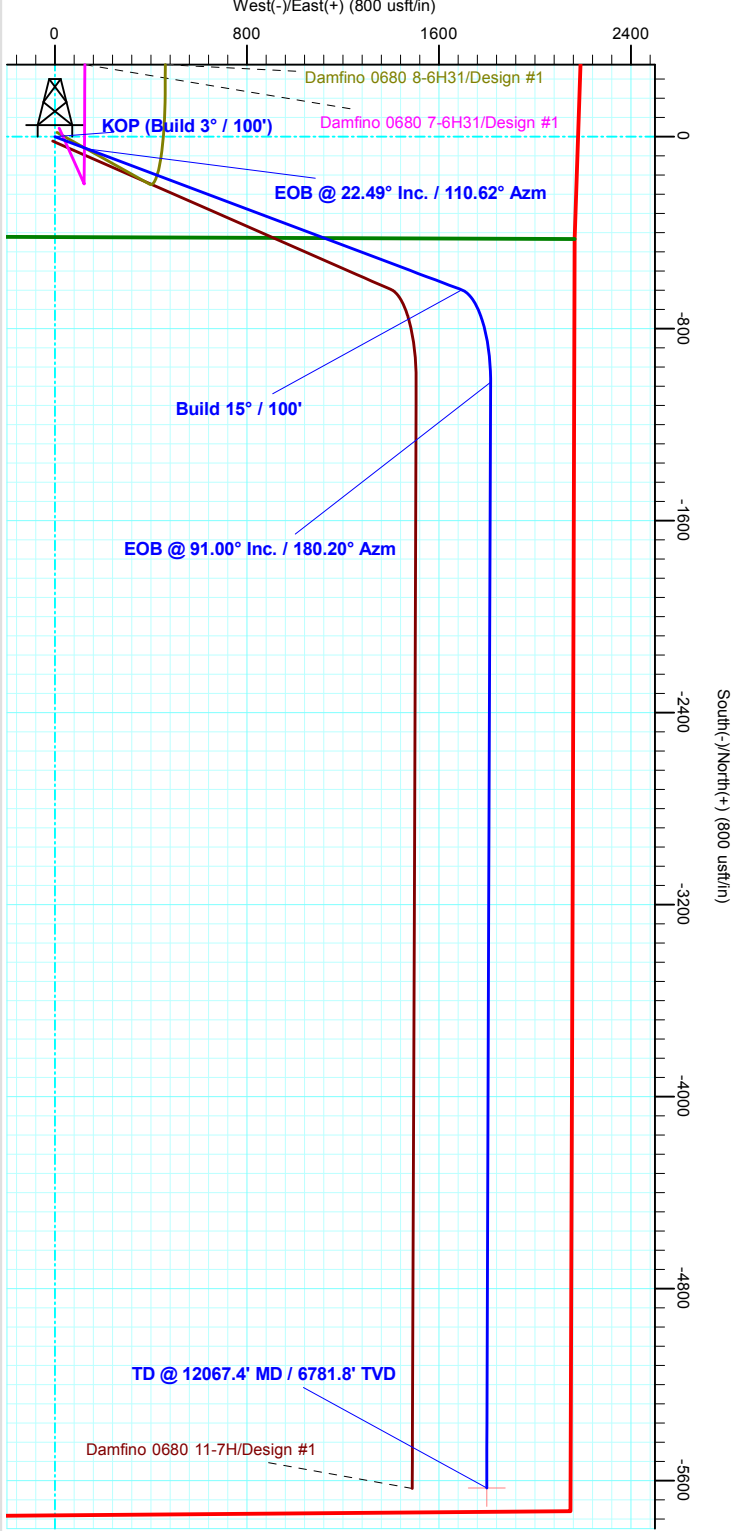
