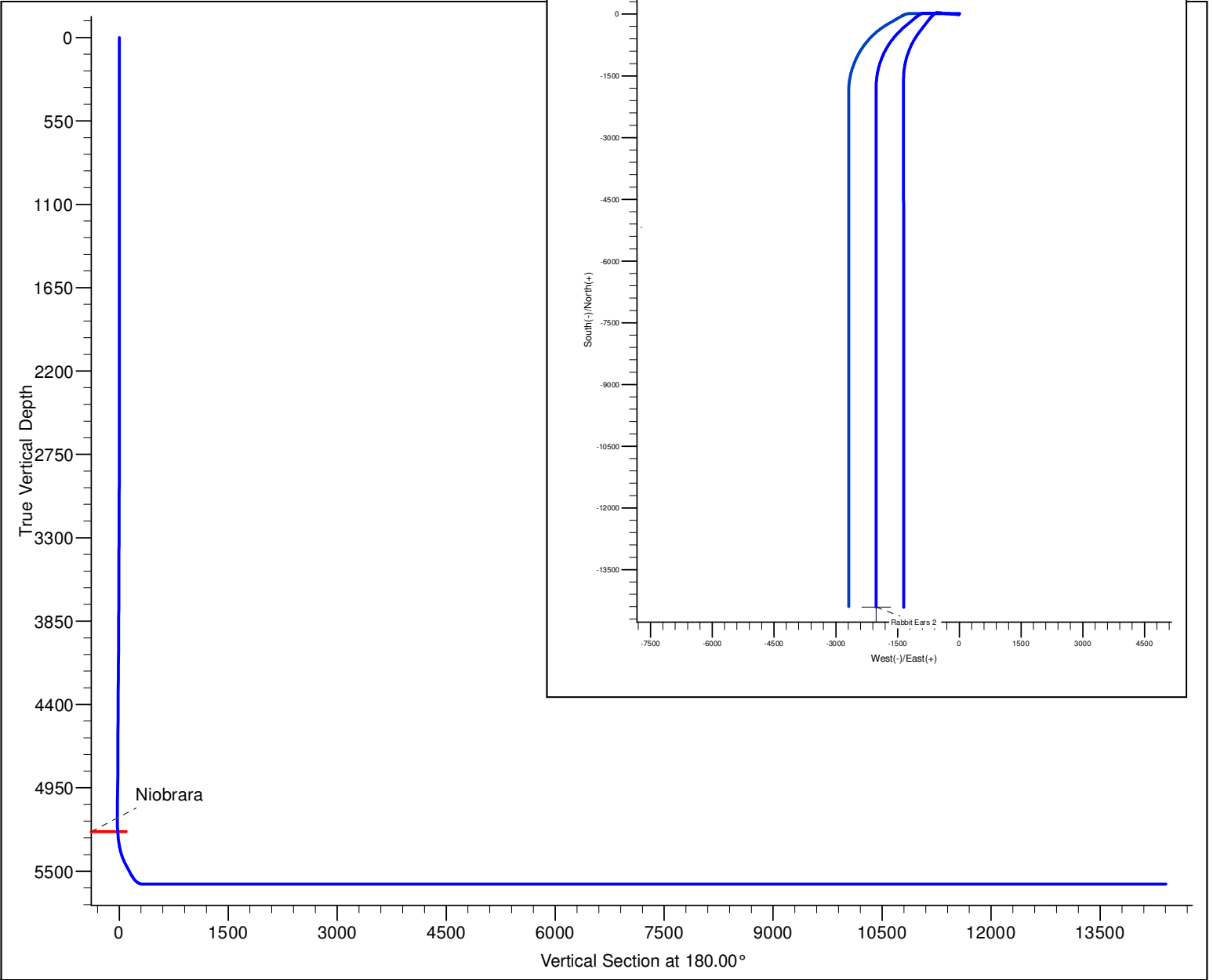


PROJECT DETAILS: North Park Basin					<div><div><div><div><div></div><div>G</div></div><div><div></div><div>T</div></div><div><div></div><div>M</div></div></div><div><div></div></div></div></div> <div><div>Azimuths to Grid North True North: 0.62° Magnetic North: 10.52° Magnetic Field Strength: 53125.3snT Dip Angle: 66.88° Date: 12/31/2009 Model: IGRF200510</div></div>	
<div>Geodetic System: US State Plane 1983 Datum: North American Datum 1983 Ellipsoid: GRS 1980 Zone: Colorado Northern Zone System Datum: Mean Sea Level</div>						
FORMATION TOP DETAILS					CASING DETAILS	
<div><div>TVDPathMDPathFormationDipAngleDipDir</div><div>5240.05414.1Niobrara0.00</div></div>					No casing data is available	
DESIGN DETAILS: Design #1						
0' Vertical Section coordinates					<div>Project: North Park Basin Site: T6N-R81W-S23 Well: REU 0681 2-23H/35 Wellbore: Wellbore #1 Design: Design #1</div>	
<div><div>TypeTargetAzimuthOriginTypeN/SE/WFromTVD</div><div>User180.00Slot0.00.00.0</div></div>						



SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	2700.0	0.00	0.00	2700.0	0.0	0.0	0.00	0.00	0.0		
3	3932.4	24.65	271.69	3894.7	7.7	-260.9	2.00	271.69	-7.7		
4	5343.2	24.65	271.69	5177.0	25.0	-849.0	0.00	0.00	-25.0		
5	5706.5	60.00	230.00	5446.1	-79.0	-1055.3	12.00	-56.63	79.0		
6	5856.5	60.00	230.00	5521.1	-162.5	-1154.8	0.00	0.00	162.5		
7	6106.5	90.00	230.00	5585.0	-315.9	-1337.7	12.00	0.00	315.9		
8	7773.3	90.00	180.00	5585.0	-1779.0	-2019.9	3.00	-90.00	1779.0	Rabbit Ears 2	
9	20400.3	90.00	180.00	5585.0	-14406.1	-2019.4	0.00	0.00	14406.1	Rabbit Ears 2	

SandRidge Energy

**North Park Basin
T6N-R81W-S23
REU 0681 2-23H/35**

Wellbore #1

Plan: Design #1

Standard Survey Report

22 March, 2017

SandRidge Energy, Inc.

Survey Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well REU 0681 2-23H/35
Project:	North Park Basin	TVD Reference:	KB @ 8324.0usft
Site:	T6N-R81W-S23	MD Reference:	KB @ 8324.0usft
Well:	REU 0681 2-23H/35	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	T6N-R81W-S23					
Site Position:		Northing:	1,418,032.39 usft	Latitude:	40° 28' 37.133 N	
From:	Map	Easting:	2,734,606.19 usft	Longitude:	106° 27' 14.423 W	
Position Uncertainty:		0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.62 °

Well	REU 0681 2-23H/35					
Well Position	+N-S	0.0 usft	Northing:	1,418,083.97 usft	Latitude:	40° 28' 37.634 N
	+E-W	0.0 usft	Easting:	2,734,520.52 usft	Longitude:	106° 27' 15.539 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	8,308.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	9.91	66.88	53,125

Design	Design #1				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	180.00	

Survey Tool Program	Date	3/22/2017			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	20,400.2	Design #1 (Wellbore #1)	Sperry MWD	Fixed:v2:standard declination	

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	

SandRidge Energy, Inc.

Survey Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well REU 0681 2-23H/35
Project:	North Park Basin	TVD Reference:	KB @ 8324.0usft
Site:	T6N-R81W-S23	MD Reference:	KB @ 8324.0usft
Well:	REU 0681 2-23H/35	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
Start Build 2.00									
2,800.0	2.00	271.69	2,800.0	0.1	-1.7	-0.1	2.00	2.00	0.00
2,900.0	4.00	271.69	2,899.8	0.2	-7.0	-0.2	2.00	2.00	0.00
3,000.0	6.00	271.69	2,999.5	0.5	-15.7	-0.5	2.00	2.00	0.00
3,100.0	8.00	271.69	3,098.7	0.8	-27.9	-0.8	2.00	2.00	0.00
3,200.0	10.00	271.69	3,197.5	1.3	-43.5	-1.3	2.00	2.00	0.00
3,300.0	12.00	271.69	3,295.6	1.8	-62.6	-1.8	2.00	2.00	0.00
3,400.0	14.00	271.69	3,393.1	2.5	-85.1	-2.5	2.00	2.00	0.00
3,500.0	16.00	271.69	3,489.6	3.3	-110.9	-3.3	2.00	2.00	0.00
3,600.0	18.00	271.69	3,585.3	4.1	-140.2	-4.1	2.00	2.00	0.00
3,700.0	20.00	271.69	3,679.8	5.1	-172.7	-5.1	2.00	2.00	0.00
3,800.0	22.00	271.69	3,773.2	6.1	-208.5	-6.1	2.00	2.00	0.00
3,900.0	24.00	271.69	3,865.2	7.3	-247.6	-7.3	2.00	2.00	0.00
3,932.4	24.65	271.69	3,894.7	7.7	-260.9	-7.7	2.00	2.00	0.00
Start 1410.8 hold at 3932.4 MD									
4,000.0	24.65	271.69	3,956.2	8.5	-289.1	-8.5	0.00	0.00	0.00
4,100.0	24.65	271.69	4,047.1	9.7	-330.8	-9.7	0.00	0.00	0.00
4,200.0	24.65	271.69	4,138.0	11.0	-372.5	-11.0	0.00	0.00	0.00
4,300.0	24.65	271.69	4,228.8	12.2	-414.1	-12.2	0.00	0.00	0.00
4,400.0	24.65	271.69	4,319.7	13.4	-455.8	-13.4	0.00	0.00	0.00
4,500.0	24.65	271.69	4,410.6	14.6	-497.5	-14.6	0.00	0.00	0.00
4,600.0	24.65	271.69	4,501.5	15.9	-539.2	-15.9	0.00	0.00	0.00
4,700.0	24.65	271.69	4,592.4	17.1	-580.9	-17.1	0.00	0.00	0.00
4,800.0	24.65	271.69	4,683.3	18.3	-622.6	-18.3	0.00	0.00	0.00
4,900.0	24.65	271.69	4,774.2	19.6	-664.3	-19.6	0.00	0.00	0.00
5,000.0	24.65	271.69	4,865.1	20.8	-705.9	-20.8	0.00	0.00	0.00

SandRidge Energy, Inc.

