

# NOBLE ENERGY INC WELD COUNTY CO

Well Name: **MARK ALTER C16-79HN**

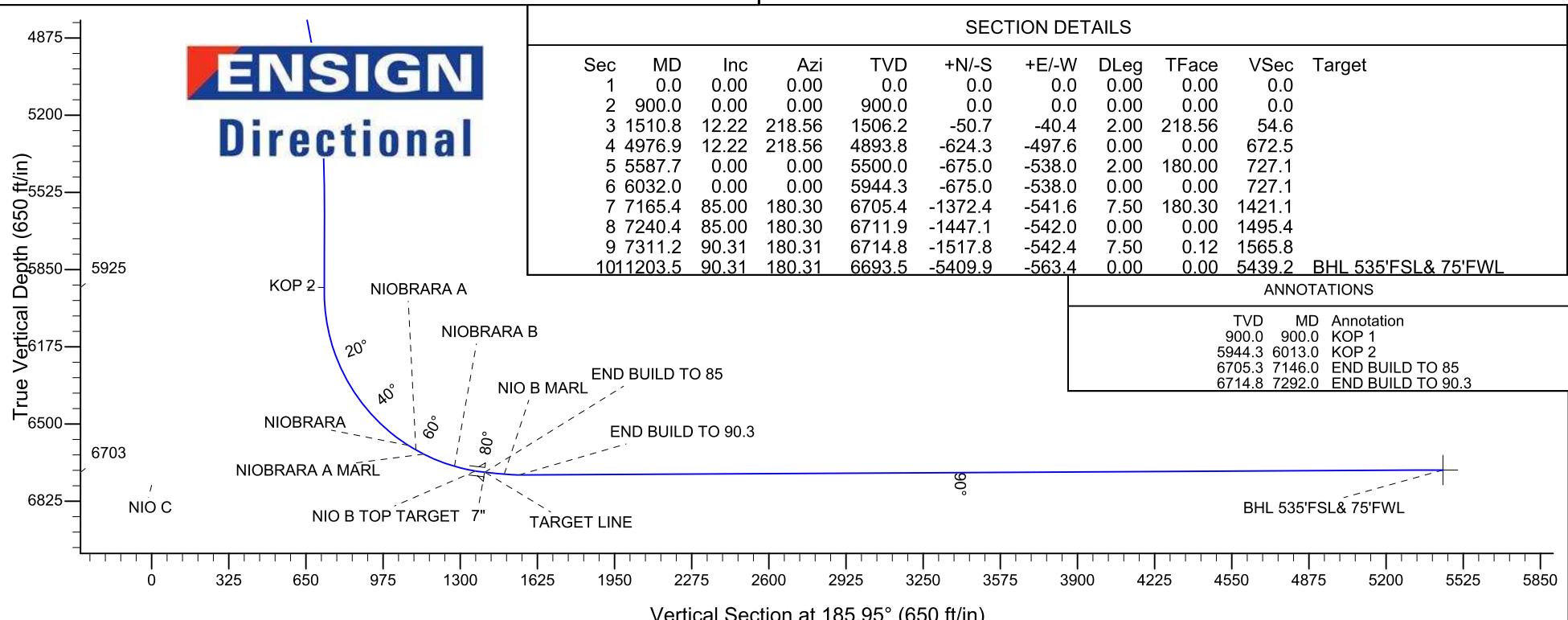
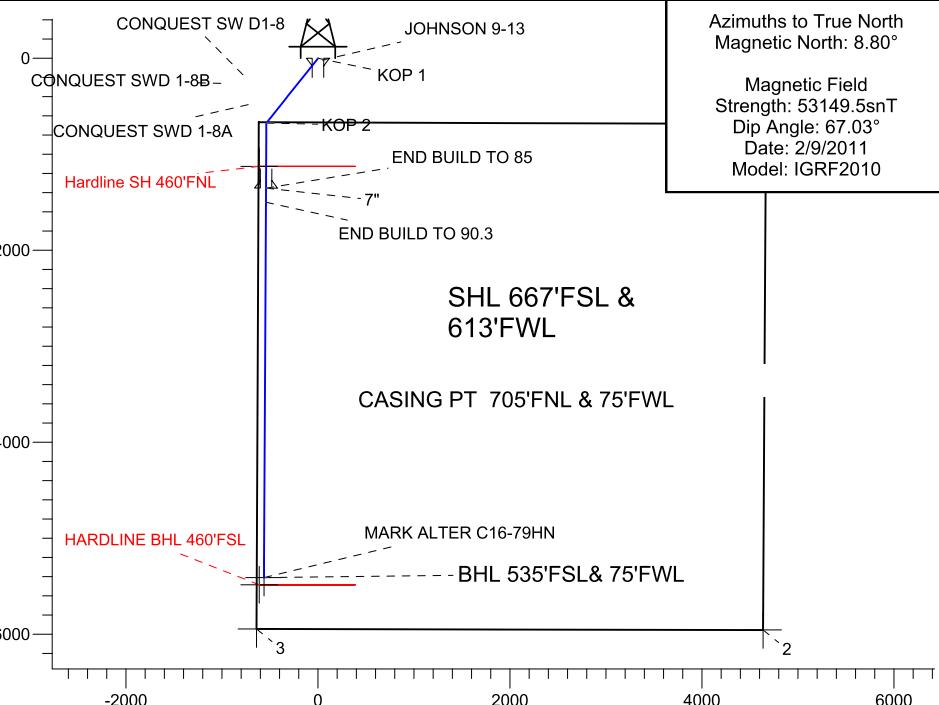
Surface Location: MARK ALTER C16-79HN PAD 9-4N-64W  
North American Datum 1983, US State Plane 1983, Colorado Northern Zone  
Ground Elevation: 4702.0

+N/-S +E/-W Northing Easting Latitude Longitude Slot  
0.0 0.0 1361344.11 3261303.34 40.321500 -104.562850  
RKB ENSIGN 134 13' RKB @ 4715.0ft (RKB ENSIGN 134 13')

## WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
HARDLINE BHL 460'FSL	1.0	-5485.0	-613.0	Polygon
Hardline SH 460'FNL	1.0	-1127.0	-613.0	Polygon
BHL 535'FSL& 75'FWL	6693.5	-5409.9	-563.4	Point

MARK ALTER C16-79HN PAD 9-4N-64W  
MARK ALTER C16-79HN  
PLAN 1 (FEB 9,2011)  
11:50, February 11 2011



OK to submit with 2A as per Noble Drilling - 2/16/2011 09:20

Azimuths to True North  
Magnetic North: 8.80°

Magnetic Field  
Strength: 53149.5nT  
Dip Angle: 67.03°  
Date: 2/9/2011  
Model: IGRF2010