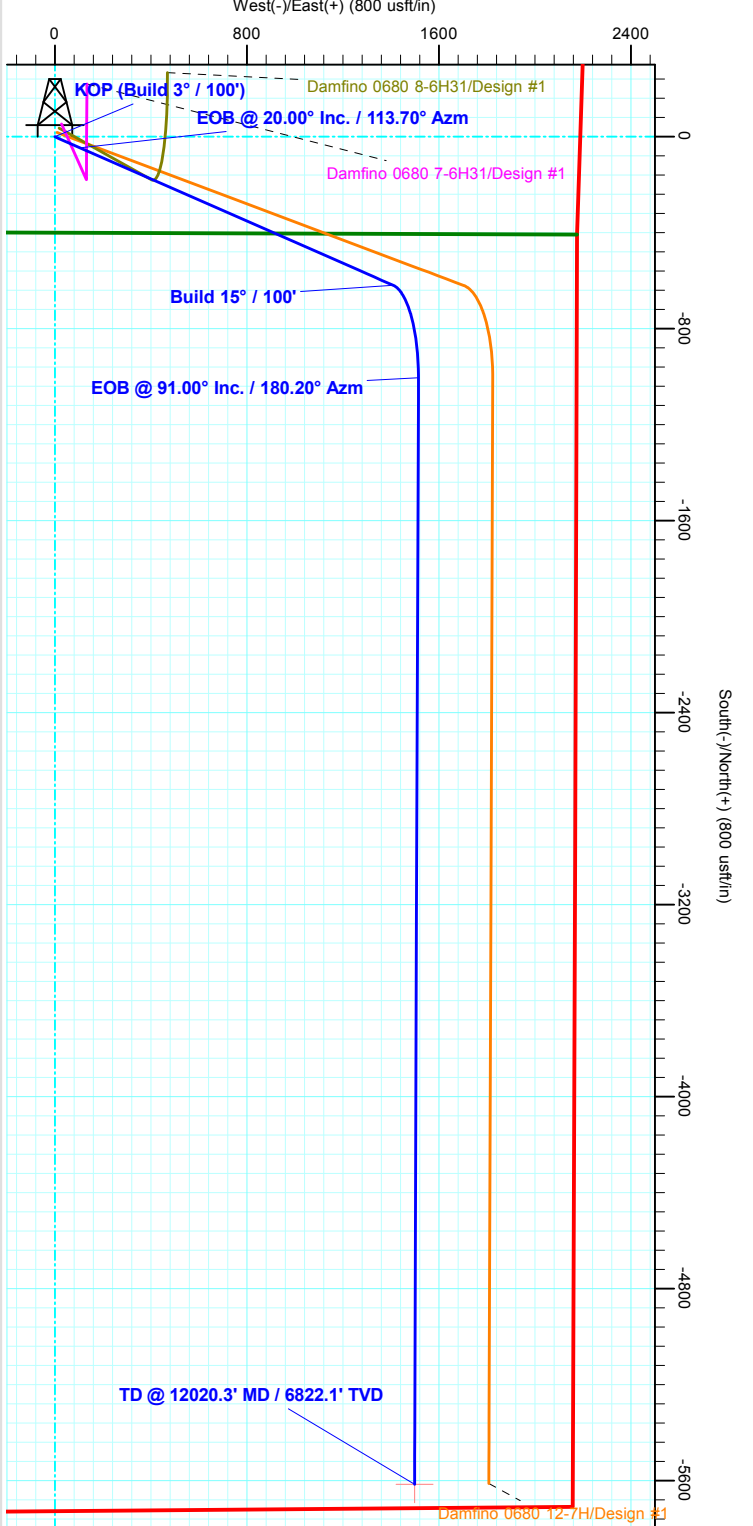
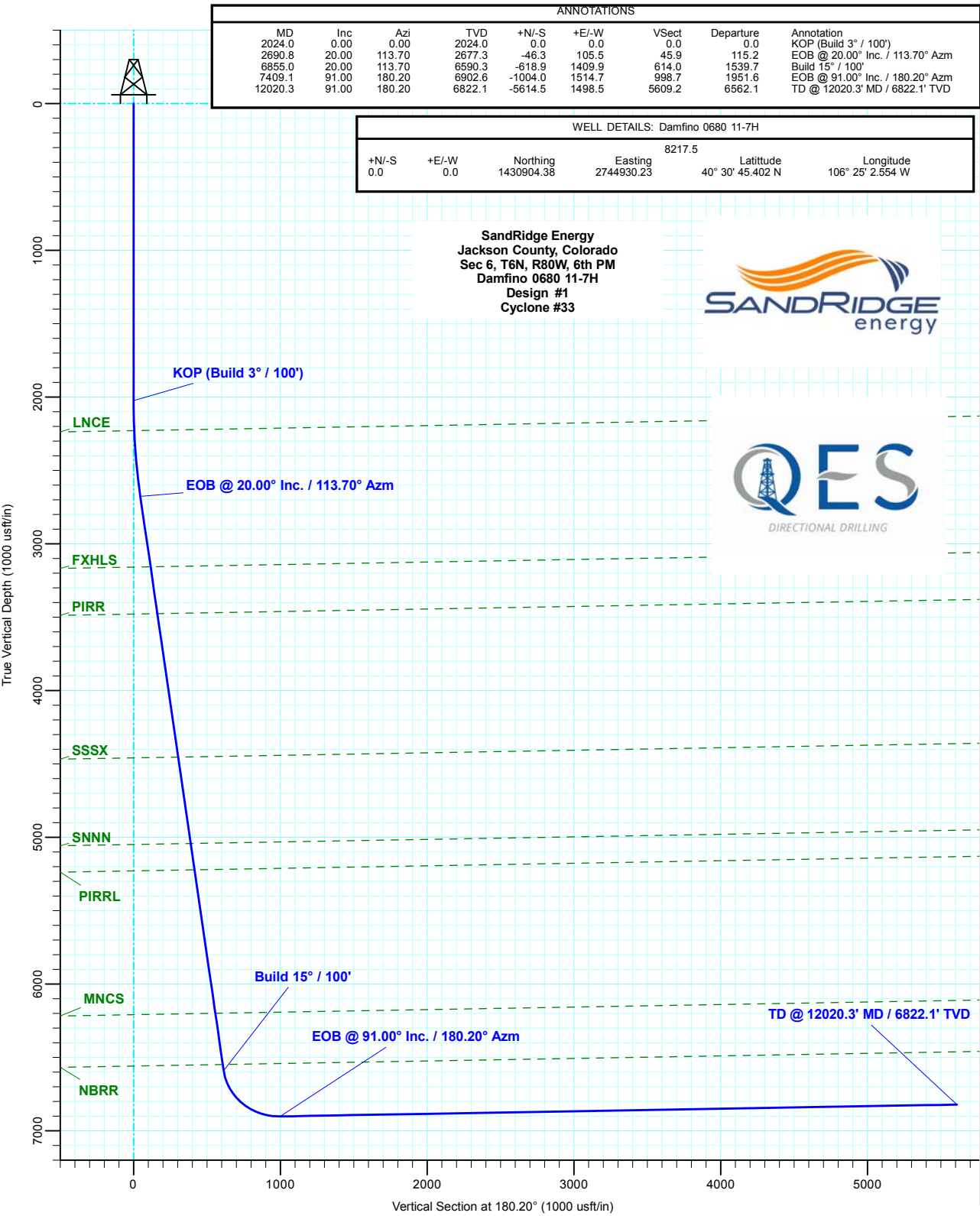


ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation	
2024.0	0.00	0.00	2024.0	0.0	0.0	0.0	0.0	KOP (Build 3° / 100')	
2690.8	20.00	113.70	2677.3	-46.3	105.5	45.9	115.2	EOB @ 20.00° Inc. / 113.70° Azm	
6855.0	20.00	113.70	6590.3	-618.9	1409.9	614.0	1539.7	Build 15° / 100'	
7409.1	91.00	180.20	6902.6	-1004.0	1514.7	998.7	1951.6	EOB @ 91.00° Inc. / 180.20° Azm	
12020.3	91.00	180.20	6822.1	-5614.5	1498.5	5609.2	6562.1	TD @ 12020.3' MD / 6822.1' TVD	

WELL DETAILS: Damfino 0680 11-7H					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	1430904.38	2744930.23	40° 30' 45.402 N	106° 25' 2.554 W

SandRidge Energy
 Jackson County, Colorado
 Sec 6, T6N, R80W, 6th PM
 Damfino 0680 11-7H
 Design #1
 Cyclone #33





SandRidge Energy

**Jackson County, Colorado
Sec 6, T6N, R80W, 6th PM
Damfino 0680 11-7H**

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 11-7H
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 11-7H	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 11-7H					
Well Position	+N/-S	-53.3 usft	Northing:	1,430,904.38 usft	Latitude:	40° 30' 45.402 N
	+E/-W	-27.4 usft	Easting:	2,744,930.23 usft	Longitude:	106° 25' 2.554 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	52,096.24973771

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	
2,024.0	0.00	0.00	2,024.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,690.8	20.00	113.70	2,677.3	-46.3	105.5	3.00	3.00	0.00	113.70	
6,855.0	20.00	113.70	6,590.3	-618.9	1,409.9	0.00	0.00	0.00	0.00	
7,409.1	91.00	180.20	6,902.6	-1,004.0	1,514.7	15.00	12.81	12.00	67.46	
12,020.3	91.00	180.20	6,822.1	-5,614.5	1,498.5	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 11-7H
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 11-7H	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
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	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP (Build 3° / 100')									