Survey Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well REU 0681 2-23H/35
Project:	North Park Basin	TVD Reference:	KB @ 8324.0usft
Site:	T6N-R81W-S23	MD Reference:	KB @ 8324.0usft
Well:	REU 0681 2-23H/35	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)
5,100.0	24.65	271.69	4,956.0	22.0	-747.6	-22.0	0.00	0.00	0.00
5,200.0	24.65	271.69	5,046.8	23.2	-789.3	-23.2	0.00	0.00	0.00
5,300.0	24.65	271.69	5,137.7	24.5	-831.0	-24.5	0.00	0.00	0.00
5,343.2	24.65	271.69	5,177.0	25.0	-849.0	-25.0	0.00	0.00	0.00
Start DLS 12.00 TFO -56.63									
5,350.0	25.11	270.08	5,183.2	25.0	-851.9	-25.0	12.00	6.73	-23.62
5,375.0	26.92	264.64	5,205.6	24.5	-862.8	-24.5	12.00	7.27	-21.78
5,400.0	28.93	259.86	5,227.7	22.9	-874.4	-22.9	12.00	8.01	-19.10
5,414.1	30.12	257.43	5,240.0	21.6	-881.2	-21.6	12.00	8.49	-17.22
Niobrara									
5,425.0	31.08	255.67	5,249.4	20.3	-886.6	-20.3	12.00	8.75	-16.14
5,450.0	33.35	251.99	5,270.5	16.5	-899.4	-16.5	12.00	9.08	-14.73
5,475.0	35.71	248.73	5,291.1	11.8	-912.7	-11.8	12.00	9.46	-13.03
5,500.0	38.16	245.84	5,311.1	6.0	-926.6	-6.0	12.00	9.78	-11.59
5,525.0	40.66	243.24	5,330.4	-0.9	-940.9	0.9	12.00	10.03	-10.38
5,550.0	43.22	240.90	5,349.0	-8.7	-955.7	8.7	12.00	10.24	-9.36
5,575.0	45.83	238.77	5,366.8	-17.5	-970.8	17.5	12.00	10.41	-8.51
5,600.0	48.47	236.83	5,383.9	-27.3	-986.3	27.3	12.00	10.56	-7.78
5,625.0	51.14	235.04	5,400.0	-38.0	-1,002.1	38.0	12.00	10.68	-7.17
5,650.0	53.83	233.37	5,415.2	-49.6	-1,018.2	49.6	12.00	10.78	-6.65
5,675.0	56.55	231.82	5,429.5	-62.1	-1,034.5	62.1	12.00	10.87	-6.20
5,700.0	59.28	230.37	5,442.8	-75.4	-1,051.0	75.4	12.00	10.94	-5.82
5,706.5	60.00	230.00	5,446.1	-79.0	-1,055.3	79.0	12.00	10.98	-5.61
Start 150.0 hold at 5706.5 MD									
5,800.0	60.00	230.00	5,492.8	-131.0	-1,117.3	131.0	0.00	0.00	0.00
5,856.5	60.00	230.00	5,521.1	-162.5	-1,154.8	162.5	0.00	0.00	0.00
Start DLS 12.00 TFO 0.00									
5,875.0	62.22	230.00	5,530.0	-172.9	-1,167.2	172.9	12.00	12.00	0.00
5,900.0	65.22	230.00	5,541.1	-187.3	-1,184.4	187.3	12.00	12.00	0.00
5,925.0	68.22	230.00	5,550.9	-202.0	-1,202.0	202.0	12.00	12.00	0.00
5,950.0	71.22	230.00	5,559.6	-217.1	-1,219.9	217.1	12.00	12.00	0.00
5,975.0	74.22	230.00	5,567.0	-232.4	-1,238.2	232.4	12.00	12.00	0.00
6,000.0	77.22	230.00	5,573.2	-248.0	-1,256.8	248.0	12.00	12.00	0.00
6,025.0	80.22	230.00	5,578.1	-263.8	-1,275.5	263.8	12.00	12.00	0.00
6,050.0	83.22	230.00	5,581.7	-279.7	-1,294.5	279.7	12.00	12.00	0.00
6,075.0	86.22	230.00	5,584.0	-295.7	-1,313.6	295.7	12.00	12.00	0.00
6,100.0	89.22	230.00	5,585.0	-311.7	-1,332.7	311.7	12.00	12.00	0.00
6,106.5	90.00	230.00	5,585.0	-315.9	-1,337.7	315.9	12.00	12.00	0.00
Start DLS 3.00 TFO -90.00									
6,200.0	90.00	227.20	5,585.0	-377.7	-1,407.8	377.7	3.00	0.00	-3.00
6,300.0	90.00	224.20	5,585.0	-447.6	-1,479.4	447.6	3.00	0.00	-3.00
6,400.0	90.00	221.20	5,585.0	-521.1	-1,547.2	521.1	3.00	0.00	-3.00
6,500.0	90.00	218.20	5,585.0	-598.0	-1,611.0	598.0	3.00	0.00	-3.00
6,600.0	90.00	215.20	5,585.0	-678.2	-1,670.8	678.2	3.00	0.00	-3.00

SandRidge Energy, Inc.

Survey Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well REU 0681 2-23H/35
Project:	North Park Basin	TVD Reference:	KB @ 8324.0usft
Site:	T6N-R81W-S23	MD Reference:	KB @ 8324.0usft
Well:	REU 0681 2-23H/35	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)
6,700.0	90.00	212.20	5,585.0	-761.3	-1,726.2	761.3	3.00	0.00	-3.00
6,800.0	90.00	209.20	5,585.0	-847.3	-1,777.3	847.3	3.00	0.00	-3.00
6,900.0	90.00	206.20	5,585.0	-935.9	-1,823.8	935.9	3.00	0.00	-3.00
7,000.0	90.00	203.20	5,585.0	-1,026.7	-1,865.5	1,026.7	3.00	0.00	-3.00
7,100.0	90.00	200.20	5,585.0	-1,119.6	-1,902.5	1,119.6	3.00	0.00	-3.00
7,200.0	90.00	197.20	5,585.0	-1,214.3	-1,934.5	1,214.3	3.00	0.00	-3.00
7,300.0	90.00	194.20	5,585.0	-1,310.6	-1,961.6	1,310.6	3.00	0.00	-3.00
7,400.0	90.00	191.20	5,585.0	-1,408.1	-1,983.6	1,408.1	3.00	0.00	-3.00
7,500.0	90.00	188.20	5,585.0	-1,506.7	-2,000.4	1,506.7	3.00	0.00	-3.00
7,600.0	90.00	185.20	5,585.0	-1,606.0	-2,012.1	1,606.0	3.00	0.00	-3.00
7,700.0	90.00	182.20	5,585.0	-1,705.8	-2,018.5	1,705.8	3.00	0.00	-3.00
7,773.3	90.00	180.00	5,585.0	-1,779.0	-2,019.9	1,779.0	3.00	0.00	-3.00
Start 12627.0 hold at 7773.3 MD									
7,800.0	90.00	180.00	5,585.0	-1,805.8	-2,019.9	1,805.8	0.00	0.00	0.00
7,900.0	90.00	180.00	5,585.0	-1,905.8	-2,019.9	1,905.8	0.00	0.00	0.00
8,000.0	90.00	180.00	5,585.0	-2,005.8	-2,019.9	2,005.8	0.00	0.00	0.00
8,100.0	90.00	180.00	5,585.0	-2,105.8	-2,019.9	2,105.8	0.00	0.00	0.00
8,200.0	90.00	180.00	5,585.0	-2,205.8	-2,019.9	2,205.8	0.00	0.00	0.00
8,300.0	90.00	180.00	5,585.0	-2,305.8	-2,019.9	2,305.8	0.00	0.00	0.00
8,400.0	90.00	180.00	5,585.0	-2,405.8	-2,019.9	2,405.8	0.00	0.00	0.00
8,500.0	90.00	180.00	5,585.0	-2,505.8	-2,019.9	2,505.8	0.00	0.00	0.00
8,600.0	90.00	180.00	5,585.0	-2,605.8	-2,019.9	2,605.8	0.00	0.00	0.00
8,700.0	90.00	180.00	5,585.0	-2,705.8	-2,019.9	2,705.8	0.00	0.00	0.00
8,800.0	90.00	180.00	5,585.0	-2,805.8	-2,019.9	2,805.8	0.00	0.00	0.00
8,900.0	90.00	180.00	5,585.0	-2,905.8	-2,019.9	2,905.8	0.00	0.00	0.00
9,000.0	90.00	180.00	5,585.0	-3,005.8	-2,019.9	3,005.8	0.00	0.00	0.00
9,100.0	90.00	180.00	5,585.0	-3,105.8	-2,019.9	3,105.8	0.00	0.00	0.00
9,200.0	90.00	180.00	5,585.0	-3,205.8	-2,019.9	3,205.8	0.00	0.00	0.00
9,300.0	90.00	180.00	5,585.0	-3,305.8	-2,019.9	3,305.8	0.00	0.00	0.00
9,400.0	90.00	180.00	5,585.0	-3,405.8	-2,019.9	3,405.8	0.00	0.00	0.00
9,500.0	90.00	180.00	5,585.0	-3,505.8	-2,019.9	3,505.8	0.00	0.00	0.00
9,600.0	90.00	180.00	5,585.0	-3,605.8	-2,019.9	3,605.8	0.00	0.00	0.00
9,700.0	90.00	180.00	5,585.0	-3,705.8	-2,019.8	3,705.8	0.00	0.00	0.00
9,800.0	90.00	180.00	5,585.0	-3,805.8	-2,019.8	3,805.8	0.00	0.00	0.00
9,900.0	90.00	180.00	5,585.0	-3,905.8	-2,019.8	3,905.8	0.00	0.00	0.00
10,000.0	90.00	180.00	5,585.0	-4,005.8	-2,019.8	4,005.8	0.00	0.00	0.00
10,100.0	90.00	180.00	5,585.0	-4,105.8	-2,019.8	4,105.8	0.00	0.00	0.00
10,200.0	90.00	180.00	5,585.0	-4,205.8	-2,019.8	4,205.8	0.00	0.00	0.00
10,300.0	90.00	180.00	5,585.0	-4,305.8	-2,019.8	4,305.8	0.00	0.00	0.00
10,400.0	90.00	180.00	5,585.0	-4,405.8	-2,019.8	4,405.8	0.00	0.00	0.00
10,500.0	90.00	180.00	5,585.0	-4,505.8	-2,019.8	4,505.8	0.00	0.00	0.00
10,600.0	90.00	180.00	5,585.0	-4,605.8	-2,019.8	4,605.8	0.00	0.00	0.00
10,700.0	90.00	180.00	5,585.0	-4,705.8	-2,019.8	4,705.8	0.00	0.00	0.00
10,800.0	90.00	180.00	5,585.0	-4,805.8	-2,019.8	4,805.8	0.00	0.00	0.00

SandRidge Energy, Inc.

