

SandRidge Energy

North Park Basin

T7N-R80W-S9

Janet 0780 4-16H21

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 4-16H21
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 4-16H21	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 4-16H21		
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' 3.391 N
		Longitude:	106° 23' 14.444 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)
			53,191.07782200

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
			(°)
			172.78

Survey Tool Program	Date	12/18/2017		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
0.0	18,321.2	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 4-16H21	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
Start Build 2.00									
2,900.0	2.00	83.64	2,900.0	0.2	1.7	0.0	2.00	2.00	0.00
3,000.0	4.00	83.64	2,999.8	0.8	6.9	0.1	2.00	2.00	0.00
3,100.0	6.00	83.64	3,099.5	1.7	15.6	0.2	2.00	2.00	0.00
3,200.0	8.00	83.64	3,198.7	3.1	27.7	0.4	2.00	2.00	0.00
3,300.0	10.00	83.64	3,297.5	4.8	43.3	0.7	2.00	2.00	0.00
3,400.0	12.00	83.64	3,395.6	6.9	62.2	0.9	2.00	2.00	0.00
3,500.0	14.00	83.64	3,493.1	9.4	84.6	1.3	2.00	2.00	0.00
3,600.0	16.00	83.64	3,589.6	12.3	110.3	1.7	2.00	2.00	0.00
3,700.0	18.00	83.64	3,685.3	15.5	139.4	2.1	2.00	2.00	0.00
3,731.2	18.62	83.64	3,714.9	16.6	149.1	2.2	2.00	2.00	0.00
3,800.0	18.62	83.64	3,780.1	19.0	170.9	2.6	0.00	0.00	0.00
3,900.0	18.62	83.64	3,874.8	22.6	202.7	3.1	0.00	0.00	0.00
4,000.0	18.62	83.64	3,969.6	26.1	234.4	3.5	0.00	0.00	0.00
4,100.0	18.62	83.64	4,064.4	29.7	266.1	4.0	0.00	0.00	0.00
4,200.0	18.62	83.64	4,159.1	33.2	297.9	4.5	0.00	0.00	0.00
4,206.2	18.62	83.64	4,165.0	33.4	299.9	4.5	0.00	0.00	0.00
Start 3198.8 hold at 4206.2 MD									
4,300.0	18.62	83.64	4,253.9	36.7	329.6	5.0	0.00	0.00	0.00
4,400.0	18.62	83.64	4,348.7	40.3	361.4	5.4	0.00	0.00	0.00
4,500.0	18.62	83.64	4,443.4	43.8	393.1	5.9	0.00	0.00	0.00
4,600.0	18.62	83.64	4,538.2	47.3	424.8	6.4	0.00	0.00	0.00
4,700.0	18.62	83.64	4,633.0	50.9	456.6	6.9	0.00	0.00	0.00
4,800.0	18.62	83.64	4,727.7	54.4	488.3	7.4	0.00	0.00	0.00
4,900.0	18.62	83.64	4,822.5	58.0	520.0	7.8	0.00	0.00	0.00

