

# **SandRidge Energy**

**North Park Basin**

**T7N-R80W-S18**

**Coalmont 0781 4-13H**

**Wellbore #1**

**Plan: Design #1**

## **Standard Survey Report**

**15 July, 2016**

# SandRidge Energy

## Survey Report

<b>Company:</b>	SandRidge Energy	<b>Local Co-ordinate Reference:</b>	Well Coalmont 0781 4-13H
<b>Project:</b>	North Park Basin	<b>TVD Reference:</b>	WELL @ 8222.0usft (Original Well Elev)
<b>Site:</b>	T7N-R80W-S18	<b>MD Reference:</b>	WELL @ 8222.0usft (Original Well Elev)
<b>Well:</b>	Coalmont 0781 4-13H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Design #1	<b>Database:</b>	EDMProd

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

Site	T7N-R80W-S18				
Site Position:		Northing:	1,456,963.79 usft	Latitude:	40° 35' 2.980 N
From:	Lat/Long	Easting:	2,745,723.26 usft	Longitude:	106° 24' 55.770 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.59 °

Well	Coalmont 0781 4-13H					
Well Position	+N/-S	0.0 usft	Northing:	1,452,412.20 usft	Latitude:	40° 34' 17.742 N
	+E/-W	0.0 usft	Easting:	2,743,150.32 usft	Longitude:	106° 25' 28.501 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	8,206.0 usft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF200510	12/31/2009	9.90	66.96	53,179

<b>Design</b>	Design #1				
<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0	
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>	
	0.0	0.0	0.0	0.00	

<b>Survey Tool Program</b>	<b>Date</b>	7/7/2016			
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
0.0	11,725.1	Design #1 (Wellbore #1)	Sperry MWD	Fixed:v2:standard declination	

<b>Planned Survey</b>										
<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Vertical Section (usft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>	
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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<b>Site:</b>	T7N-R80W-S18	<b>MD Reference:</b>	WELL @ 8222.0usft (Original Well Elev)
<b>Well:</b>	Coalmont 0781 4-13H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Design #1	<b>Database:</b>	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
<b>Start Build 2.00</b>									
2,700.0	2.00	259.99	2,700.0	-0.3	-1.7	-0.3	2.00	2.00	0.00
2,800.0	4.00	259.99	2,799.8	-1.2	-6.9	-1.2	2.00	2.00	0.00
2,900.0	6.00	259.99	2,899.5	-2.7	-15.5	-2.7	2.00	2.00	0.00
3,000.0	8.00	259.99	2,998.7	-4.8	-27.5	-4.8	2.00	2.00	0.00
3,100.0	10.00	259.99	3,097.5	-7.6	-42.9	-7.6	2.00	2.00	0.00
3,200.0	12.00	259.99	3,195.6	-10.9	-61.6	-10.9	2.00	2.00	0.00
3,300.0	14.00	259.99	3,293.1	-14.8	-83.8	-14.8	2.00	2.00	0.00
3,400.0	16.00	259.99	3,389.6	-19.3	-109.3	-19.3	2.00	2.00	0.00
3,433.4	16.67	259.99	3,421.7	-20.9	-118.5	-20.9	2.00	2.00	0.00
<b>Start 2589.5 hold at 3433.4 MD</b>									
3,500.0	16.67	259.99	3,485.5	-24.2	-137.4	-24.2	0.00	0.00	0.00
3,600.0	16.67	259.99	3,581.3	-29.2	-165.6	-29.2	0.00	0.00	0.00
3,700.0	16.67	259.99	3,677.1	-34.2	-193.8	-34.2	0.00	0.00	0.00
3,800.0	16.67	259.99	3,772.9	-39.2	-222.1	-39.2	0.00	0.00	0.00
3,900.0	16.67	259.99	3,868.7	-44.2	-250.3	-44.2	0.00	0.00	0.00
4,000.0	16.67	259.99	3,964.5	-49.2	-278.6	-49.2	0.00	0.00	0.00
4,100.0	16.67	259.99	4,060.3	-54.1	-306.8	-54.1	0.00	0.00	0.00
4,200.0	16.67	259.99	4,156.1	-59.1	-335.1	-59.1	0.00	0.00	0.00
4,300.0	16.67	259.99	4,251.9	-64.1	-363.3	-64.1	0.00	0.00	0.00
4,400.0	16.67	259.99	4,347.7	-69.1	-391.6	-69.1	0.00	0.00	0.00
4,500.0	16.67	259.99	4,443.5	-74.1	-419.8	-74.1	0.00	0.00	0.00
4,600.0	16.67	259.99	4,539.3	-79.1	-448.1	-79.1	0.00	0.00	0.00
4,700.0	16.67	259.99	4,635.1	-84.1	-476.3	-84.1	0.00	0.00	0.00
4,800.0	16.67	259.99	4,730.9	-89.0	-504.6	-89.0	0.00	0.00	0.00
4,900.0	16.67	259.99	4,826.7	-94.0	-532.8	-94.0	0.00	0.00	0.00
5,000.0	16.67	259.99	4,922.5	-99.0	-561.1	-99.0	0.00	0.00	0.00