Survey Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well REU 0681 2-23H/35
Project:	North Park Basin	TVD Reference:	KB @ 8324.0usft
Site:	T6N-R81W-S23	MD Reference:	KB @ 8324.0usft
Well:	REU 0681 2-23H/35	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)
10,900.0	90.00	180.00	5,585.0	-4,905.8	-2,019.8	4,905.8	0.00	0.00	0.00
11,000.0	90.00	180.00	5,585.0	-5,005.8	-2,019.8	5,005.8	0.00	0.00	0.00
11,100.0	90.00	180.00	5,585.0	-5,105.8	-2,019.8	5,105.8	0.00	0.00	0.00
11,200.0	90.00	180.00	5,585.0	-5,205.8	-2,019.8	5,205.8	0.00	0.00	0.00
11,300.0	90.00	180.00	5,585.0	-5,305.8	-2,019.8	5,305.8	0.00	0.00	0.00
11,400.0	90.00	180.00	5,585.0	-5,405.8	-2,019.8	5,405.8	0.00	0.00	0.00
11,500.0	90.00	180.00	5,585.0	-5,505.8	-2,019.8	5,505.8	0.00	0.00	0.00
11,600.0	90.00	180.00	5,585.0	-5,605.8	-2,019.8	5,605.8	0.00	0.00	0.00
11,700.0	90.00	180.00	5,585.0	-5,705.8	-2,019.8	5,705.8	0.00	0.00	0.00
11,800.0	90.00	180.00	5,585.0	-5,805.8	-2,019.8	5,805.8	0.00	0.00	0.00
11,900.0	90.00	180.00	5,585.0	-5,905.8	-2,019.8	5,905.8	0.00	0.00	0.00
12,000.0	90.00	180.00	5,585.0	-6,005.8	-2,019.8	6,005.8	0.00	0.00	0.00
12,100.0	90.00	180.00	5,585.0	-6,105.8	-2,019.8	6,105.8	0.00	0.00	0.00
12,200.0	90.00	180.00	5,585.0	-6,205.8	-2,019.7	6,205.8	0.00	0.00	0.00
12,300.0	90.00	180.00	5,585.0	-6,305.8	-2,019.7	6,305.8	0.00	0.00	0.00
12,400.0	90.00	180.00	5,585.0	-6,405.8	-2,019.7	6,405.8	0.00	0.00	0.00
12,500.0	90.00	180.00	5,585.0	-6,505.8	-2,019.7	6,505.8	0.00	0.00	0.00
12,600.0	90.00	180.00	5,585.0	-6,605.8	-2,019.7	6,605.8	0.00	0.00	0.00
12,700.0	90.00	180.00	5,585.0	-6,705.8	-2,019.7	6,705.8	0.00	0.00	0.00
12,800.0	90.00	180.00	5,585.0	-6,805.8	-2,019.7	6,805.8	0.00	0.00	0.00
12,900.0	90.00	180.00	5,585.0	-6,905.8	-2,019.7	6,905.8	0.00	0.00	0.00
13,000.0	90.00	180.00	5,585.0	-7,005.8	-2,019.7	7,005.8	0.00	0.00	0.00
13,100.0	90.00	180.00	5,585.0	-7,105.8	-2,019.7	7,105.8	0.00	0.00	0.00
13,200.0	90.00	180.00	5,585.0	-7,205.8	-2,019.7	7,205.8	0.00	0.00	0.00
13,300.0	90.00	180.00	5,585.0	-7,305.8	-2,019.7	7,305.8	0.00	0.00	0.00
13,400.0	90.00	180.00	5,585.0	-7,405.8	-2,019.7	7,405.8	0.00	0.00	0.00
13,500.0	90.00	180.00	5,585.0	-7,505.8	-2,019.7	7,505.8	0.00	0.00	0.00
13,600.0	90.00	180.00	5,585.0	-7,605.8	-2,019.7	7,605.8	0.00	0.00	0.00
13,700.0	90.00	180.00	5,585.0	-7,705.8	-2,019.7	7,705.8	0.00	0.00	0.00
13,800.0	90.00	180.00	5,585.0	-7,805.8	-2,019.7	7,805.8	0.00	0.00	0.00
13,900.0	90.00	180.00	5,585.0	-7,905.8	-2,019.7	7,905.8	0.00	0.00	0.00
14,000.0	90.00	180.00	5,585.0	-8,005.8	-2,019.7	8,005.8	0.00	0.00	0.00
14,100.0	90.00	180.00	5,585.0	-8,105.8	-2,019.7	8,105.8	0.00	0.00	0.00
14,200.0	90.00	180.00	5,585.0	-8,205.8	-2,019.7	8,205.8	0.00	0.00	0.00
14,300.0	90.00	180.00	5,585.0	-8,305.8	-2,019.7	8,305.8	0.00	0.00	0.00
14,400.0	90.00	180.00	5,585.0	-8,405.8	-2,019.7	8,405.8	0.00	0.00	0.00
14,500.0	90.00	180.00	5,585.0	-8,505.8	-2,019.7	8,505.8	0.00	0.00	0.00
14,600.0	90.00	180.00	5,585.0	-8,605.8	-2,019.7	8,605.8	0.00	0.00	0.00
14,700.0	90.00	180.00	5,585.0	-8,705.8	-2,019.6	8,705.8	0.00	0.00	0.00
14,800.0	90.00	180.00	5,585.0	-8,805.8	-2,019.6	8,805.8	0.00	0.00	0.00
14,900.0	90.00	180.00	5,585.0	-8,905.8	-2,019.6	8,905.8	0.00	0.00	0.00
15,000.0	90.00	180.00	5,585.0	-9,005.8	-2,019.6	9,005.8	0.00	0.00	0.00
15,100.0	90.00	180.00	5,585.0	-9,105.8	-2,019.6	9,105.8	0.00	0.00	0.00

SandRidge Energy, Inc.

Survey Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well REU 0681 2-23H/35
Project:	North Park Basin	TVD Reference:	KB @ 8324.0usft
Site:	T6N-R81W-S23	MD Reference:	KB @ 8324.0usft
Well:	REU 0681 2-23H/35	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)
15,200.0	90.00	180.00	5,585.0	-9,205.8	-2,019.6	9,205.8	0.00	0.00	0.00
15,300.0	90.00	180.00	5,585.0	-9,305.8	-2,019.6	9,305.8	0.00	0.00	0.00
15,400.0	90.00	180.00	5,585.0	-9,405.8	-2,019.6	9,405.8	0.00	0.00	0.00
15,500.0	90.00	180.00	5,585.0	-9,505.8	-2,019.6	9,505.8	0.00	0.00	0.00
15,600.0	90.00	180.00	5,585.0	-9,605.8	-2,019.6	9,605.8	0.00	0.00	0.00
15,700.0	90.00	180.00	5,585.0	-9,705.8	-2,019.6	9,705.8	0.00	0.00	0.00
15,800.0	90.00	180.00	5,585.0	-9,805.8	-2,019.6	9,805.8	0.00	0.00	0.00
15,900.0	90.00	180.00	5,585.0	-9,905.8	-2,019.6	9,905.8	0.00	0.00	0.00
16,000.0	90.00	180.00	5,585.0	-10,005.8	-2,019.6	10,005.8	0.00	0.00	0.00
16,100.0	90.00	180.00	5,585.0	-10,105.8	-2,019.6	10,105.8	0.00	0.00	0.00
16,200.0	90.00	180.00	5,585.0	-10,205.8	-2,019.6	10,205.8	0.00	0.00	0.00
16,300.0	90.00	180.00	5,585.0	-10,305.8	-2,019.6	10,305.8	0.00	0.00	0.00
16,400.0	90.00	180.00	5,585.0	-10,405.8	-2,019.6	10,405.8	0.00	0.00	0.00
16,500.0	90.00	180.00	5,585.0	-10,505.8	-2,019.6	10,505.8	0.00	0.00	0.00
16,600.0	90.00	180.00	5,585.0	-10,605.8	-2,019.6	10,605.8	0.00	0.00	0.00
16,700.0	90.00	180.00	5,585.0	-10,705.8	-2,019.6	10,705.8	0.00	0.00	0.00
16,800.0	90.00	180.00	5,585.0	-10,805.8	-2,019.6	10,805.8	0.00	0.00	0.00
16,900.0	90.00	180.00	5,585.0	-10,905.8	-2,019.6	10,905.8	0.00	0.00	0.00
17,000.0	90.00	180.00	5,585.0	-11,005.8	-2,019.6	11,005.8	0.00	0.00	0.00
17,100.0	90.00	180.00	5,585.0	-11,105.8	-2,019.6	11,105.8	0.00	0.00	0.00
17,200.0	90.00	180.00	5,585.0	-11,205.8	-2,019.5	11,205.8	0.00	0.00	0.00
17,300.0	90.00	180.00	5,585.0	-11,305.8	-2,019.5	11,305.8	0.00	0.00	0.00
17,400.0	90.00	180.00	5,585.0	-11,405.8	-2,019.5	11,405.8	0.00	0.00	0.00
17,500.0	90.00	180.00	5,585.0	-11,505.8	-2,019.5	11,505.8	0.00	0.00	0.00
17,600.0	90.00	180.00	5,585.0	-11,605.8	-2,019.5	11,605.8	0.00	0.00	0.00
17,700.0	90.00	180.00	5,585.0	-11,705.8	-2,019.5	11,705.8	0.00	0.00	0.00
17,800.0	90.00	180.00	5,585.0	-11,805.8	-2,019.5	11,805.8	0.00	0.00	0.00
17,900.0	90.00	180.00	5,585.0	-11,905.8	-2,019.5	11,905.8	0.00	0.00	0.00
18,000.0	90.00	180.00	5,585.0	-12,005.8	-2,019.5	12,005.8	0.00	0.00	0.00
18,100.0	90.00	180.00	5,585.0	-12,105.8	-2,019.5	12,105.8	0.00	0.00	0.00
18,200.0	90.00	180.00	5,585.0	-12,205.8	-2,019.5	12,205.8	0.00	0.00	0.00
18,300.0	90.00	180.00	5,585.0	-12,305.8	-2,019.5	12,305.8	0.00	0.00	0.00
18,400.0	90.00	180.00	5,585.0	-12,405.8	-2,019.5	12,405.8	0.00	0.00	0.00
18,500.0	90.00	180.00	5,585.0	-12,505.8	-2,019.5	12,505.8	0.00	0.00	0.00
18,600.0	90.00	180.00	5,585.0	-12,605.8	-2,019.5	12,605.8	0.00	0.00	0.00
18,700.0	90.00	180.00	5,585.0	-12,705.8	-2,019.5	12,705.8	0.00	0.00	0.00
18,800.0	90.00	180.00	5,585.0	-12,805.8	-2,019.5	12,805.8	0.00	0.00	0.00
18,900.0	90.00	180.00	5,585.0	-12,905.8	-2,019.5	12,905.8	0.00	0.00	0.00
19,000.0	90.00	180.00	5,585.0	-13,005.8	-2,019.5	13,005.8	0.00	0.00	0.00
19,100.0	90.00	180.00	5,585.0	-13,105.8	-2,019.5	13,105.8	0.00	0.00	0.00
19,200.0	90.00	180.00	5,585.0	-13,205.8	-2,019.5	13,205.8	0.00	0.00	0.00
19,300.0	90.00	180.00	5,585.0	-13,305.8	-2,019.5	13,305.8	0.00	0.00	0.00
19,400.0	90.00	180.00	5,585.0	-13,405.8	-2,019.5	13,405.8	0.00	0.00	0.00

SandRidge Energy, Inc.

