

Cimarex Energy Co.

Project: Eddy County (NM83E)
Site: Sec 12-T25S-1126E
Well: Marquardt Fed #9
Wellbore: Wellbore #1
Design: Plan #4

WELL DETAILS Marquardt Fed #9

+N/-S +E/-W Northing Ground Level Easting Latitude Longitude Slot
0.0 0.0 416306.00 0.0 566192.16 32° 8' 40.122 N 104° 15' 10.900 W

SHL 2630' FSL / 660' FWL
BHL 330' FSL / 660' FWL



Azimuths to Grid North
True North -0.04°
Magnetic North 8.05°
Magnetic Field
Strength: 48731.4 nT
Dip Angle: 60.05°
Date: 2009/09/06
Model: IGRF2005.10

SECTION DETAILS

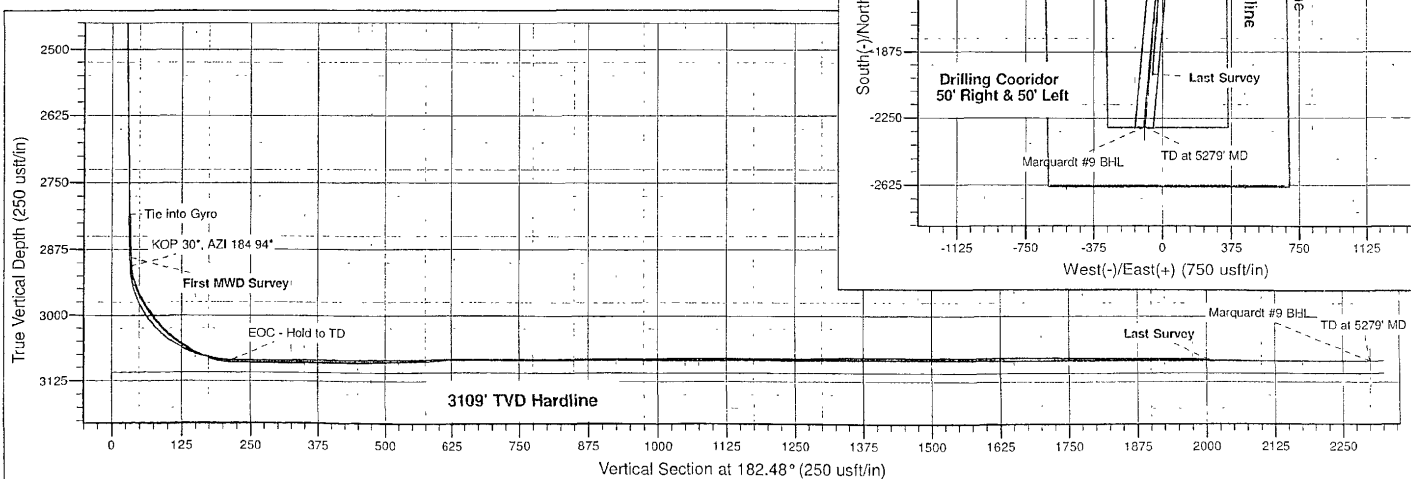
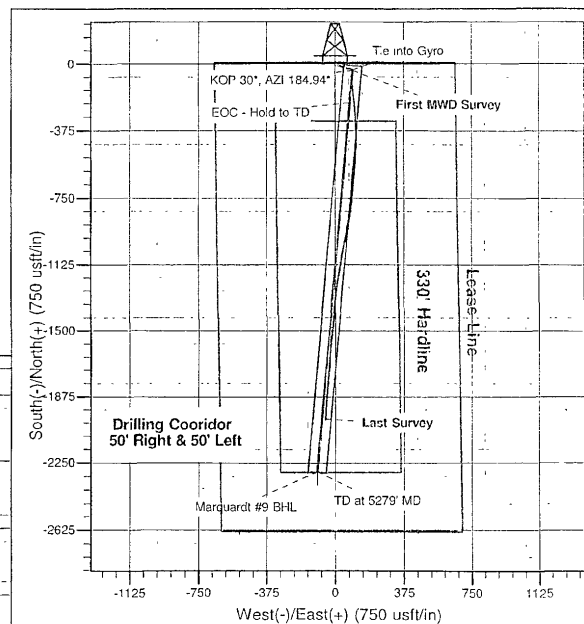
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	2811.8	1.46	120.20	2808.6	-36.2	94.8	0.00	0.00	32.0	
2	2909.3	1.50	184.94	2906.1	-38.1	95.8	1.63	121.14	33.9	
3	3193.1	90.00	184.94	3085.0	-221.1	80.0	0.00	217.4		
4	5279.0	90.00	184.93	3085.0	-2299.2	-99.4	0.00	-90.00	2301.4	Marquardt #9 BHL

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	VSec	Departure	Annotation
2808.6	2811.8	1.46	120.20	-36.2	94.8	32.0	0.0	Tie into Gyro
2906.1	2909.3	1.50	184.94	-38.1	95.8	33.9	2.5	KOP 30°, AZI 184.94°
3085.0	3193.1	90.00	184.94	-221.0	80.0	217.4	186.2	EOC - Hold to TD
3085.0	5279.0	90.00	184.93	-2299.2	-99.4	2300.4	2271.1	TD at 5279' MD

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
Marquardt #9 BHL	3085.0	-2299.2	-99.4	414006.80	566092.72
Drilling Corridor Marquardt #9	3109.0	-2299.2	-99.4	414006.80	566092.72
Marquardt Fed #9 PHBL	3117.0	-2299.2	-99.4	414006.80	566227.72



2-22-2010