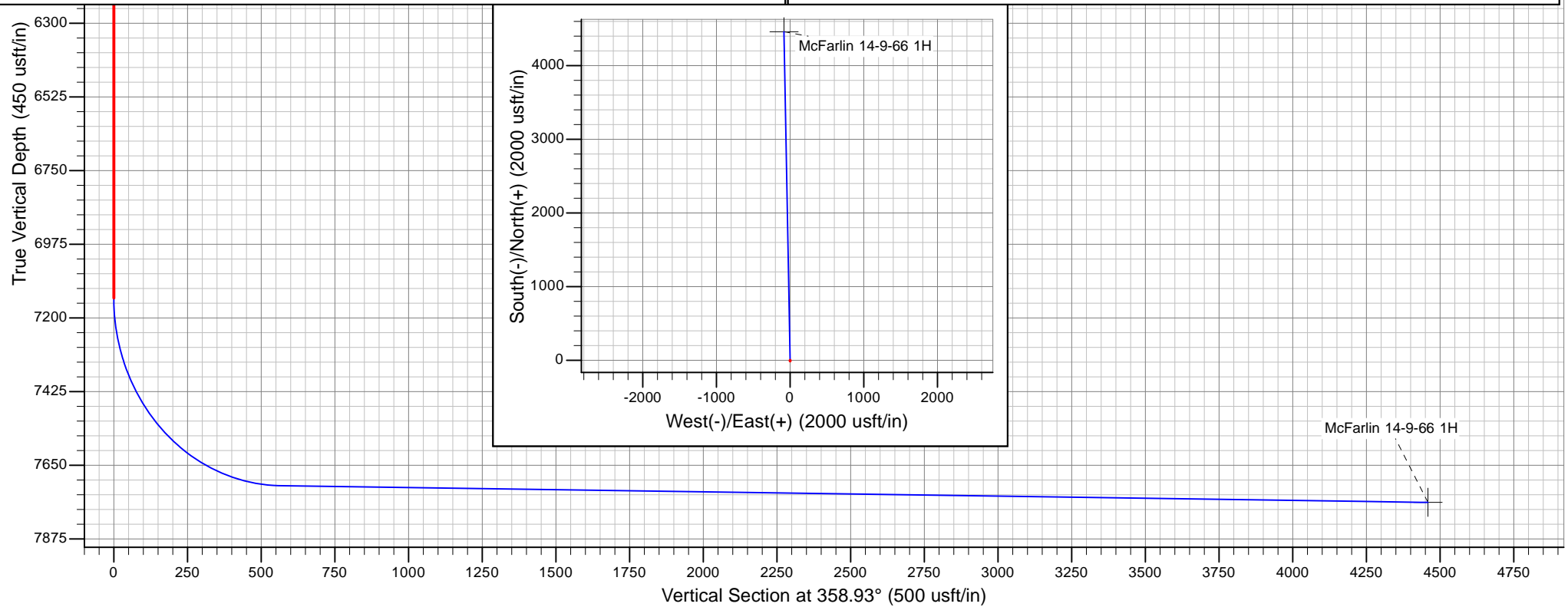


Project: Weld - DJ Basin  
Site: McFarlin 14-9-66 1H  
Well: McFarlin 14-9-66 1H  
Wellbore: McFarlin 14-9-66 1H  
Design: Design #1

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	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	7139.1	0.00	0.00	7139.1	0.0	0.0	0.00	0.00	0.0	
3	8031.6	89.25	358.93	7712.0	565.4	-10.6	10.00	358.93	565.5	
4	11925.5	89.25	358.93	7763.0	4458.3	-83.4	0.00	0.00	4459.1	McFarlin 14-9-66 1H

# **Chesapeake Energy -Rockies District**

**Weld - DJ Basin**

**McFarlin 14-9-66 1H**

**McFarlin 14-9-66 1H**

**McFarlin 14-9-66 1H**

**Plan: Design #1**

## **Standard Planning Report**

**07 October, 2011**

# Chesapeake Operating

## Planning Report

<b>Database:</b>	Drilling Database	<b>Local Co-ordinate Reference:</b>	Well McFarlin 14-9-66 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>	McFarlin 14-9-66 1H	<b>North Reference:</b>	Grid
<b>Well:</b>	McFarlin 14-9-66 1H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	McFarlin 14-9-66 1H		
<b>Design:</b>	Design #1		

<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		

<b>Site</b>	McFarlin 14-9-66 1H		
<b>Site Position:</b>		<b>Northing:</b>	513,424.72 ft
<b>From:</b>	Map	<b>Easting:</b>	2,211,756.42 ft
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	13.200 in
		<b>Latitude:</b>	40° 44' 24.92602446 N
		<b>Longitude:</b>	104° 44' 9.14466187 W
		<b>Grid Convergence:</b>	0.49 °