Survey Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well REU 0681 2-23H/35
Project:	North Park Basin	TVD Reference:	KB @ 8324.0usft
Site:	T6N-R81W-S23	MD Reference:	KB @ 8324.0usft
Well:	REU 0681 2-23H/35	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)
19,500.0	90.00	180.00	5,585.0	-13,505.8	-2,019.5	13,505.8	0.00	0.00	0.00
19,600.0	90.00	180.00	5,585.0	-13,605.8	-2,019.5	13,605.8	0.00	0.00	0.00
19,700.0	90.00	180.00	5,585.0	-13,705.8	-2,019.4	13,705.8	0.00	0.00	0.00
19,800.0	90.00	180.00	5,585.0	-13,805.8	-2,019.4	13,805.8	0.00	0.00	0.00
19,900.0	90.00	180.00	5,585.0	-13,905.8	-2,019.4	13,905.8	0.00	0.00	0.00
20,000.0	90.00	180.00	5,585.0	-14,005.8	-2,019.4	14,005.8	0.00	0.00	0.00
20,100.0	90.00	180.00	5,585.0	-14,105.8	-2,019.4	14,105.8	0.00	0.00	0.00
20,200.0	90.00	180.00	5,585.0	-14,205.8	-2,019.4	14,205.8	0.00	0.00	0.00
20,300.0	90.00	180.00	5,585.0	-14,305.8	-2,019.4	14,305.8	0.00	0.00	0.00
20,400.3	90.00	180.00	5,585.0	-14,406.1	-2,019.4	14,406.1	0.00	0.00	0.00
TD at 20400.3									

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									
Rabbit Ears 2	0.00	360.00	5,585.0	-14,406.1	-2,019.4	1,403,677.90	2,732,501.10	40° 26' 15.067 N	106° 27' 39.649 W
- plan hits target center									
- Point									

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
5,414.1	5,240.0	Niobrara		0.00	

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2700	2700	0	0	Start Build 2.00
3932	3895	8	-261	Start 1410.8 hold at 3932.4 MD
5343	5177	25	-849	Start DLS 12.00 TFO -56.63
5707	5446	-79	-1055	Start 150.0 hold at 5706.5 MD
5857	5521	-162	-1155	Start DLS 12.00 TFO 0.00
6107	5585	-316	-1338	Start DLS 3.00 TFO -90.00
7773	5585	-1779	-2020	Start 12627.0 hold at 7773.3 MD
20,400	5585	-14,406	-2019	TD at 20400.3

Checked By: _____ Approved By: _____ Date: _____

SandRidge Energy

**North Park Basin
T6N-R81W-S23
REU 0681 2-23H/35**

Wellbore #1

Plan: Design #1

Survey Report - Geographic

22 March, 2017

SandRidge Energy, Inc.

Survey Report - Geographic

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well REU 0681 2-23H/35
Project:	North Park Basin	TVD Reference:	KB @ 8324.0usft
Site:	T6N-R81W-S23	MD Reference:	KB @ 8324.0usft
Well:	REU 0681 2-23H/35	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDMPProd

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	T6N-R81W-S23					
Site Position:		Northing:	1,418,032.39 usft	Latitude:	40° 28' 37.133 N	
From:	Map	Easting:	2,734,606.19 usft	Longitude:	106° 27' 14.423 W	
Position Uncertainty:		0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.62 °

Well	REU 0681 2-23H/35					
Well Position	+N-S	0.0 usft	Northing:	1,418,083.97 usft	Latitude:	40° 28' 37.634 N
	+E-W	0.0 usft	Easting:	2,734,520.52 usft	Longitude:	106° 27' 15.539 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	8,308.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	9.91	66.88	53,125

Design	Design #1				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	180.00	

Survey Tool Program	Date	3/22/2017			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	20,400.2	Design #1 (Wellbore #1)	Sperry MWD	Fixed:v2:standard declination	

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
0.0	0.00	0.00	0.0	0.0	0.0	1,418,083.97	2,734,520.52	40° 28' 37.634 N	106° 27' 15.539 W	
100.0	0.00	0.00	100.0	0.0	0.0	1,418,083.97	2,734,520.52	40° 28' 37.634 N	106° 27' 15.539 W	
200.0	0.00	0.00	200.0	0.0	0.0	1,418,083.97	2,734,520.52	40° 28' 37.634 N	106° 27' 15.539 W	
300.0	0.00	0.00	300.0	0.0	0.0	1,418,083.97	2,734,520.52	40° 28' 37.634 N	106° 27' 15.539 W	
400.0	0.00	0.00	400.0	0.0	0.0	1,418,083.97	2,734,520.52	40° 28' 37.634 N	106° 27' 15.539 W	
500.0	0.00	0.00	500.0	0.0	0.0	1,418,083.97	2,734,520.52	40° 28' 37.634 N	106° 27' 15.539 W	
600.0	0.00	0.00	600.0	0.0	0.0	1,418,083.97	2,734,520.52	40° 28' 37.634 N	106° 27' 15.539 W	
700.0	0.00	0.00	700.0	0.0	0.0	1,418,083.97	2,734,520.52	40° 28' 37.634 N	106° 27' 15.539 W	
800.0	0.00	0.00	800.0	0.0	0.0	1,418,083.97	2,734,520.52	40° 28' 37.634 N	106° 27' 15.539 W	
900.0	0.00	0.00	900.0	0.0	0.0	1,418,083.97	2,734,520.52	40° 28' 37.634 N	106° 27' 15.539 W	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	1,418,083.97	2,734,520.52	40° 28' 37.634 N	106° 27' 15.539 W	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	1,418,083.97	2,734,520.52	40° 28' 37.634 N	106° 27' 15.539 W	

SandRidge Energy, Inc.

Survey Report - Geographic

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well REU 0681 2-23H/35
Project:	North Park Basin	TVD Reference:	KB @ 8324.0usft
Site:	T6N-R81W-S23	MD Reference:	KB @ 8324.0usft
Well:	REU 0681 2-23H/35	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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,200.0	0.00	0.00	1,200.0	0.0	0.0	1,418,083.97	2,734,520.52	40° 28' 37.634 N	106° 27' 15.539 W
1,300.0	0.00	0.00	1,300.0	0.0	0.0	1,418,083.97	2,734,520.52	40° 28' 37.634 N	106° 27' 15.539 W
1,400.0	0.00	0.00	1,400.0	0.0	0.0	1,418,083.97	2,734,520.52	40° 28' 37.634 N	106° 27' 15.539 W
1,500.0	0.00	0.00	1,500.0	0.0	0.0	1,418,083.97	2,734,520.52	40° 28' 37.634 N	106° 27' 15.539 W
1,600.0	0.00	0.00	1,600.0	0.0	0.0	1,418,083.97	2,734,520.52	40° 28' 37.634 N	106° 27' 15.539 W
1,700.0	0.00	0.00	1,700.0	0.0	0.0	1,418,083.97	2,734,520.52	40° 28' 37.634 N	106° 27' 15.539 W
1,800.0	0.00	0.00	1,800.0	0.0	0.0	1,418,083.97	2,734,520.52	40° 28' 37.634 N	106° 27' 15.539 W
1,900.0	0.00	0.00	1,900.0	0.0	0.0	1,418,083.97	2,734,520.52	40° 28' 37.634 N	106° 27' 15.539 W
2,000.0	0.00	0.00	2,000.0	0.0	0.0	1,418,083.97	2,734,520.52	40° 28' 37.634 N	106° 27' 15.539 W
2,100.0	0.00	0.00	2,100.0	0.0	0.0	1,418,083.97	2,734,520.52	40° 28' 37.634 N	106° 27' 15.539 W
2,200.0	0.00	0.00	2,200.0	0.0	0.0	1,418,083.97	2,734,520.52	40° 28' 37.634 N	106° 27' 15.539 W
2,300.0	0.00	0.00	2,300.0	0.0	0.0	1,418,083.97	2,734,520.52	40° 28' 37.634 N	106° 27' 15.539 W
2,400.0	0.00	0.00	2,400.0	0.0	0.0	1,418,083.97	2,734,520.52	40° 28' 37.634 N	106° 27' 15.539 W
2,500.0	0.00	0.00	2,500.0	0.0	0.0	1,418,083.97	2,734,520.52	40° 28' 37.634 N	106° 27' 15.539 W
2,600.0	0.00	0.00	2,600.0	0.0	0.0	1,418,083.97	2,734,520.52	40° 28' 37.634 N	106° 27' 15.539 W
2,700.0	0.00	0.00	2,700.0	0.0	0.0	1,418,083.97	2,734,520.52	40° 28' 37.634 N	106° 27' 15.539 W
Start Build 2.00									
2,800.0	2.00	271.69	2,800.0	0.1	-1.7	1,418,084.02	2,734,518.78	40° 28' 37.634 N	106° 27' 15.561 W
2,900.0	4.00	271.69	2,899.8	0.2	-7.0	1,418,084.18	2,734,513.55	40° 28' 37.635 N	106° 27' 15.629 W
3,000.0	6.00	271.69	2,999.5	0.5	-15.7	1,418,084.43	2,734,504.83	40° 28' 37.637 N	106° 27' 15.742 W
3,100.0	8.00	271.69	3,098.7	0.8	-27.9	1,418,084.79	2,734,492.65	40° 28' 37.639 N	106° 27' 15.899 W
3,200.0	10.00	271.69	3,197.5	1.3	-43.5	1,418,085.25	2,734,477.02	40° 28' 37.642 N	106° 27' 16.102 W
3,300.0	12.00	271.69	3,295.6	1.8	-62.6	1,418,085.81	2,734,457.95	40° 28' 37.646 N	106° 27' 16.349 W
3,400.0	14.00	271.69	3,393.1	2.5	-85.1	1,418,086.48	2,734,435.46	40° 28' 37.650 N	106° 27' 16.640 W
3,500.0	16.00	271.69	3,489.6	3.3	-110.9	1,418,087.24	2,734,409.59	40° 28' 37.654 N	106° 27' 16.974 W
3,600.0	18.00	271.69	3,585.3	4.1	-140.2	1,418,088.10	2,734,380.37	40° 28' 37.660 N	106° 27' 17.353 W
3,700.0	20.00	271.69	3,679.8	5.1	-172.7	1,418,089.06	2,734,347.83	40° 28' 37.666 N	106° 27' 17.774 W
3,800.0	22.00	271.69	3,773.2	6.1	-208.5	1,418,090.11	2,734,312.01	40° 28' 37.672 N	106° 27' 18.238 W
3,900.0	24.00	271.69	3,865.2	7.3	-247.6	1,418,091.26	2,734,272.95	40° 28' 37.680 N	106° 27' 18.743 W
3,932.4	24.65	271.69	3,894.7	7.7	-260.9	1,418,091.65	2,734,259.63	40° 28' 37.682 N	106° 27' 18.916 W
Start 1410.8 hold at 3932.4 MD									
4,000.0	24.65	271.69	3,956.2	8.5	-289.1	1,418,092.48	2,734,231.44	40° 28' 37.687 N	106° 27' 19.280 W
4,100.0	24.65	271.69	4,047.1	9.7	-330.8	1,418,093.71	2,734,189.75	40° 28' 37.695 N	106° 27' 19.820 W
4,200.0	24.65	271.69	4,138.0	11.0	-372.5	1,418,094.94	2,734,148.07	40° 28' 37.703 N	106° 27' 20.360 W
4,300.0	24.65	271.69	4,228.8	12.2	-414.1	1,418,096.17	2,734,106.38	40° 28' 37.710 N	106° 27' 20.899 W
4,400.0	24.65	271.69	4,319.7	13.4	-455.8	1,418,097.39	2,734,064.69	40° 28' 37.718 N	106° 27' 21.439 W
4,500.0	24.65	271.69	4,410.6	14.6	-497.5	1,418,098.62	2,734,023.01	40° 28' 37.726 N	106° 27' 21.978 W
4,600.0	24.65	271.69	4,501.5	15.9	-539.2	1,418,099.85	2,733,981.32	40° 28' 37.733 N	106° 27' 22.518 W
4,700.0	24.65	271.69	4,592.4	17.1	-580.9	1,418,101.08	2,733,939.64	40° 28' 37.741 N	106° 27' 23.057 W
4,800.0	24.65	271.69	4,683.3	18.3	-622.6	1,418,102.30	2,733,897.95	40° 28' 37.749 N	106° 27' 23.597 W
4,900.0	24.65	271.69	4,774.2	19.6	-664.3	1,418,103.53	2,733,856.27	40° 28' 37.756 N	106° 27' 24.137 W
5,000.0	24.65	271.69	4,865.1	20.8	-705.9	1,418,104.76	2,733,814.58	40° 28' 37.764 N	106° 27' 24.676 W
5,100.0	24.65	271.69	4,956.0	22.0	-747.6	1,418,105.99	2,733,772.90	40° 28' 37.772 N	106° 27' 25.216 W
5,200.0	24.65	271.69	5,046.8	23.2	-789.3	1,418,107.21	2,733,731.21	40° 28' 37.780 N	106° 27' 25.755 W
5,300.0	24.65	271.69	5,137.7	24.5	-831.0	1,418,108.44	2,733,689.53	40° 28' 37.787 N	106° 27' 26.295 W
5,343.2	24.65	271.69	5,177.0	25.0	-849.0	1,418,108.97	2,733,671.52	40° 28' 37.791 N	106° 27' 26.528 W
Start DLS 12.00 TFO -56.63									
5,350.0	25.11	270.08	5,183.2	25.0	-851.9	1,418,109.02	2,733,668.66	40° 28' 37.791 N	106° 27' 26.565 W
5,375.0	26.92	264.64	5,205.6	24.5	-862.8	1,418,108.49	2,733,657.72	40° 28' 37.784 N	106° 27' 26.707 W
5,400.0	28.93	259.86	5,227.7	22.9	-874.4	1,418,106.90	2,733,646.13	40° 28' 37.767 N	106° 27' 26.856 W
5,414.1	30.12	257.43	5,240.0	21.6	-881.2	1,418,105.53	2,733,639.32	40° 28' 37.753 N	106° 27' 26.944 W
Niobrara									
5,425.0	31.08	255.67	5,249.4	20.3	-886.6	1,418,104.24	2,733,633.92	40° 28' 37.740 N	106° 27' 27.014 W
5,450.0	33.35	251.99	5,270.5	16.5	-899.4	1,418,100.52	2,733,621.13	40° 28' 37.702 N	106° 27' 27.179 W