2,024.0	0.00	0.00	2,024.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	2.28	113.70	2,100.0	-0.6	1.4	0.6	3.00	3.00	0.00
2,200.0	5.28	113.70	2,199.8	-3.3	7.4	3.2	3.00	3.00	0.00
LNCE									
2,230.3	6.19	113.70	2,229.9	-4.5	10.2	4.4	3.00	3.00	0.00
2,300.0	8.28	113.70	2,299.0	-8.0	18.2	7.9	3.00	3.00	0.00
2,400.0	11.28	113.70	2,397.6	-14.8	33.8	14.7	3.00	3.00	0.00
2,500.0	14.28	113.70	2,495.1	-23.7	54.0	23.5	3.00	3.00	0.00
2,600.0	17.28	113.70	2,591.3	-34.7	78.9	34.4	3.00	3.00	0.00
EOB @ 20.00° Inc. / 113.70° Azm									
2,690.8	20.00	113.70	2,677.3	-46.3	105.5	45.9	3.00	3.00	0.00
2,700.0	20.00	113.70	2,686.0	-47.6	108.4	47.2	0.00	0.00	0.00
2,800.0	20.00	113.70	2,779.9	-61.3	139.7	60.8	0.00	0.00	0.00
2,900.0	20.00	113.70	2,873.9	-75.1	171.0	74.5	0.00	0.00	0.00
3,000.0	20.00	113.70	2,967.9	-88.8	202.4	88.1	0.00	0.00	0.00
3,100.0	20.00	113.70	3,061.8	-102.6	233.7	101.8	0.00	0.00	0.00
3,200.0	20.00	113.70	3,155.8	-116.3	265.0	115.4	0.00	0.00	0.00
FXHLS									
3,202.3	20.00	113.70	3,158.0	-116.7	265.7	115.7	0.00	0.00	0.00
3,300.0	20.00	113.70	3,249.8	-130.1	296.3	129.0	0.00	0.00	0.00
3,400.0	20.00	113.70	3,343.7	-143.8	327.6	142.7	0.00	0.00	0.00
3,500.0	20.00	113.70	3,437.7	-157.6	359.0	156.3	0.00	0.00	0.00
PIRR									
3,542.0	20.00	113.70	3,477.2	-163.4	372.1	162.1	0.00	0.00	0.00
3,600.0	20.00	113.70	3,531.7	-171.3	390.3	170.0	0.00	0.00	0.00
3,700.0	20.00	113.70	3,625.6	-185.1	421.6	183.6	0.00	0.00	0.00
3,800.0	20.00	113.70	3,719.6	-198.8	452.9	197.3	0.00	0.00	0.00
3,900.0	20.00	113.70	3,813.6	-212.6	484.3	210.9	0.00	0.00	0.00
4,000.0	20.00	113.70	3,907.6	-226.3	515.6	224.5	0.00	0.00	0.00
4,100.0	20.00	113.70	4,001.5	-240.1	546.9	238.2	0.00	0.00	0.00
4,200.0	20.00	113.70	4,095.5	-253.8	578.2	251.8	0.00	0.00	0.00
4,300.0	20.00	113.70	4,189.5	-267.6	609.6	265.5	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Damfino 0680 11-7H
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 11-7H	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)
4,400.0	20.00	113.70	4,283.4	-281.3	640.9	279.1	0.00	0.00	0.00