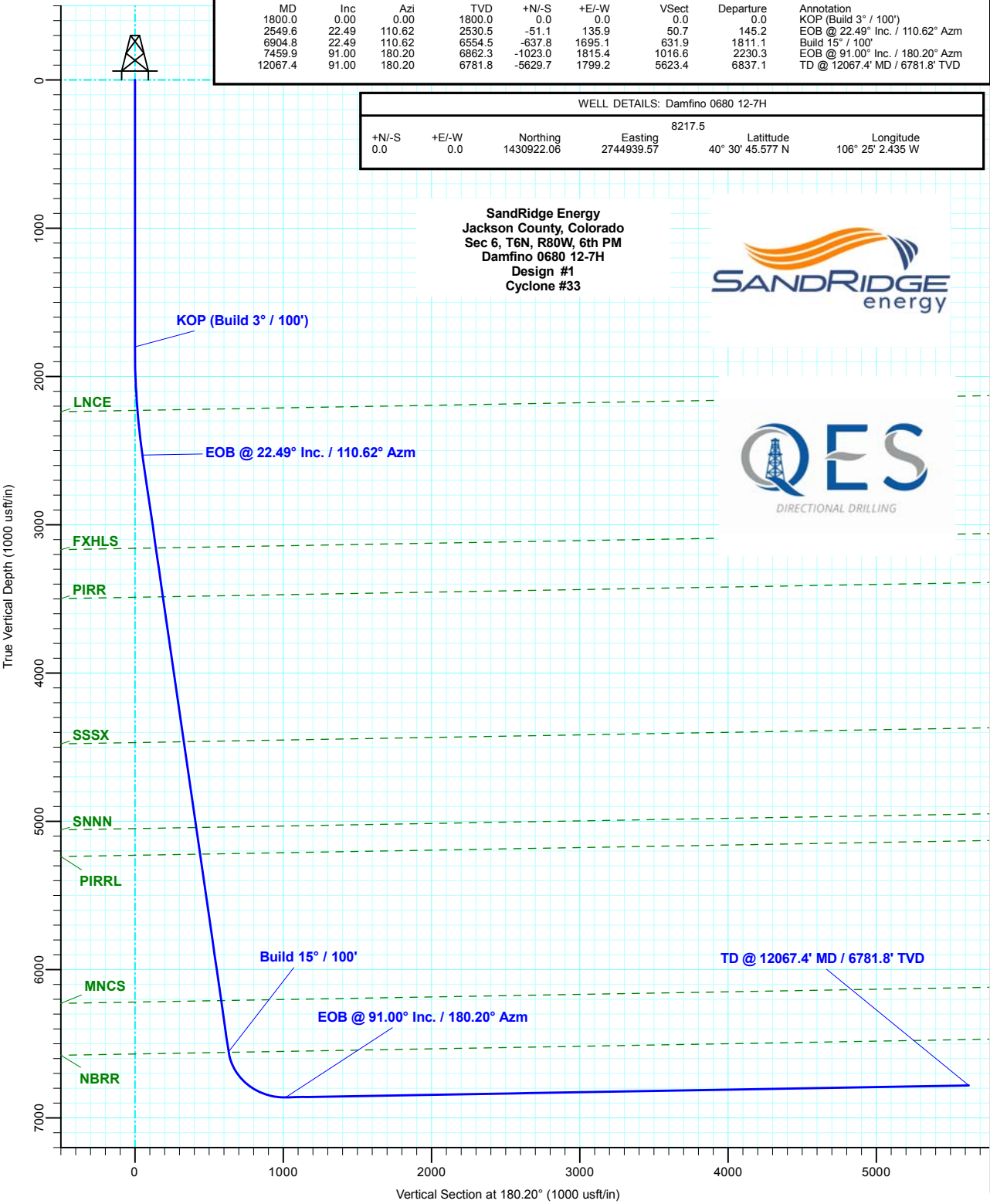


ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation	
1800.0	0.00	0.00	1800.0	0.0	0.0	0.0	0.0	KOP (Build 3° / 100')	
2549.6	22.49	110.62	2530.5	-51.1	135.9	50.7	145.2	EOB @ 22.49° Inc. / 110.62° Azm	
6904.8	22.49	110.62	6554.5	-637.8	1695.1	631.9	1811.1	Build 15° / 100'	
7459.9	91.00	180.20	6862.3	-1023.0	1815.4	1016.6	2230.3	EOB @ 91.00° Inc. / 180.20° Azm	
12067.4	91.00	180.20	6781.8	-5629.7	1799.2	5623.4	6837.1	TD @ 12067.4' MD / 6781.8' TVD	

WELL DETAILS: Damfino 0680 12-7H					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	1430922.06	2744939.57	40° 30' 45.577 N	106° 25' 2.435 W

SandRidge Energy
 Jackson County, Colorado
 Sec 6, T6N, R80W, 6th PM
 Damfino 0680 12-7H
 Design #1
 Cyclone #33





SandRidge Energy

**Jackson County, Colorado
Sec 6, T6N, R80W, 6th PM
Damfino 0680 12-7H**

Wellbore #1

Plan: Design #1

QES Well Planning Report

02 October, 2018



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Damfino 0680 12-7H
Company:	SandRidge Energy	TVD Reference:	RKB @ 8243.5usft (Cyclone #33)
Project:	Jackson County, Colorado	MD Reference:	RKB @ 8243.5usft (Cyclone #33)
Site:	Sec 6, T6N, R80W, 6th PM	North Reference:	True
Well:	Damfino 0680 12-7H	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 6, T6N, R80W, 6th PM			
Site Position:		Northing:	1,430,957.42 usft	Latitude:	40° 30' 45.929 N
From:	Map	Easting:	2,744,958.23 usft	Longitude:	106° 25' 2.198 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.59 °

Well	Damfino 0680 12-7H					
Well Position	+N/-S	-35.6 usft	Northing:	1,430,922.06 usft	Latitude:	40° 30' 45.577 N
	+E/-W	-18.3 usft	Easting:	2,744,939.57 usft	Longitude:	106° 25' 2.435 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	8,217.5 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	9/27/2018	8.94	66.65	52,096.27888476

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	180.20

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	
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,549.6	22.49	110.62	2,530.5	-51.1	135.9	3.00	3.00	0.00	110.62	
6,904.8	22.49	110.62	6,554.5	-637.8	1,695.1	0.00	0.00	0.00	0.00	
7,459.9	91.00	180.20	6,862.3	-1,023.0	1,815.4	15.00	12.34	12.54	70.66	
12,067.4	91.00	180.20	6,781.8	-5,629.7	1,799.2	0.00	0.00	0.00	0.00	PBHL - Damfino 06

