

# **SandRidge Energy**

**North Park Basin**

**T7N-R80W-S18**

**Coalmont 0781 5-13H**

**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 5-13H
<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 5-13H	<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		

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

<b>Well</b>	Coalmont 0781 5-13H		
<b>Well Position</b>	<b>+N/-S</b>	0.0 usft	<b>Northing:</b>
	<b>+E/-W</b>	0.0 usft	<b>Easting:</b>
<b>Position Uncertainty</b>	0.0 usft	<b>Wellhead Elevation:</b>	0.0 usft
		<b>Latitude:</b>	40° 34' 17.743 N
		<b>Longitude:</b>	106° 25' 28.694 W
		<b>Ground Level:</b>	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	11,833.6	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 5-13H	<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
<b>Start Build 2.00</b>									
2,600.0	2.00	270.00	2,600.0	0.0	-1.7	0.0	2.00	2.00	0.00
2,700.0	4.00	270.00	2,699.8	0.0	-7.0	0.0	2.00	2.00	0.00
2,800.0	6.00	270.00	2,799.5	0.0	-15.7	0.0	2.00	2.00	0.00
2,900.0	8.00	270.00	2,898.7	0.0	-27.9	0.0	2.00	2.00	0.00
3,000.0	10.00	270.00	2,997.5	0.0	-43.5	0.0	2.00	2.00	0.00
3,100.0	12.00	270.00	3,095.6	0.0	-62.6	0.0	2.00	2.00	0.00
3,200.0	14.00	270.00	3,193.1	0.0	-85.1	0.0	2.00	2.00	0.00
3,300.0	16.00	270.00	3,289.6	0.0	-111.0	0.0	2.00	2.00	0.00
3,400.0	18.00	270.00	3,385.3	0.0	-140.2	0.0	2.00	2.00	0.00
3,500.0	20.00	270.00	3,479.8	0.0	-172.8	0.0	2.00	2.00	0.00
3,600.0	22.00	270.00	3,573.2	0.0	-208.6	0.0	2.00	2.00	0.00
3,700.0	24.00	270.00	3,665.2	0.0	-247.7	0.0	2.00	2.00	0.00
3,800.0	26.00	270.00	3,755.8	0.0	-289.9	0.0	2.00	2.00	0.00
3,900.0	28.00	270.00	3,844.9	0.0	-335.3	0.0	2.00	2.00	0.00
3,918.3	28.37	270.00	3,861.1	0.0	-344.0	0.0	2.00	2.00	0.00
<b>Start 2455.4 hold at 3918.3 MD</b>									
4,000.0	28.37	270.00	3,933.0	0.0	-382.8	0.0	0.00	0.00	0.00
4,100.0	28.37	270.00	4,021.0	0.0	-430.3	0.0	0.00	0.00	0.00
4,200.0	28.37	270.00	4,108.9	0.0	-477.8	0.0	0.00	0.00	0.00
4,300.0	28.37	270.00	4,196.9	0.0	-525.3	0.0	0.00	0.00	0.00
4,400.0	28.37	270.00	4,284.9	0.0	-572.8	0.0	0.00	0.00	0.00
4,500.0	28.37	270.00	4,372.9	0.0	-620.3	0.0	0.00	0.00	0.00
4,600.0	28.37	270.00	4,460.9	0.0	-667.8	0.0	0.00	0.00	0.00
4,700.0	28.37	270.00	4,548.9	0.0	-715.4	0.0	0.00	0.00	0.00
4,800.0	28.37	270.00	4,636.9	0.0	-762.9	0.0	0.00	0.00	0.00
4,900.0	28.37	270.00	4,724.9	0.0	-810.4	0.0	0.00	0.00	0.00
5,000.0	28.37	270.00	4,812.9	0.0	-857.9	0.0	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	28.37	270.00	4,900.9	0.0	-905.4	0.0	0.00	0.00	0.00
5,200.0	28.37	270.00	4,988.9	0.0	-952.9	0.0	0.00	0.00	0.00
