

SandRidge Energy

North Park Basin

T7N-R80W-S16

Evans 0780 8-21H

Wellbore #1

Plan: Design #1

Standard Survey Report

08 July, 2016

SandRidge Energy

Survey Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Evans 0780 8-21H
Project:	North Park Basin	TVD Reference:	KB @ 8152.0usft
Site:	T7N-R80W-S16	MD Reference:	KB @ 8152.0usft
Well:	Evans 0780 8-21H	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-S16			
Site Position:		Northing:	1,453,179.12 usft	Latitude:	40° 34' 26.505 N
From:	Map	Easting:	2,754,928.85 usft	Longitude:	106° 22' 55.973 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.57 °

Well	Evans 0780 8-21H					
Well Position	+N/-S	0.0 usft	Northing:	1,453,224.12 usft	Latitude:	40° 34' 26.950 N
	+E/-W	0.0 usft	Easting:	2,754,928.85 usft	Longitude:	106° 22' 55.979 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	8,136.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	9.88	66.97	53,186

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	7/8/2016			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	14,502.0	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	

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Well:	Evans 0780 8-21H	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
Start Build 2.00									
2,680.3	1.61	281.31	2,680.2	0.2	-1.1	-0.2	2.00	2.00	0.00
Start 1740.2 hold at 2680.3 MD									
2,700.0	1.61	281.31	2,700.0	0.3	-1.6	-0.3	0.00	0.00	0.00
2,800.0	1.61	281.31	2,799.9	0.9	-4.4	-0.9	0.00	0.00	0.00
2,900.0	1.61	281.31	2,899.9	1.4	-7.1	-1.4	0.00	0.00	0.00
3,000.0	1.61	281.31	2,999.9	2.0	-9.9	-2.0	0.00	0.00	0.00
3,100.0	1.61	281.31	3,099.8	2.5	-12.6	-2.5	0.00	0.00	0.00
3,200.0	1.61	281.31	3,199.8	3.1	-15.4	-3.1	0.00	0.00	0.00
3,300.0	1.61	281.31	3,299.7	3.6	-18.1	-3.6	0.00	0.00	0.00
3,400.0	1.61	281.31	3,399.7	4.2	-20.9	-4.2	0.00	0.00	0.00
3,500.0	1.61	281.31	3,499.7	4.7	-23.6	-4.7	0.00	0.00	0.00
3,600.0	1.61	281.31	3,599.6	5.3	-26.4	-5.3	0.00	0.00	0.00
3,700.0	1.61	281.31	3,699.6	5.8	-29.1	-5.8	0.00	0.00	0.00
3,800.0	1.61	281.31	3,799.6	6.4	-31.9	-6.4	0.00	0.00	0.00
3,900.0	1.61	281.31	3,899.5	6.9	-34.6	-6.9	0.00	0.00	0.00
4,000.0	1.61	281.31	3,999.5	7.5	-37.3	-7.5	0.00	0.00	0.00
4,100.0	1.61	281.31	4,099.4	8.0	-40.1	-8.0	0.00	0.00	0.00
4,200.0	1.61	281.31	4,199.4	8.6	-42.8	-8.6	0.00	0.00	0.00
4,300.0	1.61	281.31	4,299.4	9.1	-45.6	-9.1	0.00	0.00	0.00
4,400.0	1.61	281.31	4,399.3	9.7	-48.3	-9.7	0.00	0.00	0.00
4,420.5	1.61	281.31	4,419.8	9.8	-48.9	-9.8	0.00	0.00	0.00
Start Drop -2.00									
4,500.7	0.00	0.00	4,500.0	10.0	-50.0	-10.0	2.00	-2.00	0.00
Start Build 2.00									
4,600.0	1.99	268.09	4,599.3	9.9	-51.7	-9.9	2.00	2.00	0.00
4,700.0	3.99	268.09	4,699.1	9.8	-56.9	-9.8	2.00	2.00	0.00