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Well:	Janet 0780 4-16H21	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)
5,000.0	18.62	83.64	4,917.3	61.5	551.8	8.3	0.00	0.00	0.00
5,100.0	18.62	83.64	5,012.0	65.0	583.5	8.8	0.00	0.00	0.00
5,200.0	18.62	83.64	5,106.8	68.6	615.3	9.3	0.00	0.00	0.00
5,300.0	18.62	83.64	5,201.5	72.1	647.0	9.7	0.00	0.00	0.00
5,400.0	18.62	83.64	5,296.3	75.6	678.7	10.2	0.00	0.00	0.00
5,500.0	18.62	83.64	5,391.1	79.2	710.5	10.7	0.00	0.00	0.00
5,600.0	18.62	83.64	5,485.8	82.7	742.2	11.2	0.00	0.00	0.00
5,700.0	18.62	83.64	5,580.6	86.3	774.0	11.7	0.00	0.00	0.00
5,800.0	18.62	83.64	5,675.4	89.8	805.7	12.1	0.00	0.00	0.00
5,900.0	18.62	83.64	5,770.1	93.3	837.4	12.6	0.00	0.00	0.00
6,000.0	18.62	83.64	5,864.9	96.9	869.2	13.1	0.00	0.00	0.00
6,100.0	18.62	83.64	5,959.7	100.4	900.9	13.6	0.00	0.00	0.00
6,200.0	18.62	83.64	6,054.4	103.9	932.6	14.0	0.00	0.00	0.00
6,300.0	18.62	83.64	6,149.2	107.5	964.4	14.5	0.00	0.00	0.00
6,400.0	18.62	83.64	6,243.9	111.0	996.1	15.0	0.00	0.00	0.00
6,500.0	18.62	83.64	6,338.7	114.5	1,027.9	15.5	0.00	0.00	0.00
6,600.0	18.62	83.64	6,433.5	118.1	1,059.6	16.0	0.00	0.00	0.00
6,700.0	18.62	83.64	6,528.2	121.6	1,091.3	16.4	0.00	0.00	0.00
6,800.0	18.62	83.64	6,623.0	125.2	1,123.1	16.9	0.00	0.00	0.00
6,900.0	18.62	83.64	6,717.8	128.7	1,154.8	17.4	0.00	0.00	0.00
7,000.0	18.62	83.64	6,812.5	132.2	1,186.6	17.9	0.00	0.00	0.00
7,100.0	18.62	83.64	6,907.3	135.8	1,218.3	18.3	0.00	0.00	0.00
7,200.0	18.62	83.64	7,002.1	139.3	1,250.0	18.8	0.00	0.00	0.00
7,300.0	18.62	83.64	7,096.8	142.8	1,281.8	19.3	0.00	0.00	0.00
7,400.0	18.62	83.64	7,191.6	146.4	1,313.5	19.8	0.00	0.00	0.00
7,405.0	18.62	83.64	7,196.3	146.6	1,315.1	19.8	0.00	0.00	0.00
Start DLS 10.00 TFO 94.81									
7,500.0	18.62	83.64	7,286.3	149.9	1,345.2	20.3	0.00	0.00	0.00
7,501.7	18.62	83.64	7,288.0	150.0	1,345.8	20.3	0.00	0.00	0.00
Niobrara									
7,502.4	18.62	83.64	7,288.6	150.0	1,346.0	20.3	0.00	0.00	0.00
7,600.0	19.83	113.37	7,381.0	145.1	1,376.8	28.9	10.00	1.23	30.46
7,700.0	25.12	135.83	7,473.5	123.1	1,407.2	54.6	10.00	5.30	22.46
7,800.0	32.59	149.75	7,561.2	84.5	1,435.6	96.5	10.00	7.47	13.92
7,900.0	41.05	158.70	7,641.2	30.6	1,461.2	153.2	10.00	8.46	8.95
8,000.0	50.00	164.98	7,711.2	-37.2	1,483.1	223.2	10.00	8.95	6.28
8,100.0	59.21	169.77	7,769.1	-116.7	1,500.7	304.3	10.00	9.21	4.80
8,200.0	68.57	173.72	7,813.1	-205.4	1,513.5	393.9	10.00	9.35	3.95
8,300.0	78.00	177.18	7,841.8	-300.8	1,521.0	489.5	10.00	9.44	3.46
8,330.6	80.90	178.18	7,847.4	-330.9	1,522.2	519.5	10.00	9.47	3.28
Start 9905.8 hold at 8330.6 MD									
8,400.0	87.48	180.41	7,854.4	-399.8	1,523.0	588.0	10.00	9.48	3.20
8,426.6	90.00	181.25	7,855.0	-426.4	1,522.7	614.3	10.00	9.48	3.17
8,500.0	90.00	181.25	7,855.0	-499.8	1,521.1	686.9	0.00	0.00	0.00