5,300.0	28.37	270.00	5,076.9	0.0	-1,000.4	0.0	0.00	0.00	0.00
5,400.0	28.37	270.00	5,164.9	0.0	-1,047.9	0.0	0.00	0.00	0.00
5,500.0	28.37	270.00	5,252.9	0.0	-1,095.4	0.0	0.00	0.00	0.00
5,600.0	28.37	270.00	5,340.9	0.0	-1,142.9	0.0	0.00	0.00	0.00
5,700.0	28.37	270.00	5,428.8	0.0	-1,190.5	0.0	0.00	0.00	0.00
5,800.0	28.37	270.00	5,516.8	0.0	-1,238.0	0.0	0.00	0.00	0.00
5,900.0	28.37	270.00	5,604.8	0.0	-1,285.5	0.0	0.00	0.00	0.00
6,000.0	28.37	270.00	5,692.8	0.0	-1,333.0	0.0	0.00	0.00	0.00
6,100.0	28.37	270.00	5,780.8	0.0	-1,380.5	0.0	0.00	0.00	0.00
6,200.0	28.37	270.00	5,868.8	0.0	-1,428.0	0.0	0.00	0.00	0.00
6,300.0	28.37	270.00	5,956.8	0.0	-1,475.5	0.0	0.00	0.00	0.00
6,373.6	28.37	270.00	6,021.6	0.0	-1,510.5	0.0	0.00	0.00	0.00
<b>Start DLS 8.00 TFO 0.00</b>									
6,400.0	30.47	270.00	6,044.6	0.0	-1,523.4	0.0	8.00	8.00	0.00
6,450.0	34.47	270.00	6,086.7	0.0	-1,550.3	0.0	8.00	8.00	0.00
6,500.0	38.47	270.00	6,126.9	0.0	-1,580.0	0.0	8.00	8.00	0.00
6,550.0	42.47	270.00	6,165.0	0.0	-1,612.5	0.0	8.00	8.00	0.00
6,600.0	46.47	270.00	6,200.6	0.0	-1,647.5	0.0	8.00	8.00	0.00
6,650.0	50.47	270.00	6,233.8	0.0	-1,684.9	0.0	8.00	8.00	0.00
6,700.0	54.47	270.00	6,264.2	0.0	-1,724.5	0.0	8.00	8.00	0.00
6,750.0	58.47	270.00	6,291.8	0.0	-1,766.2	0.0	8.00	8.00	0.00
6,769.1	60.00	270.00	6,301.6	0.0	-1,782.6	0.0	8.00	8.00	0.00
<b>Start 150.0 hold at 6769.1 MD</b>									
6,800.0	60.00	270.00	6,317.0	0.0	-1,809.4	0.0	0.00	0.00	0.00
6,861.9	60.00	270.00	6,348.0	0.0	-1,863.0	0.0	0.00	0.00	0.00
<b>Niobrara</b>									
6,900.0	60.00	270.00	6,367.0	0.0	-1,896.0	0.0	0.00	0.00	0.00
6,919.1	60.00	270.00	6,376.6	0.0	-1,912.5	0.0	0.00	0.00	0.00
<b>Start DLS 10.00 TFO 89.98</b>									
6,950.0	60.05	273.57	6,392.0	0.8	-1,939.3	0.8	10.00	0.16	11.54
7,000.0	60.33	279.32	6,416.9	5.7	-1,982.4	5.7	10.00	0.56	11.51
7,050.0	60.86	285.03	6,441.5	14.9	-2,024.9	14.9	10.00	1.06	11.42
7,100.0	61.63	290.67	6,465.5	28.3	-2,066.6	28.3	10.00	1.54	11.27
7,150.0	62.62	296.21	6,488.9	45.9	-2,107.1	45.9	10.00	1.99	11.09
7,200.0	63.84	301.65	6,511.5	67.5	-2,146.2	67.5	10.00	2.42	10.87
7,250.0	65.25	306.96	6,533.0	92.9	-2,183.5	92.9	10.00	2.82	10.63
7,300.0	66.84	312.15	6,553.3	122.0	-2,218.7	122.0	10.00	3.19	10.37
7,350.0	68.60	317.21	6,572.3	154.6	-2,251.5	154.6	10.00	3.52	10.12
7,400.0	70.50	322.14	6,589.7	190.3	-2,281.8	190.3	10.00	3.81	9.87
7,450.0	72.54	326.95	6,605.6	228.9	-2,309.3	228.9	10.00	4.07	9.63
7,500.0	74.69	331.66	6,619.7	270.1	-2,333.8	270.1	10.00	4.30	9.41
7,550.0	76.94	336.27	6,632.0	313.7	-2,355.0	313.7	10.00	4.49	9.22

