

Chesapeake Energy -Rockies District

Weld

Cass 7-62 15-1H

Cass 7-62 15-1H

Cass 7-62 15-1H

Plan: Design #1

Standard Planning Report

25 January, 2011

Chesapeake Operating

Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Site Cass 7-62 15-1H
Company:	Chesapeake Energy -Rockies District	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Project:	Weld	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Cass 7-62 15-1H	North Reference:	Grid
Well:	Cass 7-62 15-1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Cass 7-62 15-1H		
Design:	Design #1		

Project	Weld		
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	Cass 7-62 15-1H		
Site Position:		Northing:	456,276.76 ft
From:	Map	Easting:	2,332,095.29 ft
Position Uncertainty:	0.0 usft	Slot Radius:	13.200 in
		Latitude:	40° 34' 47.11035369 N
		Longitude:	104° 18' 15.99827923 W
		Grid Convergence:	0.77 °

Well	Cass 7-62 15-1H					
Well Position	+N/-S	0.0 usft	Northing:	456,276.76 ft	Latitude:	40° 34' 47.11035369 N
	+E/-W	0.0 usft	Easting:	2,332,095.29 ft	Longitude:	104° 18' 15.99827923 W
Position Uncertainty	0.0 usft	Wellhead Elevation:		Ground Level:	0.0 usft	

Wellbore	Cass 7-62 15-1H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	1/25/2011	8.64	67.29	53,375

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 (°)	
	6,610.0	0.0	0.0	181.20	

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	
6,027.3	0.00	0.00	6,027.3	0.0	0.0	0.00	0.00	0.00	0.00	
6,937.3	91.00	181.20	6,600.2	-582.8	-12.2	10.00	10.00	0.00	181.20	
10,442.5	91.00	181.20	6,539.0	-4,086.8	-85.3	0.00	0.00	0.00	0.00	Cass 7-62 15-1H