<b>Well</b>	McFarlin 14-9-66 1H		
<b>Well Position</b>	<b>+N/-S</b>	0.0 usft	<b>Northing:</b> 513,424.72 ft
	<b>+E/-W</b>	0.0 usft	<b>Easting:</b> 2,211,756.42 ft
<b>Position Uncertainty</b>	0.0 usft	<b>Wellhead Elevation:</b>	<b>Ground Level:</b> 0.0 usft

<b>Wellbore</b>	McFarlin 14-9-66 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	10/7/2011	8.80	67.33	53,342

<b>Design</b>	Design #1			
<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	358.93

<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	
7,139.1	0.00	0.00	7,139.1	0.0	0.0	0.00	0.00	0.00	0.00	
8,031.6	89.25	358.93	7,712.0	565.4	-10.6	10.00	10.00	0.00	358.93	
11,925.5	89.25	358.93	7,763.0	4,458.3	-83.4	0.00	0.00	0.00	0.00	McFarlin 14-9-66 1H

# Chesapeake Operating

## Planning Report

<b>Database:</b>	Drilling Database	<b>Local Co-ordinate Reference:</b>	Well McFarlin 14-9-66 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>	McFarlin 14-9-66 1H	<b>North Reference:</b>	Grid
<b>Well:</b>	McFarlin 14-9-66 1H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	McFarlin 14-9-66 1H		
<b>Design:</b>	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

# Chesapeake Operating

## Planning Report

<b>Database:</b>	Drilling Database	<b>Local Co-ordinate Reference:</b>	Well McFarlin 14-9-66 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>	McFarlin 14-9-66 1H	<b>North Reference:</b>	Grid
<b>Well:</b>	McFarlin 14-9-66 1H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	McFarlin 14-9-66 1H		
<b>Design:</b>	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
6,600.0	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
7,139.1	0.00	0.00	7,139.1	0.0	0.0	0.0	0.00	0.00	0.00
7,150.0	1.09	358.93	7,150.0	0.1	0.0	0.1	10.00	10.00	0.00
7,200.0	6.09	358.93	7,199.9	3.2	-0.1	3.2	10.00	10.00	0.00
7,250.0	11.09	358.93	7,249.3	10.7	-0.2	10.7	10.00	10.00	0.00
7,300.0	16.09	358.93	7,297.9	22.4	-0.4	22.4	10.00	10.00	0.00
7,350.0	21.09	358.93	7,345.3	38.4	-0.7	38.4	10.00	10.00	0.00
7,400.0	26.09	358.93	7,391.1	58.4	-1.1	58.4	10.00	10.00	0.00
7,450.0	31.09	358.93	7,435.0	82.3	-1.5	82.3	10.00	10.00	0.00
7,500.0	36.09	358.93	7,476.6	109.9	-2.1	109.9	10.00	10.00	0.00
7,550.0	41.09	358.93	7,515.7	141.1	-2.6	141.1	10.00	10.00	0.00
7,600.0	46.09	358.93	7,551.9	175.5	-3.3	175.6	10.00	10.00	0.00
7,650.0	51.09	358.93	7,584.9	213.0	-4.0	213.1	10.00	10.00	0.00
7,700.0	56.09	358.93	7,614.6	253.2	-4.7	253.3	10.00	10.00	0.00
7,750.0	61.09	358.93	7,640.7	295.9	-5.5	296.0	10.00	10.00	0.00
7,800.0	66.09	358.93	7,662.9	340.7	-6.4	340.7	10.00	10.00	0.00
7,850.0	71.09	358.93	7,681.1	387.2	-7.2	387.3	10.00	10.00	0.00
7,900.0	76.09	358.93	7,695.3	435.1	-8.1	435.2	10.00	10.00	0.00
7,950.0	81.09	358.93	7,705.2	484.1	-9.1	484.2	10.00	10.00	0.00
8,000.0	86.09	358.93	7,710.7	533.8	-10.0	533.9	10.00	10.00	0.00
8,031.6	89.25	358.93	7,712.0	565.4	-10.6	565.5	10.00	10.00	0.00
8,100.0	89.25	358.93	7,712.9	633.7	-11.9	633.8	0.00	0.00	0.00
8,200.0	89.25	358.93	7,714.2	733.7	-13.7	733.8	0.00	0.00	0.00
8,300.0	89.25	358.93	7,715.5	833.7	-15.6	833.8	0.00	0.00	0.00
8,400.0	89.25	358.93	7,716.9	933.6	-17.5	933.8	0.00	0.00	0.00
8,500.0	89.25	358.93	7,718.2	1,033.6	-19.3	1,033.8	0.00	0.00	0.00
8,600.0	89.25	358.93	7,719.5	1,133.6	-21.2	1,133.8	0.00	0.00	0.00
8,700.0	89.25	358.93	7,720.8	1,233.6	-23.1	1,233.8	0.00	0.00	0.00
8,800.0	89.25	358.93	7,722.1	1,333.5	-25.0	1,333.8	0.00	0.00	0.00
8,900.0	89.25	358.93	7,723.4	1,433.5	-26.8	1,433.8	0.00	0.00	0.00
9,000.0	89.25	358.93	7,724.7	1,533.5	-28.7	1,533.8	0.00	0.00	0.00
9,100.0	89.25	358.93	7,726.0	1,633.5	-30.6	1,633.7	0.00	0.00	0.00
9,200.0	89.25	358.93	7,727.3	1,733.4	-32.4	1,733.7	0.00	0.00	0.00
9,300.0	89.25	358.93	7,728.6	1,833.4	-34.3	1,833.7	0.00	0.00	0.00
9,400.0	89.25	358.93	7,729.9	1,933.4	-36.2	1,933.7	0.00	0.00	0.00
9,500.0	89.25	358.93	7,731.3	2,033.4	-38.0	2,033.7	0.00	0.00	0.00
9,600.0	89.25	358.93	7,732.6	2,133.3	-39.9	2,133.7	0.00	0.00	0.00