4,500.0	20.00	113.70	4,377.4	-295.1	672.2	292.7	0.00	0.00	0.00
SSSX									
4,582.3	20.00	113.70	4,454.7	-306.4	698.0	304.0	0.00	0.00	0.00
4,600.0	20.00	113.70	4,471.4	-308.8	703.5	306.4	0.00	0.00	0.00
4,700.0	20.00	113.70	4,565.3	-322.6	734.8	320.0	0.00	0.00	0.00
4,800.0	20.00	113.70	4,659.3	-336.3	766.2	333.7	0.00	0.00	0.00
4,900.0	20.00	113.70	4,753.3	-350.1	797.5	347.3	0.00	0.00	0.00
5,000.0	20.00	113.70	4,847.2	-363.8	828.8	360.9	0.00	0.00	0.00
5,100.0	20.00	113.70	4,941.2	-377.6	860.1	374.6	0.00	0.00	0.00
5,200.0	20.00	113.70	5,035.2	-391.3	891.5	388.2	0.00	0.00	0.00
SNNN									
5,208.6	20.00	113.70	5,043.2	-392.5	894.1	389.4	0.00	0.00	0.00
5,300.0	20.00	113.70	5,129.1	-405.1	922.8	401.9	0.00	0.00	0.00
PIRRL									
5,399.6	20.00	113.70	5,222.7	-418.8	954.0	415.5	0.00	0.00	0.00
5,400.0	20.00	113.70	5,223.1	-418.8	954.1	415.5	0.00	0.00	0.00
5,500.0	20.00	113.70	5,317.1	-432.6	985.4	429.2	0.00	0.00	0.00
5,600.0	20.00	113.70	5,411.0	-446.3	1,016.8	442.8	0.00	0.00	0.00
5,700.0	20.00	113.70	5,505.0	-460.1	1,048.1	456.4	0.00	0.00	0.00
5,800.0	20.00	113.70	5,599.0	-473.8	1,079.4	470.1	0.00	0.00	0.00
5,900.0	20.00	113.70	5,692.9	-487.6	1,110.7	483.7	0.00	0.00	0.00
6,000.0	20.00	113.70	5,786.9	-501.3	1,142.1	497.4	0.00	0.00	0.00
6,100.0	20.00	113.70	5,880.9	-515.1	1,173.4	511.0	0.00	0.00	0.00
6,200.0	20.00	113.70	5,974.8	-528.8	1,204.7	524.6	0.00	0.00	0.00
6,300.0	20.00	113.70	6,068.8	-542.6	1,236.0	538.3	0.00	0.00	0.00
6,400.0	20.00	113.70	6,162.8	-556.4	1,267.3	551.9	0.00	0.00	0.00
MNCS									
6,439.9	20.00	113.70	6,200.3	-561.8	1,279.8	557.4	0.00	0.00	0.00
6,500.0	20.00	113.70	6,256.7	-570.1	1,298.7	565.6	0.00	0.00	0.00
6,600.0	20.00	113.70	6,350.7	-583.9	1,330.0	579.2	0.00	0.00	0.00
6,700.0	20.00	113.70	6,444.7	-597.6	1,361.3	592.8	0.00	0.00	0.00
6,800.0	20.00	113.70	6,538.6	-611.4	1,392.6	606.5	0.00	0.00	0.00
NBRR									
6,811.5	20.00	113.70	6,549.4	-612.9	1,396.2	608.0	0.00	0.00	0.00
Build 15° / 100'									
6,855.0	20.00	113.70	6,590.3	-618.9	1,409.9	614.0	0.00	0.00	0.00
