55	5,882.1	43.4	-414.2	58.0	0.00	0.00	0.00
Build 10°/100'									
5,980.5	5.18	273.55	5,962.3	43.9	-421.5	58.8	0.00	0.00	0.00
6,000.0	5.63	293.81	5,981.7	44.3	-423.2	59.3	10.00	2.31	103.87
6,050.0	8.88	325.07	6,031.3	48.5	-427.7	63.6	10.00	6.49	62.52
6,100.0	13.26	337.90	6,080.4	56.9	-432.1	72.2	10.00	8.76	25.66
6,150.0	17.96	344.28	6,128.6	69.7	-436.3	85.1	10.00	9.41	12.76
6,200.0	22.79	348.05	6,175.4	86.6	-440.4	102.1	10.00	9.65	7.55
6,250.0	27.68	350.56	6,220.6	107.5	-444.3	123.2	10.00	9.77	5.01
6,300.0	32.59	352.36	6,263.9	132.3	-448.0	148.1	10.00	9.84	3.60
6,350.0	37.53	353.73	6,304.8	160.8	-451.5	176.7	10.00	9.88	2.75
6,400.0	42.48	354.83	6,343.1	192.8	-454.7	208.8	10.00	9.90	2.19
6,450.0	47.44	355.73	6,378.4	228.0	-457.6	244.1	10.00	9.92	1.81
6,500.0	52.41	356.51	6,410.6	266.2	-460.1	282.3	10.00	9.93	1.54
6,550.0	57.38	357.18	6,439.4	307.0	-462.4	323.2	10.00	9.94	1.35
6,600.0	62.35	357.78	6,464.5	350.2	-464.3	366.4	10.00	9.95	1.21
6,650.0	67.32	358.34	6,485.7	395.4	-465.8	411.7	10.00	9.95	1.10
6,700.0	72.30	358.85	6,503.0	442.3	-466.9	458.6	10.00	9.95	1.03
6,750.0	77.28	359.33	6,516.1	490.5	-467.7	506.8	10.00	9.96	0.97
6,800.0	82.26	359.80	6,525.0	539.7	-468.1	556.0	10.00	9.96	0.93
6,850.0	87.24	0.25	6,529.5	589.5	-468.1	605.7	10.00	9.96	0.91
EOB @ 91.5° Inc / .64° Azm / 6530' TVD									
6,892.8	91.50	0.64	6,530.0	632.3	-467.7	648.5	10.00	9.96	0.90
6,900.0	91.50	0.64	6,529.8	639.5	-467.6	655.6	0.00	0.00	0.00
7,000.0	91.50	0.64	6,527.2	739.4	-466.5	755.5	0.00	0.00	0.00
7,100.0	91.50	0.64	6,524.6	839.4	-465.4	855.4	0.00	0.00	0.00
7,200.0	91.50	0.64	6,522.0	939.4	-464.3	955.2	0.00	0.00	0.00
7,300.0	91.50	0.64	6,519.3	1,039.3	-463.2	1,055.1	0.00	0.00	0.00
7,400.0	91.50	0.64	6,516.7	1,139.3	-462.1	1,154.9	0.00	0.00	0.00
7,500.0	91.50	0.64	6,514.1	1,239.2	-460.9	1,254.8	0.00	0.00	0.00
7,600.0	91.50	0.64	6,511.5	1,339.2	-459.8	1,354.6	0.00	0.00	0.00
7,700.0	91.50	0.64	6,508.9	1,439.2	-458.7	1,454.5	0.00	0.00	0.00
7,800.0	91.50	0.64	6,506.3	1,539.1	-457.6	1,554.4	0.00	0.00	0.00
7,900.0	91.50	0.64	6,503.6	1,639.1	-456.5	1,654.2	0.00	0.00	0.00
8,000.0	91.50	0.64	6,501.0	1,739.0	-455.3	1,754.1	0.00	0.00	0.00
8,100.0	91.50	0.64	6,498.4	1,839.0	-454.2	1,853.9	0.00	0.00	0.00
8,200.0	91.50	0.64	6,495.8	1,939.0	-453.1	1,953.8	0.00	0.00	0.00