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Survey Report

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Site:	T7N-R80W-S9	MD Reference:	WELL @ 8151.0usft (Original Well Elev)
Well:	Janet 0780 4-16H21	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)
8,600.0	90.00	181.25	7,855.0	-599.8	1,518.9	785.8	0.00	0.00	0.00
8,700.0	90.00	181.25	7,855.0	-699.8	1,516.7	884.7	0.00	0.00	0.00
8,800.0	90.00	181.25	7,855.0	-799.7	1,514.5	983.6	0.00	0.00	0.00
8,900.0	90.00	181.25	7,855.0	-899.7	1,512.3	1,082.6	0.00	0.00	0.00
9,000.0	90.00	181.25	7,855.0	-999.7	1,510.1	1,181.5	0.00	0.00	0.00
9,100.0	90.00	181.25	7,855.0	-1,099.7	1,507.9	1,280.4	0.00	0.00	0.00
9,200.0	90.00	181.25	7,855.0	-1,199.6	1,505.8	1,379.3	0.00	0.00	0.00
9,300.0	90.00	181.25	7,855.0	-1,299.6	1,503.6	1,478.2	0.00	0.00	0.00
9,400.0	90.00	181.25	7,855.0	-1,399.6	1,501.4	1,577.1	0.00	0.00	0.00
9,500.0	90.00	181.25	7,855.0	-1,499.6	1,499.2	1,676.0	0.00	0.00	0.00
9,600.0	90.00	181.25	7,855.0	-1,599.5	1,497.0	1,774.9	0.00	0.00	0.00
9,700.0	90.00	181.25	7,855.0	-1,699.5	1,494.8	1,873.8	0.00	0.00	0.00
9,800.0	90.00	181.25	7,855.0	-1,799.5	1,492.7	1,972.7	0.00	0.00	0.00
9,900.0	90.00	181.25	7,855.0	-1,899.5	1,490.5	2,071.7	0.00	0.00	0.00
10,000.0	90.00	181.25	7,855.0	-1,999.4	1,488.3	2,170.6	0.00	0.00	0.00
10,100.0	90.00	181.25	7,855.0	-2,099.4	1,486.1	2,269.5	0.00	0.00	0.00
10,200.0	90.00	181.25	7,855.0	-2,199.4	1,483.9	2,368.4	0.00	0.00	0.00
10,300.0	90.00	181.25	7,855.0	-2,299.4	1,481.7	2,467.3	0.00	0.00	0.00
10,400.0	90.00	181.25	7,855.0	-2,399.4	1,479.6	2,566.2	0.00	0.00	0.00
10,500.0	90.00	181.25	7,855.0	-2,499.3	1,477.4	2,665.1	0.00	0.00	0.00
10,600.0	90.00	181.25	7,855.0	-2,599.3	1,475.2	2,764.0	0.00	0.00	0.00
10,700.0	90.00	181.25	7,855.0	-2,699.3	1,473.0	2,862.9	0.00	0.00	0.00
10,800.0	90.00	181.25	7,855.0	-2,799.3	1,470.8	2,961.8	0.00	0.00	0.00
10,900.0	90.00	181.25	7,855.0	-2,899.2	1,468.6	3,060.8	0.00	0.00	0.00
11,000.0	90.00	181.25	7,855.0	-2,999.2	1,466.5	3,159.7	0.00	0.00	0.00
11,100.0	90.00	181.25	7,855.0	-3,099.2	1,464.3	3,258.6	0.00	0.00	0.00
11,200.0	90.00	181.25	7,855.0	-3,199.2	1,462.1	3,357.5	0.00	0.00	0.00
11,300.0	90.00	181.25	7,855.0	-3,299.1	1,459.9	3,456.4	0.00	0.00	0.00
11,400.0	90.00	181.25	7,855.0	-3,399.1	1,457.7	3,555.3	0.00	0.00	0.00
11,500.0	90.00	181.25	7,855.0	-3,499.1	1,455.5	3,654.2	0.00	0.00	0.00
11,600.0	90.00	181.25	7,855.0	-3,599.1	1,453.3	3,753.1	0.00	0.00	0.00
11,700.0	90.00	181.25	7,855.0	-3,699.0	1,451.2	3,852.0	0.00	0.00	0.00
11,800.0	90.00	181.25	7,855.0	-3,799.0	1,449.0	3,950.9	0.00	0.00	0.00
11,900.0	90.00	181.25	7,855.0	-3,899.0	1,446.8	4,049.8	0.00	0.00	0.00
12,000.0	90.00	181.25	7,855.0	-3,999.0	1,444.6	4,148.8	0.00	0.00	0.00
12,100.0	90.00	181.25	7,855.0	-4,098.9	1,442.4	4,247.7	0.00	0.00	0.00
12,200.0	90.00	181.25	7,855.0	-4,198.9	1,440.2	4,346.6	0.00	0.00	0.00
12,300.0	90.00	181.25	7,855.0	-4,298.9	1,438.1	4,445.5	0.00	0.00	0.00
12,400.0	90.00	181.25	7,855.0	-4,398.9	1,435.9	4,544.4	0.00	0.00	0.00
12,500.0	90.00	181.25	7,855.0	-4,498.9	1,433.7	4,643.3	0.00	0.00	0.00
12,600.0	90.00	181.25	7,855.0	-4,598.8	1,431.5	4,742.2	0.00	0.00	0.00
12,700.0	90.00	181.25	7,855.0	-4,698.8	1,429.3	4,841.1	0.00	0.00	0.00
12,800.0	90.00	181.25	7,855.0	-4,798.8	1,427.1	4,940.0	0.00	0.00	0.00

