

Company Name: SandRidge Energy

PRU 0880 2-29H17

Jackson County, Colorado

Rig:

Created By: Shane Robbins

Date: 7/2/2018

PRU 0880 2-29H17

Jackson County, Colorado

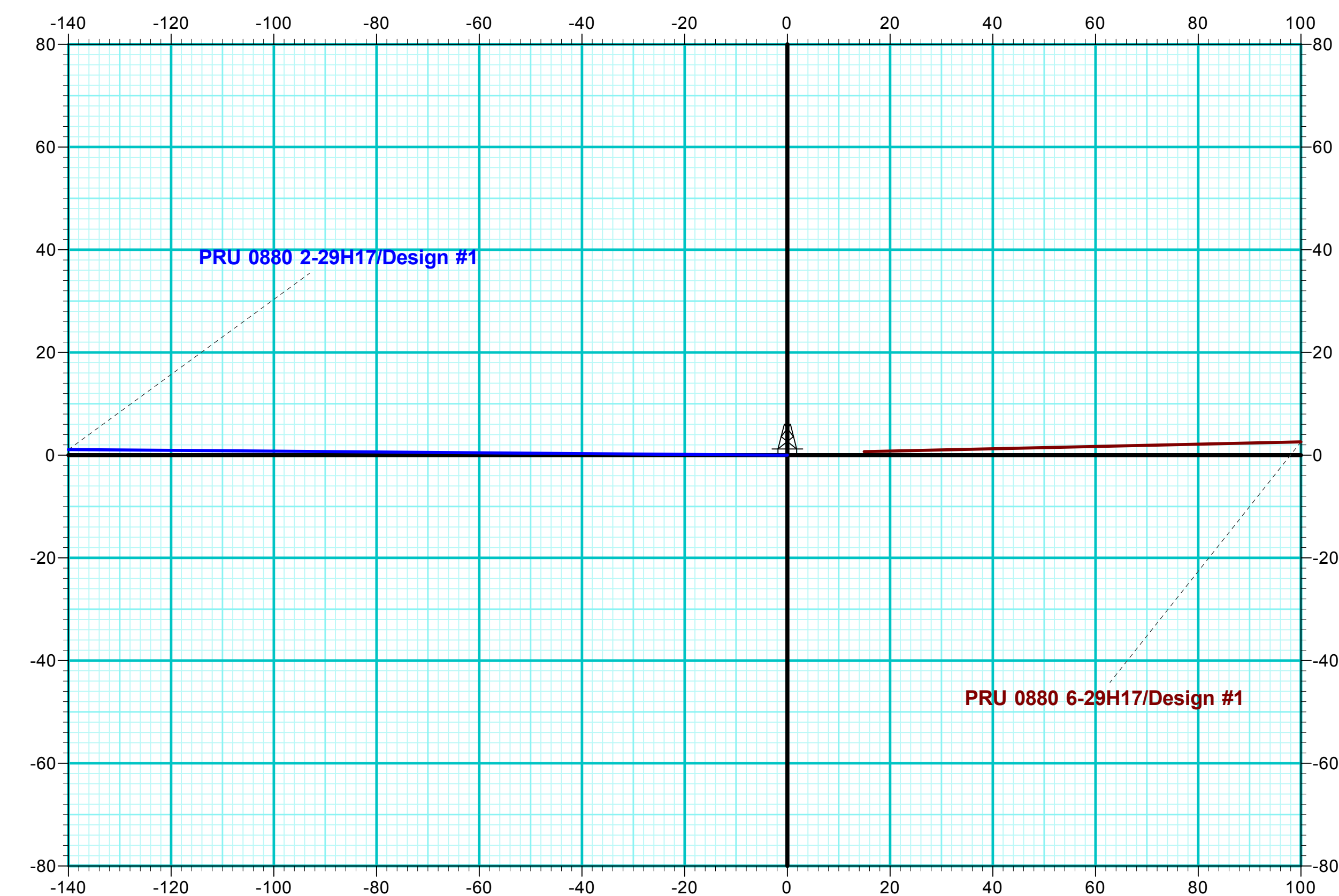
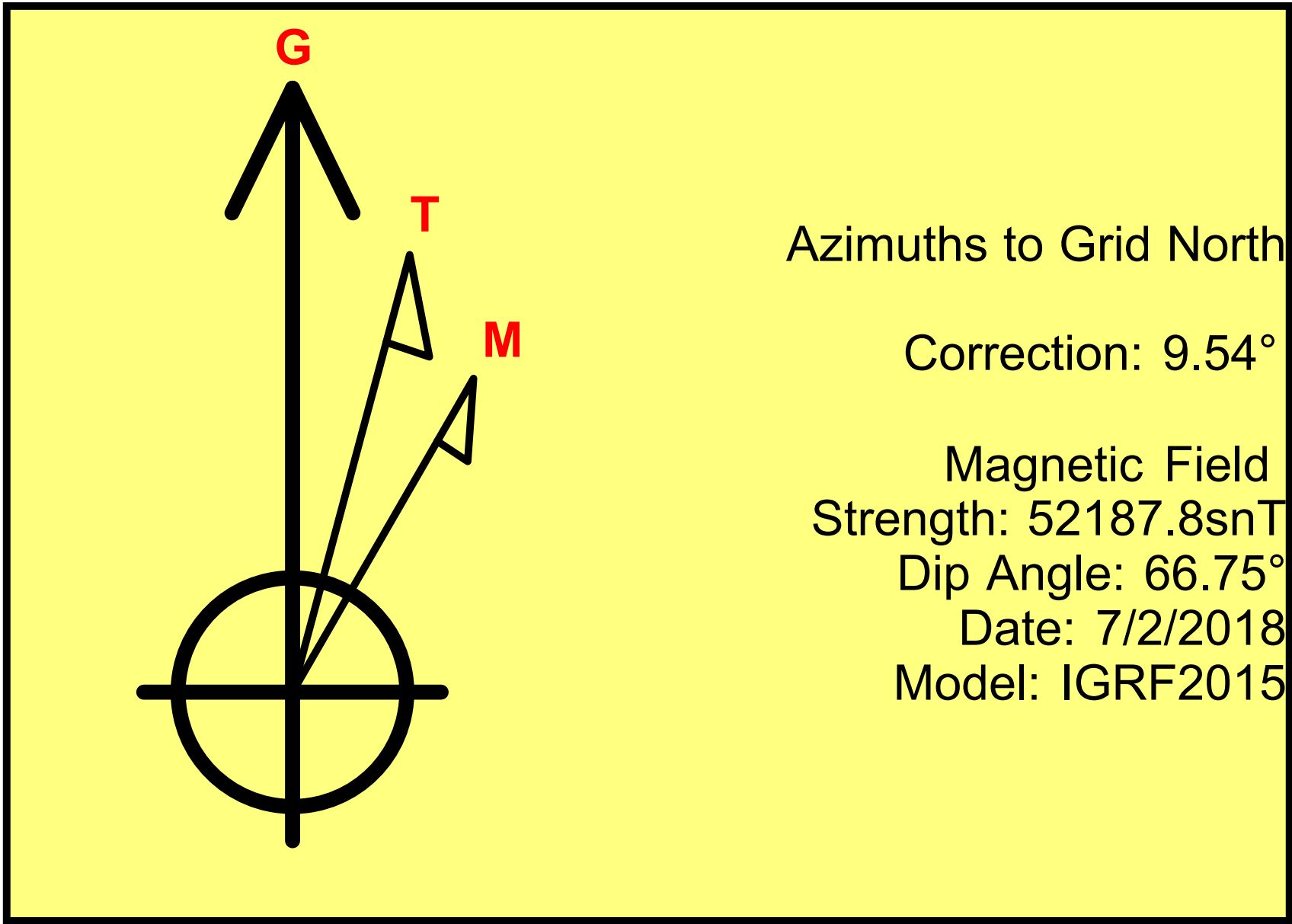
Q180*** & RM-180***