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<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Design #1	<b>Database:</b>	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)
5,100.0	16.67	259.99	5,018.3	-104.0	-589.3	-104.0	0.00	0.00	0.00
5,200.0	16.67	259.99	5,114.1	-109.0	-617.6	-109.0	0.00	0.00	0.00
5,300.0	16.67	259.99	5,209.9	-114.0	-645.8	-114.0	0.00	0.00	0.00
5,400.0	16.67	259.99	5,305.7	-118.9	-674.0	-118.9	0.00	0.00	0.00
5,500.0	16.67	259.99	5,401.5	-123.9	-702.3	-123.9	0.00	0.00	0.00
5,600.0	16.67	259.99	5,497.3	-128.9	-730.5	-128.9	0.00	0.00	0.00
5,700.0	16.67	259.99	5,593.1	-133.9	-758.8	-133.9	0.00	0.00	0.00
5,800.0	16.67	259.99	5,688.9	-138.9	-787.0	-138.9	0.00	0.00	0.00
5,900.0	16.67	259.99	5,784.6	-143.9	-815.3	-143.9	0.00	0.00	0.00
6,000.0	16.67	259.99	5,880.4	-148.9	-843.5	-148.9	0.00	0.00	0.00
6,022.9	16.67	259.99	5,902.4	-150.0	-850.0	-150.0	0.00	0.00	0.00
<b>Start DLS 8.00 TFO 19.75</b>									
6,050.0	18.72	262.27	5,928.2	-151.3	-858.1	-151.3	8.00	7.58	8.42
6,100.0	22.57	265.42	5,975.0	-153.1	-875.7	-153.1	8.00	7.69	6.29
6,150.0	26.45	267.69	6,020.5	-154.3	-896.4	-154.3	8.00	7.78	4.53
6,200.0	30.37	269.41	6,064.4	-154.9	-920.1	-154.9	8.00	7.83	3.44
6,250.0	34.30	270.77	6,106.7	-154.8	-946.9	-154.8	8.00	7.87	2.72
6,300.0	38.25	271.88	6,147.0	-154.1	-976.4	-154.1	8.00	7.89	2.22
6,350.0	42.20	272.81	6,185.1	-152.8	-1,008.7	-152.8	8.00	7.91	1.86
6,400.0	46.17	273.61	6,221.0	-150.9	-1,043.5	-150.9	8.00	7.92	1.60
6,450.0	50.13	274.31	6,254.3	-148.3	-1,080.6	-148.3	8.00	7.93	1.40
6,500.0	54.10	274.93	6,285.0	-145.1	-1,120.0	-145.1	8.00	7.94	1.25
6,550.0	58.07	275.49	6,312.9	-141.3	-1,161.3	-141.3	8.00	7.95	1.13
6,574.2	60.00	275.75	6,325.4	-139.3	-1,181.9	-139.3	8.00	7.95	1.05
<b>Start 150.0 hold at 6574.2 MD</b>									
6,600.0	60.00	275.75	6,338.3	-137.1	-1,204.1	-137.1	0.00	0.00	0.00
6,619.4	60.00	275.75	6,348.0	-135.4	-1,220.9	-135.4	0.00	0.00	0.00
<b>Niobrara</b>									
6,700.0	60.00	275.75	6,388.3	-128.4	-1,290.3	-128.4	0.00	0.00	0.00
6,724.2	60.00	275.75	6,400.4	-126.3	-1,311.2	-126.3	0.00	0.00	0.00
<b>Start DLS 10.00 TFO 87.10</b>									
6,750.0	60.16	278.72	6,413.3	-123.5	-1,333.3	-123.5	10.00	0.64	11.51
6,800.0	60.67	284.44	6,438.0	-114.7	-1,375.9	-114.7	10.00	1.01	11.44
6,850.0	61.42	290.09	6,462.2	-101.8	-1,417.7	-101.8	10.00	1.49	11.30
6,900.0	62.39	295.65	6,485.7	-84.6	-1,458.3	-84.6	10.00	1.95	11.12
6,950.0	63.59	301.10	6,508.5	-63.4	-1,497.4	-63.4	10.00	2.39	10.90
7,000.0	64.98	306.43	6,530.2	-38.4	-1,534.9	-38.4	10.00	2.79	10.66
7,050.0	66.56	311.63	6,550.7	-9.7	-1,570.3	-9.7	10.00	3.16	10.40
7,100.0	68.31	316.70	6,569.9	22.5	-1,603.4	22.5	10.00	3.50	10.15
7,150.0	70.21	321.65	6,587.6	57.8	-1,633.9	57.8	10.00	3.80	9.89
7,200.0	72.24	326.47	6,603.7	96.2	-1,661.7	96.2	10.00	4.06	9.65
7,250.0	74.39	331.19	6,618.1	137.1	-1,686.4	137.1	10.00	4.30	9.43
7,300.0	76.64	335.80	6,630.6	180.4	-1,708.0	180.4	10.00	4.49	9.23
7,350.0	78.97	340.33	6,641.1	225.8	-1,726.3	225.8	10.00	4.66	9.06