SandRidge Energy, Inc.

Survey Report - Geographic

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well REU 0681 2-23H/35
Project:	North Park Basin	TVD Reference:	KB @ 8324.0usft
Site:	T6N-R81W-S23	MD Reference:	KB @ 8324.0usft
Well:	REU 0681 2-23H/35	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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,475.0	35.71	248.73	5,291.1	11.8	-912.7	1,418,095.74	2,733,607.80	40° 28' 37.653 N	106° 27' 27.351 W
5,500.0	38.16	245.84	5,311.1	6.0	-926.6	1,418,089.94	2,733,593.95	40° 28' 37.594 N	106° 27' 27.529 W
5,525.0	40.66	243.24	5,330.4	-0.9	-940.9	1,418,083.11	2,733,579.63	40° 28' 37.525 N	106° 27' 27.713 W
5,550.0	43.22	240.90	5,349.0	-8.7	-955.7	1,418,075.27	2,733,564.87	40° 28' 37.446 N	106° 27' 27.903 W
5,575.0	45.83	238.77	5,366.8	-17.5	-970.8	1,418,066.46	2,733,549.72	40° 28' 37.357 N	106° 27' 28.098 W
5,600.0	48.47	236.83	5,383.9	-27.3	-986.3	1,418,056.69	2,733,534.22	40° 28' 37.259 N	106° 27' 28.297 W
5,625.0	51.14	235.04	5,400.0	-38.0	-1,002.1	1,418,045.99	2,733,518.41	40° 28' 37.152 N	106° 27' 28.500 W
5,650.0	53.83	233.37	5,415.2	-49.6	-1,018.2	1,418,034.39	2,733,502.33	40° 28' 37.036 N	106° 27' 28.707 W
5,675.0	56.55	231.82	5,429.5	-62.1	-1,034.5	1,418,021.92	2,733,486.03	40° 28' 36.911 N	106° 27' 28.916 W
5,700.0	59.28	230.37	5,442.8	-75.4	-1,051.0	1,418,008.62	2,733,469.55	40° 28' 36.777 N	106° 27' 29.127 W
5,706.5	60.00	230.00	5,446.1	-79.0	-1,055.3	1,418,005.00	2,733,465.21	40° 28' 36.741 N	106° 27' 29.183 W
Start 150.0 hold at 5706.5 MD									
5,800.0	60.00	230.00	5,492.8	-131.0	-1,117.3	1,417,952.98	2,733,403.21	40° 28' 36.220 N	106° 27' 29.978 W
5,856.5	60.00	230.00	5,521.1	-162.5	-1,154.8	1,417,921.50	2,733,365.70	40° 28' 35.905 N	106° 27' 30.459 W
Start DLS 12.00 TFO 0.00									
5,875.0	62.22	230.00	5,530.0	-172.9	-1,167.2	1,417,911.12	2,733,353.32	40° 28' 35.802 N	106° 27' 30.618 W
5,900.0	65.22	230.00	5,541.1	-187.3	-1,184.4	1,417,896.71	2,733,336.15	40° 28' 35.657 N	106° 27' 30.838 W
5,925.0	68.22	230.00	5,550.9	-202.0	-1,202.0	1,417,881.95	2,733,318.56	40° 28' 35.510 N	106° 27' 31.063 W
5,950.0	71.22	230.00	5,559.6	-217.1	-1,219.9	1,417,866.88	2,733,300.60	40° 28' 35.359 N	106° 27' 31.294 W
5,975.0	74.22	230.00	5,567.0	-232.4	-1,238.2	1,417,851.54	2,733,282.32	40° 28' 35.205 N	106° 27' 31.528 W
6,000.0	77.22	230.00	5,573.2	-248.0	-1,256.8	1,417,835.97	2,733,263.76	40° 28' 35.049 N	106° 27' 31.766 W
6,025.0	80.22	230.00	5,578.1	-263.8	-1,275.5	1,417,820.21	2,733,244.98	40° 28' 34.892 N	106° 27' 32.007 W
6,050.0	83.22	230.00	5,581.7	-279.7	-1,294.5	1,417,804.31	2,733,226.03	40° 28' 34.733 N	106° 27' 32.250 W
6,075.0	86.22	230.00	5,584.0	-295.7	-1,313.6	1,417,788.31	2,733,206.97	40° 28' 34.572 N	106° 27' 32.494 W
6,100.0	89.22	230.00	5,585.0	-311.7	-1,332.7	1,417,772.25	2,733,187.83	40° 28' 34.412 N	106° 27' 32.740 W
6,106.5	90.00	230.00	5,585.0	-315.9	-1,337.7	1,417,768.05	2,733,182.82	40° 28' 34.370 N	106° 27' 32.804 W
Start DLS 3.00 TFO -90.00									
6,200.0	90.00	227.20	5,585.0	-377.7	-1,407.8	1,417,706.25	2,733,112.73	40° 28' 33.751 N	106° 27' 33.702 W
6,300.0	90.00	224.20	5,585.0	-447.6	-1,479.4	1,417,636.41	2,733,041.17	40° 28' 33.054 N	106° 27' 34.619 W
6,400.0	90.00	221.20	5,585.0	-521.1	-1,547.2	1,417,562.92	2,732,973.37	40° 28' 32.320 N	106° 27' 35.486 W
6,500.0	90.00	218.20	5,585.0	-598.0	-1,611.0	1,417,485.99	2,732,909.50	40° 28' 31.553 N	106° 27' 36.301 W
6,600.0	90.00	215.20	5,585.0	-678.2	-1,670.8	1,417,405.81	2,732,849.75	40° 28' 30.755 N	106° 27' 37.063 W
6,700.0	90.00	212.20	5,585.0	-761.3	-1,726.2	1,417,322.62	2,732,794.28	40° 28' 29.927 N	106° 27' 37.769 W
6,800.0	90.00	209.20	5,585.0	-847.3	-1,777.3	1,417,236.65	2,732,743.24	40° 28' 29.072 N	106° 27' 38.418 W
6,900.0	90.00	206.20	5,585.0	-935.9	-1,823.8	1,417,148.11	2,732,696.76	40° 28' 28.192 N	106° 27' 39.007 W
7,000.0	90.00	203.20	5,585.0	-1,026.7	-1,865.5	1,417,057.27	2,732,654.99	40° 28' 27.290 N	106° 27' 39.534 W
7,100.0	90.00	200.20	5,585.0	-1,119.6	-1,902.5	1,416,964.36	2,732,618.02	40° 28' 26.368 N	106° 27' 40.000 W
7,200.0	90.00	197.20	5,585.0	-1,214.3	-1,934.5	1,416,869.65	2,732,585.97	40° 28' 25.428 N	106° 27' 40.401 W
7,300.0	90.00	194.20	5,585.0	-1,310.6	-1,961.6	1,416,773.39	2,732,558.92	40° 28' 24.474 N	106° 27' 40.738 W
7,400.0	90.00	191.20	5,585.0	-1,408.1	-1,983.6	1,416,675.85	2,732,536.95	40° 28' 23.508 N	106° 27' 41.008 W
7,500.0	90.00	188.20	5,585.0	-1,506.7	-2,000.4	1,416,577.29	2,732,520.11	40° 28' 22.532 N	106° 27' 41.212 W
7,600.0	90.00	185.20	5,585.0	-1,606.0	-2,012.1	1,416,477.98	2,732,508.45	40° 28' 21.550 N	106° 27' 41.349 W
7,700.0	90.00	182.20	5,585.0	-1,705.8	-2,018.5	1,416,378.20	2,732,502.00	40° 28' 20.563 N	106° 27' 41.419 W
7,773.3	90.00	180.00	5,585.0	-1,779.0	-2,019.9	1,416,304.94	2,732,500.60	40° 28' 19.839 N	106° 27' 41.426 W
Start 12627.0 hold at 7773.3 MD									
7,800.0	90.00	180.00	5,585.0	-1,805.8	-2,019.9	1,416,278.22	2,732,500.60	40° 28' 19.575 N	106° 27' 41.423 W
7,900.0	90.00	180.00	5,585.0	-1,905.8	-2,019.9	1,416,178.22	2,732,500.60	40° 28' 18.587 N	106° 27' 41.409 W
8,000.0	90.00	180.00	5,585.0	-2,005.8	-2,019.9	1,416,078.22	2,732,500.61	40° 28' 17.599 N	106° 27' 41.395 W
8,100.0	90.00	180.00	5,585.0	-2,105.8	-2,019.9	1,415,978.22	2,732,500.61	40° 28' 16.611 N	106° 27' 41.380 W
8,200.0	90.00	180.00	5,585.0	-2,205.8	-2,019.9	1,415,878.22	2,732,500.61	40° 28' 15.623 N	106° 27' 41.366 W
8,300.0	90.00	180.00	5,585.0	-2,305.8	-2,019.9	1,415,778.22	2,732,500.62	40° 28' 14.634 N	106° 27' 41.352 W
8,400.0	90.00	180.00	5,585.0	-2,405.8	-2,019.9	1,415,678.22	2,732,500.62	40° 28' 13.646 N	106° 27' 41.338 W
8,500.0	90.00	180.00	5,585.0	-2,505.8	-2,019.9	1,415,578.22	2,732,500.63	40° 28' 12.658 N	106° 27' 41.324 W
8,600.0	90.00	180.00	5,585.0	-2,605.8	-2,019.9	1,415,478.22	2,732,500.63	40° 28' 11.670 N	106° 27' 41.310 W

