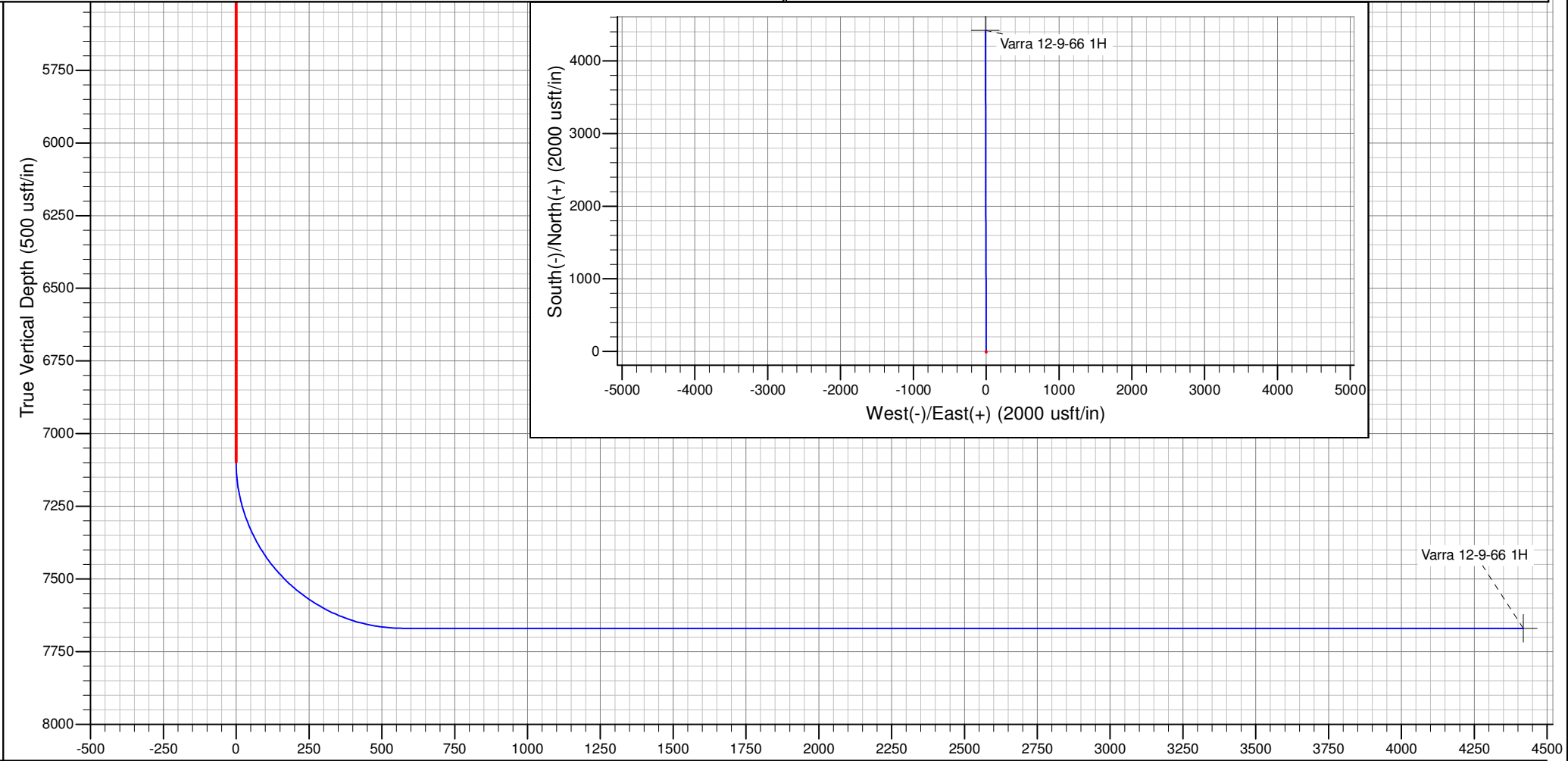


Project: Weld - DJ Basin  
Site: Varra 12-9-66 1H  
Well: Varra 12-9-66 1H  
Wellbore: Varra 12-9-66 1H  
Design: Varra 12-9-66 1H

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	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	7097.0	0.00	0.00	7097.0	0.0	0.0	0.00	0.00	0.0	
3	7997.0	90.00	359.85	7670.0	573.0	-1.5	10.00	359.85	573.0	
	411842.1	90.00	359.85	7670.0	4418.0	-11.2	0.00	0.00	4418.1	Varra 12-9-66 1H

