

# **US ROCKIES REGION PLANNING**

**COLORADO NORTHERN ZONE - 83**

**WELD\_DECHANT 20-8**

**Dechant 38-8**

**Dechant 38-8**

**Plan: Dechant 38-8 (wp01)**

## **Standard Planning Report**

**03 January, 2011**



**Weatherford<sup>®</sup>**

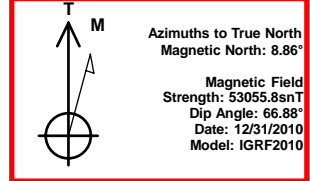
Project: COLORADO NORTHERN ZONE - 83  
 Site: WELD\_DECHANT 20-8  
 Well: Dechant 38-8  
 Wellbore: Dechant 38-8  
 Section:  
 SHL:  
 Design: Dechant 38-8 (wp01)  
 Latitude: 40.149009  
 Longitude: -104.682142  
 GL: 4911.00  
 KB: WELL @ 4911.00ft (Original Well Elev)

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
4111.00	4366.62	PK
4521.00	4778.49	SX
6981.00	7238.49	NIO
7261.00	7518.49	CD
7348.00	7605.49	GH
7711.00	7968.49	J

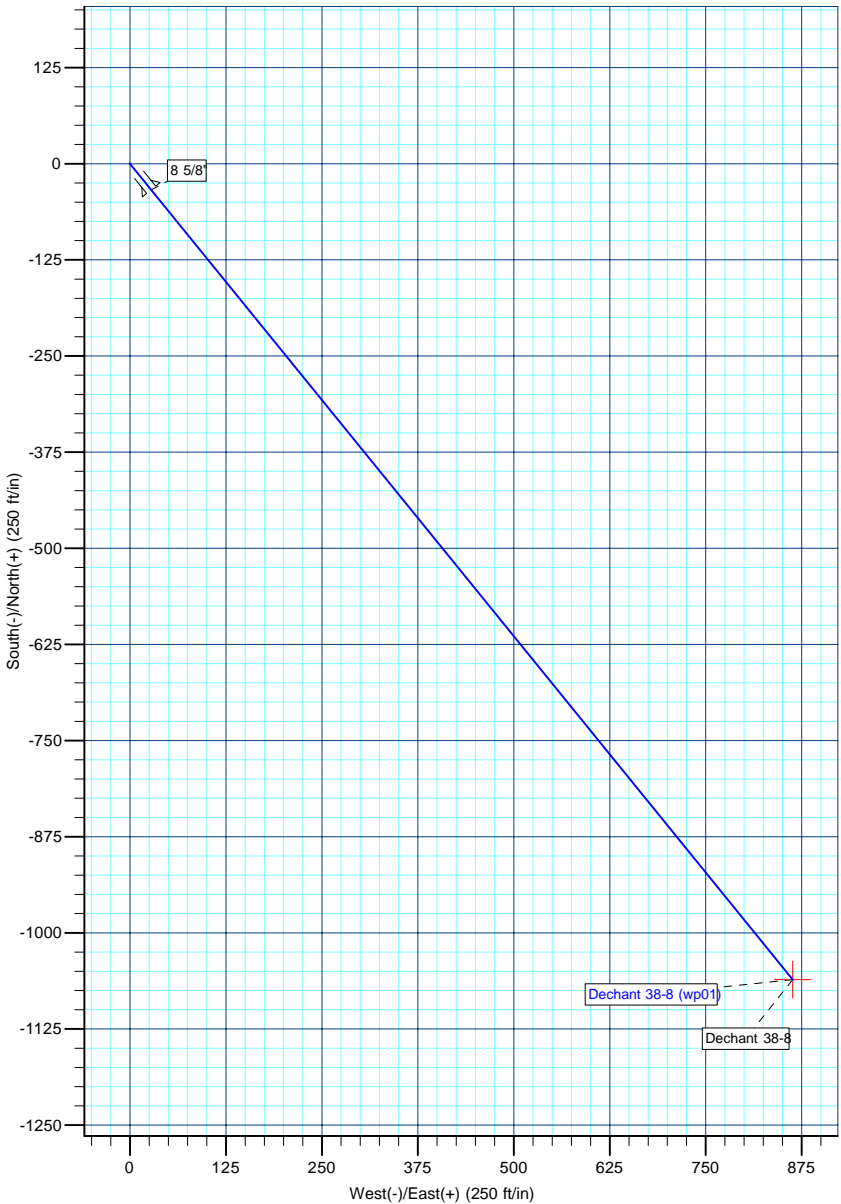


WELL DETAILS: Dechant 38-8						
+N/-S	+E/-W	Northing	Ground Level: Easting	4911.00 Latitude	Longitude	Slot
0.00	0.00	1298161.67	3228621.98	40.149009	-104.682142	

DESIGN TARGET DETAILS									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	Point
Dechant 38-8	7861.00	-1060.76	863.26	1297128.92	3229494.99	40.146097	-104.679054	Point	



