

**Well:** Loveland 12-9-67 1H  
**Zone of Interest:** Niobrara Shale

Drill 12-1/4" surface hole to section TD at 1200'.

Set 9-5/8" 40# J-55 casing and cement with Lead and Tail cement (see details below). Cement will be circulated to surface.

Install 11" x 5,000 psi BOP and test as required

Drill 8-3/4" hole to KOP.

Kick off and drill 8-3/4" curve at 10 deg/100' to end of build.

Drill 7-7/8" open hole to well TD

Acquire shuttle logs: Triple combo and image logs in open hole

Set 4-1/2" casing cement as shown below.

Suspend well and move drilling rig out in preparation for well completion

#### **CASING AND CEMENTING PROGRAM**

The proposed casing program will be as follows:

<u>Purpose</u>	<u>Interval</u>		<u>Hole Size</u>	<u>Casing Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Thread</u>	<u>Condition</u>
	<u>From</u>	<u>To</u>	<u>(")</u>	<u>(")</u>	<u>Lbs/Ft</u>			
Surface	0	1200	12 1/4	9 5/8	40	J-55	LTC	New
Production	0	11872	8 3/4	4 1/2	11.6	P-110	LTC	New

Casing design subject to revision based on geologic conditions encountered.

#### **Casing Safety Factors:**

Interval	Casing	Burst	Collapse	Axial
Surface	9 5/8	2.03	2.03	4.78
Production	4 1/2	1.32	2.26	1.63

#### **Centralizer Program**

Casing	9 5/8		4 1/2
# of Bow-type spring centralizer	10		43

#### **Cement Program**

<u>Surface Casing</u>	<u>Slurry Volume</u>			<u>Weight</u>	<u>Yield</u>	<u>Mix H2O</u>	<u>TOC</u>
	<u>% Excess</u>	<u>(BBLs)</u>	<u>(Sacks)</u>	<u>(PPG)</u>	<u>(cuft/sk)</u>	<u>(GPS)</u>	
Lead Slurry	100%	100	191	11.50	2.95	17.88	0
Tail Slurry	100%	39	190	15.80	1.15	4.96	900

	<u>Lead</u>	<u>Tail</u>
Surface Casing with TOC at surface	Rockies LT 0.2 % Versaset (Additive Material) 0.2 % D-AIR 3000 (Additive Material) 0.125 lbm/sk Poly-E-Flake (Additive Material) 0.25 lbm/sk Kwik Seal (Additive Material)	Premium Cement, 94 lbm/sk Premium Cement (Cement) 1 % Calcium Chloride, Pellet (Accelerator) 0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive)

Cement must be circulated to surface

Production Casing Cement	Slurry Volume			Weight	Yield	Mix H2O	TOC
	% Excess	(BBLS)	(Sacks)	(PPG)	(cuft/sk)	(GPS)	
Lead Slurry	20%	361	922	12.00	2.20	12.30	1150'
Tail Slurry	20%	279	1073	14.60	1.46	6.10	
	Lead			Tail			
Production Casing Cement	Poz Type I-II 50/50 1 % Bentonite (Light Weight Additive) 3 lbm/sk Silicalite Compacted (Additive Material) 3 % Microbond HT (Additive Material) 0.2 % Halad(R)-322 (Low Fluid Loss Control) 0.4 % Halad(R)-344 (Low Fluid Loss Control) 0.3 % HR-5 (Retarder)			50/50 Poz Premium 2 % Bentonite (Light Weight Additive) 5 lbm/sk Silicalite Compacted (Light Weight Additive) 0.5 % Versaset (Thixotropic Additive) 0.5 % Econolite (Cement Material) 0.6 % HR-7 (Retarder) 0.5 % D-AIR 3000 (Defoamer) 0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive) 0.25 lbm/sk Kwik Seal (Lost Circulation Additive)			

The cement must achieve a compressive strength of at least 500 psi at the shoe prior to casing test and drilling out the shoe track. WOC time shall be recorded in the driller's log.