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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,800.0	5.99	268.09	4,798.8	9.5	-65.6	-9.5	2.00	2.00	0.00
4,900.0	7.99	268.09	4,898.0	9.1	-77.8	-9.1	2.00	2.00	0.00
5,000.0	9.99	268.09	4,996.8	8.6	-93.4	-8.6	2.00	2.00	0.00
5,100.0	11.99	268.09	5,094.9	7.9	-112.4	-7.9	2.00	2.00	0.00
5,200.0	13.99	268.09	5,192.4	7.2	-134.9	-7.2	2.00	2.00	0.00
5,300.0	15.99	268.09	5,289.0	6.3	-160.7	-6.3	2.00	2.00	0.00
5,400.0	17.99	268.09	5,384.6	5.3	-189.9	-5.3	2.00	2.00	0.00
5,500.0	19.99	268.09	5,479.2	4.3	-222.4	-4.3	2.00	2.00	0.00
5,600.0	21.99	268.09	5,572.5	3.1	-258.2	-3.1	2.00	2.00	0.00
5,679.7	23.58	268.09	5,646.0	2.0	-289.1	-2.0	2.00	2.00	0.00
Start 2028.2 hold at 5679.7 MD									
5,700.0	23.58	268.09	5,664.6	1.8	-297.2	-1.8	0.00	0.00	0.00
5,800.0	23.58	268.09	5,756.3	0.4	-337.2	-0.4	0.00	0.00	0.00
5,900.0	23.58	268.09	5,847.9	-0.9	-377.1	0.9	0.00	0.00	0.00
6,000.0	23.58	268.09	5,939.6	-2.2	-417.1	2.2	0.00	0.00	0.00
6,100.0	23.58	268.09	6,031.2	-3.6	-457.1	3.6	0.00	0.00	0.00
6,200.0	23.58	268.09	6,122.8	-4.9	-497.1	4.9	0.00	0.00	0.00
6,300.0	23.58	268.09	6,214.5	-6.2	-537.1	6.2	0.00	0.00	0.00
6,400.0	23.58	268.09	6,306.1	-7.6	-577.1	7.6	0.00	0.00	0.00
6,500.0	23.58	268.09	6,397.8	-8.9	-617.0	8.9	0.00	0.00	0.00
6,600.0	23.58	268.09	6,489.4	-10.2	-657.0	10.2	0.00	0.00	0.00
6,700.0	23.58	268.09	6,581.1	-11.6	-697.0	11.6	0.00	0.00	0.00
6,800.0	23.58	268.09	6,672.7	-12.9	-737.0	12.9	0.00	0.00	0.00
6,900.0	23.58	268.09	6,764.4	-14.2	-777.0	14.2	0.00	0.00	0.00
7,000.0	23.58	268.09	6,856.0	-15.6	-816.9	15.6	0.00	0.00	0.00
7,100.0	23.58	268.09	6,947.7	-16.9	-856.9	16.9	0.00	0.00	0.00
7,200.0	23.58	268.09	7,039.3	-18.2	-896.9	18.2	0.00	0.00	0.00
7,300.0	23.58	268.09	7,131.0	-19.6	-936.9	19.6	0.00	0.00	0.00
7,400.0	23.58	268.09	7,222.6	-20.9	-976.9	20.9	0.00	0.00	0.00
7,500.0	23.58	268.09	7,314.3	-22.2	-1,016.9	22.2	0.00	0.00	0.00
7,600.0	23.58	268.09	7,405.9	-23.6	-1,056.8	23.6	0.00	0.00	0.00
7,708.0	23.58	268.09	7,504.9	-25.0	-1,100.0	25.0	0.00	0.00	0.00
Start DLS 8.00 TFO -98.70									
7,750.0	23.30	259.66	7,543.5	-26.8	-1,116.6	26.8	8.00	-0.68	-20.06
7,800.0	23.55	249.61	7,589.4	-32.0	-1,135.7	32.0	8.00	0.51	-20.11
7,850.0	24.43	240.00	7,635.1	-40.7	-1,154.0	40.7	8.00	1.76	-19.22
7,900.0	25.87	231.21	7,680.3	-52.7	-1,171.5	52.7	8.00	2.88	-17.58
7,950.0	27.78	223.41	7,725.0	-68.0	-1,188.0	68.0	8.00	3.82	-15.59
8,000.0	30.08	216.63	7,768.7	-86.5	-1,203.5	86.5	8.00	4.59	-13.56
8,050.0	32.67	210.78	7,811.4	-108.2	-1,217.9	108.2	8.00	5.19	-11.70
8,100.0	35.50	205.73	7,852.9	-132.9	-1,231.1	132.9	8.00	5.66	-10.10
8,106.3	35.87	205.14	7,858.0	-136.2	-1,232.7	136.2	8.00	5.88	-9.30
Niobrara									
8,150.0	38.51	201.36	7,892.8	-160.5	-1,243.1	160.5	8.00	6.05	-8.67

