

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

DECHANT 8-12 PAD

DECHANT 27-12

DECHANT 27-12

Plan: DECHANT 27-12 (wp01)

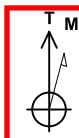
Standard Planning Report

09 December, 2010



Weatherford®

Project: COLORADO NORTHERN ZONE - 83
 Site: DECHANT 8-12 PAD
 Well: DECHANT 27-12
 Wellbore: DECHANT 27-12
 Section:
 SHL:
 Design: DECHANT 27-12 (wp01)
 Latitude: 40.154729
 Longitude: -104.603997
 GL: 0.00
 KB: WELL @ 4897.00ft (Original Well Elev)



Azimuths to True North
 Magnetic North: 8.83°
 Magnetic Field
 Strength: 53073.7snT
 Dip Angle: 66.90°
 Date: 12/9/2010
 Model: IGRF2010



Weatherford

WELL DETAILS: DECHANT 27-12

+N/-S	+E/-W	Northing	Ground Level: Easting	0.00 Latitude	Longitude	Slot
0.00	0.00	1300476.35	3250444.67	40.154729	-104.603997	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Point	Shape
DECHANT 27-12	7747.00	1871.34	-1017.09	40.159866	-104.607636		

FORMATION TOP DETAILS

TVDPath	MDPath	PK	Formation
4097.00	4391.99	0.00	0.00
4437.00	4766.96	0.00	0.00
6847.00	7277.88	0.00	0.00
7129.00	7559.88	0.00	0.00
7213.00	7643.88	0.00	0.00
7597.00	8027.88	0.00	0.00

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	
3	1647.04	24.94	331.48	1608.03	234.73	-127.58	2.00	331.48	267.16	
4	5430.85	24.94	331.48	5038.97	1636.61	-889.51	0.00	0.00	0.00	
5	6677.88	0.00	0.00	6247.00	1871.34	-1017.09	2.00	180.00	2129.88	
6	8177.88	0.00	0.00	7747.00	1871.34	-1017.09	0.00	0.00	2129.88	DECHANT 27-12

CASING DETAILS

TVD	MD	Name	Size
800.00	801.31	9 5/8"	9-5/8



Database:	edm5000p	Local Co-ordinate Reference:	Well DECHANT 27-12
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 4897.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 4897.00ft (Original Well Elev)
Site:	DECHANT 8-12 PAD	North Reference:	True
Well:	DECHANT 27-12	Survey Calculation Method:	Minimum Curvature
Wellbore:	DECHANT 27-12		
Design:	DECHANT 27-12 (wp01)		

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

Site	DECHANT 8-12 PAD		
Site Position:		Northing:	Latitude:
From:	Lat/Long	Easting:	Longitude:
Position Uncertainty:		Slot Radius:	Grid Convergence:

Well	DECHANT 27-12		
Well Position	+N/-S	Northing:	Latitude:
	+E/-W	Easting:	Longitude:
Position Uncertainty		Wellhead Elevation:	Ground Level:

Wellbore	DECHANT 27-12		
-----------------	---------------	--	--

Magnetics	Model Name	Sample Date	Declination ()	Dip Angle ()	Field Strength (nT)
	IGRF2010	12/9/2010			

Design	DECHANT 27-12 (wp01)		
---------------	----------------------	--	--

Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	()	()	()	()

Plan Sections										
Measured Depth ()	Inclination ()	Azimuth ()	Vertical Depth ()	+N/-S ()	+E/-W ()	Dogleg Rate ()	Build Rate ()	Turn Rate ()	TFO ()	Target

DECHANT 27-12

Database:	edm5000p	Local Co-ordinate Reference:	Well DECHANT 27-12
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 4897.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 4897.00ft (Original Well Elev)
Site:	DECHANT 8-12 PAD	North Reference:	True
Well:	DECHANT 27-12	Survey Calculation Method:	Minimum Curvature
Wellbore:	DECHANT 27-12		
Design:	DECHANT 27-12 (wp01)		

Planned Survey										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate	
()	()	()	()	()	()	()	()	()	()	()
Start Build 2.00										
9 5/8"										
Start 3783.81 hold at 1647.04 MD										
PK										

Database:	edm5000p	Local Co-ordinate Reference:	Well DECHANT 27-12
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 4897.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 4897.00ft (Original Well Elev)
Site:	DECHANT 8-12 PAD	North Reference:	True
Well:	DECHANT 27-12	Survey Calculation Method:	Minimum Curvature
Wellbore:	DECHANT 27-12		
Design:	DECHANT 27-12 (wp01)		

Planned Survey										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate	
()	()	()	()	()	()	()	()	()	()	()
SX										
Start Drop -2.00										
Start 1500.00 hold at 6677.88 MD										
NIO										
CD										
GH										
J										
TD at 8177.88 - DECHANT 27-12										

Database:	edm5000p	Local Co-ordinate Reference:	Well DECHANT 27-12
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 4897.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 4897.00ft (Original Well Elev)
Site:	DECHANT 8-12 PAD	North Reference:	True
Well:	DECHANT 27-12	Survey Calculation Method:	Minimum Curvature
Wellbore:	DECHANT 27-12		
Design:	DECHANT 27-12 (wp01)		

Casing Points				
Measured Depth ()	Vertical Depth ()	Name	Casing Diameter ()	Hole Diameter ()
		9 5/8"		

Formations					
Measured Depth ()	Vertical Depth ()	Name	Lithology	Dip ()	Dip Direction ()
		PK			
		SX			
		NIO			
		CD			
		GH			
		J			

Plan Annotations				
Measured Depth ()	Vertical Depth ()	Local Coordinates		Comment
		+N/-S ()	+E/-W ()	
				Start Build 2.00
				Start 3783.81 hold at 1647.04 MD
				Start Drop -2.00
				Start 1500.00 hold at 6677.88 MD
				TD at 8177.88