8,300.0	91.50	0.64	6,493.2	2,038.9	-452.0	2,053.6	0.00	0.00	0.00
8,400.0	91.50	0.64	6,490.5	2,138.9	-450.9	2,153.5	0.00	0.00	0.00
8,500.0	91.50	0.64	6,487.9	2,238.8	-449.8	2,253.4	0.00	0.00	0.00
8,600.0	91.50	0.64	6,485.3	2,338.8	-448.6	2,353.2	0.00	0.00	0.00
8,700.0	91.50	0.64	6,482.7	2,438.8	-447.5	2,453.1	0.00	0.00	0.00
8,800.0	91.50	0.64	6,480.1	2,538.7	-446.4	2,552.9	0.00	0.00	0.00

Well Planning Report



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Well:	Peters 0781 9-13H12	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)
8,900.0	91.50	0.64	6,477.5	2,638.7	-445.3	2,652.8	0.00	0.00	0.00
9,000.0	91.50	0.64	6,474.8	2,738.6	-444.2	2,752.6	0.00	0.00	0.00
9,100.0	91.50	0.64	6,472.2	2,838.6	-443.0	2,852.5	0.00	0.00	0.00
9,200.0	91.50	0.64	6,469.6	2,938.6	-441.9	2,952.4	0.00	0.00	0.00
9,300.0	91.50	0.64	6,467.0	3,038.5	-440.8	3,052.2	0.00	0.00	0.00
9,400.0	91.50	0.64	6,464.4	3,138.5	-439.7	3,152.1	0.00	0.00	0.00
9,500.0	91.50	0.64	6,461.8	3,238.4	-438.6	3,251.9	0.00	0.00	0.00
9,600.0	91.50	0.64	6,459.1	3,338.4	-437.5	3,351.8	0.00	0.00	0.00
9,700.0	91.50	0.64	6,456.5	3,438.3	-436.3	3,451.6	0.00	0.00	0.00
9,800.0	91.50	0.64	6,453.9	3,538.3	-435.2	3,551.5	0.00	0.00	0.00
9,900.0	91.50	0.64	6,451.3	3,638.3	-434.1	3,651.4	0.00	0.00	0.00
10,000.0	91.50	0.64	6,448.7	3,738.2	-433.0	3,751.2	0.00	0.00	0.00
10,100.0	91.50	0.64	6,446.0	3,838.2	-431.9	3,851.1	0.00	0.00	0.00
10,200.0	91.50	0.64	6,443.4	3,938.1	-430.8	3,950.9	0.00	0.00	0.00
10,300.0	91.50	0.64	6,440.8	4,038.1	-429.6	4,050.8	0.00	0.00	0.00
10,400.0	91.50	0.64	6,438.2	4,138.1	-428.5	4,150.6	0.00	0.00	0.00
10,500.0	91.50	0.64	6,435.6	4,238.0	-427.4	4,250.5	0.00	0.00	0.00
10,600.0	91.50	0.64	6,433.0	4,338.0	-426.3	4,350.4	0.00	0.00	0.00
10,700.0	91.50	0.64	6,430.3	4,437.9	-425.2	4,450.2	0.00	0.00	0.00
10,800.0	91.50	0.64	6,427.7	4,537.9	-424.0	4,550.1	0.00	0.00	0.00
10,900.0	91.50	0.64	6,425.1	4,637.9	-422.9	4,649.9	0.00	0.00	0.00
11,000.0	91.50	0.64	6,422.5	4,737.8	-421.8	4,749.8	0.00	0.00	0.00
11,100.0	91.50	0.64	6,419.9	4,837.8	-420.7	4,849.6	0.00	0.00	0.00
11,200.0	91.50	0.64	6,417.3	4,937.7	-419.6	4,949.5	0.00	0.00	0.00
11,300.0	91.50	0.64	6,414.6	5,037.7	-418.5	5,049.4	0.00	0.00	0.00
11,400.0	91.50	0.64	6,412.0	5,137.7	-417.3	5,149.2	0.00	0.00	0.00