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Damfino 0680 12-7H
Company:	SandRidge Energy	TVD Reference:	RKB @ 8243.5usft (Cyclone #33)
Project:	Jackson County, Colorado	MD Reference:	RKB @ 8243.5usft (Cyclone #33)
Site:	Sec 6, T6N, R80W, 6th PM	North Reference:	True
Well:	Damfino 0680 12-7H	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
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
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
KOP (Build 3° / 100')									
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	3.00	110.62	1,900.0	-0.9	2.4	0.9	3.00	3.00	0.00
2,000.0	6.00	110.62	1,999.6	-3.7	9.8	3.7	3.00	3.00	0.00
2,100.0	9.00	110.62	2,098.8	-8.3	22.0	8.2	3.00	3.00	0.00
2,200.0	12.00	110.62	2,197.1	-14.7	39.1	14.6	3.00	3.00	0.00
LNCE									
2,233.4	13.00	110.62	2,229.7	-17.2	45.8	17.1	3.00	3.00	0.00
2,300.0	15.00	110.62	2,294.3	-22.9	60.9	22.7	3.00	3.00	0.00
2,400.0	18.00	110.62	2,390.2	-32.9	87.5	32.6	3.00	3.00	0.00
2,500.0	21.00	110.62	2,484.4	-44.7	118.7	44.3	3.00	3.00	0.00
EOB @ 22.49° Inc. / 110.62° Azm									
2,549.6	22.49	110.62	2,530.5	-51.1	135.9	50.7	3.00	3.00	0.00
2,600.0	22.49	110.62	2,577.1	-57.9	154.0	57.4	0.00	0.00	0.00
2,700.0	22.49	110.62	2,669.5	-71.4	189.8	70.7	0.00	0.00	0.00
2,800.0	22.49	110.62	2,761.9	-84.9	225.6	84.1	0.00	0.00	0.00
2,900.0	22.49	110.62	2,854.3	-98.3	261.4	97.4	0.00	0.00	0.00
3,000.0	22.49	110.62	2,946.7	-111.8	297.2	110.8	0.00	0.00	0.00
3,100.0	22.49	110.62	3,039.0	-125.3	333.0	124.1	0.00	0.00	0.00
3,200.0	22.49	110.62	3,131.4	-138.8	368.8	137.5	0.00	0.00	0.00
FXHLS									
3,228.2	22.49	110.62	3,157.5	-142.6	378.9	141.2	0.00	0.00	0.00
3,300.0	22.49	110.62	3,223.8	-152.2	404.6	150.8	0.00	0.00	0.00
3,400.0	22.49	110.62	3,316.2	-165.7	440.4	164.2	0.00	0.00	0.00
3,500.0	22.49	110.62	3,408.6	-179.2	476.2	177.5	0.00	0.00	0.00
PIRR									
3,584.5	22.49	110.62	3,486.7	-190.5	506.4	188.8	0.00	0.00	0.00
3,600.0	22.49	110.62	3,501.0	-192.6	512.0	190.8	0.00	0.00	0.00
3,700.0	22.49	110.62	3,593.4	-206.1	547.8	204.2	0.00	0.00	0.00
3,800.0	22.49	110.62	3,685.8	-219.6	583.6	217.5	0.00	0.00	0.00
3,900.0	22.49	110.62	3,778.2	-233.0	619.4	230.9	0.00	0.00	0.00
4,000.0	22.49	110.62	3,870.6	-246.5	655.2	244.2	0.00	0.00	0.00
4,100.0	22.49	110.62	3,963.0	-260.0	691.0	257.6	0.00	0.00	0.00
4,200.0	22.49	110.62	4,055.4	-273.5	726.8	270.9	0.00	0.00	0.00
4,300.0	22.49	110.62	4,147.8	-286.9	762.6	284.3	0.00	0.00	0.00
4,400.0	22.49	110.62	4,240.2	-300.4	798.4	297.6	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Damfino 0680 12-7H
Company:	SandRidge Energy	TVD Reference:	RKB @ 8243.5usft (Cyclone #33)
Project:	Jackson County, Colorado	MD Reference:	RKB @ 8243.5usft (Cyclone #33)
Site:	Sec 6, T6N, R80W, 6th PM	North Reference:	True
Well:	Damfino 0680 12-7H	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)
4,500.0	22.49	110.62	4,332.6	-313.9	834.2	310.9	0.00	0.00	0.00
4,600.0	22.49	110.62	4,425.0	-327.3	870.0	324.3	0.00	0.00	0.00
SSSX									
4,642.5	22.49	110.62	4,464.2	-333.1	885.2	330.0	0.00	0.00	0.00
