

SandRidge Energy

North Park Basin

T7N-R80W-S9

Janet 0780 3-16H21

Wellbore #1

Plan: Design #1

Standard Survey Report

18 December, 2017

SandRidge Energy

Survey Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Janet 0780 3-16H21
Project:	North Park Basin	TVD Reference:	WELL @ 8151.0usft (Original Well Elev)
Site:	T7N-R80W-S9	MD Reference:	WELL @ 8151.0usft (Original Well Elev)
Well:	Janet 0780 3-16H21	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDMProd

Project	North Park Basin		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site	T7N-R80W-S9		
Site Position:		Northing:	1,457,270.18 usft
From:	Map	Easting:	2,753,429.57 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	40° 35' 6.782 N
		Longitude:	106° 23' 15.932 W
		Grid Convergence:	-0.57 °

Well	Janet 0780 3-16H21		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	40° 35' 3.244 N
		Longitude:	106° 23' 14.426 W
		Ground Level:	8,126.0 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF200510	12/31/2009	9.88
			Dip Angle
			(°)
			66.98
			Field Strength
			(nT)
			53,191.05682948

Design	Design #1		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			176.46

Survey Tool Program	Date	12/18/2017		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
0.0	17,918.8	Design #1 (Wellbore #1)	Sperry MWD	Fixed:v2:standard declination

Planned Survey									
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate
(usft)			(usft)			(usft)	(°/100usft)	(°/100usft)	(°/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

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Well:	Janet 0780 3-16H21	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDMProd

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)
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
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
3,600.0	2.00	74.64	3,600.0	0.5	1.7	-0.4	2.00	2.00	0.00
3,700.0	4.00	74.64	3,699.8	1.8	6.7	-1.4	2.00	2.00	0.00
3,800.0	6.00	74.64	3,799.5	4.2	15.1	-3.2	2.00	2.00	0.00
3,900.0	8.00	74.64	3,898.7	7.4	26.9	-5.7	2.00	2.00	0.00
4,000.0	10.00	74.64	3,997.5	11.5	42.0	-8.9	2.00	2.00	0.00
4,100.0	12.00	74.64	4,095.6	16.6	60.4	-12.8	2.00	2.00	0.00
4,177.2	13.54	74.64	4,170.9	21.1	76.8	-16.3	2.00	2.00	0.00
4,200.0	13.54	74.64	4,193.1	22.5	82.0	-17.4	0.00	0.00	0.00
4,300.0	13.54	74.64	4,290.3	28.7	104.6	-22.2	0.00	0.00	0.00
4,400.0	13.54	74.64	4,387.5	34.9	127.1	-27.0	0.00	0.00	0.00
4,500.0	13.54	74.64	4,484.7	41.1	149.7	-31.8	0.00	0.00	0.00
4,600.0	13.54	74.64	4,582.0	47.3	172.3	-36.6	0.00	0.00	0.00
4,666.2	13.54	74.64	4,646.3	51.4	187.3	-39.8	0.00	0.00	0.00
Start 2506.2 hold at 4666.2 MD									
4,700.0	13.54	74.64	4,679.2	53.5	194.9	-41.4	0.00	0.00	0.00
4,800.0	13.54	74.64	4,776.4	59.7	217.5	-46.2	0.00	0.00	0.00
4,900.0	13.54	74.64	4,873.6	65.9	240.0	-51.0	0.00	0.00	0.00