6,875.0	21.33	121.34	6,609.0	-622.2	1,416.1	617.2	15.00	6.62	38.19
6,900.0	23.40	129.56	6,632.1	-627.7	1,423.8	622.7	15.00	8.30	32.90
6,925.0	25.84	136.42	6,654.9	-634.8	1,431.4	629.8	15.00	9.74	27.43
6,950.0	28.54	142.11	6,677.1	-643.5	1,438.8	638.5	15.00	10.81	22.78
6,975.0	31.44	146.87	6,698.8	-653.7	1,446.1	648.6	15.00	11.61	19.02
7,000.0	34.49	150.88	6,719.7	-665.3	1,453.1	660.2	15.00	12.20	16.04
7,025.0	37.66	154.30	6,740.0	-678.4	1,459.8	673.3	15.00	12.65	13.70
7,050.0	40.91	157.26	6,759.3	-692.8	1,466.3	687.7	15.00	12.99	11.84
7,075.0	44.22	159.86	6,777.7	-708.6	1,472.5	703.4	15.00	13.26	10.37
7,100.0	47.59	162.16	6,795.1	-725.5	1,478.3	720.4	15.00	13.47	9.20
7,125.0	51.00	164.22	6,811.4	-743.7	1,483.8	738.5	15.00	13.63	8.26
7,150.0	54.44	166.10	6,826.6	-762.9	1,488.9	757.7	15.00	13.77	7.49
7,175.0	57.91	167.81	6,840.5	-783.1	1,493.5	777.9	15.00	13.87	6.87
7,200.0	61.39	169.41	6,853.1	-804.3	1,497.8	799.0	15.00	13.96	6.37
7,225.0	64.90	170.90	6,864.4	-826.2	1,501.6	821.0	15.00	14.03	5.96
7,250.0	68.42	172.30	6,874.3	-848.9	1,505.0	843.7	15.00	14.08	5.62

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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 11-7H	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)
7,275.0	71.95	173.64	6,882.8	-872.3	1,507.8	867.0	15.00	14.13	5.36
7,300.0	75.50	174.93	6,889.8	-896.2	1,510.2	890.9	15.00	14.16	5.15
7,325.0	79.04	176.17	6,895.3	-920.5	1,512.1	915.2	15.00	14.19	4.98
7,350.0	82.60	177.39	6,899.3	-945.1	1,513.5	939.8	15.00	14.21	4.86
7,375.0	86.15	178.59	6,901.7	-970.0	1,514.4	964.7	15.00	14.22	4.79
7,400.0	89.71	179.77	6,902.6	-994.9	1,514.7	989.6	15.00	14.23	4.75
EOB @ 91.00° Inc. / 180.20° Azm									
7,409.1	91.00	180.20	6,902.6	-1,004.0	1,514.7	998.7	15.00	14.23	4.74
7,500.0	91.00	180.20	6,901.0	-1,094.9	1,514.4	1,089.6	0.00	0.00	0.00
7,600.0	91.00	180.20	6,899.2	-1,194.9	1,514.1	1,189.6	0.00	0.00	0.00
7,700.0	91.00	180.20	6,897.5	-1,294.9	1,513.7	1,289.6	0.00	0.00	0.00
7,800.0	91.00	180.20	6,895.7	-1,394.9	1,513.4	1,389.6	0.00	0.00	0.00