Design #1



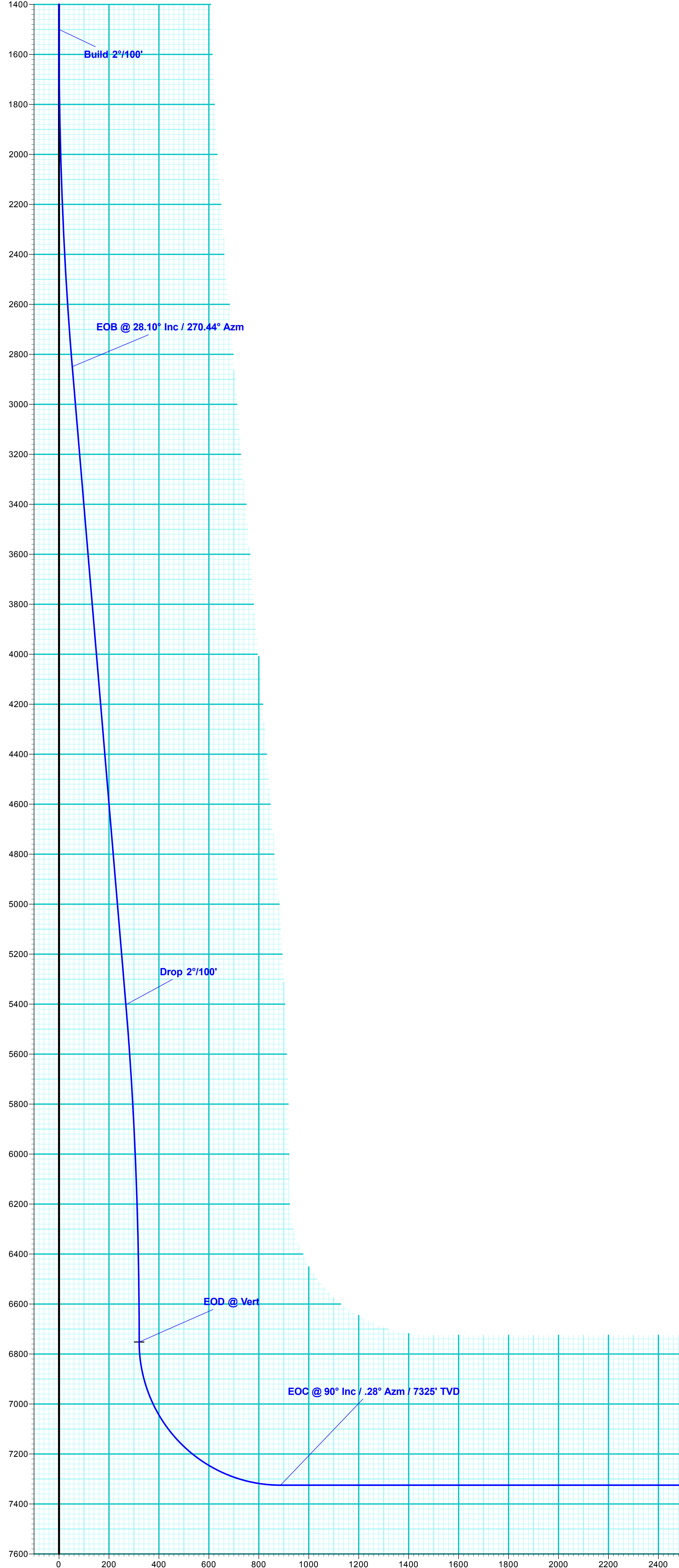
WELL DETAILS: PRU 0880 2-29H17						
			8084.0			
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.0	0.0	1473562.12	2751458.44	40° 37' 47.567 N	106° 23' 43.612 W	

PROJECT DETAILS: Jackson County, Colorado	
Geodetic System:	US State Plane 1983
Datum:	North American Datum 1983
Ellipsoid:	GRS 1980
Zone:	Colorado Northern Zone
System Datum:	Mean Sea Level