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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
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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)
5,000.0	13.54	74.64	4,970.8	72.2	262.6	-55.8	0.00	0.00	0.00
5,100.0	13.54	74.64	5,068.0	78.4	285.2	-60.6	0.00	0.00	0.00
5,200.0	13.54	74.64	5,165.3	84.6	307.8	-65.4	0.00	0.00	0.00
5,300.0	13.54	74.64	5,262.5	90.8	330.4	-70.2	0.00	0.00	0.00
5,400.0	13.54	74.64	5,359.7	97.0	353.0	-75.0	0.00	0.00	0.00
5,500.0	13.54	74.64	5,456.9	103.2	375.5	-79.8	0.00	0.00	0.00
5,600.0	13.54	74.64	5,554.1	109.4	398.1	-84.6	0.00	0.00	0.00
5,700.0	13.54	74.64	5,651.4	115.6	420.7	-89.4	0.00	0.00	0.00
5,800.0	13.54	74.64	5,748.6	121.8	443.3	-94.2	0.00	0.00	0.00
5,900.0	13.54	74.64	5,845.8	128.0	465.9	-99.0	0.00	0.00	0.00
6,000.0	13.54	74.64	5,943.0	134.2	488.5	-103.8	0.00	0.00	0.00
6,100.0	13.54	74.64	6,040.2	140.4	511.0	-108.6	0.00	0.00	0.00
6,200.0	13.54	74.64	6,137.5	146.6	533.6	-113.4	0.00	0.00	0.00
6,300.0	13.54	74.64	6,234.7	152.8	556.2	-118.2	0.00	0.00	0.00
6,400.0	13.54	74.64	6,331.9	159.0	578.8	-123.0	0.00	0.00	0.00
6,500.0	13.54	74.64	6,429.1	165.2	601.4	-127.8	0.00	0.00	0.00
6,600.0	13.54	74.64	6,526.3	171.4	623.9	-132.6	0.00	0.00	0.00
6,700.0	13.54	74.64	6,623.6	177.6	646.5	-137.4	0.00	0.00	0.00
6,800.0	13.54	74.64	6,720.8	183.8	669.1	-142.2	0.00	0.00	0.00
6,900.0	13.54	74.64	6,818.0	190.0	691.7	-147.0	0.00	0.00	0.00
7,000.0	13.54	74.64	6,915.2	196.2	714.3	-151.8	0.00	0.00	0.00
7,060.8	13.54	74.64	6,974.3	200.0	728.0	-154.7	0.00	0.00	0.00
7,100.0	13.00	91.62	7,012.5	201.1	736.8	-155.2	10.00	-1.39	43.30
7,172.5	14.89	121.01	7,082.9	196.1	753.0	-149.2	10.00	2.61	40.57
Start DLS 10.00 TFO 99.35									
7,200.0	16.40	129.58	7,109.4	191.8	759.0	-144.5	10.00	5.47	31.11
7,300.0	23.78	149.65	7,203.4	165.3	780.1	-116.8	10.00	7.38	20.07
7,386.4	31.30	158.94	7,280.0	129.2	797.0	-79.8	10.00	8.71	10.74
Niobrara									
7,400.0	32.53	160.03	7,291.5	122.5	799.6	-72.9	10.00	9.05	8.05
7,500.0	41.80	166.29	7,371.2	64.7	816.7	-14.2	10.00	9.27	6.26
7,600.0	51.30	170.59	7,439.9	-6.3	831.0	57.6	10.00	9.50	4.31
7,700.0	60.92	173.88	7,495.6	-88.5	842.1	140.3	10.00	9.62	3.28
7,800.0	70.61	176.59	7,536.6	-179.2	849.5	231.3	10.00	9.69	2.72
7,900.0	80.34	179.00	7,561.6	-275.8	853.2	328.0	10.00	9.73	2.41
7,999.2	90.00	181.25	7,570.0	-374.5	853.0	426.5	10.00	9.74	2.27
8,000.0	90.00	181.25	7,570.0	-375.4	853.0	427.3	0.00	0.00	0.00
8,100.0	90.00	181.25	7,570.0	-475.3	850.8	526.9	0.00	0.00	0.00
8,112.5	90.00	181.25	7,570.0	-487.9	850.5	539.4	0.00	0.00	0.00
Start 9930.1 hold at 8112.5 MD									
8,200.0	90.00	181.25	7,570.0	-575.3	848.6	626.6	0.00	0.00	0.00
8,300.0	90.00	181.25	7,570.0	-675.3	846.4	726.2	0.00	0.00	0.00
8,400.0	90.00	181.25	7,570.0	-775.3	844.2	825.9	0.00	0.00	0.00
8,500.0	90.00	181.25	7,570.0	-875.2	842.1	925.6	0.00	0.00	0.00

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Survey Report

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Project:	North Park Basin	TVD Reference:	WELL @ 8151.0usft (Original Well Elev)
Site:	T7N-R80W-S9	MD Reference:	WELL @ 8151.0usft (Original Well Elev)
Well:	Janet 0780 3-16H21	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDMProd

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)
8,600.0	90.00	181.25	7,570.0	-975.2	839.9	1,025.2	0.00	0.00	0.00
8,700.0	90.00	181.25	7,570.0	-1,075.2	837.7	1,124.9	0.00	0.00	0.00
8,800.0	90.00	181.25	7,570.0	-1,175.2	835.5	1,224.5	0.00	0.00	0.00
8,900.0	90.00	181.25	7,570.0	-1,275.2	833.3	1,324.2	0.00	0.00	0.00
9,000.0	90.00	181.25	7,570.0	-1,375.1	831.1	1,423.8	0.00	0.00	0.00
9,100.0	90.00	181.25	7,570.0	-1,475.1	829.0	1,523.5	0.00	0.00	0.00
9,200.0	90.00	181.25	7,570.0	-1,575.1	826.8	1,623.1	0.00	0.00	0.00
9,300.0	90.00	181.25	7,570.0	-1,675.1	824.6	1,722.8	0.00	0.00	0.00
9,400.0	90.00	181.25	7,570.0	-1,775.0	822.4	1,822.4	0.00	0.00	0.00
9,500.0	90.00	181.25	7,570.0	-1,875.0	820.2	1,922.1	0.00	0.00	0.00
9,600.0	90.00	181.25	7,570.0	-1,975.0	818.0	2,021.7	0.00	0.00	0.00
9,700.0	90.00	181.25	7,570.0	-2,075.0	815.9	2,121.4	0.00	0.00	0.00
9,800.0	90.00	181.25	7,570.0	-2,174.9	813.7	2,221.0	0.00	0.00	0.00
9,900.0	90.00	181.25	7,570.0	-2,274.9	811.5	2,320.7	0.00	0.00	0.00
10,000.0	90.00	181.25	7,570.0	-2,374.9	809.3	2,420.3	0.00	0.00	0.00
10,100.0	90.00	181.25	7,570.0	-2,474.9	807.1	2,520.0	0.00	0.00	0.00
10,200.0	90.00	181.25	7,570.0	-2,574.8	804.9	2,619.6	0.00	0.00	0.00
10,300.0	90.00	181.25	7,570.0	-2,674.8	802.8	2,719.3	0.00	0.00	0.00
10,400.0	90.00	181.25	7,570.0	-2,774.8	800.6	2,818.9	0.00	0.00	0.00
10,500.0	90.00	181.25	7,570.0	-2,874.8	798.4	2,918.6	0.00	0.00	0.00
10,600.0	90.00	181.25	7,570.0	-2,974.7	796.2	3,018.2	0.00	0.00	0.00
10,700.0	90.00	181.25	7,570.0	-3,074.7	794.0	3,117.9	0.00	0.00	0.00
10,800.0	90.00	181.25	7,570.0	-3,174.7	791.8	3,217.5	0.00	0.00	0.00
10,900.0	90.00	181.25	7,570.0	-3,274.7	789.7	3,317.2	0.00	0.00	0.00
11,000.0	90.00	181.25	7,570.0	-3,374.7	787.5	3,416.8	0.00	0.00	0.00
11,100.0	90.00	181.25	7,570.0	-3,474.6	785.3	3,516.5	0.00	0.00	0.00
11,200.0	90.00	181.25	7,570.0	-3,574.6	783.1	3,616.1	0.00	0.00	0.00
11,300.0	90.00	181.25	7,570.0	-3,674.6	780.9	3,715.8	0.00	0.00	0.00
11,400.0	90.00	181.25	7,570.0	-3,774.6	778.7	3,815.4	0.00	0.00	0.00
11,500.0	90.00	181.25	7,570.0	-3,874.5	776.6	3,915.1	0.00	0.00	0.00
11,600.0	90.00	181.25	7,570.0	-3,974.5	774.4	4,014.7	0.00	0.00	0.00
11,700.0	90.00	181.25	7,570.0	-4,074.5	772.2	4,114.4	0.00	0.00	0.00
11,800.0	90.00	181.25	7,570.0	-4,174.5	770.0	4,214.0	0.00	0.00	0.00
11,900.0	90.00	181.25	7,570.0	-4,274.4	767.8	4,313.7	0.00	0.00	0.00
12,000.0	90.00	181.25	7,570.0	-4,374.4	765.6	4,413.3	0.00	0.00	0.00
12,100.0	90.00	181.25	7,570.0	-4,474.4	763.5	4,513.0	0.00	0.00	0.00
12,200.0	90.00	181.25	7,570.0	-4,574.4	761.3	4,612.6	0.00	0.00	0.00
12,300.0	90.00	181.25	7,570.0	-4,674.3	759.1	4,712.3	0.00	0.00	0.00
12,400.0	90.00	181.25	7,570.0	-4,774.3	756.9	4,811.9	0.00	0.00	0.00
12,500.0	90.00	181.25	7,570.0	-4,874.3	754.7	4,911.6	0.00	0.00	0.00
12,600.0	90.00	181.25	7,570.0	-4,974.3	752.5	5,011.2	0.00	0.00	0.00
12,700.0	90.00	181.25	7,570.0	-5,074.2	750.4	5,110.9	0.00	0.00	0.00
12,800.0	90.00	181.25	7,570.0	-5,174.2	748.2	5,210.5	0.00	0.00	0.00