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## Survey Report

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<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)
7,600.0	79.26	340.79	6,642.3	359.2	-2,372.9	359.2	10.00	4.65	9.05
7,650.0	81.66	345.24	6,650.6	406.3	-2,387.3	406.3	10.00	4.78	8.91
7,700.0	84.10	349.64	6,656.8	454.7	-2,398.1	454.7	10.00	4.88	8.80
7,750.0	86.57	354.00	6,660.8	504.1	-2,405.2	504.1	10.00	4.95	8.72
7,800.0	89.06	358.34	6,662.7	553.9	-2,408.5	553.9	10.00	4.99	8.67
7,818.7	90.00	359.96	6,662.9	572.6	-2,408.8	572.6	10.00	5.00	8.66
Start 4014.9 hold at 7818.7 MD									
7,900.0	90.00	359.96	6,662.9	653.9	-2,408.9	653.9	0.00	0.00	0.00
8,000.0	90.00	359.96	6,662.9	753.9	-2,408.9	753.9	0.00	0.00	0.00
8,100.0	90.00	359.96	6,662.9	853.9	-2,409.0	853.9	0.00	0.00	0.00
8,200.0	90.00	359.96	6,662.9	953.9	-2,409.1	953.9	0.00	0.00	0.00
8,300.0	90.00	359.96	6,662.9	1,053.9	-2,409.1	1,053.9	0.00	0.00	0.00
8,400.0	90.00	359.96	6,662.9	1,153.9	-2,409.2	1,153.9	0.00	0.00	0.00
8,500.0	90.00	359.96	6,662.9	1,253.9	-2,409.3	1,253.9	0.00	0.00	0.00
8,600.0	90.00	359.96	6,662.9	1,353.9	-2,409.3	1,353.9	0.00	0.00	0.00
8,700.0	90.00	359.96	6,662.9	1,453.9	-2,409.4	1,453.9	0.00	0.00	0.00
8,800.0	90.00	359.96	6,662.9	1,553.9	-2,409.5	1,553.9	0.00	0.00	0.00
8,900.0	90.00	359.96	6,662.9	1,653.9	-2,409.5	1,653.9	0.00	0.00	0.00
9,000.0	90.00	359.96	6,662.9	1,753.9	-2,409.6	1,753.9	0.00	0.00	0.00
9,100.0	90.00	359.96	6,662.9	1,853.9	-2,409.7	1,853.9	0.00	0.00	0.00
9,200.0	90.00	359.96	6,662.9	1,953.9	-2,409.7	1,953.9	0.00	0.00	0.00
9,300.0	90.00	359.96	6,662.9	2,053.9	-2,409.8	2,053.9	0.00	0.00	0.00
9,400.0	90.00	359.96	6,662.9	2,153.9	-2,409.9	2,153.9	0.00	0.00	0.00
9,500.0	90.00	359.96	6,662.9	2,253.9	-2,409.9	2,253.9	0.00	0.00	0.00
9,600.0	90.00	359.96	6,662.9	2,353.9	-2,410.0	2,353.9	0.00	0.00	0.00
9,700.0	90.00	359.96	6,662.9	2,453.9	-2,410.1	2,453.9	0.00	0.00	0.00
9,800.0	90.00	359.96	6,662.9	2,553.9	-2,410.2	2,553.9	0.00	0.00	0.00
9,900.0	90.00	359.96	6,662.9	2,653.9	-2,410.2	2,653.9	0.00	0.00	0.00
10,000.0	90.00	359.96	6,662.9	2,753.9	-2,410.3	2,753.9	0.00	0.00	0.00
10,100.0	90.00	359.96	6,662.9	2,853.9	-2,410.4	2,853.9	0.00	0.00	0.00
10,200.0	90.00	359.96	6,662.9	2,953.9	-2,410.4	2,953.9	0.00	0.00	0.00
10,300.0	90.00	359.96	6,662.9	3,053.9	-2,410.5	3,053.9	0.00	0.00	0.00
10,400.0	90.00	359.96	6,662.9	3,153.9	-2,410.6	3,153.9	0.00	0.00	0.00
10,500.0	90.00	359.96	6,662.9	3,253.9	-2,410.6	3,253.9	0.00	0.00	0.00
10,600.0	90.00	359.96	6,662.9	3,353.9	-2,410.7	3,353.9	0.00	0.00	0.00
10,700.0	90.00	359.96	6,662.9	3,453.9	-2,410.8	3,453.9	0.00	0.00	0.00
10,800.0	90.00	359.96	6,662.9	3,553.9	-2,410.8	3,553.9	0.00	0.00	0.00
10,900.0	90.00	359.96	6,662.9	3,653.9	-2,410.9	3,653.9	0.00	0.00	0.00
11,000.0	90.00	359.96	6,662.9	3,753.9	-2,411.0	3,753.9	0.00	0.00	0.00
11,100.0	90.00	359.96	6,662.9	3,853.9	-2,411.0	3,853.9	0.00	0.00	0.00
11,200.0	90.00	359.96	6,662.9	3,953.9	-2,411.1	3,953.9	0.00	0.00	0.00
11,300.0	90.00	359.96	6,662.9	4,053.9	-2,411.2	4,053.9	0.00	0.00	0.00
11,400.0	90.00	359.96	6,662.9	4,153.9	-2,411.2	4,153.9	0.00	0.00	0.00
11,500.0	90.00	359.96	6,662.9	4,253.9	-2,411.3	4,253.9	0.00	0.00	0.00