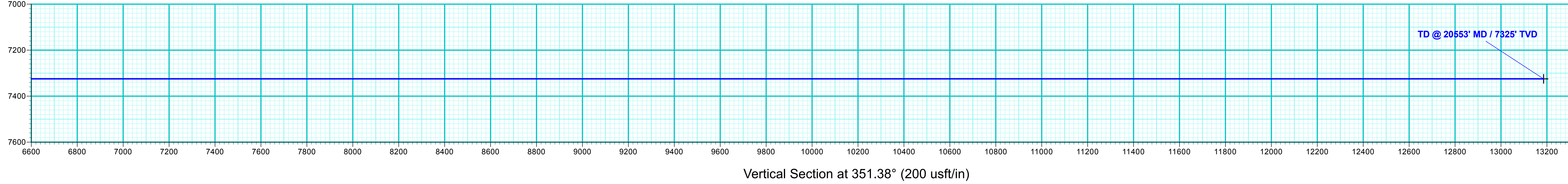


SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0	Build 2"/100'
3	2905.2	28.10	270.44	2849.5	2.6	-337.7	2.00	270.44	53.2	EOB @ 28.10° Inc / 270.44° Azm
4	5799.4	28.10	270.44	5402.5	13.2	-1701.1	0.00	0.00	267.9	Drop 2"/100'
5	7204.6	0.00	360.00	6752.0	15.8	-2038.8	2.00	180.00	321.1	EOD @ Vert
6	8104.6	90.00	0.28	7325.0	588.8	-2036.0	10.00	0.28	887.1	EOC @ 90° Inc / 28° Azm / 7325' TVD
7	20552.8	90.00	0.28	7325.0	13036.9	-1975.5	0.00	0.00	15185.7	TD @ 20553' MD / 7325' TVD

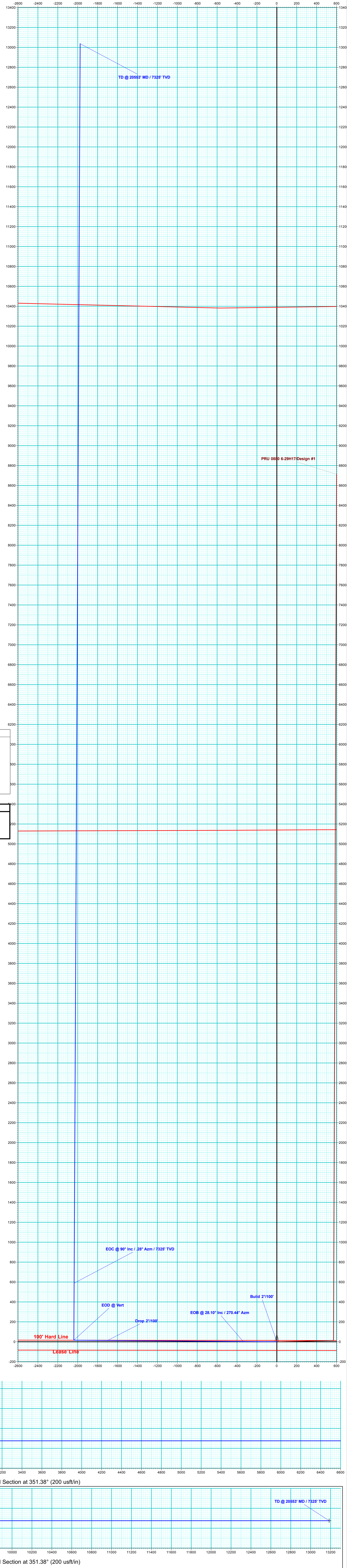
DESIGN TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
VP PRU 0880 2-29H17 - plan hits target center	6752.0	15.8	-2038.8	1473577.93	2749419.62	40° 37' 47.519 N	106° 24' 10.056 W	
PBHL PRU 0880 2-29H17 - plan hits target center	7325.0	13036.9	-1975.5	1486599.01	2749482.96	40° 39' 56.186 N	106° 24' 10.954 W	



Vertical Section at 351.38° (200 usft/in)



Vertical Section at 351.38° (200 usft/in)



SandRidge Energy

**Jackson County, Colorado
Sec 29, T8N, R80W, 6th PM
PRU 0880 2-29H17**

Wellbore #1

Plan: Design #1

QES Well Planning Report

02 July, 2018



Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well PRU 0880 2-29H17
Company:	SandRidge Energy	TVD Reference:	WELL @ 8109.0usft
Project:	Jackson County, Colorado	MD Reference:	WELL @ 8109.0usft
Site:	Sec 29, T8N, R80W, 6th PM	North Reference:	Grid
Well:	PRU 0880 2-29H17	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	Jackson County, Colorado		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site		Sec 29, T8N, R80W, 6th PM			
Site Position:		Northing:	1,473,562.81 usft	Latitude:	40° 37' 47.575 N
From:	Map	Easting:	2,751,473.40 usft	Longitude:	106° 23' 43.418 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.58 °

Well	PRU 0880 2-29H17					
Well Position	+N/-S	-0.7 usft	Northing:	1,473,562.12 usft	Latitude:	40° 37' 47.567 N
	+E/-W	-15.0 usft	Easting:	2,751,458.44 usft	Longitude:	106° 23' 43.612 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	8,084.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	7/2/2018	8.96	66.75	52,187.77579553

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	351.38

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,905.2	28.10	270.44	2,849.5	2.6	-337.7	2.00	2.00	0.00	270.44	
5,799.4	28.10	270.44	5,402.5	13.2	-1,701.1	0.00	0.00	0.00	0.00	
7,204.6	0.00	360.00	6,752.0	15.8	-2,038.8	2.00	-2.00	0.00	180.00	VP PRU 0880 2-29I
8,104.6	90.00	0.28	7,325.0	588.8	-2,036.0	10.00	10.00	0.03	0.28	
20,552.8	90.00	0.28	7,325.0	13,036.9	-1,975.5	0.00	0.00	0.00	0.00	PBHL PRU 0880 2-

Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well PRU 0880 2-29H17
Company:	SandRidge Energy	TVD Reference:	WELL @ 8109.0usft
Project:	Jackson County, Colorado	MD Reference:	WELL @ 8109.0usft
Site:	Sec 29, T8N, R80W, 6th PM	North Reference:	Grid
Well:	PRU 0880 2-29H17	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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
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
Build 2°/100'									
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	2.00	270.44	1,600.0	0.0	-1.7	0.3	2.00	2.00	0.00
1,700.0	4.00	270.44	1,699.8	0.1	-7.0	1.1	2.00	2.00	0.00
1,800.0	6.00	270.44	1,799.5	0.1	-15.7	2.5	2.00	2.00	0.00
1,900.0	8.00	270.44	1,898.7	0.2	-27.9	4.4	2.00	2.00	0.00
2,000.0	10.00	270.44	1,997.5	0.3	-43.5	6.9	2.00	2.00	0.00
2,100.0	12.00	270.44	2,095.6	0.5	-62.6	9.9	2.00	2.00	0.00
2,200.0	14.00	270.44	2,193.1	0.7	-85.1	13.4	2.00	2.00	0.00
2,300.0	16.00	270.44	2,289.6	0.9	-111.0	17.5	2.00	2.00	0.00
2,400.0	18.00	270.44	2,385.3	1.1	-140.2	22.1	2.00	2.00	0.00
2,500.0	20.00	270.44	2,479.8	1.3	-172.8	27.2	2.00	2.00	0.00
2,600.0	22.00	270.44	2,573.2	1.6	-208.6	32.9	2.00	2.00	0.00
2,700.0	24.00	270.44	2,665.2	1.9	-247.7	39.0	2.00	2.00	0.00
2,800.0	26.00	270.44	2,755.8	2.2	-289.9	45.7	2.00	2.00	0.00
EOB @ 28.10° Inc / 270.44° Azm									
2,905.2	28.10	270.44	2,849.5	2.6	-337.7	53.2	2.00	2.00	0.00
3,000.0	28.10	270.44	2,933.1	3.0	-382.4	60.2	0.00	0.00	0.00
3,100.0	28.10	270.44	3,021.4	3.3	-429.5	67.6	0.00	0.00	0.00
3,200.0	28.10	270.44	3,109.6	3.7	-476.6	75.1	0.00	0.00	0.00
3,300.0	28.10	270.44	3,197.8	4.1	-523.7	82.5	0.00	0.00	0.00
3,400.0	28.10	270.44	3,286.0	4.4	-570.8	89.9	0.00	0.00	0.00
3,500.0	28.10	270.44	3,374.2	4.8	-617.9	97.3	0.00	0.00	0.00
LNCE									
3,529.2	28.10	270.44	3,400.0	4.9	-631.7	99.5	0.00	0.00	0.00
3,600.0	28.10	270.44	3,462.4	5.2	-665.0	104.7	0.00	0.00	0.00
3,700.0	28.10	270.44	3,550.6	5.5	-712.2	112.2	0.00	0.00	0.00
3,800.0	28.10	270.44	3,638.8	5.9	-759.3	119.6	0.00	0.00	0.00
3,900.0	28.10	270.44	3,727.0	6.3	-806.4	127.0	0.00	0.00	0.00
4,000.0	28.10	270.44	3,815.2	6.6	-853.5	134.4	0.00	0.00	0.00
4,100.0	28.10	270.44	3,903.5	7.0	-900.6	141.8	0.00	0.00	0.00
4,200.0	28.10	270.44	3,991.7	7.3	-947.7	149.2	0.00	0.00	0.00
4,300.0	28.10	270.44	4,079.9	7.7	-994.8	156.7	0.00	0.00	0.00
4,400.0	28.10	270.44	4,168.1	8.1	-1,041.9	164.1	0.00	0.00	0.00
FXHLS									
4,470.2	28.10	270.44	4,230.0	8.3	-1,074.9	169.3	0.00	0.00	0.00
4,500.0	28.10	270.44	4,256.3	8.4	-1,089.0	171.5	0.00	0.00	0.00
4,600.0	28.10	270.44	4,344.5	8.8	-1,136.1	178.9	0.00	0.00	0.00
4,700.0	28.10	270.44	4,432.7	9.2	-1,183.2	186.3	0.00	0.00	0.00

Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well PRU 0880 2-29H17
Company:	SandRidge Energy	TVD Reference:	WELL @ 8109.0usft
Project:	Jackson County, Colorado	MD Reference:	WELL @ 8109.0usft
Site:	Sec 29, T8N, R80W, 6th PM	North Reference:	Grid
Well:	PRU 0880 2-29H17	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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)
PIRR									
4,719.6	28.10	270.44	4,450.0	9.2	-1,192.4	187.8	0.00	0.00	0.00
4,800.0	28.10	270.44	4,520.9	9.5	-1,230.3	193.8	0.00	0.00	0.00
4,900.0	28.10	270.44	4,609.1	9.9	-1,277.4	201.2	0.00	0.00	0.00
5,000.0	28.10	270.44	4,697.4	10.3	-1,324.5	208.6	0.00	0.00	0.00
5,100.0	28.10	270.44	4,785.6	10.6	-1,371.6	216.0	0.00	0.00	0.00
5,200.0	28.10	270.44	4,873.8	11.0	-1,418.7	223.4	0.00	0.00	0.00
5,300.0	28.10	270.44	4,962.0	11.4	-1,465.8	230.8	0.00	0.00	0.00
5,400.0	28.10	270.44	5,050.2	11.7	-1,512.9	238.3	0.00	0.00	0.00
5,500.0	28.10	270.44	5,138.4	12.1	-1,560.0	245.7	0.00	0.00	0.00
SSSX									
5,535.8	28.10	270.44	5,170.0	12.2	-1,576.9	248.3	0.00	0.00	0.00
5,600.0	28.10	270.44	5,226.6	12.5	-1,607.1	253.1	0.00	0.00	0.00
5,700.0	28.10	270.44	5,314.8	12.8	-1,654.2	260.5	0.00	0.00	0.00
Drop 2°/100'									
5,799.4	28.10	270.44	5,402.5	13.2	-1,701.1	267.9	0.00	0.00	0.00
5,900.0	26.09	270.44	5,492.1	13.5	-1,746.9	275.1	2.00	-2.00	0.00
6,000.0	24.09	270.44	5,582.6	13.9	-1,789.3	281.8	2.00	-2.00	0.00
SNNN									
6,095.0	22.19	270.44	5,670.0	14.2	-1,826.6	287.7	2.00	-2.00	0.00
6,100.0	22.09	270.44	5,674.6	14.2	-1,828.5	288.0	2.00	-2.00	0.00
6,200.0	20.09	270.44	5,767.9	14.5	-1,864.5	293.6	2.00	-2.00	0.00
6,300.0	18.09	270.44	5,862.4	14.7	-1,897.2	298.8	2.00	-2.00	0.00
PIRRL									
6,308.0	17.93	270.44	5,870.0	14.7	-1,899.7	299.2	2.00	-2.00	0.00
6,400.0	16.09	270.44	5,958.0	14.9	-1,926.6	303.4	2.00	-2.00	0.00
6,500.0	14.09	270.44	6,054.5	15.1	-1,952.6	307.5	2.00	-2.00	0.00
6,600.0	12.09	270.44	6,151.9	15.3	-1,975.3	311.1	2.00	-2.00	0.00
6,700.0	10.09	270.44	6,250.0	15.5	-1,994.5	314.1	2.00	-2.00	0.00
6,800.0	8.09	270.44	6,348.8	15.6	-2,010.3	316.6	2.00	-2.00	0.00
6,900.0	6.09	270.44	6,448.0	15.7	-2,022.6	318.5	2.00	-2.00	0.00
7,000.0	4.09	270.44	6,547.6	15.8	-2,031.5	319.9	2.00	-2.00	0.00
7,100.0	2.09	270.44	6,647.5	15.8	-2,036.9	320.8	2.00	-2.00	0.00
EOD @ Vert									
7,204.6	0.00	360.00	6,752.0	15.8	-2,038.8	321.1	2.00	-2.00	0.00
7,250.0	4.54	0.28	6,797.4	17.6	-2,038.8	322.9	10.00	10.00	0.00
7,300.0	9.54	0.28	6,847.0	23.7	-2,038.8	328.9	10.00	10.00	0.00
7,350.0	14.54	0.28	6,895.9	34.2	-2,038.7	339.2	10.00	10.00	0.00
7,400.0	19.54	0.28	6,943.7	48.8	-2,038.7	353.7	10.00	10.00	0.00
7,450.0	24.54	0.28	6,990.0	67.6	-2,038.6	372.2	10.00	10.00	0.00
MNCS									
7,472.2	26.76	0.28	7,010.0	77.2	-2,038.5	381.7	10.00	10.00	0.00
7,500.0	29.54	0.28	7,034.5	90.3	-2,038.5	394.7	10.00	10.00	0.00
7,550.0	34.54	0.28	7,076.9	116.8	-2,038.3	420.9	10.00	10.00	0.00
7,600.0	39.54	0.28	7,116.8	146.9	-2,038.2	450.6	10.00	10.00	0.00
7,650.0	44.54	0.28	7,153.9	180.4	-2,038.0	483.7	10.00	10.00	0.00
7,700.0	49.54	0.28	7,188.0	217.0	-2,037.8	519.8	10.00	10.00	0.00
7,750.0	54.54	0.28	7,218.7	256.4	-2,037.6	558.8	10.00	10.00	0.00
NBRR									
7,798.2	59.37	0.28	7,245.0	296.8	-2,037.5	598.7	10.00	10.00	0.00
7,800.0	59.54	0.28	7,245.9	298.3	-2,037.4	600.2	10.00	10.00	0.00
7,850.0	64.54	0.28	7,269.3	342.5	-2,037.2	643.8	10.00	10.00	0.00
7,900.0	69.54	0.28	7,288.8	388.5	-2,037.0	689.3	10.00	10.00	0.00

Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well PRU 0880 2-29H17
Company:	SandRidge Energy	TVD Reference:	WELL @ 8109.0usft
Project:	Jackson County, Colorado	MD Reference:	WELL @ 8109.0usft
Site:	Sec 29, T8N, R80W, 6th PM	North Reference:	Grid
Well:	PRU 0880 2-29H17	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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)
7,950.0	74.54	0.28	7,304.2	436.1	-2,036.8	736.3	10.00	10.00	0.00
8,000.0	79.54	0.28	7,315.4	484.8	-2,036.5	784.4	10.00	10.00	0.00
8,050.0	84.54	0.28	7,322.4	534.3	-2,036.3	833.3	10.00	10.00	0.00
EOC @ 90° Inc / .28° Azm / 7325' TVD									
8,104.6	90.00	0.28	7,325.0	588.8	-2,036.0	887.1	10.00	10.00	0.00
8,200.0	90.00	0.28	7,325.0	684.2	-2,035.6	981.4	0.00	0.00	0.00
8,300.0	90.00	0.28	7,325.0	784.2	-2,035.1	1,080.2	0.00	0.00	0.00
8,400.0	90.00	0.28	7,325.0	884.2	-2,034.6	1,179.0	0.00	0.00	0.00
8,500.0	90.00	0.28	7,325.0	984.2	-2,034.1	1,277.8	0.00	0.00	0.00
8,600.0	90.00	0.28	7,325.0	1,084.2	-2,033.6	1,376.6	0.00	0.00	0.00
8,700.0	90.00	0.28	7,325.0	1,184.2	-2,033.1	1,475.4	0.00	0.00	0.00
8,800.0	90.00	0.28	7,325.0	1,284.2	-2,032.7	1,574.2	0.00	0.00	0.00
8,900.0	90.00	0.28	7,325.0	1,384.2	-2,032.2	1,673.0	0.00	0.00	0.00
9,000.0	90.00	0.28	7,325.0	1,484.2	-2,031.7	1,771.8	0.00	0.00	0.00
9,100.0	90.00	0.28	7,325.0	1,584.2	-2,031.2	1,870.6	0.00	0.00	0.00
9,200.0	90.00	0.28	7,325.0	1,684.2	-2,030.7	1,969.4	0.00	0.00	0.00
9,300.0	90.00	0.28	7,325.0	1,784.2	-2,030.2	2,068.2	0.00	0.00	0.00
9,400.0	90.00	0.28	7,325.0	1,884.2	-2,029.7	2,167.0	0.00	0.00	0.00
9,500.0	90.00	0.28	7,325.0	1,984.2	-2,029.2	2,265.8	0.00	0.00	0.00
9,600.0	90.00	0.28	7,325.0	2,084.2	-2,028.8	2,364.6	0.00	0.00	0.00
9,700.0	90.00	0.28	7,325.0	2,184.2	-2,028.3	2,463.4	0.00	0.00	0.00
9,800.0	90.00	0.28	7,325.0	2,284.2	-2,027.8	2,562.2	0.00	0.00	0.00
9,900.0	90.00	0.28	7,325.0	2,384.2	-2,027.3	2,661.0	0.00	0.00	0.00
10,000.0	90.00	0.28	7,325.0	2,484.2	-2,026.8	2,759.8	0.00	0.00	0.00
10,100.0	90.00	0.28	7,325.0	2,584.2	-2,026.3	2,858.6	0.00	0.00	0.00
10,200.0	90.00	0.28	7,325.0	2,684.2	-2,025.8	2,957.4	0.00	0.00	0.00
10,300.0	90.00	0.28	7,325.0	2,784.2	-2,025.4	3,056.2	0.00	0.00	0.00
10,400.0	90.00	0.28	7,325.0	2,884.2	-2,024.9	3,155.0	0.00	0.00	0.00
10,500.0	90.00	0.28	7,325.0	2,984.2	-2,024.4	3,253.8	0.00	0.00	0.00
10,600.0	90.00	0.28	7,325.0	3,084.2	-2,023.9	3,352.6	0.00	0.00	0.00
10,700.0	90.00	0.28	7,325.0	3,184.2	-2,023.4	3,451.4	0.00	0.00	0.00
10,800.0	90.00	0.28	7,325.0	3,284.2	-2,022.9	3,550.2	0.00	0.00	0.00
10,900.0	90.00	0.28	7,325.0	3,384.2	-2,022.4	3,649.0	0.00	0.00	0.00
11,000.0	90.00	0.28	7,325.0	3,484.2	-2,021.9	3,747.8	0.00	0.00	0.00
11,100.0	90.00	0.28	7,325.0	3,584.2	-2,021.5	3,846.6	0.00	0.00	0.00
11,200.0	90.00	0.28	7,325.0	3,684.2	-2,021.0	3,945.4	0.00	0.00	0.00
11,300.0	90.00	0.28	7,325.0	3,784.2	-2,020.5	4,044.2	0.00	0.00	0.00
11,400.0	90.00	0.28	7,325.0	3,884.2	-2,020.0	4,142.9	0.00	0.00	0.00
11,500.0	90.00	0.28	7,325.0	3,984.1	-2,019.5	4,241.7	0.00	0.00	0.00
11,600.0	90.00	0.28	7,325.0	4,084.1	-2,019.0	4,340.5	0.00	0.00	0.00
11,700.0	90.00	0.28	7,325.0	4,184.1	-2,018.5	4,439.3	0.00	0.00	0.00
11,800.0	90.00	0.28	7,325.0	4,284.1	-2,018.1	4,538.1	0.00	0.00	0.00
11,900.0	90.00	0.28	7,325.0	4,384.1	-2,017.6	4,636.9	0.00	0.00	0.00
12,000.0	90.00	0.28	7,325.0	4,484.1	-2,017.1	4,735.7	0.00	0.00	0.00
12,100.0	90.00	0.28	7,325.0	4,584.1	-2,016.6	4,834.5	0.00	0.00	0.00
12,200.0	90.00	0.28	7,325.0	4,684.1	-2,016.1	4,933.3	0.00	0.00	0.00
12,300.0	90.00	0.28	7,325.0	4,784.1	-2,015.6	5,032.1	0.00	0.00	0.00
12,400.0	90.00	0.28	7,325.0	4,884.1	-2,015.1	5,130.9	0.00	0.00	0.00
12,500.0	90.00	0.28	7,325.0	4,984.1	-2,014.7	5,229.7	0.00	0.00	0.00
12,600.0	90.00	0.28	7,325.0	5,084.1	-2,014.2	5,328.5	0.00	0.00	0.00
12,700.0	90.00	0.28	7,325.0	5,184.1	-2,013.7	5,427.3	0.00	0.00	0.00
12,800.0	90.00	0.28	7,325.0	5,284.1	-2,013.2	5,526.1	0.00	0.00	0.00
12,900.0	90.00	0.28	7,325.0	5,384.1	-2,012.7	5,624.9	0.00	0.00	0.00

Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well PRU 0880 2-29H17
Company:	SandRidge Energy	TVD Reference:	WELL @ 8109.0usft
Project:	Jackson County, Colorado	MD Reference:	WELL @ 8109.0usft
Site:	Sec 29, T8N, R80W, 6th PM	North Reference:	Grid
Well:	PRU 0880 2-29H17	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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)	
13,000.0	90.00	0.28	7,325.0	5,484.1	-2,012.2	5,723.7	0.00	0.00	0.00	
13,100.0	90.00	0.28	7,325.0	5,584.1	-2,011.7	5,822.5	0.00	0.00	0.00	
13,200.0	90.00	0.28	7,325.0	5,684.1	-2,011.2	5,921.3	0.00	0.00	0.00	
13,300.0	90.00	0.28	7,325.0	5,784.1	-2,010.8	6,020.1	0.00	0.00	0.00	
13,400.0	90.00	0.28	7,325.0	5,884.1	-2,010.3	6,118.9	0.00	0.00	0.00	
13,500.0	90.00	0.28	7,325.0	5,984.1	-2,009.8	6,217.7	0.00	0.00	0.00	
13,600.0	90.00	0.28	7,325.0	6,084.1	-2,009.3	6,316.5	0.00	0.00	0.00	
13,700.0	90.00	0.28	7,325.0	6,184.1	-2,008.8	6,415.3	0.00	0.00	0.00	
13,800.0	90.00	0.28	7,325.0	6,284.1	-2,008.3	6,514.1	0.00	0.00	0.00	
13,900.0	90.00	0.28	7,325.0	6,384.1	-2,007.8	6,612.9	0.00	0.00	0.00	
14,000.0	90.00	0.28	7,325.0	6,484.1	-2,007.4	6,711.7	0.00	0.00	0.00	
14,100.0	90.00	0.28	7,325.0	6,584.1	-2,006.9	6,810.5	0.00	0.00	0.00	
14,200.0	90.00	0.28	7,325.0	6,684.1	-2,006.4	6,909.3	0.00	0.00	0.00	
14,300.0	90.00	0.28	7,325.0	6,784.1	-2,005.9	7,008.1	0.00	0.00	0.00	
14,400.0	90.00	0.28	7,325.0	6,884.1	-2,005.4	7,106.9	0.00	0.00	0.00	
14,500.0	90.00	0.28	7,325.0	6,984.1	-2,004.9	7,205.7	0.00	0.00	0.00	
14,600.0	90.00	0.28	7,325.0	7,084.1	-2,004.4	7,304.5	0.00	0.00	0.00	
14,700.0	90.00	0.28	7,325.0	7,184.1	-2,004.0	7,403.3	0.00	0.00	0.00	
14,800.0	90.00	0.28	7,325.0	7,284.1	-2,003.5	7,502.1	0.00	0.00	0.00	
14,900.0	90.00	0.28	7,325.0	7,384.1	-2,003.0	7,600.9	0.00	0.00	0.00	
15,000.0	90.00	0.28	7,325.0	7,484.1	-2,002.5	7,699.7	0.00	0.00	0.00	
15,100.0	90.00	0.28	7,325.0	7,584.1	-2,002.0	7,798.4	0.00	0.00	0.00	
15,200.0	90.00	0.28	7,325.0	7,684.1	-2,001.5	7,897.2	0.00	0.00	0.00	
15,300.0	90.00	0.28	7,325.0	7,784.1	-2,001.0	7,996.0	0.00	0.00	0.00	
15,400.0	90.00	0.28	7,325.0	7,884.1	-2,000.5	8,094.8	0.00	0.00	0.00	
15,500.0	90.00	0.28	7,325.0	7,984.1	-2,000.1	8,193.6	0.00	0.00	0.00	
15,600.0	90.00	0.28	7,325.0	8,084.1	-1,999.6	8,292.4	0.00	0.00	0.00	
15,700.0	90.00	0.28	7,325.0	8,184.1	-1,999.1	8,391.2	0.00	0.00	0.00	
15,800.0	90.00	0.28	7,325.0	8,284.1	-1,998.6	8,490.0	0.00	0.00	0.00	
15,900.0	90.00	0.28	7,325.0	8,384.1	-1,998.1	8,588.8	0.00	0.00	0.00	
16,000.0	90.00	0.28	7,325.0	8,484.1	-1,997.6	8,687.6	0.00	0.00	0.00	
16,100.0	90.00	0.28	7,325.0	8,584.1	-1,997.1	8,786.4	0.00	0.00	0.00	
16,200.0	90.00	0.28	7,325.0	8,684.1	-1,996.7	8,885.2	0.00	0.00	0.00	
16,300.0	90.00	0.28	7,325.0	8,784.1	-1,996.2	8,984.0	0.00	0.00	0.00	
16,400.0	90.00	0.28	7,325.0	8,884.1	-1,995.7	9,082.8	0.00	0.00	0.00	
16,500.0	90.00	0.28	7,325.0	8,984.1	-1,995.2	9,181.6	0.00	0.00	0.00	
16,600.0	90.00	0.28	7,325.0	9,084.1	-1,994.7	9,280.4	0.00	0.00	0.00	
16,700.0	90.00	0.28	7,325.0	9,184.1	-1,994.2	9,379.2	0.00	0.00	0.00	
16,800.0	90.00	0.28	7,325.0	9,284.1	-1,993.7	9,478.0	0.00	0.00	0.00	
16,900.0	90.00	0.28	7,325.0	9,384.1	-1,993.2	9,576.8	0.00	0.00	0.00	
17,000.0	90.00	0.28	7,325.0	9,484.1	-1,992.8	9,675.6	0.00	0.00	0.00	
17,100.0	90.00	0.28	7,325.0	9,584.1	-1,992.3	9,774.4	0.00	0.00	0.00	
17,200.0	90.00	0.28	7,325.0	9,684.1	-1,991.8	9,873.2	0.00	0.00	0.00	
17,300.0	90.00	0.28	7,325.0	9,784.1	-1,991.3	9,972.0	0.00	0.00	0.00	
17,400.0	90.00	0.28	7,325.0	9,884.1	-1,990.8	10,070.8	0.00	0.00	0.00	
17,500.0	90.00	0.28	7,325.0	9,984.1	-1,990.3	10,169.6	0.00	0.00	0.00	
17,600.0	90.00	0.28	7,325.0	10,084.1	-1,989.8	10,268.4	0.00	0.00	0.00	
17,700.0	90.00	0.28	7,325.0	10,184.1	-1,989.4	10,367.2	0.00	0.00	0.00	
17,800.0	90.00	0.28	7,325.0	10,284.1	-1,988.9	10,466.0	0.00	0.00	0.00	
17,900.0	90.00	0.28	7,325.0	10,384.1	-1,988.4	10,564.8	0.00	0.00	0.00	
18,000.0	90.00	0.28	7,325.0	10,484.1	-1,987.9	10,663.6	0.00	0.00	0.00	
18,100.0	90.00	0.28	7,325.0	10,584.1	-1,987.4	10,762.4	0.00	0.00	0.00	
18,200.0	90.00	0.28	7,325.0	10,684.1	-1,986.9	10,861.2	0.00	0.00	0.00	
18,300.0	90.00	0.28	7,325.0	10,784.1	-1,986.4	10,960.0	0.00	0.00	0.00	

Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well PRU 0880 2-29H17
Company:	SandRidge Energy	TVD Reference:	WELL @ 8109.0usft
Project:	Jackson County, Colorado	MD Reference:	WELL @ 8109.0usft
Site:	Sec 29, T8N, R80W, 6th PM	North Reference:	Grid
Well:	PRU 0880 2-29H17	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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)	
18,400.0	90.00	0.28	7,325.0	10,884.1	-1,986.0	11,058.8	0.00	0.00	0.00	
18,500.0	90.00	0.28	7,325.0	10,984.1	-1,985.5	11,157.6	0.00	0.00	0.00	
18,600.0	90.00	0.28	7,325.0	11,084.1	-1,985.0	11,256.4	0.00	0.00	0.00	
18,700.0	90.00	0.28	7,325.0	11,184.1	-1,984.5	11,355.1	0.00	0.00	0.00	
18,800.0	90.00	0.28	7,325.0	11,284.1	-1,984.0	11,453.9	0.00	0.00	0.00	
18,900.0	90.00	0.28	7,325.0	11,384.1	-1,983.5	11,552.7	0.00	0.00	0.00	
19,000.0	90.00	0.28	7,325.0	11,484.1	-1,983.0	11,651.5	0.00	0.00	0.00	
19,100.0	90.00	0.28	7,325.0	11,584.1	-1,982.5	11,750.3	0.00	0.00	0.00	
19,200.0	90.00	0.28	7,325.0	11,684.1	-1,982.1	11,849.1	0.00	0.00	0.00	
19,300.0	90.00	0.28	7,325.0	11,784.1	-1,981.6	11,947.9	0.00	0.00	0.00	
19,400.0	90.00	0.28	7,325.0	11,884.1	-1,981.1	12,046.7	0.00	0.00	0.00	
19,500.0	90.00	0.28	7,325.0	11,984.1	-1,980.6	12,145.5	0.00	0.00	0.00	
19,600.0	90.00	0.28	7,325.0	12,084.1	-1,980.1	12,244.3	0.00	0.00	0.00	
19,700.0	90.00	0.28	7,325.0	12,184.1	-1,979.6	12,343.1	0.00	0.00	0.00	
19,800.0	90.00	0.28	7,325.0	12,284.1	-1,979.1	12,441.9	0.00	0.00	0.00	
19,900.0	90.00	0.28	7,325.0	12,384.1	-1,978.7	12,540.7	0.00	0.00	0.00	
20,000.0	90.00	0.28	7,325.0	12,484.0	-1,978.2	12,639.5	0.00	0.00	0.00	
20,100.0	90.00	0.28	7,325.0	12,584.0	-1,977.7	12,738.3	0.00	0.00	0.00	
20,200.0	90.00	0.28	7,325.0	12,684.0	-1,977.2	12,837.1	0.00	0.00	0.00	
20,300.0	90.00	0.28	7,325.0	12,784.0	-1,976.7	12,935.9	0.00	0.00	0.00	
20,400.0	90.00	0.28	7,325.0	12,884.0	-1,976.2	13,034.7	0.00	0.00	0.00	
20,500.0	90.00	0.28	7,325.0	12,984.0	-1,975.7	13,133.5	0.00	0.00	0.00	
TD @ 20553' MD / 7325' TVD										
20,552.8	90.00	0.28	7,325.0	13,036.9	-1,975.5	13,185.7	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
VP PRU 0880 2-29H1	0.00	0.00	6,752.0	15.8	-2,038.8	1,473,577.93	2,749,419.62	40° 37' 47.519 N	106° 24' 10.056 W	
- plan hits target center										
- Point										
PBHL PRU 0880 2-29	0.00	360.00	7,325.0	13,036.9	-1,975.5	1,486,599.01	2,749,482.96	40° 39' 56.186 N	106° 24' 10.954 W	
- plan hits target center										
- Point										

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,529.2	3,400.0	LNCE				
4,470.2	4,230.0	FXHLS				
4,719.6	4,450.0	PIRR				
5,535.8	5,170.0	SSSX				
6,095.0	5,670.0	SNNN				
6,308.0	5,870.0	PIRRL				
7,472.2	7,010.0	MNCS				
7,798.2	7,245.0	NBRR				

Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well PRU 0880 2-29H17
Company:	SandRidge Energy	TVD Reference:	WELL @ 8109.0usft
Project:	Jackson County, Colorado	MD Reference:	WELL @ 8109.0usft
Site:	Sec 29, T8N, R80W, 6th PM	North Reference:	Grid
Well:	PRU 0880 2-29H17	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,500.0	1,500.0	0.0	0.0	Build 2°/100'
2,905.2	2,849.5	2.6	-337.7	EOB @ 28.10° Inc / 270.44° Azm
5,799.4	5,402.5	13.2	-1,701.1	Drop 2°/100'
7,204.6	6,752.0	15.8	-2,038.8	EOD @ Vert
8,104.6	7,325.0	588.8	-2,036.0	EOC @ 90° Inc / .28° Azm / 7325' TVD
20,552.8	7,325.0	13,036.9	-1,975.5	TD @ 20553' MD / 7325' TVD