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Survey Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Janet 0780 3-16H21
Project:	North Park Basin	TVD Reference:	WELL @ 8151.0usft (Original Well Elev)
Site:	T7N-R80W-S9	MD Reference:	WELL @ 8151.0usft (Original Well Elev)
Well:	Janet 0780 3-16H21	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDMPProd

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)
12,900.0	90.00	181.25	7,570.0	-5,274.2	746.0	5,310.2	0.00	0.00	0.00
13,000.0	90.00	181.25	7,570.0	-5,374.2	743.8	5,409.8	0.00	0.00	0.00
13,100.0	90.00	181.25	7,570.0	-5,474.2	741.6	5,509.5	0.00	0.00	0.00
13,200.0	90.00	181.25	7,570.0	-5,574.1	739.5	5,609.1	0.00	0.00	0.00
13,300.0	90.00	181.25	7,570.0	-5,674.1	737.3	5,708.8	0.00	0.00	0.00
13,400.0	90.00	181.25	7,570.0	-5,774.1	735.1	5,808.4	0.00	0.00	0.00
13,500.0	90.00	181.25	7,570.0	-5,874.1	732.9	5,908.1	0.00	0.00	0.00
13,600.0	90.00	181.25	7,570.0	-5,974.0	730.7	6,007.7	0.00	0.00	0.00
13,700.0	90.00	181.25	7,570.0	-6,074.0	728.5	6,107.4	0.00	0.00	0.00
13,800.0	90.00	181.25	7,570.0	-6,174.0	726.4	6,207.0	0.00	0.00	0.00
13,900.0	90.00	181.25	7,570.0	-6,274.0	724.2	6,306.7	0.00	0.00	0.00
14,000.0	90.00	181.25	7,570.0	-6,373.9	722.0	6,406.3	0.00	0.00	0.00
14,100.0	90.00	181.25	7,570.0	-6,473.9	719.8	6,506.0	0.00	0.00	0.00
14,200.0	90.00	181.25	7,570.0	-6,573.9	717.6	6,605.6	0.00	0.00	0.00
14,300.0	90.00	181.25	7,570.0	-6,673.9	715.4	6,705.3	0.00	0.00	0.00
14,400.0	90.00	181.25	7,570.0	-6,773.8	713.3	6,804.9	0.00	0.00	0.00
14,500.0	90.00	181.25	7,570.0	-6,873.8	711.1	6,904.6	0.00	0.00	0.00
14,600.0	90.00	181.25	7,570.0	-6,973.8	708.9	7,004.3	0.00	0.00	0.00
14,700.0	90.00	181.25	7,570.0	-7,073.8	706.7	7,103.9	0.00	0.00	0.00
14,800.0	90.00	181.25	7,570.0	-7,173.7	704.5	7,203.6	0.00	0.00	0.00
14,900.0	90.00	181.25	7,570.0	-7,273.7	702.3	7,303.2	0.00	0.00	0.00
15,000.0	90.00	181.25	7,570.0	-7,373.7	700.2	7,402.9	0.00	0.00	0.00
15,100.0	90.00	181.25	7,570.0	-7,473.7	698.0	7,502.5	0.00	0.00	0.00
15,200.0	90.00	181.25	7,570.0	-7,573.7	695.8	7,602.2	0.00	0.00	0.00
15,300.0	90.00	181.25	7,570.0	-7,673.6	693.6	7,701.8	0.00	0.00	0.00
15,400.0	90.00	181.25	7,570.0	-7,773.6	691.4	7,801.5	0.00	0.00	0.00
15,500.0	90.00	181.25	7,570.0	-7,873.6	689.2	7,901.1	0.00	0.00	0.00
15,600.0	90.00	181.25	7,570.0	-7,973.6	687.1	8,000.8	0.00	0.00	0.00
15,700.0	90.00	181.25	7,570.0	-8,073.5	684.9	8,100.4	0.00	0.00	0.00
15,800.0	90.00	181.25	7,570.0	-8,173.5	682.7	8,200.1	0.00	0.00	0.00
15,900.0	90.00	181.25	7,570.0	-8,273.5	680.5	8,299.7	0.00	0.00	0.00
16,000.0	90.00	181.25	7,570.0	-8,373.5	678.3	8,399.4	0.00	0.00	0.00
16,100.0	90.00	181.25	7,570.0	-8,473.4	676.1	8,499.0	0.00	0.00	0.00
16,200.0	90.00	181.25	7,570.0	-8,573.4	674.0	8,598.7	0.00	0.00	0.00
16,300.0	90.00	181.25	7,570.0	-8,673.4	671.8	8,698.3	0.00	0.00	0.00
16,400.0	90.00	181.25	7,570.0	-8,773.4	669.6	8,798.0	0.00	0.00	0.00
16,500.0	90.00	181.25	7,570.0	-8,873.3	667.4	8,897.6	0.00	0.00	0.00
16,600.0	90.00	181.25	7,570.0	-8,973.3	665.2	8,997.3	0.00	0.00	0.00
16,700.0	90.00	181.25	7,570.0	-9,073.3	663.0	9,096.9	0.00	0.00	0.00
16,800.0	90.00	181.25	7,570.0	-9,173.3	660.9	9,196.6	0.00	0.00	0.00
16,900.0	90.00	181.25	7,570.0	-9,273.2	658.7	9,296.2	0.00	0.00	0.00
17,000.0	90.00	181.25	7,570.0	-9,373.2	656.5	9,395.9	0.00	0.00	0.00
17,100.0	90.00	181.25	7,570.0	-9,473.2	654.3	9,495.5	0.00	0.00	0.00
17,200.0	90.00	181.25	7,570.0	-9,573.2	652.1	9,595.2	0.00	0.00	0.00

