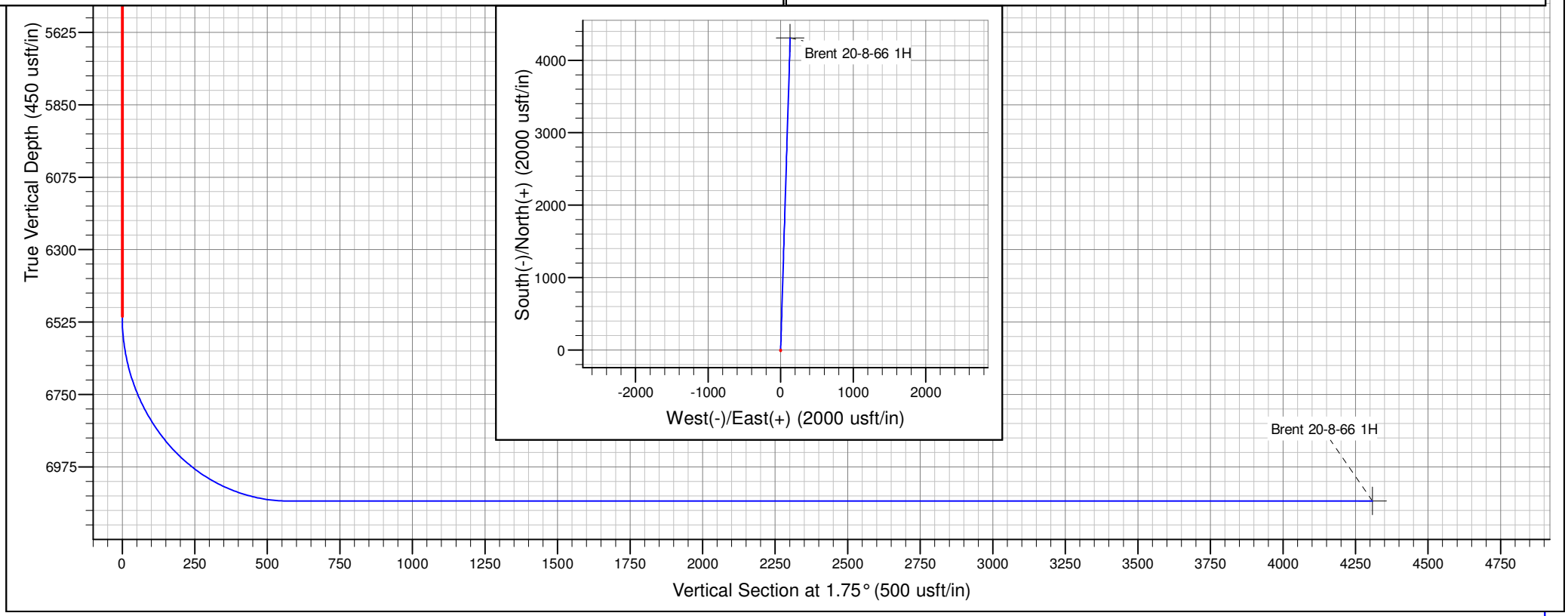
Project: Weld - DJ Basin
Site: Brent 20-8-66 1H
Well: Brent 20-8-66 1H
Wellbore: Brent 20-8-66 1H
Design: Design #1

PROJECT DETAILS: Weld - DJ Basin

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: Colorado North 501

System Datum: Mean Sea Level



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DIeg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	6508.0	0.00	0.00	6508.0	0.0	0.0	0.00	0.00	0.0	
3	7408.0	90.00	1.75	7081.0	572.7	17.5	10.00	1.75	573.0	
4	11144.0	90.00	1.75	7081.0	4306.9	131.6	0.00	0.00	4309.0	Brent 20-8-66 1H