### MUD PROGRAM

Purpose	Interval		Hole Size	Mud Type	Mud Weight	Viscosity	Fluid Loss	pH
	From	To	(")	(")	Lbs/Ft			
Surface	0'	1200'	12 1/4	WBM	8.4 – 8.8	28 – 32	N/C	9
Production	1200'	8065'	8 3/4	WBM	8.5 – 9.5	35 – 46	4 – 6	9
	8065'	11872'	7 7/8	WBM	9.0 - 10.0	36 – 46	4 – 6	9

WBM = Water Based Mud

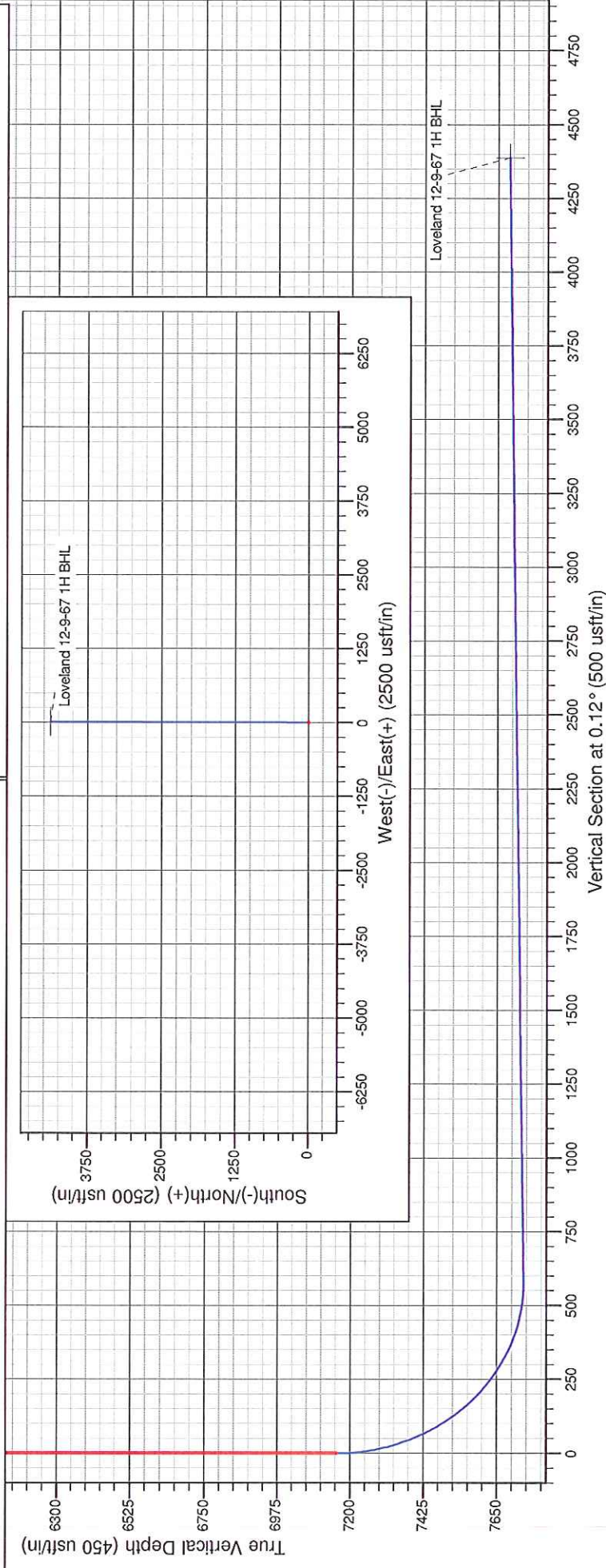


PROJECT DETAILS: Weld - DJ Basin

Project: Weld - DJ Basin  
Site: Loveland 12-9-67 1H  
Well: Loveland 12-9-67 1H  
Wellbore: Loveland 12-9-67 1H  
Design: Loveland 12-9-67 1H

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	7158.0	0.00	0.00	7158.0	0.0	0.0	0.00	0.00	0.0	
3	8065.0	90.70	0.12	7730.9	580.0	1.2	10.00	0.12	580.0	
4	11872.4	90.70	0.12	7684.4	4387.0	8.9	0.00	0.00	4387.0	Loveland 12-9-67 1H BHL

# **Chesapeake Energy -Rockies District**

**Weld - DJ Basin**

**Loveland 12-9-67 1H**

**Loveland 12-9-67 1H**

**Loveland 12-9-67 1H**

**Plan: Loveland 12-9-67 1H**

## **Standard Planning Report**

**05 July, 2011**

# Chesapeake Operating

## Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Well Loveland 12-9-67 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:	Loveland 12-9-67 1H	North Reference:	Grid
Well:	Loveland 12-9-67 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Loveland 12-9-67 1H		
Design:	Loveland 12-9-67 1H		

