

SandRidge Energy

North Park Basin

T7N-R80W-S9

Janet 0780 2-16H21

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 2-16H21
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 2-16H21	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 2-16H21		
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' 3.096 N
		Longitude:	106° 23' 14.408 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)
			53,191.03583257

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
			(°)
			180.19

Survey Tool Program	Date	12/18/2017		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
0.0	18,016.7	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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Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Janet 0780 2-16H21
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 2-16H21	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)
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
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00

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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)
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,424.7	0.00	0.00	5,424.7	0.0	0.0	0.0	0.00	0.00	0.00
Start 1553.7 hold at 5424.7 MD									
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	2.00	26.57	5,600.0	1.6	0.8	-1.6	2.00	2.00	0.00
5,700.0	4.00	26.57	5,699.8	6.2	3.1	-6.3	2.00	2.00	0.00
5,800.0	6.00	26.57	5,799.5	14.0	7.0	-14.1	2.00	2.00	0.00
5,900.0	8.00	26.57	5,898.7	24.9	12.5	-25.0	2.00	2.00	0.00
6,000.0	10.00	26.57	5,997.5	38.9	19.5	-39.0	2.00	2.00	0.00
6,100.0	12.00	26.57	6,095.6	56.0	28.0	-56.1	2.00	2.00	0.00
6,169.3	13.39	26.57	6,163.2	69.6	34.8	-69.7	2.00	2.00	0.00
6,200.0	13.39	26.57	6,193.1	76.0	38.0	-76.1	0.00	0.00	0.00
6,300.0	13.39	26.57	6,290.4	96.7	48.3	-96.8	0.00	0.00	0.00
6,400.0	13.39	26.57	6,387.7	117.4	58.7	-117.6	0.00	0.00	0.00
6,500.0	13.39	26.57	6,484.9	138.1	69.0	-138.3	0.00	0.00	0.00
6,600.0	13.39	26.57	6,582.2	158.8	79.4	-159.1	0.00	0.00	0.00
6,700.0	13.39	26.57	6,679.5	179.5	89.8	-179.8	0.00	0.00	0.00
6,800.0	13.39	26.57	6,776.8	200.2	100.1	-200.5	0.00	0.00	0.00
6,900.0	13.39	26.57	6,874.1	220.9	110.5	-221.3	0.00	0.00	0.00
6,978.4	13.39	26.57	6,950.4	237.2	118.6	-237.5	0.00	0.00	0.00
Start DLS 10.00 TFO 112.64									
7,000.0	13.39	26.57	6,971.4	241.6	120.8	-242.0	0.00	0.00	0.00
7,040.4	13.39	26.57	7,010.7	250.0	125.0	-250.4	0.00	0.00	0.00
7,100.0	8.43	44.59	7,069.2	259.3	131.2	-259.7	10.00	-8.31	30.26
7,200.0	6.98	125.04	7,168.5	261.0	141.3	-261.5	10.00	-1.45	80.45
7,300.0	15.02	158.96	7,266.7	245.4	151.0	-245.9	10.00	8.04	33.92
7,313.8	16.30	160.88	7,280.0	241.9	152.2	-242.4	10.00	9.27	13.92
Niobrara									
7,400.0	24.53	168.36	7,360.7	212.9	159.8	-213.4	10.00	9.55	8.68
7,500.0	34.31	172.67	7,447.7	164.5	167.6	-165.0	10.00	9.78	4.31
7,600.0	44.18	175.24	7,525.1	101.6	174.1	-102.2	10.00	9.87	2.56
7,700.0	54.09	177.02	7,590.4	26.3	179.1	-26.9	10.00	9.91	1.78
7,800.0	64.02	178.40	7,641.8	-59.3	182.5	58.7	10.00	9.93	1.38
7,900.0	73.96	179.57	7,677.6	-152.5	184.1	151.9	10.00	9.94	1.17
7,951.8	79.11	180.13	7,689.6	-202.9	184.3	202.3	10.00	9.95	1.07
Start 9957.0 hold at 7951.8 MD									
8,000.0	83.91	180.62	7,696.8	-250.6	183.9	249.9	10.00	9.95	1.04
8,061.2	90.00	181.25	7,700.0	-311.7	182.9	311.1	10.00	9.95	1.02
8,100.0	90.00	181.25	7,700.0	-350.4	182.1	349.8	0.00	0.00	0.00
8,200.0	90.00	181.25	7,700.0	-450.4	179.9	449.8	0.00	0.00	0.00
8,300.0	90.00	181.25	7,700.0	-550.4	177.7	549.8	0.00	0.00	0.00
8,400.0	90.00	181.25	7,700.0	-650.3	175.6	649.8	0.00	0.00	0.00
8,500.0	90.00	181.25	7,700.0	-750.3	173.4	749.8	0.00	0.00	0.00