4,700.0	22.49	110.62	4,517.4	-340.8	905.8	337.6	0.00	0.00	0.00
4,800.0	22.49	110.62	4,609.8	-354.3	941.6	351.0	0.00	0.00	0.00
4,900.0	22.49	110.62	4,702.2	-367.7	977.4	364.3	0.00	0.00	0.00
5,000.0	22.49	110.62	4,794.6	-381.2	1,013.2	377.7	0.00	0.00	0.00
5,100.0	22.49	110.62	4,887.0	-394.7	1,049.0	391.0	0.00	0.00	0.00
5,200.0	22.49	110.62	4,979.3	-408.2	1,084.8	404.4	0.00	0.00	0.00
SNNN									
5,268.7	22.49	110.62	5,042.8	-417.4	1,109.4	413.5	0.00	0.00	0.00
5,300.0	22.49	110.62	5,071.7	-421.6	1,120.6	417.7	0.00	0.00	0.00
5,400.0	22.49	110.62	5,164.1	-435.1	1,156.4	431.1	0.00	0.00	0.00
PIRRL									
5,463.0	22.49	110.62	5,222.3	-443.6	1,178.9	439.5	0.00	0.00	0.00
5,500.0	22.49	110.62	5,256.5	-448.6	1,192.2	444.4	0.00	0.00	0.00
5,600.0	22.49	110.62	5,348.9	-462.0	1,228.0	457.7	0.00	0.00	0.00
5,700.0	22.49	110.62	5,441.3	-475.5	1,263.8	471.1	0.00	0.00	0.00
5,800.0	22.49	110.62	5,533.7	-489.0	1,299.6	484.4	0.00	0.00	0.00
5,900.0	22.49	110.62	5,626.1	-502.4	1,335.4	497.8	0.00	0.00	0.00
6,000.0	22.49	110.62	5,718.5	-515.9	1,371.2	511.1	0.00	0.00	0.00
6,100.0	22.49	110.62	5,810.9	-529.4	1,407.0	524.5	0.00	0.00	0.00
6,200.0	22.49	110.62	5,903.3	-542.9	1,442.8	537.8	0.00	0.00	0.00
6,300.0	22.49	110.62	5,995.7	-556.3	1,478.6	551.2	0.00	0.00	0.00
6,400.0	22.49	110.62	6,088.1	-569.8	1,514.4	564.5	0.00	0.00	0.00
6,500.0	22.49	110.62	6,180.5	-583.3	1,550.2	577.8	0.00	0.00	0.00
MNCS									
6,531.8	22.49	110.62	6,209.8	-587.5	1,561.6	582.1	0.00	0.00	0.00
6,600.0	22.49	110.62	6,272.9	-596.7	1,586.0	591.2	0.00	0.00	0.00
6,700.0	22.49	110.62	6,365.3	-610.2	1,621.8	604.5	0.00	0.00	0.00
6,800.0	22.49	110.62	6,457.7	-623.7	1,657.6	617.9	0.00	0.00	0.00
Build 15° / 100'									
6,904.8	22.49	110.62	6,554.5	-637.8	1,695.1	631.9	0.00	0.00	0.00
NBRR									
6,909.6	22.74	112.39	6,559.0	-638.5	1,696.8	632.5	15.00	5.17	36.62
6,925.0	23.66	117.77	6,573.1	-641.0	1,702.3	635.1	15.00	5.98	34.94
6,950.0	25.51	125.62	6,595.8	-646.5	1,711.1	640.5	15.00	7.40	31.40
6,975.0	27.72	132.38	6,618.2	-653.6	1,719.8	647.6	15.00	8.85	27.07
7,000.0	30.22	138.17	6,640.1	-662.2	1,728.3	656.1	15.00	9.98	23.15
7,025.0	32.93	143.12	6,661.4	-672.3	1,736.6	666.2	15.00	10.85	19.80
7,050.0	35.81	147.38	6,682.0	-683.9	1,744.6	677.8	15.00	11.52	17.02
7,075.0	38.82	151.07	6,701.9	-696.9	1,752.3	690.8	15.00	12.04	14.76
7,100.0	41.93	154.30	6,720.9	-711.3	1,759.7	705.2	15.00	12.45	12.92
7,125.0	45.13	157.15	6,739.0	-727.0	1,766.8	720.8	15.00	12.77	11.43
7,150.0	48.38	159.71	6,756.2	-743.9	1,773.5	737.8	15.00	13.03	10.21
7,175.0	51.69	162.01	6,772.2	-762.0	1,779.8	755.8	15.00	13.23	9.22
7,200.0	55.04	164.12	6,787.1	-781.2	1,785.6	775.0	15.00	13.40	8.41
7,225.0	58.42	166.05	6,800.9	-801.4	1,791.0	795.2	15.00	13.53	7.75
7,250.0	61.83	167.86	6,813.3	-822.6	1,795.9	816.3	15.00	13.64	7.20
7,275.0	65.26	169.54	6,824.4	-844.5	1,800.2	838.2	15.00	13.73	6.76
7,300.0	68.71	171.14	6,834.2	-867.2	1,804.1	860.9	15.00	13.80	6.39
7,325.0	72.18	172.67	6,842.6	-890.5	1,807.4	884.2	15.00	13.86	6.10