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## Survey Report

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<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Design #1	<b>Database:</b>	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)
7,400.0	81.36	344.79	6,649.7	272.7	-1,741.0	272.7	10.00	4.79	8.91
7,450.0	83.81	349.18	6,656.1	321.0	-1,752.2	321.0	10.00	4.89	8.80
7,500.0	86.29	353.54	6,660.5	370.3	-1,759.7	370.3	10.00	4.96	8.72
7,550.0	88.79	357.88	6,662.6	420.1	-1,763.4	420.1	10.00	5.00	8.67
7,574.1	90.00	359.96	6,662.9	444.2	-1,763.9	444.2	10.00	5.02	8.65
Start 4151.0 hold at 7574.1 MD									
7,600.0	90.00	359.96	6,662.9	470.1	-1,763.9	470.1	0.00	0.00	0.00
7,700.0	90.00	359.96	6,662.9	570.1	-1,763.9	570.1	0.00	0.00	0.00
7,800.0	90.00	359.96	6,662.9	670.1	-1,764.0	670.1	0.00	0.00	0.00
7,900.0	90.00	359.96	6,662.9	770.1	-1,764.1	770.1	0.00	0.00	0.00
8,000.0	90.00	359.96	6,662.9	870.1	-1,764.1	870.1	0.00	0.00	0.00
8,100.0	90.00	359.96	6,662.9	970.1	-1,764.2	970.1	0.00	0.00	0.00
8,200.0	90.00	359.96	6,662.9	1,070.1	-1,764.2	1,070.1	0.00	0.00	0.00
8,300.0	90.00	359.96	6,662.9	1,170.1	-1,764.3	1,170.1	0.00	0.00	0.00
8,400.0	90.00	359.96	6,662.9	1,270.1	-1,764.4	1,270.1	0.00	0.00	0.00
8,500.0	90.00	359.96	6,662.9	1,370.1	-1,764.4	1,370.1	0.00	0.00	0.00
8,600.0	90.00	359.96	6,662.9	1,470.1	-1,764.5	1,470.1	0.00	0.00	0.00
8,700.0	90.00	359.96	6,662.9	1,570.1	-1,764.6	1,570.1	0.00	0.00	0.00
8,800.0	90.00	359.96	6,662.9	1,670.1	-1,764.6	1,670.1	0.00	0.00	0.00
8,900.0	90.00	359.96	6,662.9	1,770.1	-1,764.7	1,770.1	0.00	0.00	0.00
9,000.0	90.00	359.96	6,662.9	1,870.1	-1,764.8	1,870.1	0.00	0.00	0.00
9,100.0	90.00	359.96	6,662.9	1,970.1	-1,764.8	1,970.1	0.00	0.00	0.00
9,200.0	90.00	359.96	6,662.9	2,070.1	-1,764.9	2,070.1	0.00	0.00	0.00
9,300.0	90.00	359.96	6,662.9	2,170.1	-1,764.9	2,170.1	0.00	0.00	0.00
9,400.0	90.00	359.96	6,662.9	2,270.1	-1,765.0	2,270.1	0.00	0.00	0.00
9,500.0	90.00	359.96	6,662.9	2,370.1	-1,765.1	2,370.1	0.00	0.00	0.00
9,600.0	90.00	359.96	6,662.9	2,470.1	-1,765.1	2,470.1	0.00	0.00	0.00
9,700.0	90.00	359.96	6,662.9	2,570.1	-1,765.2	2,570.1	0.00	0.00	0.00
9,800.0	90.00	359.96	6,662.9	2,670.1	-1,765.3	2,670.1	0.00	0.00	0.00
9,900.0	90.00	359.96	6,662.9	2,770.1	-1,765.3	2,770.1	0.00	0.00	0.00
10,000.0	90.00	359.96	6,662.9	2,870.1	-1,765.4	2,870.1	0.00	0.00	0.00
10,100.0	90.00	359.96	6,662.9	2,970.1	-1,765.4	2,970.1	0.00	0.00	0.00
10,200.0	90.00	359.96	6,662.9	3,070.1	-1,765.5	3,070.1	0.00	0.00	0.00
10,300.0	90.00	359.96	6,662.9	3,170.1	-1,765.6	3,170.1	0.00	0.00	0.00
10,400.0	90.00	359.96	6,662.9	3,270.1	-1,765.6	3,270.1	0.00	0.00	0.00
10,500.0	90.00	359.96	6,662.9	3,370.1	-1,765.7	3,370.1	0.00	0.00	0.00
10,600.0	90.00	359.96	6,662.9	3,470.1	-1,765.8	3,470.1	0.00	0.00	0.00
10,700.0	90.00	359.96	6,662.9	3,570.1	-1,765.8	3,570.1	0.00	0.00	0.00
10,800.0	90.00	359.96	6,662.9	3,670.1	-1,765.9	3,670.1	0.00	0.00	0.00
10,900.0	90.00	359.96	6,662.9	3,770.1	-1,765.9	3,770.1	0.00	0.00	0.00
11,000.0	90.00	359.96	6,662.9	3,870.1	-1,766.0	3,870.1	0.00	0.00	0.00
11,100.0	90.00	359.96	6,662.9	3,970.1	-1,766.1	3,970.1	0.00	0.00	0.00
11,200.0	90.00	359.96	6,662.9	4,070.1	-1,766.1	4,070.1	0.00	0.00	0.00
11,300.0	90.00	359.96	6,662.9	4,170.1	-1,766.2	4,170.1	0.00	0.00	0.00