11,500.0	91.50	0.64	6,409.4	5,237.6	-416.2	5,249.1	0.00	0.00	0.00
11,600.0	91.50	0.64	6,406.8	5,337.6	-415.1	5,348.9	0.00	0.00	0.00
11,700.0	91.50	0.64	6,404.2	5,437.5	-414.0	5,448.8	0.00	0.00	0.00
11,800.0	91.50	0.64	6,401.5	5,537.5	-412.9	5,548.6	0.00	0.00	0.00
11,900.0	91.50	0.64	6,398.9	5,637.5	-411.7	5,648.5	0.00	0.00	0.00
12,000.0	91.50	0.64	6,396.3	5,737.4	-410.6	5,748.4	0.00	0.00	0.00
12,100.0	91.50	0.64	6,393.7	5,837.4	-409.5	5,848.2	0.00	0.00	0.00
12,200.0	91.50	0.64	6,391.1	5,937.3	-408.4	5,948.1	0.00	0.00	0.00
12,300.0	91.50	0.64	6,388.5	6,037.3	-407.3	6,047.9	0.00	0.00	0.00
12,400.0	91.50	0.64	6,385.8	6,137.3	-406.2	6,147.8	0.00	0.00	0.00
12,500.0	91.50	0.64	6,383.2	6,237.2	-405.0	6,247.6	0.00	0.00	0.00
12,600.0	91.50	0.64	6,380.6	6,337.2	-403.9	6,347.5	0.00	0.00	0.00
12,700.0	91.50	0.64	6,378.0	6,437.1	-402.8	6,447.4	0.00	0.00	0.00
12,800.0	91.50	0.64	6,375.4	6,537.1	-401.7	6,547.2	0.00	0.00	0.00
12,900.0	91.50	0.64	6,372.7	6,637.1	-400.6	6,647.1	0.00	0.00	0.00
13,000.0	91.50	0.64	6,370.1	6,737.0	-399.5	6,746.9	0.00	0.00	0.00
13,100.0	91.50	0.64	6,367.5	6,837.0	-398.3	6,846.8	0.00	0.00	0.00
13,200.0	91.50	0.64	6,364.9	6,936.9	-397.2	6,946.6	0.00	0.00	0.00
13,300.0	91.50	0.64	6,362.3	7,036.9	-396.1	7,046.5	0.00	0.00	0.00
13,400.0	91.50	0.64	6,359.7	7,136.8	-395.0	7,146.4	0.00	0.00	0.00
13,500.0	91.50	0.64	6,357.0	7,236.8	-393.9	7,246.2	0.00	0.00	0.00
13,600.0	91.50	0.64	6,354.4	7,336.8	-392.7	7,346.1	0.00	0.00	0.00
13,700.0	91.50	0.64	6,351.8	7,436.7	-391.6	7,445.9	0.00	0.00	0.00
13,800.0	91.50	0.64	6,349.2	7,536.7	-390.5	7,545.8	0.00	0.00	0.00
13,900.0	91.50	0.64	6,346.6	7,636.6	-389.4	7,645.6	0.00	0.00	0.00
14,000.0	91.50	0.64	6,344.0	7,736.6	-388.3	7,745.5	0.00	0.00	0.00
14,100.0	91.50	0.64	6,341.3	7,836.6	-387.2	7,845.4	0.00	0.00	0.00
14,200.0	91.50	0.64	6,338.7	7,936.5	-386.0	7,945.2	0.00	0.00	0.00

Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Peters 0781 9-13H12
Company:	SandRidge Energy	TVD Reference:	WELL @ 8232.2usft
Project:	Jackson County, Colorado	MD Reference:	WELL @ 8232.2usft
Site:	Sec 18, T7N, R80W, 6th PM	North Reference:	Grid
Well:	Peters 0781 9-13H12	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)
14,300.0	91.50	0.64	6,336.1	8,036.5	-384.9	8,045.1	0.00	0.00	0.00
14,400.0	91.50	0.64	6,333.5	8,136.4	-383.8	8,144.9	0.00	0.00	0.00
