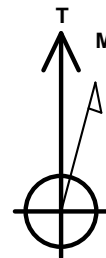


SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
1	0.0	0.00	0.00	0.0	0.0	30.7	0.00	0.00	0.0
2	1000.0	0.00	0.00	1000.0	0.0	30.7	0.00	0.00	0.0
3	1650.0	13.00	134.45	1644.4	-51.4	83.1	2.00	134.45	73.4
4	4541.9	13.00	134.45	4462.2	-507.0	547.5	0.00	0.00	724.0
5	5408.6	0.00	0.00	5321.5	-575.6	617.4	1.50	180.00	821.9
6	8072.1	0.00	0.00	7985.0	-575.6	617.4	0.00	0.00	821.9



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 37-25

P_CAMP FEDERAL 37-25

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 37-25	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_CAMP FEDERAL 37-25		
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:						Northing:			1,313,324.30ft			Latitude:			40.190860°N		
From:			Lat/Long			Easting:			3,217,109.30ft			Longitude:			104.722850°W		
Position Uncertainty:			0.0 ft			Slot Radius:			"			Grid Convergence:			0.50 °		

Well	P_CAMP FEDERAL 37-25					
Well Position	+N-S	0.0 ft	Northing:	1,313,324.56 ft	Latitude:	40.190860°N
	+E-W	30.7 ft	Easting:	3,217,139.98 ft	Longitude:	104.722740°W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,978.0 ft

Wellbore	P_CAMP FEDERAL 37-25				
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	30.7	134.45

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	30.7	0.00	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	30.7	0.00	0.00	0.00	0.00	
1,650.0	13.00	134.45	1,644.4	-51.4	83.1	2.00	2.00	0.00	134.45	
4,541.9	13.00	134.45	4,462.2	-507.0	547.5	0.00	0.00	0.00	0.00	
5,408.6	0.00	0.00	5,321.5	-575.6	617.4	1.50	-1.50	0.00	180.00	
8,072.1	0.00	0.00	7,985.0	-575.6	617.4	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 37-25	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_CAMP FEDERAL 37-25		
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	30.7	1,313,324.56	3,217,139.98	40.190860°N	104.722740°W
800.0	0.00	0.00	800.0	0.0	30.7	1,313,324.56	3,217,139.98	40.190860°N	104.722740°W
Surface Casing									
1,000.0	0.00	0.00	1,000.0	0.0	30.7	1,313,324.56	3,217,139.98	40.190860°N	104.722740°W
1,650.0	13.00	134.45	1,644.4	-51.4	83.1	1,313,273.60	3,217,192.85	40.190719°N	104.722552°W
4,478.0	13.00	134.45	4,400.0	-496.9	537.2	1,312,832.09	3,217,650.87	40.189496°N	104.720927°W
Sussex									
4,541.9	13.00	134.45	4,462.2	-507.0	547.5	1,312,822.12	3,217,661.21	40.189468°N	104.720890°W
5,408.6	0.00	0.00	5,321.5	-575.6	617.4	1,312,754.17	3,217,731.70	40.189280°N	104.720640°W
7,207.1	0.00	0.00	7,120.0	-575.6	617.4	1,312,754.17	3,217,731.70	40.189280°N	104.720640°W
Niobrara "A"									
7,495.1	0.00	0.00	7,408.0	-575.6	617.4	1,312,754.17	3,217,731.70	40.189280°N	104.720640°W
Codell									
7,921.1	0.00	0.00	7,834.0	-575.6	617.4	1,312,754.17	3,217,731.70	40.189280°N	104.720640°W
JSand									
8,072.1	0.00	0.00	7,985.0	-575.6	617.4	1,312,754.17	3,217,731.70	40.189280°N	104.720640°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	7,985.0	-575.6	617.4	1,312,754.17	3,217,731.70	40.189280°N	104.720640°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 (°)	
7,495.1	7,408.0	Codell		0.00		
7,207.1	7,120.0	Niobrara "A"		0.00		
7,921.1	7,834.0	JSand		0.00		
4,478.0	4,400.0	Sussex		0.00		