SandRidge Energy

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Well:	Janet 0780 3-16H21	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDMProd

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)
17,300.0	90.00	181.25	7,570.0	-9,673.2	649.9	9,694.8	0.00	0.00	0.00
17,400.0	90.00	181.25	7,570.0	-9,773.1	647.8	9,794.5	0.00	0.00	0.00
17,500.0	90.00	181.25	7,570.0	-9,873.1	645.6	9,894.1	0.00	0.00	0.00
17,600.0	90.00	181.25	7,570.0	-9,973.1	643.4	9,993.8	0.00	0.00	0.00
17,700.0	90.00	181.25	7,570.0	-10,073.1	641.2	10,093.4	0.00	0.00	0.00
17,800.0	90.00	181.25	7,570.0	-10,173.0	639.0	10,193.1	0.00	0.00	0.00
17,900.0	90.00	181.25	7,570.0	-10,273.0	636.9	10,292.7	0.00	0.00	0.00
17,918.8	90.00	181.25	7,570.0	-10,291.8	636.4	10,311.5	0.00	0.00	0.00

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Janet 3 BHL - plan hits target center - Point	0.00	360.00	7,570.0	-10,291.8	636.4	1,446,619.16	2,754,178.63	40° 33' 21.611 N	106° 23' 4.847 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
7,386.4	7,280.0	Niobrara		0.00	

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
3500	3500	0	0	Start Build 2.00	
4666	4646	51	187	Start 2506.2 hold at 4666.2 MD	
7172	7083	196	753	Start DLS 10.00 TFO 99.35	
8113	7570	-488	851	Start 9930.1 hold at 8112.5 MD	
18,043				TD at 18042.6	

Checked By: _____ Approved By: _____ Date: _____