SandRidge Energy, Inc.

Survey Report - Geographic

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well REU 0681 2-23H/35
Project:	North Park Basin	TVD Reference:	KB @ 8324.0usft
Site:	T6N-R81W-S23	MD Reference:	KB @ 8324.0usft
Well:	REU 0681 2-23H/35	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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
8,700.0	90.00	180.00	5,585.0	-2,705.8	-2,019.9	1,415,378.22	2,732,500.63	40° 28' 10.682 N	106° 27' 41.296 W
8,800.0	90.00	180.00	5,585.0	-2,805.8	-2,019.9	1,415,278.22	2,732,500.64	40° 28' 9.694 N	106° 27' 41.282 W
8,900.0	90.00	180.00	5,585.0	-2,905.8	-2,019.9	1,415,178.22	2,732,500.64	40° 28' 8.706 N	106° 27' 41.268 W
9,000.0	90.00	180.00	5,585.0	-3,005.8	-2,019.9	1,415,078.22	2,732,500.65	40° 28' 7.718 N	106° 27' 41.254 W
9,100.0	90.00	180.00	5,585.0	-3,105.8	-2,019.9	1,414,978.22	2,732,500.65	40° 28' 6.729 N	106° 27' 41.240 W
9,200.0	90.00	180.00	5,585.0	-3,205.8	-2,019.9	1,414,878.22	2,732,500.65	40° 28' 5.741 N	106° 27' 41.226 W
9,300.0	90.00	180.00	5,585.0	-3,305.8	-2,019.9	1,414,778.22	2,732,500.66	40° 28' 4.753 N	106° 27' 41.212 W
9,400.0	90.00	180.00	5,585.0	-3,405.8	-2,019.9	1,414,678.22	2,732,500.66	40° 28' 3.765 N	106° 27' 41.197 W
9,500.0	90.00	180.00	5,585.0	-3,505.8	-2,019.9	1,414,578.22	2,732,500.67	40° 28' 2.777 N	106° 27' 41.183 W
9,600.0	90.00	180.00	5,585.0	-3,605.8	-2,019.9	1,414,478.22	2,732,500.67	40° 28' 1.789 N	106° 27' 41.169 W
9,700.0	90.00	180.00	5,585.0	-3,705.8	-2,019.8	1,414,378.22	2,732,500.67	40° 28' 0.801 N	106° 27' 41.155 W
9,800.0	90.00	180.00	5,585.0	-3,805.8	-2,019.8	1,414,278.22	2,732,500.68	40° 27' 59.813 N	106° 27' 41.141 W
9,900.0	90.00	180.00	5,585.0	-3,905.8	-2,019.8	1,414,178.22	2,732,500.68	40° 27' 58.824 N	106° 27' 41.127 W
10,000.0	90.00	180.00	5,585.0	-4,005.8	-2,019.8	1,414,078.22	2,732,500.69	40° 27' 57.836 N	106° 27' 41.113 W
10,100.0	90.00	180.00	5,585.0	-4,105.8	-2,019.8	1,413,978.22	2,732,500.69	40° 27' 56.848 N	106° 27' 41.099 W
10,200.0	90.00	180.00	5,585.0	-4,205.8	-2,019.8	1,413,878.22	2,732,500.69	40° 27' 55.860 N	106° 27' 41.085 W
10,300.0	90.00	180.00	5,585.0	-4,305.8	-2,019.8	1,413,778.22	2,732,500.70	40° 27' 54.872 N	106° 27' 41.071 W
10,400.0	90.00	180.00	5,585.0	-4,405.8	-2,019.8	1,413,678.22	2,732,500.70	40° 27' 53.884 N	106° 27' 41.057 W
10,500.0	90.00	180.00	5,585.0	-4,505.8	-2,019.8	1,413,578.22	2,732,500.71	40° 27' 52.896 N	106° 27' 41.043 W
10,600.0	90.00	180.00	5,585.0	-4,605.8	-2,019.8	1,413,478.22	2,732,500.71	40° 27' 51.907 N	106° 27' 41.028 W
10,700.0	90.00	180.00	5,585.0	-4,705.8	-2,019.8	1,413,378.22	2,732,500.71	40° 27' 50.919 N	106° 27' 41.014 W
10,800.0	90.00	180.00	5,585.0	-4,805.8	-2,019.8	1,413,278.22	2,732,500.72	40° 27' 49.931 N	106° 27' 41.000 W
10,900.0	90.00	180.00	5,585.0	-4,905.8	-2,019.8	1,413,178.22	2,732,500.72	40° 27' 48.943 N	106° 27' 40.986 W
11,000.0	90.00	180.00	5,585.0	-5,005.8	-2,019.8	1,413,078.22	2,732,500.73	40° 27' 47.955 N	106° 27' 40.972 W
11,100.0	90.00	180.00	5,585.0	-5,105.8	-2,019.8	1,412,978.22	2,732,500.73	40° 27' 46.967 N	106° 27' 40.958 W
11,200.0	90.00	180.00	5,585.0	-5,205.8	-2,019.8	1,412,878.22	2,732,500.73	40° 27' 45.979 N	106° 27' 40.944 W
11,300.0	90.00	180.00	5,585.0	-5,305.8	-2,019.8	1,412,778.22	2,732,500.74	40° 27' 44.991 N	106° 27' 40.930 W
11,400.0	90.00	180.00	5,585.0	-5,405.8	-2,019.8	1,412,678.22	2,732,500.74	40° 27' 44.002 N	106° 27' 40.916 W
11,500.0	90.00	180.00	5,585.0	-5,505.8	-2,019.8	1,412,578.22	2,732,500.75	40° 27' 43.014 N	106° 27' 40.902 W
11,600.0	90.00	180.00	5,585.0	-5,605.8	-2,019.8	1,412,478.22	2,732,500.75	40° 27' 42.026 N	106° 27' 40.888 W
11,700.0	90.00	180.00	5,585.0	-5,705.8	-2,019.8	1,412,378.22	2,732,500.75	40° 27' 41.038 N	106° 27' 40.874 W
11,800.0	90.00	180.00	5,585.0	-5,805.8	-2,019.8	1,412,278.22	2,732,500.76	40° 27' 40.050 N	106° 27' 40.860 W
11,900.0	90.00	180.00	5,585.0	-5,905.8	-2,019.8	1,412,178.22	2,732,500.76	40° 27' 39.062 N	106° 27' 40.845 W
12,000.0	90.00	180.00	5,585.0	-6,005.8	-2,019.8	1,412,078.22	2,732,500.77	40° 27' 38.074 N	106° 27' 40.831 W
12,100.0	90.00	180.00	5,585.0	-6,105.8	-2,019.8	1,411,978.22	2,732,500.77	40° 27' 37.085 N	106° 27' 40.817 W
12,200.0	90.00	180.00	5,585.0	-6,205.8	-2,019.7	1,411,878.22	2,732,500.77	40° 27' 36.097 N	106° 27' 40.803 W
12,300.0	90.00	180.00	5,585.0	-6,305.8	-2,019.7	1,411,778.22	2,732,500.78	40° 27' 35.109 N	106° 27' 40.789 W
12,400.0	90.00	180.00	5,585.0	-6,405.8	-2,019.7	1,411,678.22	2,732,500.78	40° 27' 34.121 N	106° 27' 40.775 W
12,500.0	90.00	180.00	5,585.0	-6,505.8	-2,019.7	1,411,578.22	2,732,500.79	40° 27' 33.133 N	106° 27' 40.761 W
12,600.0	90.00	180.00	5,585.0	-6,605.8	-2,019.7	1,411,478.22	2,732,500.79	40° 27' 32.145 N	106° 27' 40.747 W
12,700.0	90.00	180.00	5,585.0	-6,705.8	-2,019.7	1,411,378.22	2,732,500.79	40° 27' 31.157 N	106° 27' 40.733 W
12,800.0	90.00	180.00	5,585.0	-6,805.8	-2,019.7	1,411,278.22	2,732,500.80	40° 27' 30.169 N	106° 27' 40.719 W
12,900.0	90.00	180.00	5,585.0	-6,905.8	-2,019.7	1,411,178.22	2,732,500.80	40° 27' 29.180 N	106° 27' 40.705 W
13,000.0	90.00	180.00	5,585.0	-7,005.8	-2,019.7	1,411,078.22	2,732,500.81	40° 27' 28.192 N	106° 27' 40.691 W
13,100.0	90.00	180.00	5,585.0	-7,105.8	-2,019.7	1,410,978.22	2,732,500.81	40° 27' 27.204 N	106° 27' 40.677 W
13,200.0	90.00	180.00	5,585.0	-7,205.8	-2,019.7	1,410,878.22	2,732,500.81	40° 27' 26.216 N	106° 27' 40.662 W
13,300.0	90.00	180.00	5,585.0	-7,305.8	-2,019.7	1,410,778.22	2,732,500.82	40° 27' 25.228 N	106° 27' 40.648 W
13,400.0	90.00	180.00	5,585.0	-7,405.8	-2,019.7	1,410,678.22	2,732,500.82	40° 27' 24.240 N	106° 27' 40.634 W
13,500.0	90.00	180.00	5,585.0	-7,505.8	-2,019.7	1,410,578.22	2,732,500.83	40° 27' 23.252 N	106° 27' 40.620 W
13,600.0	90.00	180.00	5,585.0	-7,605.8	-2,019.7	1,410,478.22	2,732,500.83	40° 27' 22.263 N	106° 27' 40.606 W
13,700.0	90.00	180.00	5,585.0	-7,705.8	-2,019.7	1,410,378.22	2,732,500.83	40° 27' 21.275 N	106° 27' 40.592 W
13,800.0	90.00	180.00	5,585.0	-7,805.8	-2,019.7	1,410,278.22	2,732,500.84	40° 27' 20.287 N	106° 27' 40.578 W
13,900.0	90.00	180.00	5,585.0	-7,905.8	-2,019.7	1,410,178.22	2,732,500.84	40° 27' 19.299 N	106° 27' 40.564 W
14,000.0	90.00	180.00	5,585.0	-8,005.8	-2,019.7	1,410,078.22	2,732,500.85	40° 27' 18.311 N	106° 27' 40.550 W
14,100.0	90.00	180.00	5,585.0	-8,105.8	-2,019.7	1,409,978.22	2,732,500.85	40° 27' 17.323 N	106° 27' 40.536 W