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Project:	Weld	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Cass 7-62 15-1H	North Reference:	Grid
Well:	Cass 7-62 15-1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Cass 7-62 15-1H		
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:	Cass 7-62 15-1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Cass 7-62 15-1H		
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
6,027.3	0.00	0.00	6,027.3	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	7.27	181.20	6,099.8	-4.6	-0.1	4.6	10.00	10.00	0.00
6,200.0	17.27	181.20	6,197.4	-25.8	-0.5	25.8	10.00	10.00	0.00
6,300.0	27.27	181.20	6,289.8	-63.7	-1.3	63.7	10.00	10.00	0.00
6,400.0	37.27	181.20	6,374.3	-117.0	-2.4	117.0	10.00	10.00	0.00
6,500.0	47.27	181.20	6,448.2	-184.1	-3.8	184.2	10.00	10.00	0.00
6,600.0	57.27	181.20	6,509.3	-263.1	-5.5	263.2	10.00	10.00	0.00
6,700.0	67.27	181.20	6,555.8	-351.5	-7.3	351.6	10.00	10.00	0.00
6,800.0	77.27	181.20	6,586.2	-446.6	-9.3	446.7	10.00	10.00	0.00
6,900.0	87.27	181.20	6,599.6	-545.5	-11.4	545.7	10.00	10.00	0.00
6,937.3	91.00	181.20	6,600.2	-582.8	-12.2	583.0	10.00	10.00	0.00
7,000.0	91.00	181.20	6,599.1	-645.5	-13.5	645.6	0.00	0.00	0.00
7,100.0	91.00	181.20	6,597.3	-745.5	-15.6	745.6	0.00	0.00	0.00
7,200.0	91.00	181.20	6,595.6	-845.4	-17.6	845.6	0.00	0.00	0.00
7,300.0	91.00	181.20	6,593.8	-945.4	-19.7	945.6	0.00	0.00	0.00
7,400.0	91.00	181.20	6,592.1	-1,045.3	-21.8	1,045.6	0.00	0.00	0.00
7,500.0	91.00	181.20	6,590.4	-1,145.3	-23.9	1,145.6	0.00	0.00	0.00
7,600.0	91.00	181.20	6,588.6	-1,245.3	-26.0	1,245.5	0.00	0.00	0.00
7,700.0	91.00	181.20	6,586.9	-1,345.2	-28.1	1,345.5	0.00	0.00	0.00
7,800.0	91.00	181.20	6,585.1	-1,445.2	-30.2	1,445.5	0.00	0.00	0.00
7,900.0	91.00	181.20	6,583.4	-1,545.2	-32.2	1,545.5	0.00	0.00	0.00
8,000.0	91.00	181.20	6,581.6	-1,645.1	-34.3	1,645.5	0.00	0.00	0.00
8,100.0	91.00	181.20	6,579.9	-1,745.1	-36.4	1,745.5	0.00	0.00	0.00
8,200.0	91.00	181.20	6,578.1	-1,845.0	-38.5	1,845.4	0.00	0.00	0.00
8,300.0	91.00	181.20	6,576.4	-1,945.0	-40.6	1,945.4	0.00	0.00	0.00
8,400.0	91.00	181.20	6,574.6	-2,045.0	-42.7	2,045.4	0.00	0.00	0.00
8,500.0	91.00	181.20	6,572.9	-2,144.9	-44.8	2,145.4	0.00	0.00	0.00
8,600.0	91.00	181.20	6,571.2	-2,244.9	-46.9	2,245.4	0.00	0.00	0.00
8,700.0	91.00	181.20	6,569.4	-2,344.9	-48.9	2,345.4	0.00	0.00	0.00
8,800.0	91.00	181.20	6,567.7	-2,444.8	-51.0	2,445.4	0.00	0.00	0.00
8,900.0	91.00	181.20	6,565.9	-2,544.8	-53.1	2,545.3	0.00	0.00	0.00
9,000.0	91.00	181.20	6,564.2	-2,644.7	-55.2	2,645.3	0.00	0.00	0.00
9,100.0	91.00	181.20	6,562.4	-2,744.7	-57.3	2,745.3	0.00	0.00	0.00
9,200.0	91.00	181.20	6,560.7	-2,844.7	-59.4	2,845.3	0.00	0.00	0.00
9,300.0	91.00	181.20	6,558.9	-2,944.6	-61.5	2,945.3	0.00	0.00	0.00
9,400.0	91.00	181.20	6,557.2	-3,044.6	-63.5	3,045.3	0.00	0.00	0.00
9,500.0	91.00	181.20	6,555.4	-3,144.6	-65.6	3,145.2	0.00	0.00	0.00
9,600.0	91.00	181.20	6,553.7	-3,244.5	-67.7	3,245.2	0.00	0.00	0.00
9,700.0	91.00	181.20	6,552.0	-3,344.5	-69.8	3,345.2	0.00	0.00	0.00
9,800.0	91.00	181.20	6,550.2	-3,444.4	-71.9	3,445.2	0.00	0.00	0.00
9,900.0	91.00	181.20	6,548.5	-3,544.4	-74.0	3,545.2	0.00	0.00	0.00
10,000.0	91.00	181.20	6,546.7	-3,644.4	-76.1	3,645.2	0.00	0.00	0.00
10,100.0	91.00	181.20	6,545.0	-3,744.3	-78.1	3,745.2	0.00	0.00	0.00
10,200.0	91.00	181.20	6,543.2	-3,844.3	-80.2	3,845.1	0.00	0.00	0.00
10,300.0	91.00	181.20	6,541.5	-3,944.3	-82.3	3,945.1	0.00	0.00	0.00
10,400.0	91.00	181.20	6,539.7	-4,044.2	-84.4	4,045.1	0.00	0.00	0.00
10,442.5	91.00	181.20	6,539.0	-4,086.8	-85.3	4,087.6	0.00	0.00	0.00

Chesapeake Operating

Planning Report

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Wellbore:	Cass 7-62 15-1H		
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)