SandRidge Energy

Survey Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Janet 0780 4-16H21
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 4-16H21	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	7,855.0	-4,898.8	1,425.0	5,038.9	0.00	0.00	0.00
13,000.0	90.00	181.25	7,855.0	-4,998.7	1,422.8	5,137.9	0.00	0.00	0.00
13,100.0	90.00	181.25	7,855.0	-5,098.7	1,420.6	5,236.8	0.00	0.00	0.00
13,200.0	90.00	181.25	7,855.0	-5,198.7	1,418.4	5,335.7	0.00	0.00	0.00
13,300.0	90.00	181.25	7,855.0	-5,298.7	1,416.2	5,434.6	0.00	0.00	0.00
13,400.0	90.00	181.25	7,855.0	-5,398.6	1,414.0	5,533.5	0.00	0.00	0.00
13,500.0	90.00	181.25	7,855.0	-5,498.6	1,411.9	5,632.4	0.00	0.00	0.00
13,600.0	90.00	181.25	7,855.0	-5,598.6	1,409.7	5,731.3	0.00	0.00	0.00
13,700.0	90.00	181.25	7,855.0	-5,698.6	1,407.5	5,830.2	0.00	0.00	0.00
13,800.0	90.00	181.25	7,855.0	-5,798.5	1,405.3	5,929.1	0.00	0.00	0.00
13,900.0	90.00	181.25	7,855.0	-5,898.5	1,403.1	6,028.0	0.00	0.00	0.00
14,000.0	90.00	181.25	7,855.0	-5,998.5	1,400.9	6,127.0	0.00	0.00	0.00
14,100.0	90.00	181.25	7,855.0	-6,098.5	1,398.8	6,225.9	0.00	0.00	0.00
14,200.0	90.00	181.25	7,855.0	-6,198.4	1,396.6	6,324.8	0.00	0.00	0.00
14,300.0	90.00	181.25	7,855.0	-6,298.4	1,394.4	6,423.7	0.00	0.00	0.00
14,400.0	90.00	181.25	7,855.0	-6,398.4	1,392.2	6,522.6	0.00	0.00	0.00
14,500.0	90.00	181.25	7,855.0	-6,498.4	1,390.0	6,621.5	0.00	0.00	0.00
14,600.0	90.00	181.25	7,855.0	-6,598.3	1,387.8	6,720.4	0.00	0.00	0.00
14,700.0	90.00	181.25	7,855.0	-6,698.3	1,385.6	6,819.3	0.00	0.00	0.00
14,800.0	90.00	181.25	7,855.0	-6,798.3	1,383.5	6,918.2	0.00	0.00	0.00
14,900.0	90.00	181.25	7,855.0	-6,898.3	1,381.3	7,017.1	0.00	0.00	0.00
15,000.0	90.00	181.25	7,855.0	-6,998.3	1,379.1	7,116.1	0.00	0.00	0.00
15,100.0	90.00	181.25	7,855.0	-7,098.2	1,376.9	7,215.0	0.00	0.00	0.00
15,200.0	90.00	181.25	7,855.0	-7,198.2	1,374.7	7,313.9	0.00	0.00	0.00
15,300.0	90.00	181.25	7,855.0	-7,298.2	1,372.5	7,412.8	0.00	0.00	0.00
15,400.0	90.00	181.25	7,855.0	-7,398.2	1,370.4	7,511.7	0.00	0.00	0.00
15,500.0	90.00	181.25	7,855.0	-7,498.1	1,368.2	7,610.6	0.00	0.00	0.00
15,600.0	90.00	181.25	7,855.0	-7,598.1	1,366.0	7,709.5	0.00	0.00	0.00
15,700.0	90.00	181.25	7,855.0	-7,698.1	1,363.8	7,808.4	0.00	0.00	0.00
15,800.0	90.00	181.25	7,855.0	-7,798.1	1,361.6	7,907.3	0.00	0.00	0.00
15,900.0	90.00	181.25	7,855.0	-7,898.0	1,359.4	8,006.2	0.00	0.00	0.00
16,000.0	90.00	181.25	7,855.0	-7,998.0	1,357.3	8,105.2	0.00	0.00	0.00
16,100.0	90.00	181.25	7,855.0	-8,098.0	1,355.1	8,204.1	0.00	0.00	0.00
16,200.0	90.00	181.25	7,855.0	-8,198.0	1,352.9	8,303.0	0.00	0.00	0.00
16,300.0	90.00	181.25	7,855.0	-8,297.9	1,350.7	8,401.9	0.00	0.00	0.00
16,400.0	90.00	181.25	7,855.0	-8,397.9	1,348.5	8,500.8	0.00	0.00	0.00
16,500.0	90.00	181.25	7,855.0	-8,497.9	1,346.3	8,599.7	0.00	0.00	0.00
16,600.0	90.00	181.25	7,855.0	-8,597.9	1,344.2	8,698.6	0.00	0.00	0.00
16,700.0	90.00	181.25	7,855.0	-8,697.8	1,342.0	8,797.5	0.00	0.00	0.00
16,800.0	90.00	181.25	7,855.0	-8,797.8	1,339.8	8,896.4	0.00	0.00	0.00
16,900.0	90.00	181.25	7,855.0	-8,897.8	1,337.6	8,995.3	0.00	0.00	0.00
17,000.0	90.00	181.25	7,855.0	-8,997.8	1,335.4	9,094.3	0.00	0.00	0.00
17,100.0	90.00	181.25	7,855.0	-9,097.8	1,333.2	9,193.2	0.00	0.00	0.00
17,200.0	90.00	181.25	7,855.0	-9,197.7	1,331.1	9,292.1	0.00	0.00	0.00