Chesapeake Energy -Rockies District

Weld - DJ Basin
Brent 20-8-66 1H
Brent 20-8-66 1H

Brent 20-8-66 1H

Plan: Design #1

Standard Planning Report

30 September, 2011

Database:	Drilling Database	**Local Co-ordinate Reference:**	Well Brent 20-8-66 1H
Company:	Chesapeake Energy -Rockies District	**TVD Reference:**	WELL @ 0.0usft (Original Well Elev)
Project:	Weld - DJ Basin	**MD Reference:**	WELL @ 0.0usft (Original Well Elev)
Site:	Brent 20-8-66 1H	**North Reference:**	Grid
Well:	Brent 20-8-66 1H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Brent 20-8-66 1H		
Design:	Design #1		

Project Weld - DJ Basin

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Colorado North 501		

Site Brent 20-8-66 1H

Site Position:		**Northing:**	477,114.05 ft	**Latitude:**	40° 38' 27.65327503 N
From:	Map	**Easting:**	2,193,111.43 ft	**Longitude:**	104° 48' 15.05085204 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13.200 in	**Grid Convergence:**	0.45 °

Well Brent 20-8-66 1H

Well Position	**+N/-S**	0.0 usft	**Northing:**	477,114.05 ft	**Latitude:**	40° 38' 27.65327503 N
	+E/-W	0.0 usft	**Easting:**	2,193,111.43 ft	**Longitude:**	104° 48' 15.05085204 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	0.0 usft

Wellbore Brent 20-8-66 1H

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	9/30/2011	8.83	67.24	53,285

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	1.75

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	
6,508.0	0.00	0.00	6,508.0	0.0	0.0	0.00	0.00	0.00	0.00	
7,408.0	90.00	1.75	7,081.0	572.7	17.5	10.00	10.00	0.00	1.75	
11,144.0	90.00	1.75	7,081.0	4,306.9	131.6	0.00	0.00	0.00	0.00	Brent 20-8-66 1H

Database:	Drilling Database	**Local Co-ordinate Reference:**	Well Brent 20-8-66 1H
Company:	Chesapeake Energy -Rockies District	**TVD Reference:**	WELL @ 0.0usft (Original Well Elev)
Project:	Weld - DJ Basin	**MD Reference:**	WELL @ 0.0usft (Original Well Elev)
Site:	Brent 20-8-66 1H	**North Reference:**	Grid
Well:	Brent 20-8-66 1H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Brent 20-8-66 1H		
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
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
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00