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	Loveland 12-9-67 1H		
Site Position:		Northing:	518,638.97 ft
From:	Map	Easting:	2,182,521.06 ft
Position Uncertainty:	0.0 usft	Slot Radius:	13.200 in
		Grid Convergence:	0.43 °

Well	Loveland 12-9-67 1H		
Well Position	+N/-S	0.0 usft	Northing: 518,638.97 ft
	+E/-W	0.0 usft	Easting: 2,182,521.06 ft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level: 0.0 usft

Wellbore	Loveland 12-9-67 1H		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF200510	7/5/2011	8.89
			Dip Angle (°)
			67.33
			Field Strength (nT)
			53,365

Design	Loveland 12-9-67 1H		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction (°)
			0.12

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	
7,158.0	0.00	0.00	7,158.0	0.0	0.0	0.00	0.00	0.00	0.00	
8,065.0	90.70	0.12	7,730.9	580.0	1.2	10.00	10.00	0.00	0.12	
11,872.4	90.70	0.12	7,684.4	4,387.0	8.9	0.00	0.00	0.00	0.00	Loveland 12-9-67 1H



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Project:	Weld - DJ Basin	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Loveland 12-9-67 1H	North Reference:	Grid
Well:	Loveland 12-9-67 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Loveland 12-9-67 1H		
Design:	Loveland 12-9-67 1H		

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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Wellbore:	Loveland 12-9-67 1H		
Design:	Loveland 12-9-67 1H		

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
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00
7,158.0	0.00	0.00	7,158.0	0.0	0.0	0.0	0.00	0.00	0.00
7,200.0	4.20	0.12	7,199.9	1.5	0.0	1.5	10.00	10.00	0.00
7,300.0	14.20	0.12	7,298.5	17.5	0.0	17.5	10.00	10.00	0.00
7,400.0	24.20	0.12	7,392.9	50.3	0.1	50.3	10.00	10.00	0.00
7,500.0	34.20	0.12	7,480.0	99.1	0.2	99.1	10.00	10.00	0.00
7,600.0	44.20	0.12	7,557.4	162.2	0.3	162.2	10.00	10.00	0.00
7,700.0	54.20	0.12	7,622.7	237.8	0.5	237.8	10.00	10.00	0.00
7,800.0	64.20	0.12	7,673.8	323.6	0.7	323.6	10.00	10.00	0.00
7,900.0	74.20	0.12	7,709.3	416.9	0.8	416.9	10.00	10.00	0.00
8,000.0	84.20	0.12	7,728.0	515.0	1.0	515.0	10.00	10.00	0.00
8,065.0	90.70	0.12	7,730.9	580.0	1.2	580.0	10.00	10.00	0.00
8,100.0	90.70	0.12	7,730.5	614.9	1.3	614.9	0.00	0.00	0.00
8,200.0	90.70	0.12	7,729.3	714.9	1.5	714.9	0.00	0.00	0.00
8,300.0	90.70	0.12	7,728.0	814.9	1.7	814.9	0.00	0.00	0.00
8,400.0	90.70	0.12	7,726.8	914.9	1.9	914.9	0.00	0.00	0.00
8,500.0	90.70	0.12	7,725.6	1,014.9	2.1	1,014.9	0.00	0.00	0.00
8,600.0	90.70	0.12	7,724.4	1,114.9	2.3	1,114.9	0.00	0.00	0.00
8,700.0	90.70	0.12	7,723.2	1,214.9	2.5	1,214.9	0.00	0.00	0.00
8,800.0	90.70	0.12	7,721.9	1,314.9	2.7	1,314.9	0.00	0.00	0.00
8,900.0	90.70	0.12	7,720.7	1,414.9	2.9	1,414.9	0.00	0.00	0.00
9,000.0	90.70	0.12	7,719.5	1,514.9	3.1	1,514.9	0.00	0.00	0.00
9,100.0	90.70	0.12	7,718.3	1,614.9	3.3	1,614.9	0.00	0.00	0.00
9,200.0	90.70	0.12	7,717.0	1,714.9	3.5	1,714.9	0.00	0.00	0.00
9,300.0	90.70	0.12	7,715.8	1,814.8	3.7	1,814.8	0.00	0.00	0.00
9,400.0	90.70	0.12	7,714.6	1,914.8	3.9	1,914.8	0.00	0.00	0.00
9,500.0	90.70	0.12	7,713.4	2,014.8	4.1	2,014.8	0.00	0.00	0.00
9,600.0	90.70	0.12	7,712.2	2,114.8	4.3	2,114.8	0.00	0.00	0.00
9,700.0	90.70	0.12	7,710.9	2,214.8	4.5	2,214.8	0.00	0.00	0.00
9,800.0	90.70	0.12	7,709.7	2,314.8	4.7	2,314.8	0.00	0.00	0.00
9,900.0	90.70	0.12	7,708.5	2,414.8	4.9	2,414.8	0.00	0.00	0.00
10,000.0	90.70	0.12	7,707.3	2,514.8	5.1	2,514.8	0.00	0.00	0.00
10,100.0	90.70	0.12	7,706.1	2,614.8	5.3	2,614.8	0.00	0.00	0.00
10,200.0	90.70	0.12	7,704.8	2,714.8	5.5	2,714.8	0.00	0.00	0.00
10,300.0	90.70	0.12	7,703.6	2,814.8	5.7	2,814.8	0.00	0.00	0.00
10,400.0	90.70	0.12	7,702.4	2,914.8	5.9	2,914.8	0.00	0.00	0.00
10,500.0	90.70	0.12	7,701.2	3,014.7	6.1	3,014.8	0.00	0.00	0.00