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Survey Report

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Project:	North Park Basin	TVD Reference:	KB @ 8152.0usft
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Well:	Evans 0780 8-21H	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)
8,200.0	41.67	197.54	7,931.0	-190.8	-1,253.7	190.8	8.00	6.31	-7.64
8,250.0	44.94	194.17	7,967.4	-223.8	-1,263.1	223.8	8.00	6.53	-6.73
8,300.0	48.29	191.17	8,001.8	-259.2	-1,271.0	259.2	8.00	6.71	-6.00
8,350.0	51.72	188.47	8,033.9	-297.0	-1,277.5	297.0	8.00	6.85	-5.40
8,400.0	55.20	186.02	8,063.7	-336.8	-1,282.6	336.8	8.00	6.96	-4.91
8,450.0	58.73	183.77	8,090.9	-378.6	-1,286.1	378.6	8.00	7.05	-4.50
8,467.9	60.00	183.00	8,100.1	-394.0	-1,287.0	394.0	8.00	7.10	-4.27
Start 150.0 hold at 8467.9 MD									
8,500.0	60.00	183.00	8,116.1	-421.7	-1,288.5	421.7	0.00	0.00	0.00
8,600.0	60.00	183.00	8,166.1	-508.2	-1,293.0	508.2	0.00	0.00	0.00
8,617.9	60.00	183.00	8,175.1	-523.7	-1,293.8	523.7	0.00	0.00	0.00
Start DLS 10.00 TFO -3.65									
8,650.0	63.20	182.77	8,190.3	-551.9	-1,295.3	551.9	10.00	9.98	-0.71
8,700.0	68.19	182.44	8,210.9	-597.4	-1,297.3	597.4	10.00	9.98	-0.66
8,750.0	73.18	182.13	8,227.4	-644.5	-1,299.2	644.5	10.00	9.98	-0.62
8,800.0	78.17	181.84	8,239.8	-692.9	-1,300.9	692.9	10.00	9.98	-0.59
8,850.0	83.17	181.55	8,247.9	-742.2	-1,302.3	742.2	10.00	9.98	-0.57
8,900.0	88.16	181.28	8,251.7	-792.0	-1,303.6	792.0	10.00	9.98	-0.55
8,918.4	90.00	181.18	8,252.0	-810.5	-1,304.0	810.5	10.00	9.98	-0.55
Start 5583.6 hold at 8918.4 MD									
9,000.0	90.00	181.18	8,252.0	-892.0	-1,305.6	892.0	0.00	0.00	0.00
9,100.0	90.00	181.18	8,252.0	-992.0	-1,307.7	992.0	0.00	0.00	0.00
9,200.0	90.00	181.18	8,252.0	-1,092.0	-1,309.7	1,092.0	0.00	0.00	0.00
9,300.0	90.00	181.18	8,252.0	-1,192.0	-1,311.8	1,192.0	0.00	0.00	0.00
9,400.0	90.00	181.18	8,252.0	-1,291.9	-1,313.8	1,291.9	0.00	0.00	0.00
9,500.0	90.00	181.18	8,252.0	-1,391.9	-1,315.9	1,391.9	0.00	0.00	0.00
9,600.0	90.00	181.18	8,252.0	-1,491.9	-1,317.9	1,491.9	0.00	0.00	0.00
9,700.0	90.00	181.18	8,252.0	-1,591.9	-1,320.0	1,591.9	0.00	0.00	0.00
9,800.0	90.00	181.18	8,252.0	-1,691.8	-1,322.0	1,691.8	0.00	0.00	0.00
9,900.0	90.00	181.18	8,252.0	-1,791.8	-1,324.1	1,791.8	0.00	0.00	0.00
10,000.0	90.00	181.18	8,252.0	-1,891.8	-1,326.1	1,891.8	0.00	0.00	0.00
10,100.0	90.00	181.18	8,252.0	-1,991.8	-1,328.2	1,991.8	0.00	0.00	0.00
10,200.0	90.00	181.18	8,252.0	-2,091.8	-1,330.3	2,091.8	0.00	0.00	0.00
10,300.0	90.00	181.18	8,252.0	-2,191.7	-1,332.3	2,191.7	0.00	0.00	0.00
10,400.0	90.00	181.18	8,252.0	-2,291.7	-1,334.4	2,291.7	0.00	0.00	0.00
10,500.0	90.00	181.18	8,252.0	-2,391.7	-1,336.4	2,391.7	0.00	0.00	0.00
10,600.0	90.00	181.18	8,252.0	-2,491.7	-1,338.5	2,491.7	0.00	0.00	0.00
10,700.0	90.00	181.18	8,252.0	-2,591.7	-1,340.5	2,591.7	0.00	0.00	0.00
10,800.0	90.00	181.18	8,252.0	-2,691.6	-1,342.6	2,691.6	0.00	0.00	0.00
10,900.0	90.00	181.18	8,252.0	-2,791.6	-1,344.6	2,791.6	0.00	0.00	0.00
11,000.0	90.00	181.18	8,252.0	-2,891.6	-1,346.7	2,891.6	0.00	0.00	0.00
11,100.0	90.00	181.18	8,252.0	-2,991.6	-1,348.7	2,991.6	0.00	0.00	0.00
11,200.0	90.00	181.18	8,252.0	-3,091.6	-1,350.8	3,091.6	0.00	0.00	0.00
11,300.0	90.00	181.18	8,252.0	-3,191.5	-1,352.8	3,191.5	0.00	0.00	0.00

