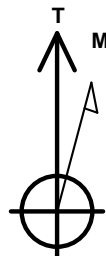


SECTION DETAILS

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	1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0
3	2250.0	15.00	257.44	2241.5	-21.2	-95.3	2.00	257.44	97.6
4	5175.7	15.00	257.44	5067.5	-185.9	-834.4	0.00	0.00	854.8
5	6175.7	0.00	0.00	6056.1	-214.2	-961.4	1.50	180.00	985.0
6	7554.6	0.00	0.00	7435.0	-214.2	-961.4	0.00	0.00	985.0



Azimuths to True North
Magnetic North: 9.10°

Magnetic Field
Strength: 53245.2snT
Dip Angle: 66.96°
Date: 7/17/2009
Model: IGRF200510

ROCKIES - PLANNING

COLORADO NORTHERN ZONE - 83

WELD_CAMP 8-24 PAD

P_CAMP 24-24

P_CAMP 24-24

Plan: Plan #1 07-17-09 ZJRA6

Standard Planning Report - Geographic

17 July, 2009

APC

Planning Report - Geographic

Database:	apc_edmp	Local Co-ordinate Reference:	Well P_CAMP 24-24
Company:	ROCKIES - PLANNING	TVD Reference:	WELL @ 4796.0ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 4796.0ft (Original Well Elev)
Site:	WELD_CAMP 8-24 PAD	North Reference:	True
Well:	P_CAMP 24-24	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_CAMP 24-24		
Design:	Plan #1 07-17-09 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 8-24 PAD			
Site Position:		Northing:	1,320,435.95ft	Latitude:	40.211060
From:	Lat/Long	Easting:	3,186,801.83ft	Longitude:	-104.831140
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.43 °

Well	P_CAMP 24-24					
Well Position	+N-S	0.0 ft	Northing:	1,320,439.23 ft	Latitude:	40.211070
	+E-W	0.0 ft	Easting:	3,186,754.33 ft	Longitude:	-104.831310
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,796.0 ft

Wellbore	P_CAMP 24-24				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	7/17/2009	9.10	66.96	53,245

Design	Plan #1 07-17-09 ZJRA6			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	7,435.0	0.0	0.0	257.44

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	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,250.0	15.00	257.44	2,241.5	-21.2	-95.3	2.00	2.00	0.00	257.44	
5,175.7	15.00	257.44	5,067.5	-185.9	-834.4	0.00	0.00	0.00	0.00	
6,175.7	0.00	0.00	6,056.1	-214.2	-961.4	1.50	-1.50	0.00	180.00	
7,554.6	0.00	0.00	7,435.0	-214.2	-961.4	0.00	0.00	0.00	0.00	PBHL_CAMP 24-24

APC

Planning Report - Geographic

Database:	apc_edmp	Local Co-ordinate Reference:	Well P_CAMP 24-24
Company:	ROCKIES - PLANNING	TVD Reference:	WELL @ 4796.0ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 4796.0ft (Original Well Elev)
Site:	WELD_CAMP 8-24 PAD	North Reference:	True
Well:	P_CAMP 24-24	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_CAMP 24-24		
Design:	Plan #1 07-17-09 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	1,320,439.23	3,186,754.33	40.211070	-104.831310
850.0	0.00	0.00	850.0	0.0	0.0	1,320,439.23	3,186,754.33	40.211070	-104.831310
Surface Casing									
1,500.0	0.00	0.00	1,500.0	0.0	0.0	1,320,439.23	3,186,754.33	40.211070	-104.831310
2,250.0	15.00	257.44	2,241.5	-21.2	-95.3	1,320,417.29	3,186,659.21	40.211012	-104.831651
5,175.7	15.00	257.44	5,067.5	-185.9	-834.4	1,320,247.05	3,185,921.36	40.210560	-104.834298
6,175.7	0.00	0.00	6,056.1	-214.2	-961.4	1,320,217.79	3,185,794.54	40.210482	-104.834752
7,119.6	0.00	0.00	7,000.0	-214.2	-961.4	1,320,217.79	3,185,794.54	40.210482	-104.834752
Niobrara "A"									
7,389.6	0.00	0.00	7,270.0	-214.2	-961.4	1,320,217.79	3,185,794.54	40.210482	-104.834752
Codell									
7,554.6	0.00	0.00	7,435.0	-214.2	-961.4	1,320,217.79	3,185,794.54	40.210482	-104.834752

Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting		
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	Latitude	Longitude
PBHL_CAMP 24-24	0.00	0.00	7,435.0	-214.2	-961.4	1,320,217.79	3,185,794.54	40.210482	-104.834752
- plan hits target center									
- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
850.0	850.0	Surface Casing	8-5/8	12-1/4	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
7,119.6	7,000.0	Niobrara "A"		0.00	
7,389.6	7,270.0	Codell		0.00	