# **Chesapeake Energy -Rockies District**

**Weld - DJ Basin**

**Varra 12-9-66 1H**

**Varra 12-9-66 1H**

**Varra 12-9-66 1H**

**Plan: Varra 12-9-66 1H**

## **Standard Planning Report**

**15 April, 2011**

# Chesapeake Operating

## Planning Report

<b>Database:</b>	Drilling Database	<b>Local Co-ordinate Reference:</b>	Well Varra 12-9-66 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>	Varra 12-9-66 1H	<b>North Reference:</b>	Grid
<b>Well:</b>	Varra 12-9-66 1H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Varra 12-9-66 1H		
<b>Design:</b>	Varra 12-9-66 1H		

<b>Project</b>	Weld - DJ Basin		
<b>Map System:</b>	US State Plane 1927 (Exact solution)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	Colorado North 501		

Site		Varra 12-9-66 1H				
Site Position:		Northing:	518,786.95 ft	Latitude:	40° 45' 17.68728691 N	
From:	Map	Easting:	2,214,351.22 ft	Longitude:	104° 43' 34.82981758 W	
Position Uncertainty:		0.0 usft	Slot Radius:	13.200 in	Grid Convergence:	0.50 °

Well	Varra 12-9-66 1H					
Well Position	+N/-S	0.0 usft	Northing:	518,786.95 ft	Latitude:	40° 45' 17.68728691 N
	+E/-W	0.0 usft	Easting:	2,214,351.22 ft	Longitude:	104° 43' 34.82981758 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	0.0 usft

<b>Wellbore</b>	Varra 12-9-66 1H				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF200510	4/15/2011	8.86	67.36	53,400

<b>Design</b>	Varra 12-9-66 1H			
<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	359.85

<b>Plan Sections</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>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>	<b>TFO (°)</b>	<b>Target</b>
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
7,097.0	0.00	0.00	7,097.0	0.0	0.0	0.00	0.00	0.00	0.00	
7,997.0	90.00	359.85	7,670.0	573.0	-1.5	10.00	10.00	0.00	359.85	
11,842.1	90.00	359.85	7,670.0	4,418.0	-11.2	0.00	0.00	0.00	0.00	Varra 12-9-66 1H

# Chesapeake Operating

## Planning Report

<b>Database:</b>	Drilling Database	<b>Local Co-ordinate Reference:</b>	Well Varra 12-9-66 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>	Varra 12-9-66 1H	<b>North Reference:</b>	Grid
<b>Well:</b>	Varra 12-9-66 1H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Varra 12-9-66 1H		
<b>Design:</b>	Varra 12-9-66 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