SandRidge Energy

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Project:	North Park Basin	TVD Reference:	KB @ 8152.0usft
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Well:	Evans 0780 8-21H	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)
11,400.0	90.00	181.18	8,252.0	-3,291.5	-1,354.9	3,291.5	0.00	0.00	0.00
11,500.0	90.00	181.18	8,252.0	-3,391.5	-1,356.9	3,391.5	0.00	0.00	0.00
11,600.0	90.00	181.18	8,252.0	-3,491.5	-1,359.0	3,491.5	0.00	0.00	0.00
11,700.0	90.00	181.18	8,252.0	-3,591.4	-1,361.0	3,591.4	0.00	0.00	0.00
11,800.0	90.00	181.18	8,252.0	-3,691.4	-1,363.1	3,691.4	0.00	0.00	0.00
11,900.0	90.00	181.18	8,252.0	-3,791.4	-1,365.1	3,791.4	0.00	0.00	0.00
12,000.0	90.00	181.18	8,252.0	-3,891.4	-1,367.2	3,891.4	0.00	0.00	0.00
12,100.0	90.00	181.18	8,252.0	-3,991.4	-1,369.2	3,991.4	0.00	0.00	0.00
12,200.0	90.00	181.18	8,252.0	-4,091.3	-1,371.3	4,091.3	0.00	0.00	0.00
12,300.0	90.00	181.18	8,252.0	-4,191.3	-1,373.3	4,191.3	0.00	0.00	0.00
12,400.0	90.00	181.18	8,252.0	-4,291.3	-1,375.4	4,291.3	0.00	0.00	0.00
12,500.0	90.00	181.18	8,252.0	-4,391.3	-1,377.4	4,391.3	0.00	0.00	0.00
12,600.0	90.00	181.18	8,252.0	-4,491.3	-1,379.5	4,491.3	0.00	0.00	0.00
12,700.0	90.00	181.18	8,252.0	-4,591.2	-1,381.5	4,591.2	0.00	0.00	0.00
12,800.0	90.00	181.18	8,252.0	-4,691.2	-1,383.6	4,691.2	0.00	0.00	0.00
12,900.0	90.00	181.18	8,252.0	-4,791.2	-1,385.7	4,791.2	0.00	0.00	0.00
13,000.0	90.00	181.18	8,252.0	-4,891.2	-1,387.7	4,891.2	0.00	0.00	0.00
13,100.0	90.00	181.18	8,252.0	-4,991.2	-1,389.8	4,991.2	0.00	0.00	0.00
13,200.0	90.00	181.18	8,252.0	-5,091.1	-1,391.8	5,091.1	0.00	0.00	0.00
13,300.0	90.00	181.18	8,252.0	-5,191.1	-1,393.9	5,191.1	0.00	0.00	0.00
13,400.0	90.00	181.18	8,252.0	-5,291.1	-1,395.9	5,291.1	0.00	0.00	0.00
13,500.0	90.00	181.18	8,252.0	-5,391.1	-1,398.0	5,391.1	0.00	0.00	0.00
13,600.0	90.00	181.18	8,252.0	-5,491.0	-1,400.0	5,491.0	0.00	0.00	0.00
13,700.0	90.00	181.18	8,252.0	-5,591.0	-1,402.1	5,591.0	0.00	0.00	0.00
13,800.0	90.00	181.18	8,252.0	-5,691.0	-1,404.1	5,691.0	0.00	0.00	0.00
13,900.0	90.00	181.18	8,252.0	-5,791.0	-1,406.2	5,791.0	0.00	0.00	0.00
14,000.0	90.00	181.18	8,252.0	-5,891.0	-1,408.2	5,891.0	0.00	0.00	0.00
14,100.0	90.00	181.18	8,252.0	-5,990.9	-1,410.3	5,990.9	0.00	0.00	0.00
14,200.0	90.00	181.18	8,252.0	-6,090.9	-1,412.3	6,090.9	0.00	0.00	0.00
14,300.0	90.00	181.18	8,252.0	-6,190.9	-1,414.4	6,190.9	0.00	0.00	0.00
14,400.0	90.00	181.18	8,252.0	-6,290.9	-1,416.4	6,290.9	0.00	0.00	0.00
14,502.0	90.00	181.18	8,252.0	-6,392.9	-1,418.5	6,392.9	0.00	0.00	0.00
TD at 14502.0									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Evans 8-21H	0.00	360.00	8,252.0	-6,392.9	-1,418.5	1,446,831.26	2,753,510.33	40° 33' 23.641 N	106° 23' 13.532 W
- hit/miss target									
- Shape									
- plan hits target center									
- Point									