# Chesapeake Operating

## Planning Report

<b>Database:</b>	Drilling Database	<b>Local Co-ordinate Reference:</b>	Well McFarlin 14-9-66 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>	McFarlin 14-9-66 1H	<b>North Reference:</b>	Grid
<b>Well:</b>	McFarlin 14-9-66 1H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	McFarlin 14-9-66 1H		
<b>Design:</b>	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)	
9,700.0	89.25	358.93	7,733.9	2,233.3	-41.8	2,233.7	0.00	0.00	0.00	
9,800.0	89.25	358.93	7,735.2	2,333.3	-43.7	2,333.7	0.00	0.00	0.00	
9,900.0	89.25	358.93	7,736.5	2,433.3	-45.5	2,433.7	0.00	0.00	0.00	
10,000.0	89.25	358.93	7,737.8	2,533.2	-47.4	2,533.7	0.00	0.00	0.00	
10,100.0	89.25	358.93	7,739.1	2,633.2	-49.3	2,633.7	0.00	0.00	0.00	
10,200.0	89.25	358.93	7,740.4	2,733.2	-51.1	2,733.7	0.00	0.00	0.00	
10,300.0	89.25	358.93	7,741.7	2,833.1	-53.0	2,833.6	0.00	0.00	0.00	
10,400.0	89.25	358.93	7,743.0	2,933.1	-54.9	2,933.6	0.00	0.00	0.00	
10,500.0	89.25	358.93	7,744.3	3,033.1	-56.8	3,033.6	0.00	0.00	0.00	
10,600.0	89.25	358.93	7,745.6	3,133.1	-58.6	3,133.6	0.00	0.00	0.00	
10,700.0	89.25	358.93	7,747.0	3,233.0	-60.5	3,233.6	0.00	0.00	0.00	
10,800.0	89.25	358.93	7,748.3	3,333.0	-62.4	3,333.6	0.00	0.00	0.00	
10,900.0	89.25	358.93	7,749.6	3,433.0	-64.2	3,433.6	0.00	0.00	0.00	
11,000.0	89.25	358.93	7,750.9	3,533.0	-66.1	3,533.6	0.00	0.00	0.00	
11,100.0	89.25	358.93	7,752.2	3,632.9	-68.0	3,633.6	0.00	0.00	0.00	
11,200.0	89.25	358.93	7,753.5	3,732.9	-69.8	3,733.6	0.00	0.00	0.00	
11,300.0	89.25	358.93	7,754.8	3,832.9	-71.7	3,833.6	0.00	0.00	0.00	
11,400.0	89.25	358.93	7,756.1	3,932.9	-73.6	3,933.5	0.00	0.00	0.00	
11,500.0	89.25	358.93	7,757.4	4,032.8	-75.5	4,033.5	0.00	0.00	0.00	
11,600.0	89.25	358.93	7,758.7	4,132.8	-77.3	4,133.5	0.00	0.00	0.00	
11,700.0	89.25	358.93	7,760.0	4,232.8	-79.2	4,233.5	0.00	0.00	0.00	
11,800.0	89.25	358.93	7,761.4	4,332.8	-81.1	4,333.5	0.00	0.00	0.00	
11,900.0	89.25	358.93	7,762.7	4,432.7	-82.9	4,433.5	0.00	0.00	0.00	
11,925.5	89.25	358.93	7,763.0	4,458.3	-83.4	4,459.1	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										
McFarlin 14-9-66 1H	0.00	0.00	7,763.0	4,458.3	-83.4	517,883.00	2,211,673.00	40° 45' 8.98491946 N	104° 44' 9.72934627 W	
- plan hits target center										
- Point										