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Damfino 0680 12-7H
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Project:	Jackson County, Colorado	MD Reference:	RKB @ 8243.5usft (Cyclone #33)
Site:	Sec 6, T6N, R80W, 6th PM	North Reference:	True
Well:	Damfino 0680 12-7H	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)
7,350.0	75.65	174.13	6,849.5	-914.4	1,810.2	908.0	15.00	13.90	5.87
7,375.0	79.14	175.56	6,855.0	-938.6	1,812.3	932.3	15.00	13.94	5.69
7,400.0	82.63	176.94	6,858.9	-963.3	1,814.0	956.9	15.00	13.96	5.56
7,425.0	86.12	178.31	6,861.4	-988.1	1,815.0	981.8	15.00	13.98	5.47
7,450.0	89.62	179.67	6,862.3	-1,013.1	1,815.4	1,006.8	15.00	13.99	5.42
EOB @ 91.00° Inc. / 180.20° Azm									
7,459.9	91.00	180.20	6,862.3	-1,023.0	1,815.4	1,016.6	15.00	13.99	5.41
7,500.0	91.00	180.20	6,861.6	-1,063.1	1,815.3	1,056.8	0.00	0.00	0.00
7,600.0	91.00	180.20	6,859.8	-1,163.1	1,814.9	1,156.7	0.00	0.00	0.00
7,700.0	91.00	180.20	6,858.1	-1,263.1	1,814.6	1,256.7	0.00	0.00	0.00
7,800.0	91.00	180.20	6,856.3	-1,363.0	1,814.2	1,356.7	0.00	0.00	0.00
7,900.0	91.00	180.20	6,854.6	-1,463.0	1,813.9	1,456.7	0.00	0.00	0.00
8,000.0	91.00	180.20	6,852.8	-1,563.0	1,813.5	1,556.7	0.00	0.00	0.00
8,100.0	91.00	180.20	6,851.1	-1,663.0	1,813.2	1,656.7	0.00	0.00	0.00
8,200.0	91.00	180.20	6,849.3	-1,763.0	1,812.8	1,756.6	0.00	0.00	0.00
8,300.0	91.00	180.20	6,847.6	-1,863.0	1,812.5	1,856.6	0.00	0.00	0.00
8,400.0	91.00	180.20	6,845.8	-1,963.0	1,812.1	1,956.6	0.00	0.00	0.00
8,500.0	91.00	180.20	6,844.1	-2,062.9	1,811.8	2,056.6	0.00	0.00	0.00
8,600.0	91.00	180.20	6,842.4	-2,162.9	1,811.4	2,156.6	0.00	0.00	0.00
8,700.0	91.00	180.20	6,840.6	-2,262.9	1,811.1	2,256.6	0.00	0.00	0.00
8,800.0	91.00	180.20	6,838.9	-2,362.9	1,810.7	2,356.6	0.00	0.00	0.00
8,900.0	91.00	180.20	6,837.1	-2,462.9	1,810.4	2,456.5	0.00	0.00	0.00
9,000.0	91.00	180.20	6,835.4	-2,562.9	1,810.0	2,556.5	0.00	0.00	0.00
9,100.0	91.00	180.20	6,833.6	-2,662.8	1,809.7	2,656.5	0.00	0.00	0.00
9,200.0	91.00	180.20	6,831.9	-2,762.8	1,809.3	2,756.5	0.00	0.00	0.00
9,300.0	91.00	180.20	6,830.1	-2,862.8	1,809.0	2,856.5	0.00	0.00	0.00
9,400.0	91.00	180.20	6,828.4	-2,962.8	1,808.6	2,956.5	0.00	0.00	0.00
9,500.0	91.00	180.20	6,826.6	-3,062.8	1,808.3	3,056.4	0.00	0.00	0.00
9,600.0	91.00	180.20	6,824.9	-3,162.8	1,807.9	3,156.4	0.00	0.00	0.00
9,700.0	91.00	180.20	6,823.2	-3,262.7	1,807.5	3,256.4	0.00	0.00	0.00
9,800.0	91.00	180.20	6,821.4	-3,362.7	1,807.2	3,356.4	0.00	0.00	0.00
9,900.0	91.00	180.20	6,819.7	-3,462.7	1,806.8	3,456.4	0.00	0.00	0.00
10,000.0	91.00	180.20	6,817.9	-3,562.7	1,806.5	3,556.4	0.00	0.00	0.00
10,100.0	91.00	180.20	6,816.2	-3,662.7	1,806.1	3,656.4	0.00	0.00	0.00
10,200.0	91.00	180.20	6,814.4	-3,762.7	1,805.8	3,756.3	0.00	0.00	0.00
10,300.0	91.00	180.20	6,812.7	-3,862.7	1,805.4	3,856.3	0.00	0.00	0.00
10,400.0	91.00	180.20	6,810.9	-3,962.6	1,805.1	3,956.3	0.00	0.00	0.00
10,500.0	91.00	180.20	6,809.2	-4,062.6	1,804.7	4,056.3	0.00	0.00	0.00
10,600.0	91.00	180.20	6,807.5	-4,162.6	1,804.4	4,156.3	0.00	0.00	0.00
10,700.0	91.00	180.20	6,805.7	-4,262.6	1,804.0	4,256.3	0.00	0.00	0.00
10,800.0	91.00	180.20	6,804.0	-4,362.6	1,803.7	4,356.3	0.00	0.00	0.00
10,900.0	91.00	180.20	6,802.2	-4,462.6	1,803.3	4,456.2	0.00	0.00	0.00
11,000.0	91.00	180.20	6,800.5	-4,562.5	1,803.0	4,556.2	0.00	0.00	0.00
11,100.0	91.00	180.20	6,798.7	-4,662.5	1,802.6	4,656.2	0.00	0.00	0.00
11,200.0	91.00	180.20	6,797.0	-4,762.5	1,802.3	4,756.2	0.00	0.00	0.00
11,300.0	91.00	180.20	6,795.2	-4,862.5	1,801.9	4,856.2	0.00	0.00	0.00
11,400.0	91.00	180.20	6,793.5	-4,962.5	1,801.6	4,956.2	0.00	0.00	0.00
11,500.0	91.00	180.20	6,791.7	-5,062.5	1,801.2	5,056.1	0.00	0.00	0.00
11,600.0	91.00	180.20	6,790.0	-5,162.4	1,800.9	5,156.1	0.00	0.00	0.00
11,700.0	91.00	180.20	6,788.3	-5,262.4	1,800.5	5,256.1	0.00	0.00	0.00
11,800.0	91.00	180.20	6,786.5	-5,362.4	1,800.1	5,356.1	0.00	0.00	0.00
11,900.0	91.00	180.20	6,784.8	-5,462.4	1,799.8	5,456.1	0.00	0.00	0.00
12,000.0	91.00	180.20	6,783.0	-5,562.4	1,799.4	5,556.1	0.00	0.00	0.00
TD @ 12067.4' MD / 6781.8' TVD									