# SandRidge Energy

## Survey Report

<b>Company:</b>	SandRidge Energy	<b>Local Co-ordinate Reference:</b>	Well Coalmont 0781 5-13H
<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 5-13H	<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)
11,600.0	90.00	359.96	6,662.9	4,353.9	-2,411.4	4,353.9	0.00	0.00	0.00
11,700.0	90.00	359.96	6,662.9	4,453.9	-2,411.4	4,453.9	0.00	0.00	0.00
11,800.0	90.00	359.96	6,662.9	4,553.9	-2,411.5	4,553.9	0.00	0.00	0.00
11,833.6	90.00	359.96	6,662.9	4,587.5	-2,411.5	4,587.5	0.00	0.00	0.00
TD at 11833.6									

### 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
Coalmont 5-13H - plan misses target center by 0.1usft at 11833.6usft MD (6662.9 TVD, 4587.5 N, -2411.5 E) - Point	0.00	0.00	6,663.0	4,587.5	-2,411.5	1,456,999.96	2,740,723.94	40° 35' 2.822 N	106° 26' 0.568 W

### Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
6,861.9	6,348.0	Niobrara		0.00	

### Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2500	2500	0	0	Start Build 2.00
3918	3861	0	-344	Start 2455.4 hold at 3918.3 MD
6374	6022	0	-1510	Start DLS 8.00 TFO 0.00
6769	6302	0	-1783	Start 150.0 hold at 6769.1 MD
6919	6377	0	-1913	Start DLS 10.00 TFO 89.98
7819	6663	573	-2409	Start 4014.9 hold at 7818.7 MD
11,834	6663	4587	-2412	TD at 11833.6

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