# Chesapeake Operating

## Planning Report

<b>Database:</b>	Drilling Database	<b>Local Co-ordinate Reference:</b>	Well Varra 12-9-66 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>	Varra 12-9-66 1H	<b>North Reference:</b>	Grid
<b>Well:</b>	Varra 12-9-66 1H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Varra 12-9-66 1H		
<b>Design:</b>	Varra 12-9-66 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
7,097.0	0.00	0.00	7,097.0	0.0	0.0	0.0	0.00	0.00	0.00
7,100.0	0.29	359.85	7,100.0	0.0	0.0	0.0	10.00	10.00	0.00
7,200.0	10.29	359.85	7,199.4	9.2	0.0	9.2	10.00	10.00	0.00
7,300.0	20.29	359.85	7,295.8	35.6	-0.1	35.6	10.00	10.00	0.00
7,400.0	30.29	359.85	7,386.1	78.2	-0.2	78.2	10.00	10.00	0.00
7,500.0	40.29	359.85	7,467.6	135.9	-0.3	135.9	10.00	10.00	0.00
7,600.0	50.29	359.85	7,537.8	206.9	-0.5	206.9	10.00	10.00	0.00
7,700.0	60.29	359.85	7,594.7	289.0	-0.7	289.0	10.00	10.00	0.00
7,800.0	70.29	359.85	7,636.4	379.8	-1.0	379.8	10.00	10.00	0.00
7,900.0	80.29	359.85	7,661.8	476.4	-1.2	476.4	10.00	10.00	0.00
7,997.0	90.00	359.85	7,670.0	573.0	-1.5	573.0	10.00	10.00	0.00
8,000.0	90.00	359.85	7,670.0	575.9	-1.5	575.9	0.00	0.00	0.00
8,100.0	90.00	359.85	7,670.0	675.9	-1.7	675.9	0.00	0.00	0.00
8,200.0	90.00	359.85	7,670.0	775.9	-2.0	775.9	0.00	0.00	0.00
8,300.0	90.00	359.85	7,670.0	875.9	-2.2	875.9	0.00	0.00	0.00
8,400.0	90.00	359.85	7,670.0	975.9	-2.5	975.9	0.00	0.00	0.00
8,500.0	90.00	359.85	7,670.0	1,075.9	-2.7	1,075.9	0.00	0.00	0.00
8,600.0	90.00	359.85	7,670.0	1,175.9	-3.0	1,175.9	0.00	0.00	0.00
8,700.0	90.00	359.85	7,670.0	1,275.9	-3.2	1,275.9	0.00	0.00	0.00
8,800.0	90.00	359.85	7,670.0	1,375.9	-3.5	1,375.9	0.00	0.00	0.00
8,900.0	90.00	359.85	7,670.0	1,475.9	-3.7	1,475.9	0.00	0.00	0.00
9,000.0	90.00	359.85	7,670.0	1,575.9	-4.0	1,575.9	0.00	0.00	0.00
9,100.0	90.00	359.85	7,670.0	1,675.9	-4.3	1,675.9	0.00	0.00	0.00
9,200.0	90.00	359.85	7,670.0	1,775.9	-4.5	1,775.9	0.00	0.00	0.00
9,300.0	90.00	359.85	7,670.0	1,875.9	-4.8	1,875.9	0.00	0.00	0.00
9,400.0	90.00	359.85	7,670.0	1,975.9	-5.0	1,975.9	0.00	0.00	0.00
9,500.0	90.00	359.85	7,670.0	2,075.9	-5.3	2,075.9	0.00	0.00	0.00
9,600.0	90.00	359.85	7,670.0	2,175.9	-5.5	2,175.9	0.00	0.00	0.00
9,700.0	90.00	359.85	7,670.0	2,275.9	-5.8	2,275.9	0.00	0.00	0.00
9,800.0	90.00	359.85	7,670.0	2,375.9	-6.0	2,375.9	0.00	0.00	0.00
9,900.0	90.00	359.85	7,670.0	2,475.9	-6.3	2,475.9	0.00	0.00	0.00
10,000.0	90.00	359.85	7,670.0	2,575.9	-6.5	2,575.9	0.00	0.00	0.00
10,100.0	90.00	359.85	7,670.0	2,675.9	-6.8	2,675.9	0.00	0.00	0.00
10,200.0	90.00	359.85	7,670.0	2,775.9	-7.0	2,775.9	0.00	0.00	0.00
10,300.0	90.00	359.85	7,670.0	2,875.9	-7.3	2,875.9	0.00	0.00	0.00
10,400.0	90.00	359.85	7,670.0	2,975.9	-7.6	2,975.9	0.00	0.00	0.00
10,500.0	90.00	359.85	7,670.0	3,075.9	-7.8	3,075.9	0.00	0.00	0.00

# Chesapeake Operating

## Planning Report

<b>Database:</b>	Drilling Database	<b>Local Co-ordinate Reference:</b>	Well Varra 12-9-66 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>	Varra 12-9-66 1H	<b>North Reference:</b>	Grid
<b>Well:</b>	Varra 12-9-66 1H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Varra 12-9-66 1H		
<b>Design:</b>	Varra 12-9-66 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	90.00	359.85	7,670.0	3,175.9	-8.1	3,175.9	0.00	0.00	0.00	
10,700.0	90.00	359.85	7,670.0	3,275.9	-8.3	3,275.9	0.00	0.00	0.00	
10,800.0	90.00	359.85	7,670.0	3,375.9	-8.6	3,375.9	0.00	0.00	0.00	
10,900.0	90.00	359.85	7,670.0	3,475.9	-8.8	3,475.9	0.00	0.00	0.00	
11,000.0	90.00	359.85	7,670.0	3,575.9	-9.1	3,575.9	0.00	0.00	0.00	
11,100.0	90.00	359.85	7,670.0	3,675.9	-9.3	3,675.9	0.00	0.00	0.00	
11,200.0	90.00	359.85	7,670.0	3,775.9	-9.6	3,775.9	0.00	0.00	0.00	
11,300.0	90.00	359.85	7,670.0	3,875.9	-9.8	3,875.9	0.00	0.00	0.00	
11,400.0	90.00	359.85	7,670.0	3,975.9	-10.1	3,975.9	0.00	0.00	0.00	
11,500.0	90.00	359.85	7,670.0	4,075.9	-10.4	4,075.9	0.00	0.00	0.00	
11,600.0	90.00	359.85	7,670.0	4,175.9	-10.6	4,175.9	0.00	0.00	0.00	
11,700.0	90.00	359.85	7,670.0	4,275.9	-10.9	4,275.9	0.00	0.00	0.00	
11,800.0	90.00	359.85	7,670.0	4,375.9	-11.1	4,375.9	0.00	0.00	0.00	
11,842.1	90.00	359.85	7,670.0	4,418.0	-11.2	4,418.1	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										
Varra 12-9-66 1H	0.00	0.00	7,670.0	4,418.0	-11.2	523,205.00	2,214,340.00	40° 46' 1.34228771 N	4° 43' 34.47469216 W	
- plan hits target center										
- Point										