14,500.0	91.50	0.64	6,330.9	8,236.4	-382.7	8,244.8	0.00	0.00	0.00
14,600.0	91.50	0.64	6,328.2	8,336.4	-381.6	8,344.6	0.00	0.00	0.00
14,700.0	91.50	0.64	6,325.6	8,436.3	-380.4	8,444.5	0.00	0.00	0.00
14,800.0	91.50	0.64	6,323.0	8,536.3	-379.3	8,544.4	0.00	0.00	0.00
14,900.0	91.50	0.64	6,320.4	8,636.2	-378.2	8,644.2	0.00	0.00	0.00
15,000.0	91.50	0.64	6,317.8	8,736.2	-377.1	8,744.1	0.00	0.00	0.00
15,100.0	91.50	0.64	6,315.2	8,836.2	-376.0	8,843.9	0.00	0.00	0.00
15,200.0	91.50	0.64	6,312.5	8,936.1	-374.9	8,943.8	0.00	0.00	0.00
15,300.0	91.50	0.64	6,309.9	9,036.1	-373.7	9,043.6	0.00	0.00	0.00
15,400.0	91.50	0.64	6,307.3	9,136.0	-372.6	9,143.5	0.00	0.00	0.00
15,500.0	91.50	0.64	6,304.7	9,236.0	-371.5	9,243.4	0.00	0.00	0.00
15,600.0	91.50	0.64	6,302.1	9,336.0	-370.4	9,343.2	0.00	0.00	0.00
15,700.0	91.50	0.64	6,299.5	9,435.9	-369.3	9,443.1	0.00	0.00	0.00
15,800.0	91.50	0.64	6,296.8	9,535.9	-368.2	9,542.9	0.00	0.00	0.00
15,900.0	91.50	0.64	6,294.2	9,635.8	-367.0	9,642.8	0.00	0.00	0.00
16,000.0	91.50	0.64	6,291.6	9,735.8	-365.9	9,742.6	0.00	0.00	0.00
16,100.0	91.50	0.64	6,289.0	9,835.8	-364.8	9,842.5	0.00	0.00	0.00
16,200.0	91.50	0.64	6,286.4	9,935.7	-363.7	9,942.4	0.00	0.00	0.00
16,300.0	91.50	0.64	6,283.7	10,035.7	-362.6	10,042.2	0.00	0.00	0.00
16,400.0	91.50	0.64	6,281.1	10,135.6	-361.4	10,142.1	0.00	0.00	0.00
TD @ 16451' MD / 6280' TVD									
16,450.5	91.50	0.64	6,279.8	10,186.2	-360.9	10,192.5	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 9-'	0.00	0.00	0.0	10,186.2	-360.9	1,462,548.63	2,742,768.94	40° 35' 57.861 N	106° 25' 34.815 W
- plan misses target center by 6279.8usft at 16450.5usft MD (6279.8 TVD, 10186.2 N, -360.9 E)									
- Point									
LP Peters 0781 9-13H	0.00	360.00	6,530.0	632.3	-467.7	1,452,994.77	2,742,662.10	40° 34' 23.448 N	106° 25' 34.907 W
- plan hits target center									
- Point									

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
500.0	500.0	0.0	0.0	Build 2°/100'
600.0	600.0	0.9	-1.5	EOB @ 2° Inc / 300° Azm
1,600.0	1,599.4	18.3	-31.7	Build 2°/100'
1,775.4	1,774.4	20.3	-42.3	EOB @ 5.18° Inc / 273.55° Azm
5,980.5	5,962.3	43.9	-421.5	Build 10°/100'
6,892.8	6,530.0	632.3	-467.7	EOB @ 91.5° Inc / .64° Azm / 6530' TVD
16,450.5	6,279.8	10,186.2	-360.9	TD @ 16451' MD / 6280' TVD