7,900.0	91.00	180.20	6,894.0	-1,494.9	1,513.0	1,489.6	0.00	0.00	0.00
8,000.0	91.00	180.20	6,892.3	-1,594.8	1,512.6	1,589.6	0.00	0.00	0.00
8,100.0	91.00	180.20	6,890.5	-1,694.8	1,512.3	1,689.5	0.00	0.00	0.00
8,200.0	91.00	180.20	6,888.8	-1,794.8	1,511.9	1,789.5	0.00	0.00	0.00
8,300.0	91.00	180.20	6,887.0	-1,894.8	1,511.6	1,889.5	0.00	0.00	0.00
8,400.0	91.00	180.20	6,885.3	-1,994.8	1,511.2	1,989.5	0.00	0.00	0.00
8,500.0	91.00	180.20	6,883.5	-2,094.8	1,510.9	2,089.5	0.00	0.00	0.00
8,600.0	91.00	180.20	6,881.8	-2,194.8	1,510.5	2,189.5	0.00	0.00	0.00
8,700.0	91.00	180.20	6,880.0	-2,294.7	1,510.2	2,289.4	0.00	0.00	0.00
8,800.0	91.00	180.20	6,878.3	-2,394.7	1,509.8	2,389.4	0.00	0.00	0.00
8,900.0	91.00	180.20	6,876.5	-2,494.7	1,509.5	2,489.4	0.00	0.00	0.00
9,000.0	91.00	180.20	6,874.8	-2,594.7	1,509.1	2,589.4	0.00	0.00	0.00
9,100.0	91.00	180.20	6,873.1	-2,694.7	1,508.8	2,689.4	0.00	0.00	0.00
9,200.0	91.00	180.20	6,871.3	-2,794.7	1,508.4	2,789.4	0.00	0.00	0.00
9,300.0	91.00	180.20	6,869.6	-2,894.6	1,508.1	2,889.4	0.00	0.00	0.00
9,400.0	91.00	180.20	6,867.8	-2,994.6	1,507.7	2,989.3	0.00	0.00	0.00
9,500.0	91.00	180.20	6,866.1	-3,094.6	1,507.4	3,089.3	0.00	0.00	0.00
9,600.0	91.00	180.20	6,864.3	-3,194.6	1,507.0	3,189.3	0.00	0.00	0.00
9,700.0	91.00	180.20	6,862.6	-3,294.6	1,506.7	3,289.3	0.00	0.00	0.00
9,800.0	91.00	180.20	6,860.8	-3,394.6	1,506.3	3,389.3	0.00	0.00	0.00
9,900.0	91.00	180.20	6,859.1	-3,494.5	1,506.0	3,489.3	0.00	0.00	0.00
10,000.0	91.00	180.20	6,857.3	-3,594.5	1,505.6	3,589.3	0.00	0.00	0.00
10,100.0	91.00	180.20	6,855.6	-3,694.5	1,505.2	3,689.2	0.00	0.00	0.00
10,200.0	91.00	180.20	6,853.9	-3,794.5	1,504.9	3,789.2	0.00	0.00	0.00
10,300.0	91.00	180.20	6,852.1	-3,894.5	1,504.5	3,889.2	0.00	0.00	0.00
10,400.0	91.00	180.20	6,850.4	-3,994.5	1,504.2	3,989.2	0.00	0.00	0.00
10,500.0	91.00	180.20	6,848.6	-4,094.4	1,503.8	4,089.2	0.00	0.00	0.00
10,600.0	91.00	180.20	6,846.9	-4,194.4	1,503.5	4,189.2	0.00	0.00	0.00
10,700.0	91.00	180.20	6,845.1	-4,294.4	1,503.1	4,289.1	0.00	0.00	0.00