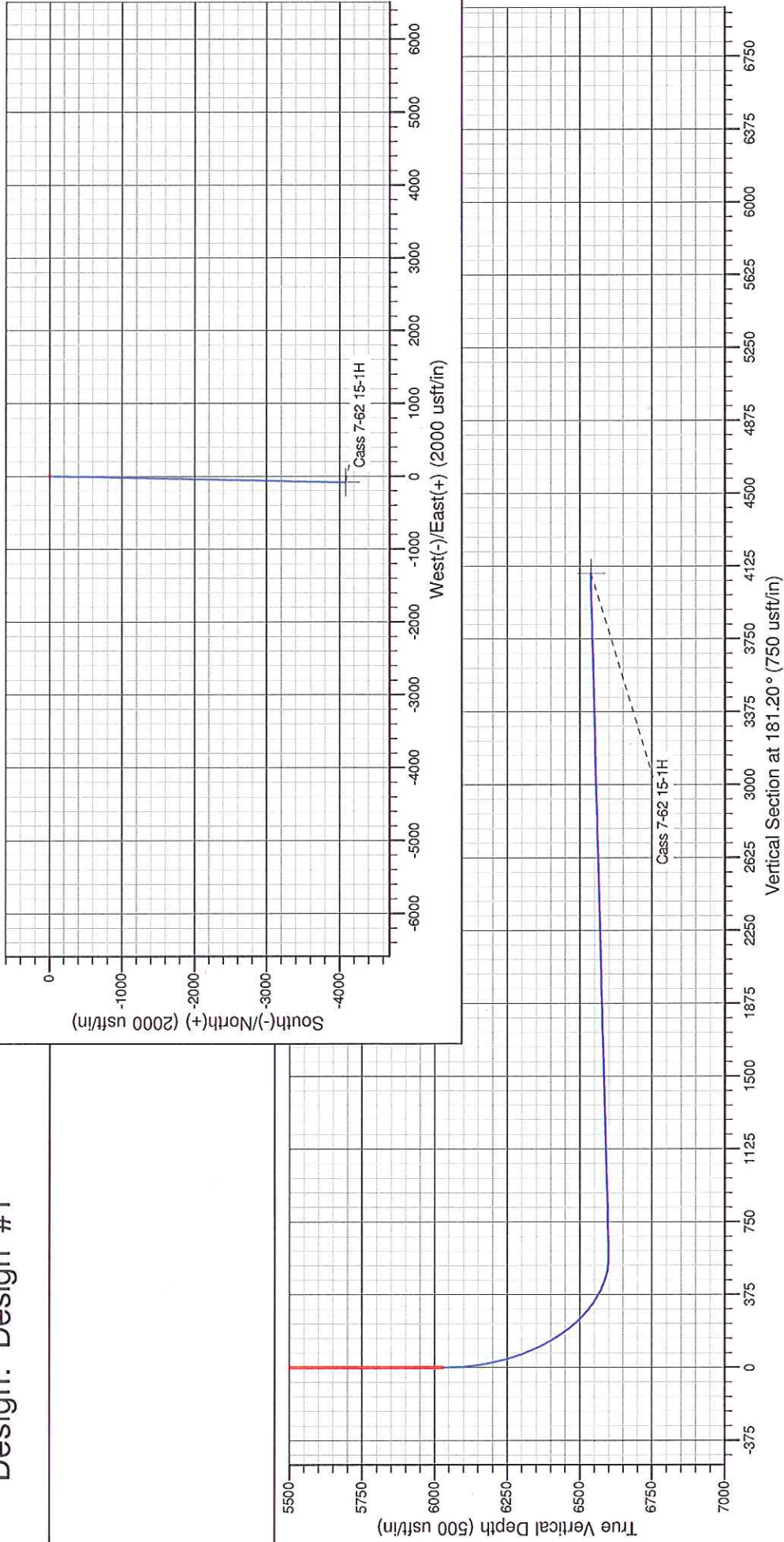
Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Cass 7-62 15-1H	0.00	0.00	6,539.0	-4,086.8	-85.3	452,190.00	2,332,010.00	40° 34' 6.74095223 N	4° 18' 17.81729160 W
- plan hits target center									
- Point									

Project: Weld
 Site: Cass 7-62 15-1H
 Well: Cass 7-62 15-1H
 Wellbore: Cass 7-62 15-1H
 Design: Design #1

PROJECT DETAILS: Weld

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	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	6027.3	0.00	0.00	6027.3	0.0	0.0	0.00	0.00	0.0	
3	6937.3	91.00	181.20	6600.2	-582.8	-12.2	10.00	181.20	583.0	Cass 7-62 15-1H
4	10442.5	91.00	181.20	6539.0	-4086.8	-85.3	0.00	0.00	4087.6	Cass 7-62 15-1H