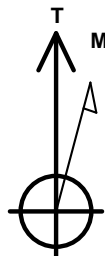


SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
2	1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0
3	2425.0	28.50	254.09	2367.0	-95.1	-333.9	2.00	254.09	347.2
4	5378.8	28.50	254.09	4962.8	-481.4	-1689.3	0.00	0.00	1756.6
5	7278.8	0.00	0.00	6785.4	-608.3	-2134.5	1.50	180.00	2219.5
6	8028.4	0.00	0.00	7535.0	-608.3	-2134.5	0.00	0.00	2219.5



Azimuths to True North
Magnetic North: 9.07°

Magnetic Field
Strength: 53261.3snT
Dip Angle: 66.97°
Date: 5/20/2009
Model: IGRF200510

ROCKIES - PLANNING

COLORADO NORTHERN ZONE - 83

WELD_CAMP 15-25 PAD (3N 66W)

P_CAMP FEDERAL 35-25

P_CAMP FEDERAL 35-25

Plan: Plan #1 05-20-09 ZJRA6

Standard Planning Report - Geographic

20 May, 2009

APC

Planning Report - Geographic

Database:	apc_edmp	Local Co-ordinate Reference:	Site WELD_CAMP 15-25 PAD (3N 66W)
Company:	ROCKIES - PLANNING	TVD Reference:	WELL @ 4978.0ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 4978.0ft (Original Well Elev)
Site:	WELD_CAMP 15-25 PAD (3N 66W)	North Reference:	True
Well:	P_CAMP FEDERAL 35-25	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_CAMP FEDERAL 35-25		
Design:	Plan #1 05-20-09 ZJRA6		

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						WELD_CAMP 15-25 PAD (3N 66W)							
Site Position: From: Position Uncertainty:			Lat/Long 0.0 ft			Northing:		1,313,324.30ft		Latitude:		40.190860°N	
						Easting:		3,217,109.30ft		Longitude:		104.722850°W	
						Slot Radius:		"		Grid Convergence:		0.50 °	

Well	P_CAMP FEDERAL 35-25					
Well Position	+N-S	0.0 ft	Northing:	1,313,324.29 ft	Latitude:	40.190860°N
	+E-W	0.0 ft	Easting:	3,217,109.30 ft	Longitude:	104.722850°W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,978.0 ft

Wellbore	P_CAMP FEDERAL 35-25				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	5/20/2009	9.07	66.97	53,261

Design	Plan #1 05-20-09 ZJRA6			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	254.09

Plan Sections										
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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,425.0	28.50	254.09	2,367.0	-95.1	-333.9	2.00	2.00	0.00	254.09	
5,378.8	28.50	254.09	4,962.8	-481.4	-1,689.3	0.00	0.00	0.00	0.00	
7,278.8	0.00	0.00	6,785.4	-608.3	-2,134.5	1.50	-1.50	0.00	180.00	
8,028.4	0.00	0.00	7,535.0	-608.3	-2,134.5	0.00	0.00	0.00	0.00	PBHL_CAMP FED

APC

Planning Report - Geographic

Database:	apc_edmp	Local Co-ordinate Reference:	Site WELD_CAMP 15-25 PAD (3N 66W)
Company:	ROCKIES - PLANNING	TVD Reference:	WELL @ 4978.0ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 4978.0ft (Original Well Elev)
Site:	WELD_CAMP 15-25 PAD (3N 66W)	North Reference:	True
Well:	P_CAMP FEDERAL 35-25	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_CAMP FEDERAL 35-25		
Design:	Plan #1 05-20-09 ZJRA6		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	1,313,324.29	3,217,109.30	40.190860°N	104.722850°W
800.0	0.00	0.00	800.0	0.0	0.0	1,313,324.29	3,217,109.30	40.190860°N	104.722850°W
Surface Casing									
1,000.0	0.00	0.00	1,000.0	0.0	0.0	1,313,324.29	3,217,109.30	40.190860°N	104.722850°W
2,425.0	28.50	254.09	2,367.0	-95.1	-333.9	1,313,226.23	3,216,776.28	40.190599°N	104.724045°W
4,738.4	28.50	254.09	4,400.0	-397.7	-1,395.5	1,312,914.42	3,215,717.38	40.189768°N	104.727845°W
Sussex									
5,378.8	28.50	254.09	4,962.8	-481.4	-1,689.3	1,312,828.11	3,215,424.27	40.189538°N	104.728897°W
7,278.8	0.00	0.00	6,785.4	-608.3	-2,134.5	1,312,697.36	3,214,980.23	40.189190°N	104.730490°W
7,588.4	0.00	0.00	7,095.0	-608.3	-2,134.5	1,312,697.36	3,214,980.23	40.189190°N	104.730490°W
Niobrara "A"									
7,876.4	0.00	0.00	7,383.0	-608.3	-2,134.5	1,312,697.36	3,214,980.23	40.189190°N	104.730490°W
Codell									
8,028.4	0.00	0.00	7,535.0	-608.3	-2,134.5	1,312,697.36	3,214,980.23	40.189190°N	104.730490°W

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL_CAMP FEDER	0.00	0.00	7,535.0	-608.3	-2,134.5	1,312,697.36	3,214,980.23	40.189190°N	104.730490°W
- plan hits target center									
- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
800.0	800.0	Surface Casing	8-5/8	12-1/4	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
7,876.4	7,383.0	Codell		0.00	
4,738.4	4,400.0	Sussex		0.00	
7,588.4	7,095.0	Niobrara "A"		0.00	