# Chesapeake Operating

## Planning Report

<b>Database:</b>	Drilling Database	<b>Local Co-ordinate Reference:</b>	Well Loveland 12-9-67 1H
<b>Company:</b>	Chesapeake Energy -Rockies District	<b>TVD Reference:</b>	WELL @ 0.0usft (Original Well Elev)
<b>Project:</b>	Weld - DJ Basin	<b>MD Reference:</b>	WELL @ 0.0usft (Original Well Elev)
<b>Site:</b>	Loveland 12-9-67 1H	<b>North Reference:</b>	Grid
<b>Well:</b>	Loveland 12-9-67 1H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Loveland 12-9-67 1H		
<b>Design:</b>	Loveland 12-9-67 1H		

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	90.70	0.12	7,699.9	3,114.7	6.3	3,114.7	0.00	0.00	0.00
10,700.0	90.70	0.12	7,698.7	3,214.7	6.6	3,214.7	0.00	0.00	0.00
10,800.0	90.70	0.12	7,697.5	3,314.7	6.8	3,314.7	0.00	0.00	0.00
10,900.0	90.70	0.12	7,696.3	3,414.7	7.0	3,414.7	0.00	0.00	0.00
11,000.0	90.70	0.12	7,695.1	3,514.7	7.2	3,514.7	0.00	0.00	0.00
11,100.0	90.70	0.12	7,693.8	3,614.7	7.4	3,614.7	0.00	0.00	0.00
11,200.0	90.70	0.12	7,692.6	3,714.7	7.6	3,714.7	0.00	0.00	0.00
11,300.0	90.70	0.12	7,691.4	3,814.7	7.8	3,814.7	0.00	0.00	0.00
11,400.0	90.70	0.12	7,690.2	3,914.7	8.0	3,914.7	0.00	0.00	0.00
11,500.0	90.70	0.12	7,688.9	4,014.7	8.2	4,014.7	0.00	0.00	0.00
11,600.0	90.70	0.12	7,687.7	4,114.7	8.4	4,114.7	0.00	0.00	0.00
11,700.0	90.70	0.12	7,686.5	4,214.7	8.6	4,214.7	0.00	0.00	0.00
11,800.0	90.70	0.12	7,685.3	4,314.6	8.8	4,314.7	0.00	0.00	0.00
11,872.4	90.70	0.12	7,684.4	4,387.0	8.9	4,387.0	0.00	0.00	0.00

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									
Loveland 12-9-67 1H BH	0.00	0.00	7,684.4	4,387.0	8.9	523,026.00	2,182,530.00	40° 46' 2.11275336 N	4° 50' 27.88036882 W
- plan hits target center									
- Point									