SandRidge Energy

Survey Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Janet 0780 2-16H21
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 2-16H21	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	7,700.0	-850.3	171.2	849.7	0.00	0.00	0.00
8,700.0	90.00	181.25	7,700.0	-950.3	169.0	949.7	0.00	0.00	0.00
8,800.0	90.00	181.25	7,700.0	-1,050.3	166.9	1,049.7	0.00	0.00	0.00
8,900.0	90.00	181.25	7,700.0	-1,150.2	164.7	1,149.7	0.00	0.00	0.00
9,000.0	90.00	181.25	7,700.0	-1,250.2	162.5	1,249.7	0.00	0.00	0.00
9,100.0	90.00	181.25	7,700.0	-1,350.2	160.3	1,349.6	0.00	0.00	0.00
9,200.0	90.00	181.25	7,700.0	-1,450.2	158.2	1,449.6	0.00	0.00	0.00
9,300.0	90.00	181.25	7,700.0	-1,550.1	156.0	1,549.6	0.00	0.00	0.00
9,400.0	90.00	181.25	7,700.0	-1,650.1	153.8	1,649.6	0.00	0.00	0.00
9,500.0	90.00	181.25	7,700.0	-1,750.1	151.6	1,749.6	0.00	0.00	0.00
9,600.0	90.00	181.25	7,700.0	-1,850.1	149.5	1,849.6	0.00	0.00	0.00
9,700.0	90.00	181.25	7,700.0	-1,950.0	147.3	1,949.5	0.00	0.00	0.00
9,800.0	90.00	181.25	7,700.0	-2,050.0	145.1	2,049.5	0.00	0.00	0.00
9,900.0	90.00	181.25	7,700.0	-2,150.0	142.9	2,149.5	0.00	0.00	0.00
10,000.0	90.00	181.25	7,700.0	-2,250.0	140.8	2,249.5	0.00	0.00	0.00
10,100.0	90.00	181.25	7,700.0	-2,349.9	138.6	2,349.5	0.00	0.00	0.00
10,200.0	90.00	181.25	7,700.0	-2,449.9	136.4	2,449.5	0.00	0.00	0.00
10,300.0	90.00	181.25	7,700.0	-2,549.9	134.2	2,549.4	0.00	0.00	0.00
10,400.0	90.00	181.25	7,700.0	-2,649.9	132.1	2,649.4	0.00	0.00	0.00
10,500.0	90.00	181.25	7,700.0	-2,749.8	129.9	2,749.4	0.00	0.00	0.00
10,600.0	90.00	181.25	7,700.0	-2,849.8	127.7	2,849.4	0.00	0.00	0.00
10,700.0	90.00	181.25	7,700.0	-2,949.8	125.5	2,949.4	0.00	0.00	0.00
10,800.0	90.00	181.25	7,700.0	-3,049.8	123.4	3,049.4	0.00	0.00	0.00
10,900.0	90.00	181.25	7,700.0	-3,149.8	121.2	3,149.3	0.00	0.00	0.00
11,000.0	90.00	181.25	7,700.0	-3,249.7	119.0	3,249.3	0.00	0.00	0.00
11,100.0	90.00	181.25	7,700.0	-3,349.7	116.8	3,349.3	0.00	0.00	0.00
11,200.0	90.00	181.25	7,700.0	-3,449.7	114.6	3,449.3	0.00	0.00	0.00
11,300.0	90.00	181.25	7,700.0	-3,549.7	112.5	3,549.3	0.00	0.00	0.00
11,400.0	90.00	181.25	7,700.0	-3,649.6	110.3	3,649.3	0.00	0.00	0.00
11,500.0	90.00	181.25	7,700.0	-3,749.6	108.1	3,749.2	0.00	0.00	0.00
11,600.0	90.00	181.25	7,700.0	-3,849.6	105.9	3,849.2	0.00	0.00	0.00
11,700.0	90.00	181.25	7,700.0	-3,949.6	103.8	3,949.2	0.00	0.00	0.00
11,800.0	90.00	181.25	7,700.0	-4,049.5	101.6	4,049.2	0.00	0.00	0.00
11,900.0	90.00	181.25	7,700.0	-4,149.5	99.4	4,149.2	0.00	0.00	0.00
12,000.0	90.00	181.25	7,700.0	-4,249.5	97.2	4,249.2	0.00	0.00	0.00
12,100.0	90.00	181.25	7,700.0	-4,349.5	95.1	4,349.1	0.00	0.00	0.00
12,200.0	90.00	181.25	7,700.0	-4,449.4	92.9	4,449.1	0.00	0.00	0.00
12,300.0	90.00	181.25	7,700.0	-4,549.4	90.7	4,549.1	0.00	0.00	0.00
12,400.0	90.00	181.25	7,700.0	-4,649.4	88.5	4,649.1	0.00	0.00	0.00
12,500.0	90.00	181.25	7,700.0	-4,749.4	86.4	4,749.1	0.00	0.00	0.00
12,600.0	90.00	181.25	7,700.0	-4,849.4	84.2	4,849.1	0.00	0.00	0.00
12,700.0	90.00	181.25	7,700.0	-4,949.3	82.0	4,949.0	0.00	0.00	0.00
12,800.0	90.00	181.25	7,700.0	-5,049.3	79.8	5,049.0	0.00	0.00	0.00