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Damfino 0680 12-7H
Company:	SandRidge Energy	TVD Reference:	RKB @ 8243.5usft (Cyclone #33)
Project:	Jackson County, Colorado	MD Reference:	RKB @ 8243.5usft (Cyclone #33)
Site:	Sec 6, T6N, R80W, 6th PM	North Reference:	True
Well:	Damfino 0680 12-7H	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)	
12,067.4	91.00	180.20	6,781.8	-5,629.7	1,799.2	5,623.4	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 - Damfino 0680	0.00	0.00	6,781.8	-5,629.7	1,799.2	1,425,274.00	2,746,680.44	40° 29' 49.945 N	106° 24' 39.146 W	
- plan hits target center										
- Point										

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,233.4	2,229.7	LNCE		-1.00	180.20	
3,228.2	3,157.5	FXHLS		-1.00	180.20	
3,584.5	3,486.7	PIRR		-1.00	180.20	
4,642.5	4,464.2	SSSX		-1.00	180.20	
5,268.7	5,042.8	SNNN		-1.00	180.20	
5,463.0	5,222.3	PIRRL		-1.00	180.20	
6,531.8	6,209.8	MNCS		-1.00	180.20	
6,909.6	6,559.0	NBRR		-1.00	180.20	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
1,800.0	1,800.0	0.0	0.0	KOP (Build 3° / 100')	
2,549.6	2,530.5	-51.1	135.9	EOB @ 22.49° Inc. / 110.62° Azm	
6,904.8	6,554.5	-637.8	1,695.1	Build 15° / 100'	
7,459.9	6,862.3	-1,023.0	1,815.4	EOB @ 91.00° Inc. / 180.20° Azm	
12,067.4	6,781.8	-5,629.7	1,799.2	TD @ 12067.4' MD / 6781.8' TVD	