10,800.0	91.00	180.20	6,843.4	-4,394.4	1,502.8	4,389.1	0.00	0.00	0.00
10,900.0	91.00	180.20	6,841.6	-4,494.4	1,502.4	4,489.1	0.00	0.00	0.00
11,000.0	91.00	180.20	6,839.9	-4,594.4	1,502.1	4,589.1	0.00	0.00	0.00
11,100.0	91.00	180.20	6,838.2	-4,694.4	1,501.7	4,689.1	0.00	0.00	0.00
11,200.0	91.00	180.20	6,836.4	-4,794.3	1,501.4	4,789.1	0.00	0.00	0.00
11,300.0	91.00	180.20	6,834.7	-4,894.3	1,501.0	4,889.1	0.00	0.00	0.00
11,400.0	91.00	180.20	6,832.9	-4,994.3	1,500.7	4,989.0	0.00	0.00	0.00
11,500.0	91.00	180.20	6,831.2	-5,094.3	1,500.3	5,089.0	0.00	0.00	0.00
11,600.0	91.00	180.20	6,829.4	-5,194.3	1,500.0	5,189.0	0.00	0.00	0.00
11,700.0	91.00	180.20	6,827.7	-5,294.3	1,499.6	5,289.0	0.00	0.00	0.00
11,800.0	91.00	180.20	6,825.9	-5,394.2	1,499.3	5,389.0	0.00	0.00	0.00
11,900.0	91.00	180.20	6,824.2	-5,494.2	1,498.9	5,489.0	0.00	0.00	0.00
12,000.0	91.00	180.20	6,822.4	-5,594.2	1,498.6	5,588.9	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Damfino 0680 11-7H
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 11-7H	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)	
TD @ 12020.3' MD / 6822.1' TVD										
12,020.3	91.00	180.20	6,822.1	-5,614.5	1,498.5	5,609.2	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	6,822.1	-5,614.5	1,498.5	1,425,274.70	2,746,370.55	40° 29' 49.920 N	106° 24' 43.157 W	
- plan hits target center										
- Point										

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,230.3	2,229.9	LNCE		-1.00	180.20	
3,202.3	3,158.0	FXHLS		-1.00	180.20	
3,542.0	3,477.2	PIRR		-1.00	180.20	
4,582.3	4,454.7	SSSX		-1.00	180.20	
5,208.6	5,043.2	SNNN		-1.00	180.20	
5,399.6	5,222.7	PIRRL		-1.00	180.20	
6,439.9	6,200.3	MNCS		-1.00	180.20	
6,811.5	6,549.4	NBRR		-1.00	180.20	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
2,024.0	2,024.0	0.0	0.0	KOP (Build 3° / 100')	
2,690.8	2,677.3	-46.3	105.5	EOB @ 20.00° Inc. / 113.70° Azm	
6,855.0	6,590.3	-618.9	1,409.9	Build 15° / 100'	
7,409.1	6,902.6	-1,004.0	1,514.7	EOB @ 91.00° Inc. / 180.20° Azm	
12,020.3	6,822.1	-5,614.5	1,498.5	TD @ 12020.3' MD / 6822.1' TVD	