SandRidge Energy

Survey Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Janet 0780 2-16H21
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 2-16H21	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)
12,900.0	90.00	181.25	7,700.0	-5,149.3	77.7	5,149.0	0.00	0.00	0.00
13,000.0	90.00	181.25	7,700.0	-5,249.3	75.5	5,249.0	0.00	0.00	0.00
13,100.0	90.00	181.25	7,700.0	-5,349.2	73.3	5,349.0	0.00	0.00	0.00
13,200.0	90.00	181.25	7,700.0	-5,449.2	71.1	5,448.9	0.00	0.00	0.00
13,300.0	90.00	181.25	7,700.0	-5,549.2	69.0	5,548.9	0.00	0.00	0.00
13,400.0	90.00	181.25	7,700.0	-5,649.2	66.8	5,648.9	0.00	0.00	0.00
13,500.0	90.00	181.25	7,700.0	-5,749.1	64.6	5,748.9	0.00	0.00	0.00
13,600.0	90.00	181.25	7,700.0	-5,849.1	62.4	5,848.9	0.00	0.00	0.00
13,700.0	90.00	181.25	7,700.0	-5,949.1	60.3	5,948.9	0.00	0.00	0.00
13,800.0	90.00	181.25	7,700.0	-6,049.1	58.1	6,048.8	0.00	0.00	0.00
13,900.0	90.00	181.25	7,700.0	-6,149.0	55.9	6,148.8	0.00	0.00	0.00
14,000.0	90.00	181.25	7,700.0	-6,249.0	53.7	6,248.8	0.00	0.00	0.00
14,100.0	90.00	181.25	7,700.0	-6,349.0	51.6	6,348.8	0.00	0.00	0.00
14,200.0	90.00	181.25	7,700.0	-6,449.0	49.4	6,448.8	0.00	0.00	0.00
14,300.0	90.00	181.25	7,700.0	-6,548.9	47.2	6,548.8	0.00	0.00	0.00
14,400.0	90.00	181.25	7,700.0	-6,648.9	45.0	6,648.7	0.00	0.00	0.00
14,500.0	90.00	181.25	7,700.0	-6,748.9	42.8	6,748.7	0.00	0.00	0.00
14,600.0	90.00	181.25	7,700.0	-6,848.9	40.7	6,848.7	0.00	0.00	0.00
14,700.0	90.00	181.25	7,700.0	-6,948.9	38.5	6,948.7	0.00	0.00	0.00
14,800.0	90.00	181.25	7,700.0	-7,048.8	36.3	7,048.7	0.00	0.00	0.00
14,900.0	90.00	181.25	7,700.0	-7,148.8	34.1	7,148.7	0.00	0.00	0.00
15,000.0	90.00	181.25	7,700.0	-7,248.8	32.0	7,248.6	0.00	0.00	0.00
15,100.0	90.00	181.25	7,700.0	-7,348.8	29.8	7,348.6	0.00	0.00	0.00
15,200.0	90.00	181.25	7,700.0	-7,448.7	27.6	7,448.6	0.00	0.00	0.00
15,300.0	90.00	181.25	7,700.0	-7,548.7	25.4	7,548.6	0.00	0.00	0.00
15,400.0	90.00	181.25	7,700.0	-7,648.7	23.3	7,648.6	0.00	0.00	0.00
15,500.0	90.00	181.25	7,700.0	-7,748.7	21.1	7,748.6	0.00	0.00	0.00
15,600.0	90.00	181.25	7,700.0	-7,848.6	18.9	7,848.5	0.00	0.00	0.00
15,700.0	90.00	181.25	7,700.0	-7,948.6	16.7	7,948.5	0.00	0.00	0.00
15,800.0	90.00	181.25	7,700.0	-8,048.6	14.6	8,048.5	0.00	0.00	0.00
15,900.0	90.00	181.25	7,700.0	-8,148.6	12.4	8,148.5	0.00	0.00	0.00
16,000.0	90.00	181.25	7,700.0	-8,248.5	10.2	8,248.5	0.00	0.00	0.00
16,100.0	90.00	181.25	7,700.0	-8,348.5	8.0	8,348.5	0.00	0.00	0.00
16,200.0	90.00	181.25	7,700.0	-8,448.5	5.9	8,448.4	0.00	0.00	0.00
16,300.0	90.00	181.25	7,700.0	-8,548.5	3.7	8,548.4	0.00	0.00	0.00
16,400.0	90.00	181.25	7,700.0	-8,648.5	1.5	8,648.4	0.00	0.00	0.00
16,500.0	90.00	181.25	7,700.0	-8,748.4	-0.7	8,748.4	0.00	0.00	0.00
16,600.0	90.00	181.25	7,700.0	-8,848.4	-2.8	8,848.4	0.00	0.00	0.00
16,700.0	90.00	181.25	7,700.0	-8,948.4	-5.0	8,948.3	0.00	0.00	0.00
16,800.0	90.00	181.25	7,700.0	-9,048.4	-7.2	9,048.3	0.00	0.00	0.00
16,900.0	90.00	181.25	7,700.0	-9,148.3	-9.4	9,148.3	0.00	0.00	0.00
17,000.0	90.00	181.25	7,700.0	-9,248.3	-11.5	9,248.3	0.00	0.00	0.00
17,100.0	90.00	181.25	7,700.0	-9,348.3	-13.7	9,348.3	0.00	0.00	0.00
17,200.0	90.00	181.25	7,700.0	-9,448.3	-15.9	9,448.3	0.00	0.00	0.00