SandRidge Energy, Inc.

Survey Report - Geographic

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well REU 0681 2-23H/35
Project:	North Park Basin	TVD Reference:	KB @ 8324.0usft
Site:	T6N-R81W-S23	MD Reference:	KB @ 8324.0usft
Well:	REU 0681 2-23H/35	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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
14,200.0	90.00	180.00	5,585.0	-8,205.8	-2,019.7	1,409,878.22	2,732,500.85	40° 27' 16.335 N	106° 27' 40.522 W
14,300.0	90.00	180.00	5,585.0	-8,305.8	-2,019.7	1,409,778.22	2,732,500.86	40° 27' 15.347 N	106° 27' 40.508 W
14,400.0	90.00	180.00	5,585.0	-8,405.8	-2,019.7	1,409,678.22	2,732,500.86	40° 27' 14.358 N	106° 27' 40.494 W
14,500.0	90.00	180.00	5,585.0	-8,505.8	-2,019.7	1,409,578.22	2,732,500.87	40° 27' 13.370 N	106° 27' 40.479 W
14,600.0	90.00	180.00	5,585.0	-8,605.8	-2,019.7	1,409,478.22	2,732,500.87	40° 27' 12.382 N	106° 27' 40.465 W
14,700.0	90.00	180.00	5,585.0	-8,705.8	-2,019.6	1,409,378.22	2,732,500.87	40° 27' 11.394 N	106° 27' 40.451 W
14,800.0	90.00	180.00	5,585.0	-8,805.8	-2,019.6	1,409,278.22	2,732,500.88	40° 27' 10.406 N	106° 27' 40.437 W
14,900.0	90.00	180.00	5,585.0	-8,905.8	-2,019.6	1,409,178.22	2,732,500.88	40° 27' 9.418 N	106° 27' 40.423 W
15,000.0	90.00	180.00	5,585.0	-9,005.8	-2,019.6	1,409,078.22	2,732,500.89	40° 27' 8.430 N	106° 27' 40.409 W
15,100.0	90.00	180.00	5,585.0	-9,105.8	-2,019.6	1,408,978.22	2,732,500.89	40° 27' 7.441 N	106° 27' 40.395 W
15,200.0	90.00	180.00	5,585.0	-9,205.8	-2,019.6	1,408,878.22	2,732,500.89	40° 27' 6.453 N	106° 27' 40.381 W
15,300.0	90.00	180.00	5,585.0	-9,305.8	-2,019.6	1,408,778.22	2,732,500.90	40° 27' 5.465 N	106° 27' 40.367 W
15,400.0	90.00	180.00	5,585.0	-9,405.8	-2,019.6	1,408,678.22	2,732,500.90	40° 27' 4.477 N	106° 27' 40.353 W
15,500.0	90.00	180.00	5,585.0	-9,505.8	-2,019.6	1,408,578.22	2,732,500.91	40° 27' 3.489 N	106° 27' 40.339 W
15,600.0	90.00	180.00	5,585.0	-9,605.8	-2,019.6	1,408,478.22	2,732,500.91	40° 27' 2.501 N	106° 27' 40.325 W
15,700.0	90.00	180.00	5,585.0	-9,705.8	-2,019.6	1,408,378.22	2,732,500.91	40° 27' 1.513 N	106° 27' 40.311 W
15,800.0	90.00	180.00	5,585.0	-9,805.8	-2,019.6	1,408,278.22	2,732,500.92	40° 27' 0.525 N	106° 27' 40.297 W
15,900.0	90.00	180.00	5,585.0	-9,905.8	-2,019.6	1,408,178.22	2,732,500.92	40° 26' 59.536 N	106° 27' 40.282 W
16,000.0	90.00	180.00	5,585.0	-10,005.8	-2,019.6	1,408,078.22	2,732,500.93	40° 26' 58.548 N	106° 27' 40.268 W
16,100.0	90.00	180.00	5,585.0	-10,105.8	-2,019.6	1,407,978.22	2,732,500.93	40° 26' 57.560 N	106° 27' 40.254 W
16,200.0	90.00	180.00	5,585.0	-10,205.8	-2,019.6	1,407,878.22	2,732,500.93	40° 26' 56.572 N	106° 27' 40.240 W
16,300.0	90.00	180.00	5,585.0	-10,305.8	-2,019.6	1,407,778.22	2,732,500.94	40° 26' 55.584 N	106° 27' 40.226 W
16,400.0	90.00	180.00	5,585.0	-10,405.8	-2,019.6	1,407,678.22	2,732,500.94	40° 26' 54.596 N	106° 27' 40.212 W
16,500.0	90.00	180.00	5,585.0	-10,505.8	-2,019.6	1,407,578.22	2,732,500.95	40° 26' 53.608 N	106° 27' 40.198 W
16,600.0	90.00	180.00	5,585.0	-10,605.8	-2,019.6	1,407,478.22	2,732,500.95	40° 26' 52.619 N	106° 27' 40.184 W
16,700.0	90.00	180.00	5,585.0	-10,705.8	-2,019.6	1,407,378.22	2,732,500.95	40° 26' 51.631 N	106° 27' 40.170 W
16,800.0	90.00	180.00	5,585.0	-10,805.8	-2,019.6	1,407,278.22	2,732,500.96	40° 26' 50.643 N	106° 27' 40.156 W
16,900.0	90.00	180.00	5,585.0	-10,905.8	-2,019.6	1,407,178.22	2,732,500.96	40° 26' 49.655 N	106° 27' 40.142 W
17,000.0	90.00	180.00	5,585.0	-11,005.8	-2,019.6	1,407,078.22	2,732,500.97	40° 26' 48.667 N	106° 27' 40.128 W
17,100.0	90.00	180.00	5,585.0	-11,105.8	-2,019.6	1,406,978.22	2,732,500.97	40° 26' 47.679 N	106° 27' 40.114 W
17,200.0	90.00	180.00	5,585.0	-11,205.8	-2,019.5	1,406,878.22	2,732,500.97	40° 26' 46.691 N	106° 27' 40.100 W
17,300.0	90.00	180.00	5,585.0	-11,305.8	-2,019.5	1,406,778.22	2,732,500.98	40° 26' 45.702 N	106° 27' 40.085 W
17,400.0	90.00	180.00	5,585.0	-11,405.8	-2,019.5	1,406,678.22	2,732,500.98	40° 26' 44.714 N	106° 27' 40.071 W
17,500.0	90.00	180.00	5,585.0	-11,505.8	-2,019.5	1,406,578.22	2,732,500.99	40° 26' 43.726 N	106° 27' 40.057 W
17,600.0	90.00	180.00	5,585.0	-11,605.8	-2,019.5	1,406,478.22	2,732,500.99	40° 26' 42.738 N	106° 27' 40.043 W
17,700.0	90.00	180.00	5,585.0	-11,705.8	-2,019.5	1,406,378.22	2,732,500.99	40° 26' 41.750 N	106° 27' 40.029 W
17,800.0	90.00	180.00	5,585.0	-11,805.8	-2,019.5	1,406,278.22	2,732,501.00	40° 26' 40.762 N	106° 27' 40.015 W
17,900.0	90.00	180.00	5,585.0	-11,905.8	-2,019.5	1,406,178.22	2,732,501.00	40° 26' 39.774 N	106° 27' 40.001 W
18,000.0	90.00	180.00	5,585.0	-12,005.8	-2,019.5	1,406,078.22	2,732,501.01	40° 26' 38.786 N	106° 27' 39.987 W
18,100.0	90.00	180.00	5,585.0	-12,105.8	-2,019.5	1,405,978.22	2,732,501.01	40° 26' 37.797 N	106° 27' 39.973 W
18,200.0	90.00	180.00	5,585.0	-12,205.8	-2,019.5	1,405,878.22	2,732,501.01	40° 26' 36.809 N	106° 27' 39.959 W
18,300.0	90.00	180.00	5,585.0	-12,305.8	-2,019.5	1,405,778.22	2,732,501.02	40° 26' 35.821 N	106° 27' 39.945 W
18,400.0	90.00	180.00	5,585.0	-12,405.8	-2,019.5	1,405,678.22	2,732,501.02	40° 26' 34.833 N	106° 27' 39.931 W
18,500.0	90.00	180.00	5,585.0	-12,505.8	-2,019.5	1,405,578.22	2,732,501.03	40° 26' 33.845 N	106° 27' 39.917 W
18,600.0	90.00	180.00	5,585.0	-12,605.8	-2,019.5	1,405,478.22	2,732,501.03	40° 26' 32.857 N	106° 27' 39.903 W
18,700.0	90.00	180.00	5,585.0	-12,705.8	-2,019.5	1,405,378.22	2,732,501.03	40° 26' 31.869 N	106° 27' 39.888 W
18,800.0	90.00	180.00	5,585.0	-12,805.8	-2,019.5	1,405,278.22	2,732,501.04	40° 26' 30.880 N	106° 27' 39.874 W
18,900.0	90.00	180.00	5,585.0	-12,905.8	-2,019.5	1,405,178.22	2,732,501.04	40° 26' 29.892 N	106° 27' 39.860 W
19,000.0	90.00	180.00	5,585.0	-13,005.8	-2,019.5	1,405,078.22	2,732,501.05	40° 26' 28.904 N	106° 27' 39.846 W
19,100.0	90.00	180.00	5,585.0	-13,105.8	-2,019.5	1,404,978.22	2,732,501.05	40° 26' 27.916 N	106° 27' 39.832 W
19,200.0	90.00	180.00	5,585.0	-13,205.8	-2,019.5	1,404,878.22	2,732,501.05	40° 26' 26.928 N	106° 27' 39.818 W
19,300.0	90.00	180.00	5,585.0	-13,305.8	-2,019.5	1,404,778.22	2,732,501.06	40° 26' 25.940 N	106° 27' 39.804 W
19,400.0	90.00	180.00	5,585.0	-13,405.8	-2,019.5	1,404,678.22	2,732,501.06	40° 26' 24.952 N	106° 27' 39.790 W
19,500.0	90.00	180.00	5,585.0	-13,505.8	-2,019.5	1,404,578.22	2,732,501.07	40° 26' 23.963 N	106° 27' 39.776 W
19,600.0	90.00	180.00	5,585.0	-13,605.8	-2,019.5	1,404,478.22	2,732,501.07	40° 26' 22.975 N	106° 27' 39.762 W