SandRidge Energy

Survey Report

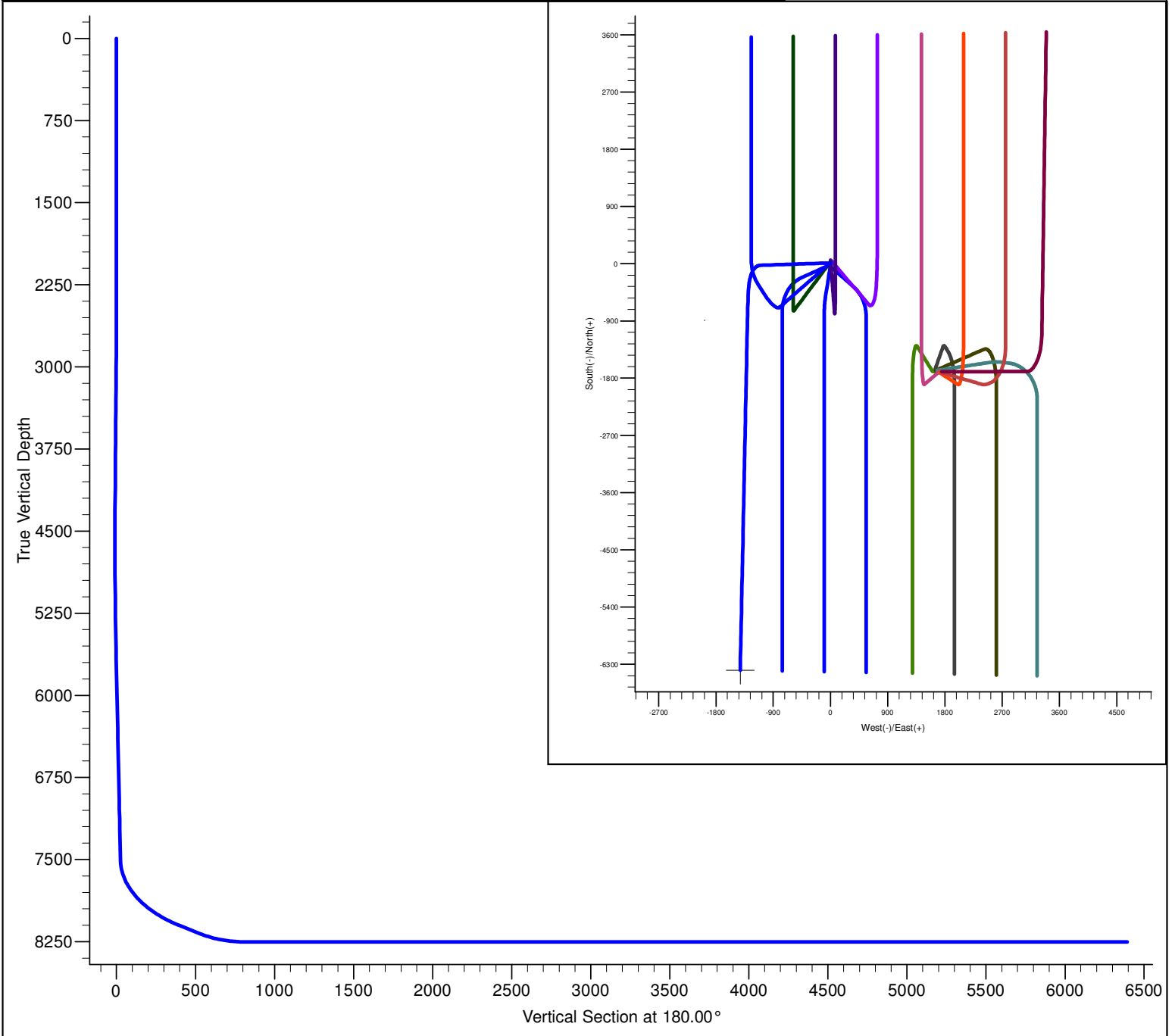
Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Evans 0780 8-21H
Project:	North Park Basin	TVD Reference:	KB @ 8152.0usft
Site:	T7N-R80W-S16	MD Reference:	KB @ 8152.0usft
Well:	Evans 0780 8-21H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDMProd

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
8,106.3	7,858.0	Niobrara		0.00	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
2600	2600	0	0	Start Build 2.00	
2680	2680	0	-1	Start 1740.2 hold at 2680.3 MD	
4420	4420	10	-49	Start Drop -2.00	
4501	4500	10	-50	Start Build 2.00	
5680	5646	2	-289	Start 2028.2 hold at 5679.7 MD	
7708	7505	-25	-1100	Start DLS 8.00 TFO -98.70	
8468	8100	-394	-1287	Start 150.0 hold at 8467.9 MD	
8618	8175	-524	-1294	Start DLS 10.00 TFO -3.65	
8918	8252	-810	-1304	Start 5583.6 hold at 8918.4 MD	
14,502	8252	-6393	-1419	TD at 14502.0	

Checked By: _____ Approved By: _____ Date: _____

PROJECT DETAILS: North Park Basin					<div><div><div><div>G</div><div>T</div><div>M</div></div><div></div></div><div><div>Azimuths to Grid North</div><div>True North: 0.57°</div><div>Magnetic North: 10.45°</div><div>Magnetic Field</div><div>Strength: 53186.3snT</div><div>Dip Angle: 66.97°</div><div>Date: 12/31/2009</div><div>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							
FORMATION TOP DETAILS					CASING DETAILS		
TVDPath 7858.0 MDPath 8106.3 Formation Niobrara DipAngle 0.00 DipDir 0.00					No casing data is available		
DESIGN DETAILS: Design #1					Project: North Park Basin Site: T7N-R80W-S16 Well: Evans 0780 8-21H Wellbore: Wellbore #1 Design: Design #1		
0' Vertical Section coordinates							
Type User	Target	Azimuth 180.00	Origin Slot	Type	N/S 0.0	E/W 0.0	From TVD 0.0



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	2600.0	0.00	0.00	2600.0	0.0	0.0	0.00	0.00	0.0	
3	2680.3	1.61	281.31	2680.2	0.2	-1.1	2.00	281.31	-0.2	
4	4420.5	1.61	281.31	4419.8	9.8	-48.9	0.00	0.00	-9.8	
5	4500.7	0.00	0.00	4500.0	10.0	-50.0	2.00	180.00	-10.0	
6	5679.7	23.58	268.09	5646.0	2.0	-289.1	2.00	268.09	-2.0	
7	7708.0	23.58	268.09	7504.9	-25.0	-1100.0	0.00	0.00	25.0	
8	8467.9	60.00	183.00	8100.1	-394.0	-1287.0	8.00	-98.70	394.0	
9	8617.9	60.00	183.00	8175.1	-523.7	-1293.8	0.00	0.00	523.7	
10	8918.4	90.00	181.18	8252.0	-810.5	-1304.0	10.00	-3.65	810.5	Evans 8-21H
11	14502.0	90.00	181.18	8252.0	-6392.9	-1418.5	0.00	0.00	6392.9	Evans 8-21H