

Cimarex Energy Co.

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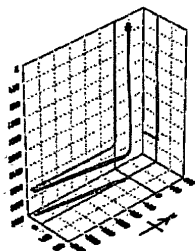
Project: Eddy Co., NM
 Site: Sec 23-T25S-R26E
 Well: Pintail 23 Fed #4
 Wellbore: Wellbore #1
 Design: Design #3
 Lat: 32° 6' 54.792 N
 Long: 104° 15' 56.142 W
 GL: 3280.00
 KB: WELL @ 3297.00ft (Original Well Elev)



SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Annotation
3913.00	89.80	185.90	3010.40	-825.30	-128.56	0.00	0.00	835.18	MWD Tie-in / Start DLS 3.00' TFO 143.38
3914.97	87.34	187.72	3012.95	-826.51	-140.64	3.00	143.64	937.09	Start Build 3.00'
4003.74	90.00	187.72	3015.01	-1014.44	-192.56	3.00	0.00	1025.82	Start 1268.62 hold at 4004.09 MD
5272.65	90.00	187.72	3015.01	-2271.87	-322.91	0.00	0.00	2294.71	TD at 5272.70

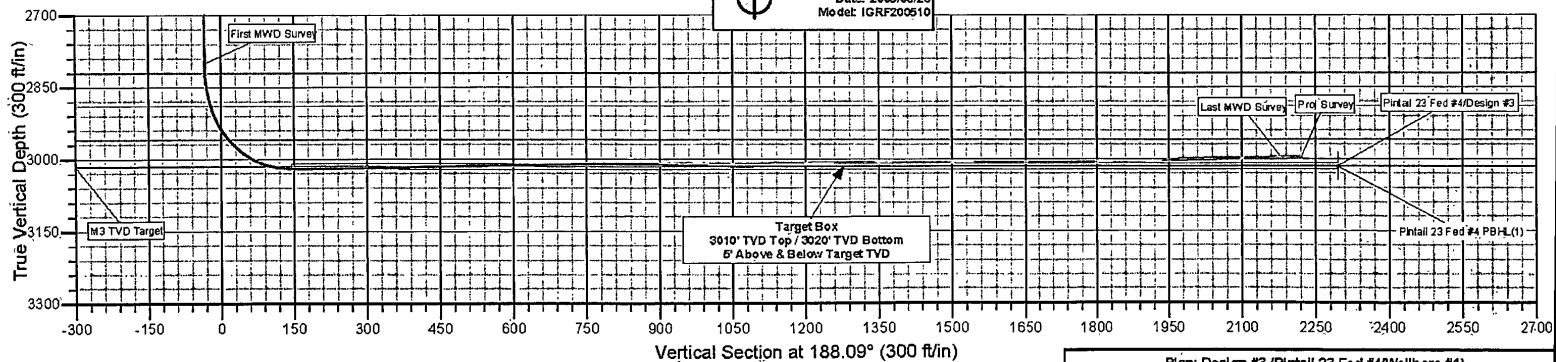
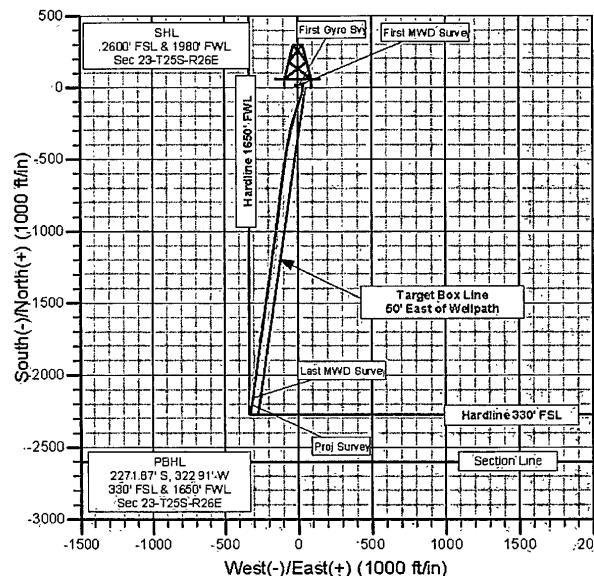
WELL DETAILS: Pintail 23 Fed #4									
				Ground Level: 3280.00					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot			
0.00	0.00	405659.901	562309.293	32° 6' 54.792 N	104° 15' 56.142 W				

WELLBORE TARGET DETAILS (LAT/LONG)									
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape			
Pintail 23 Fed #4 PBH-L(1)	3015.00	-2271.87	-322.91	32° 6' 32.309 N	104° 15' 59.896 W	Rectangle			



FORMATION TOP DETAILS									
TVDPath	MDPath	Formation							
1041.00	1041.22	Top Salt							
1652.00	1655.17	Base Salt							
1854.00	1855.48	Beil Canyon							
2820.00	2821.59	Cherry Canyon							
2889.00	2891.76	Cherry Canyon M							
2959.00	2971.33	Cherry Canyon M3							
3015.00	3078.65	M3 TVD Target							

Azimuths to True North
 Magnetic North: 8.11°
 Magnetic Field
 Strength: 49698.25nT
 Dip Angle: 60.83°
 Date: 2006/06/26
 Model: IGRF200510



Plan: Design #3 (Pintail 23 Fed #4/Wellbore #1)

Created By: Bret Wolford Date: 10:41, July 01 2009