SECTION DETAILS										
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1515.86	24.32	140.86	1479.68	-197.13	160.43	2.00	140.86	254.16		
3602.63	24.32	140.86	3381.32	-863.62	702.83	0.00	0.001113.47			
4818.49	0.00	0.00	4561.00	-1060.76	863.26	2.00	180.001367.63			
8118.49	0.00	0.00	7861.00	-1060.76	863.26	0.00	0.001367.63			Dechant 38-8



<b>Database:</b>	edm5000p	<b>Local Co-ordinate Reference:</b>	Well Dechant 38-8
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	WELL @ 4911.00ft (Original Well Elev)
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	WELL @ 4911.00ft (Original Well Elev)
<b>Site:</b>	WELD_DECHANT 20-8	<b>North Reference:</b>	True
<b>Well:</b>	Dechant 38-8	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Dechant 38-8		
<b>Design:</b>	Dechant 38-8 (wp01)		

<b>Project</b>	COLORADO NORTHERN ZONE - 83		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Northern Zone		

<b>Site</b>	WELD_DECHANT 20-8				
<b>Site Position:</b>		<b>Northing:</b>	1,298,197.34 ft	<b>Latitude:</b>	40.149052
<b>From:</b>	Lat/Long	<b>Easting:</b>	3,228,621.84 ft	<b>Longitude:</b>	-104.682142
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	0 "	<b>Grid Convergence:</b>	0.53 °

<b>Well</b>	Dechant 38-8					
<b>Well Position</b>	<b>+N/-S</b>	-15.68 ft	<b>Northing:</b>	1,298,181.67 ft	<b>Latitude:</b>	40.149009
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b>	3,228,621.98 ft	<b>Longitude:</b>	-104.682142
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>		<b>Ground Level:</b>	4,911.00 ft

<b>Wellbore</b>	Dechant 38-8				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	12/31/2010	8.86	66.88	53,056

<b>Design</b>	Dechant 38-8 (wp01)			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	140.86

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,515.86	24.32	140.86	1,479.68	-197.13	160.43	2.00	2.00	0.00	140.86	
3,602.63	24.32	140.86	3,381.32	-863.62	702.83	0.00	0.00	0.00	0.00	
4,818.49	0.00	0.00	4,561.00	-1,060.76	863.26	2.00	-2.00	0.00	180.00	
8,118.49	0.00	0.00	7,861.00	-1,060.76	863.26	0.00	0.00	0.00	0.00	Dechant 38-8

<b>Database:</b>	edm5000p	<b>Local Co-ordinate Reference:</b>	Well Dechant 38-8
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	WELL @ 4911.00ft (Original Well Elev)
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	WELL @ 4911.00ft (Original Well Elev)
<b>Site:</b>	WELD_DECHANT 20-8	<b>North Reference:</b>	True
<b>Well:</b>	Dechant 38-8	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Dechant 38-8		
<b>Design:</b>	Dechant 38-8 (wp01)		

**Planned Survey**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
802.57	10.05	140.86	800.00	-34.10	27.75	43.97	2.00	2.00	0.00
<b>8 5/8"</b>									
1,515.86	24.32	140.86	1,479.68	-197.13	160.43	254.16	2.00	2.00	0.00
3,602.63	24.32	140.86	3,381.32	-863.62	702.83	1,113.47	0.00	0.00	0.00
4,366.62	9.04	140.86	4,111.00	-1,033.17	840.81	1,332.07	2.00	-2.00	0.00
<b>PK</b>									
4,778.49	0.80	140.86	4,521.00	-1,060.54	863.08	1,367.36	2.00	-2.00	0.00
<b>SX</b>									
4,818.49	0.00	0.00	4,561.00	-1,060.76	863.26	1,367.63	2.00	-2.00	0.00
7,238.49	0.00	0.00	6,981.00	-1,060.76	863.26	1,367.63	0.00	0.00	0.00
<b>NIO</b>									
7,518.49	0.00	0.00	7,261.00	-1,060.76	863.26	1,367.63	0.00	0.00	0.00
<b>CD</b>									
7,605.49	0.00	0.00	7,348.00	-1,060.76	863.26	1,367.63	0.00	0.00	0.00
<b>GH</b>									
7,968.49	0.00	0.00	7,711.00	-1,060.76	863.26	1,367.63	0.00	0.00	0.00
<b>J</b>									
8,118.49	0.00	0.00	7,861.00	-1,060.76	863.26	1,367.63	0.00	0.00	0.00
<b>Dechant 38-8</b>									

**Design Targets**

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Dechant 38-8 - hit/miss target - Shape - Point	0.00	0.00	7,861.00	-1,060.76	863.26	1,297,128.92	3,229,494.99	40.146097	-104.679054

**Casing Points**

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
802.57	800.00	8 5/8"	8-5/8	11

**Formations**

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,366.62	4,111.00	PK			
4,778.49	4,521.00	SX			
7,238.49	6,981.00	NIO			
7,518.49	7,261.00	CD			
7,605.49	7,348.00	GH			
7,968.49	7,711.00	J			

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