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Well:	Brent 20-8-66 1H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Brent 20-8-66 1H		
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)
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,508.0	0.00	0.00	6,508.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	9.20	1.75	6,599.6	7.4	0.2	7.4	10.00	10.00	0.00
6,700.0	19.20	1.75	6,696.4	31.8	1.0	31.9	10.00	10.00	0.00
6,800.0	29.20	1.75	6,787.5	72.8	2.2	72.8	10.00	10.00	0.00
6,900.0	39.20	1.75	6,870.1	128.9	3.9	128.9	10.00	10.00	0.00
7,000.0	49.20	1.75	6,941.7	198.5	6.1	198.5	10.00	10.00	0.00
7,100.0	59.20	1.75	7,000.2	279.4	8.5	279.5	10.00	10.00	0.00
7,200.0	69.20	1.75	7,043.6	369.3	11.3	369.5	10.00	10.00	0.00
7,300.0	79.20	1.75	7,070.8	465.3	14.2	465.6	10.00	10.00	0.00
7,400.0	89.20	1.75	7,080.9	564.7	17.2	564.9	10.00	10.00	0.00
7,408.0	90.00	1.75	7,081.0	572.7	17.5	573.0	10.00	10.00	0.00
7,500.0	90.00	1.75	7,081.0	664.6	20.3	664.9	0.00	0.00	0.00
7,600.0	90.00	1.75	7,081.0	764.6	23.4	764.9	0.00	0.00	0.00
7,700.0	90.00	1.75	7,081.0	864.5	26.4	864.9	0.00	0.00	0.00
7,800.0	90.00	1.75	7,081.0	964.5	29.5	964.9	0.00	0.00	0.00
7,900.0	90.00	1.75	7,081.0	1,064.4	32.5	1,064.9	0.00	0.00	0.00
8,000.0	90.00	1.75	7,081.0	1,164.4	35.6	1,164.9	0.00	0.00	0.00
8,100.0	90.00	1.75	7,081.0	1,264.3	38.6	1,264.9	0.00	0.00	0.00
8,200.0	90.00	1.75	7,081.0	1,364.3	41.7	1,364.9	0.00	0.00	0.00
8,300.0	90.00	1.75	7,081.0	1,464.2	44.7	1,464.9	0.00	0.00	0.00
8,400.0	90.00	1.75	7,081.0	1,564.2	47.8	1,564.9	0.00	0.00	0.00
8,500.0	90.00	1.75	7,081.0	1,664.1	50.8	1,664.9	0.00	0.00	0.00
8,600.0	90.00	1.75	7,081.0	1,764.1	53.9	1,764.9	0.00	0.00	0.00
8,700.0	90.00	1.75	7,081.0	1,864.0	56.9	1,864.9	0.00	0.00	0.00
8,800.0	90.00	1.75	7,081.0	1,964.0	60.0	1,964.9	0.00	0.00	0.00
8,900.0	90.00	1.75	7,081.0	2,064.0	63.1	2,064.9	0.00	0.00	0.00
9,000.0	90.00	1.75	7,081.0	2,163.9	66.1	2,164.9	0.00	0.00	0.00
9,100.0	90.00	1.75	7,081.0	2,263.9	69.2	2,264.9	0.00	0.00	0.00
9,200.0	90.00	1.75	7,081.0	2,363.8	72.2	2,364.9	0.00	0.00	0.00
9,300.0	90.00	1.75	7,081.0	2,463.8	75.3	2,464.9	0.00	0.00	0.00
9,400.0	90.00	1.75	7,081.0	2,563.7	78.3	2,564.9	0.00	0.00	0.00
9,500.0	90.00	1.75	7,081.0	2,663.7	81.4	2,664.9	0.00	0.00	0.00
9,600.0	90.00	1.75	7,081.0	2,763.6	84.4	2,764.9	0.00	0.00	0.00
9,700.0	90.00	1.75	7,081.0	2,863.6	87.5	2,864.9	0.00	0.00	0.00
9,800.0	90.00	1.75	7,081.0	2,963.5	90.5	2,964.9	0.00	0.00	0.00
9,900.0	90.00	1.75	7,081.0	3,063.5	93.6	3,064.9	0.00	0.00	0.00
10,000.0	90.00	1.75	7,081.0	3,163.4	96.6	3,164.9	0.00	0.00	0.00
10,100.0	90.00	1.75	7,081.0	3,263.4	99.7	3,264.9	0.00	0.00	0.00
10,200.0	90.00	1.75	7,081.0	3,363.3	102.7	3,364.9	0.00	0.00	0.00
10,300.0	90.00	1.75	7,081.0	3,463.3	105.8	3,464.9	0.00	0.00	0.00
10,400.0	90.00	1.75	7,081.0	3,563.3	108.9	3,564.9	0.00	0.00	0.00
10,500.0	90.00	1.75	7,081.0	3,663.2	111.9	3,664.9	0.00	0.00	0.00

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Wellbore:	Brent 20-8-66 1H		
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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)
10,600.0	90.00	1.75	7,081.0	3,763.2	115.0	3,764.9	0.00	0.00	0.00
10,700.0	90.00	1.75	7,081.0	3,863.1	118.0	3,864.9	0.00	0.00	0.00
10,800.0	90.00	1.75	7,081.0	3,963.1	121.1	3,964.9	0.00	0.00	0.00
10,900.0	90.00	1.75	7,081.0	4,063.0	124.1	4,064.9	0.00	0.00	0.00
11,000.0	90.00	1.75	7,081.0	4,163.0	127.2	4,164.9	0.00	0.00	0.00
11,100.0	90.00	1.75	7,081.0	4,262.9	130.2	4,264.9	0.00	0.00	0.00
11,144.0	90.00	1.75	7,081.0	4,306.9	131.6	4,309.0	0.00	0.00	0.00

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Brent 20-8-66 1H - plan hits target center - Point	0.00	0.00	7,081.0	4,306.9	131.6	481,421.00	2,193,243.00	40° 39' 10.20117268 N	104° 48' 12.90546205 W