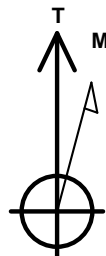


SECTION DETAILS

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	2075.0	11.50	210.99	2071.1	-49.3	-29.6	2.00	210.99	57.5
4	4135.5	11.50	210.99	4090.3	-401.5	-241.1	0.00	0.00	468.3
5	4902.2	0.00	0.00	4851.9	-467.2	-280.6	1.50	180.00	545.0
6	8004.4	0.00	0.00	7954.0	-467.2	-280.6	0.00	0.00	545.0



Azimuths to True North
 Magnetic North: 9.10°

Magnetic Field
 Strength: 53265.9snT
 Dip Angle: 66.99°
 Date: 6/30/2009
 Model: IGRF200510

ROCKIES - PLANNING

COLORADO NORTHERN ZONE - 83

WELD_BELLA 19-8

P_BELLA 19-8

P_BELLA 19-8

Plan: Plan #1 06-30-09 ZJRA6

Standard Planning Report - Geographic

30 June, 2009

APC

Planning Report - Geographic

Database:	apc_edmp	Local Co-ordinate Reference:	Well P_BELLA 19-8
Company:	ROCKIES - PLANNING	TVD Reference:	WELL @ 4862.0ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 4862.0ft (Original Well Elev)
Site:	WELD_BELLA 19-8	North Reference:	True
Well:	P_BELLA 19-8	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_BELLA 19-8		
Design:	Plan #1 06-30-09 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_BELLA 19-8			
Site Position:		Northing:	1,329,851.08ft	Latitude:	40.236750
From:	Lat/Long	Easting:	3,194,132.11ft	Longitude:	-104.804630
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.45 °

Well	P_BELLA 19-8					
Well Position	+N/-S	0.0 ft	Northing:	1,329,851.08 ft	Latitude:	40.236750
	+E/-W	0.0 ft	Easting:	3,194,132.11 ft	Longitude:	-104.804630
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,862.0 ft

Wellbore	P_BELLA 19-8				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	6/30/2009	9.10	66.99	53,266

Design	Plan #1 06-30-09 ZJRA6			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	7,954.0	0.0	0.0	210.99

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	
2,075.0	11.50	210.99	2,071.1	-49.3	-29.6	2.00	2.00	0.00	210.99	
4,135.5	11.50	210.99	4,090.3	-401.5	-241.1	0.00	0.00	0.00	0.00	
4,902.2	0.00	0.00	4,851.9	-467.2	-280.6	1.50	-1.50	0.00	180.00	
8,004.4	0.00	0.00	7,954.0	-467.2	-280.6	0.00	0.00	0.00	0.00	PBHL_BELLA 19-8

APC

Planning Report - Geographic

Database:	apc_edmp	Local Co-ordinate Reference:	Well P_BELLA 19-8
Company:	ROCKIES - PLANNING	TVD Reference:	WELL @ 4862.0ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 4862.0ft (Original Well Elev)
Site:	WELD_BELLA 19-8	North Reference:	True
Well:	P_BELLA 19-8	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_BELLA 19-8		
Design:	Plan #1 06-30-09 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	1,329,851.08	3,194,132.11	40.236750	-104.804630
650.0	0.00	0.00	650.0	0.0	0.0	1,329,851.08	3,194,132.11	40.236750	-104.804630
Surface Casing									
1,500.0	0.00	0.00	1,500.0	0.0	0.0	1,329,851.08	3,194,132.11	40.236750	-104.804630
2,075.0	11.50	210.99	2,071.1	-49.3	-29.6	1,329,801.55	3,194,102.89	40.236615	-104.804736
3,886.2	11.50	210.99	3,846.0	-358.9	-215.5	1,329,490.54	3,193,919.40	40.235765	-104.805402
Parkman									
4,135.5	11.50	210.99	4,090.3	-401.5	-241.1	1,329,447.73	3,193,894.14	40.235648	-104.805494
4,463.4	6.58	210.99	4,414.0	-445.6	-267.6	1,329,403.37	3,193,867.97	40.235527	-104.805589
Sussex									
4,902.2	0.00	0.00	4,851.9	-467.2	-280.6	1,329,381.69	3,193,855.17	40.235467	-104.805635
4,933.4	0.00	0.00	4,883.0	-467.2	-280.6	1,329,381.69	3,193,855.17	40.235467	-104.805635
Shannon									
7,124.4	0.00	0.00	7,074.0	-467.2	-280.6	1,329,381.69	3,193,855.17	40.235467	-104.805635
Niobrara "A"									
7,409.4	0.00	0.00	7,359.0	-467.2	-280.6	1,329,381.69	3,193,855.17	40.235467	-104.805635
Codell									
7,854.4	0.00	0.00	7,804.0	-467.2	-280.6	1,329,381.69	3,193,855.17	40.235467	-104.805635
JSand									
8,004.4	0.00	0.00	7,954.0	-467.2	-280.6	1,329,381.69	3,193,855.17	40.235467	-104.805635

Targets									
Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude
- Shape									Longitude
PBHL_BELLA 19-8		0.00	0.00	7,954.0	-467.2	-280.6	1,329,381.69	3,193,855.17	40.235467
- plan hits target center									-104.805635
- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
650.0	650.0	Surface Casing	8-5/8	12-1/4	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,933.4	4,883.0	Shannon		0.00		
3,886.2	3,846.0	Parkman		0.00		
7,854.4	7,804.0	JSand		0.00		
4,463.4	4,414.0	Sussex		0.00		
7,124.4	7,074.0	Niobrara "A"		0.00		
7,409.4	7,359.0	Codell		0.00		