SandRidge Energy

Survey Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Janet 0780 4-16H21
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 4-16H21	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	7,855.0	-9,297.7	1,328.9	9,391.0	0.00	0.00	0.00
17,400.0	90.00	181.25	7,855.0	-9,397.7	1,326.7	9,489.9	0.00	0.00	0.00
17,500.0	90.00	181.25	7,855.0	-9,497.7	1,324.5	9,588.8	0.00	0.00	0.00
17,600.0	90.00	181.25	7,855.0	-9,597.6	1,322.3	9,687.7	0.00	0.00	0.00
17,700.0	90.00	181.25	7,855.0	-9,697.6	1,320.1	9,786.6	0.00	0.00	0.00
17,800.0	90.00	181.25	7,855.0	-9,797.6	1,317.9	9,885.5	0.00	0.00	0.00
17,900.0	90.00	181.25	7,855.0	-9,897.6	1,315.8	9,984.4	0.00	0.00	0.00
18,000.0	90.00	181.25	7,855.0	-9,997.5	1,313.6	10,083.4	0.00	0.00	0.00
18,100.0	90.00	181.25	7,855.0	-10,097.5	1,311.4	10,182.3	0.00	0.00	0.00
18,200.0	90.00	181.25	7,855.0	-10,197.5	1,309.2	10,281.2	0.00	0.00	0.00
18,236.4	90.00	181.25	7,855.0	-10,233.9	1,308.4	10,317.2	0.00	0.00	0.00
TD at 18236.4									
18,300.0	90.00	181.25	7,855.0	-10,297.5	1,307.0	10,380.1	0.00	0.00	0.00
18,321.4	90.00	181.25	7,855.0	-10,318.9	1,306.6	10,401.3	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 4 BHL - plan hits target center - Point	0.00	0.00	7,855.0	-10,318.9	1,306.6	1,446,607.04	2,754,847.52	40° 33' 21.558 N	106° 22' 56.180 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
7,501.7	7,288.0	Niobrara		0.00	

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2800	2800	0	0	Start Build 2.00
4206	4165	33	300	Start 3198.8 hold at 4206.2 MD
7405	7196	147	1315	Start DLS 10.00 TFO 94.81
8331	7847	-331	1522	Start 9905.8 hold at 8330.6 MD
18,236	7855	-10,234	1308	TD at 18236.4

Checked By: _____ Approved By: _____ Date: _____