# SandRidge Energy

## Survey Report

<b>Company:</b>	SandRidge Energy	<b>Local Co-ordinate Reference:</b>	Well Coalmont 0781 4-13H
<b>Project:</b>	North Park Basin	<b>TVD Reference:</b>	WELL @ 8222.0usft (Original Well Elev)
<b>Site:</b>	T7N-R80W-S18	<b>MD Reference:</b>	WELL @ 8222.0usft (Original Well Elev)
<b>Well:</b>	Coalmont 0781 4-13H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Design #1	<b>Database:</b>	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	359.96	6,662.9	4,270.1	-1,766.3	4,270.1	0.00	0.00	0.00
11,500.0	90.00	359.96	6,662.9	4,370.1	-1,766.3	4,370.1	0.00	0.00	0.00
11,600.0	90.00	359.96	6,662.9	4,470.1	-1,766.4	4,470.1	0.00	0.00	0.00
11,700.0	90.00	359.96	6,662.9	4,570.1	-1,766.5	4,570.1	0.00	0.00	0.00
11,725.1	90.00	359.96	6,662.9	4,595.2	-1,766.5	4,595.2	0.00	0.00	0.00
TD at 11725.1									

### 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									
Coalmont 4-13H	0.00	0.00	6,663.0	4,595.2	-1,766.5	1,457,007.39	2,741,383.85	40° 35' 2.964 N	106° 25' 52.016 W
- plan misses target center by 0.1usft at 11725.1usft MD (6662.9 TVD, 4595.2 N, -1766.5 E)									
- Point									

### Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
6,619.4	6,348.0	Niobrara		0.00	

### Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2600	2600	0	0	Start Build 2.00
3433	3422	-21	-119	Start 2589.5 hold at 3433.4 MD
6023	5902	-150	-850	Start DLS 8.00 TFO 19.75
6574	6325	-139	-1182	Start 150.0 hold at 6574.2 MD
6724	6400	-126	-1311	Start DLS 10.00 TFO 87.10
7574	6663	444	-1764	Start 4151.0 hold at 7574.1 MD
11,725	6663	4595	-1766	TD at 11725.1

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_