SandRidge Energy

Survey Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Janet 0780 2-16H21
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 2-16H21	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	7,700.0	-9,548.2	-18.1	9,548.2	0.00	0.00	0.00
17,400.0	90.00	181.25	7,700.0	-9,648.2	-20.3	9,648.2	0.00	0.00	0.00
17,500.0	90.00	181.25	7,700.0	-9,748.2	-22.4	9,748.2	0.00	0.00	0.00
17,600.0	90.00	181.25	7,700.0	-9,848.2	-24.6	9,848.2	0.00	0.00	0.00
17,700.0	90.00	181.25	7,700.0	-9,948.1	-26.8	9,948.2	0.00	0.00	0.00
17,800.0	90.00	181.25	7,700.0	-10,048.1	-29.0	10,048.2	0.00	0.00	0.00
17,900.0	90.00	181.25	7,700.0	-10,148.1	-31.1	10,148.1	0.00	0.00	0.00
17,908.8	90.00	181.25	7,700.0	-10,156.9	-31.3	10,156.9	0.00	0.00	0.00
TD at 17908.8									
18,000.0	90.00	181.25	7,700.0	-10,248.1	-33.3	10,248.1	0.00	0.00	0.00
18,016.7	90.00	181.25	7,700.0	-10,264.8	-33.7	10,264.8	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
Janet 2 BHL	0.00	360.00	7,700.0	-10,264.8	-33.7	1,446,631.27	2,753,509.74	40° 33' 21.665 N	106° 23' 13.514 W
- hit/miss target									
- Shape									
- plan hits target center									
- Point									

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
7,313.8	7,280.0	Niobrara		0.00	

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
4500	4500	0	0	Start Build 2.00
5425	5425	0	0	Start 1553.7 hold at 5424.7 MD
6978	6950	237	119	Start DLS 10.00 TFO 112.64
7952	7690	-203	184	Start 9957.0 hold at 7951.8 MD
17,909	7700	-10,157	-31	TD at 17908.8

Checked By: _____ Approved By: _____ Date: _____