SandRidge Energy, Inc.

Survey Report - Geographic

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well REU 0681 2-23H/35
Project:	North Park Basin	TVD Reference:	KB @ 8324.0usft
Site:	T6N-R81W-S23	MD Reference:	KB @ 8324.0usft
Well:	REU 0681 2-23H/35	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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
19,700.0	90.00	180.00	5,585.0	-13,705.8	-2,019.4	1,404,378.22	2,732,501.07	40° 26' 21.987 N	106° 27' 39.748 W
19,800.0	90.00	180.00	5,585.0	-13,805.8	-2,019.4	1,404,278.22	2,732,501.08	40° 26' 20.999 N	106° 27' 39.734 W
19,900.0	90.00	180.00	5,585.0	-13,905.8	-2,019.4	1,404,178.22	2,732,501.08	40° 26' 20.011 N	106° 27' 39.720 W
20,000.0	90.00	180.00	5,585.0	-14,005.8	-2,019.4	1,404,078.22	2,732,501.09	40° 26' 19.023 N	106° 27' 39.706 W
20,100.0	90.00	180.00	5,585.0	-14,105.8	-2,019.4	1,403,978.22	2,732,501.09	40° 26' 18.035 N	106° 27' 39.692 W
20,200.0	90.00	180.00	5,585.0	-14,205.8	-2,019.4	1,403,878.22	2,732,501.09	40° 26' 17.047 N	106° 27' 39.677 W
20,300.0	90.00	180.00	5,585.0	-14,305.8	-2,019.4	1,403,778.22	2,732,501.10	40° 26' 16.058 N	106° 27' 39.663 W
20,400.3	90.00	180.00	5,585.0	-14,406.1	-2,019.4	1,403,677.90	2,732,501.10	40° 26' 15.067 N	106° 27' 39.649 W
TD at 20400.3									

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
Rabbit Ears 2 - plan hits target center - Point	0.00	360.00	5,585.0	-14,406.1	-2,019.4	1,403,677.90	2,732,501.10	40° 26' 15.067 N	106° 27' 39.649 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
5,414.1	5,240.0	Niobrara		0.00	

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2700	2700	0	0	Start Build 2.00
3932	3895	8	-261	Start 1410.8 hold at 3932.4 MD
5343	5177	25	-849	Start DLS 12.00 TFO -56.63
5707	5446	-79	-1055	Start 150.0 hold at 5706.5 MD
5857	5521	-162	-1155	Start DLS 12.00 TFO 0.00
6107	5585	-316	-1338	Start DLS 3.00 TFO -90.00
7773	5585	-1779	-2020	Start 12627.0 hold at 7773.3 MD
20,400	5585	-14,406	-2019	TD at 20400.3

Checked By: _____ Approved By: _____ Date: _____

SandRidge Energy

North Park Basin

T6N-R81W-S23

REU 0681 2-23H/35

Wellbore #1

Design #1

Anticollision Summary Report

22 March, 2017

SandRidge Energy, Inc.
Anticollision Summary Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well REU 0681 2-23H/35
Project:	North Park Basin	TVD Reference:	KB @ 8324.0usft
Reference Site:	T6N-R81W-S23	MD Reference:	KB @ 8324.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	REU 0681 2-23H/35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDMProd
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference	Design #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		WARNING: There is hidden tight data in this project
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.0 usft		Error Surface: Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	3/22/2017			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	20,400.2	Design #1 (Wellbore #1)	Sperry MWD	Fixed:v2:standard declination	

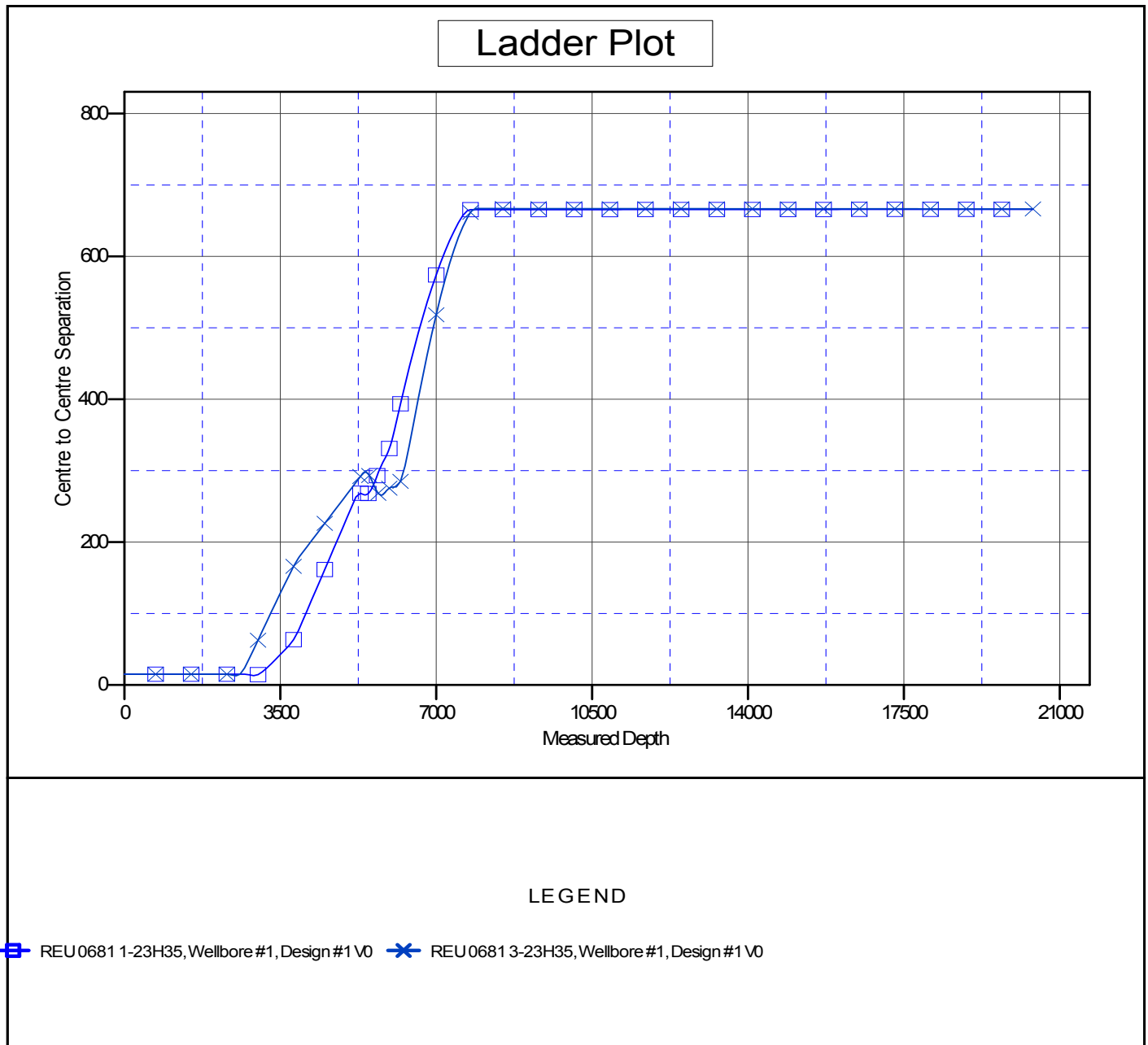
Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
T6N-R81W-S23						
REU 0681 1-23H35 - Wellbore #1 - Design #1	2,905.8	2,905.6	13.1	0.3	1.024	Level 2, CC, ES, SF
REU 0681 3-23H35 - Wellbore #1 - Design #1	2,510.4	2,510.6	12.8	1.9	1.170	Level 2, CC, ES, SF

SandRidge Energy, Inc.
Anticollision Summary Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well REU 0681 2-23H/35
Project:	North Park Basin	TVD Reference:	KB @ 8324.0usft
Reference Site:	T6N-R81W-S23	MD Reference:	KB @ 8324.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	REU 0681 2-23H/35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDMProd
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB @ 8324.0usft
Offset Depths are relative to Offset Datum
Central Meridian is 105° 30' 0.000 W

Coordinates are relative to: REU 0681 2-23H/35
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: -0.62°



SandRidge Energy, Inc.

Anticollision Summary Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well REU 0681 2-23H/35
Project:	North Park Basin	TVD Reference:	KB @ 8324.0usft
Reference Site:	T6N-R81W-S23	MD Reference:	KB @ 8324.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	REU 0681 2-23H/35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDMProd
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB @ 8324.0usft
 Offset Depths are relative to Offset Datum
 Central Meridian is 105° 30' 0.000 W

Coordinates are relative to: REU 0681 2-23H/35
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: -0.62°

