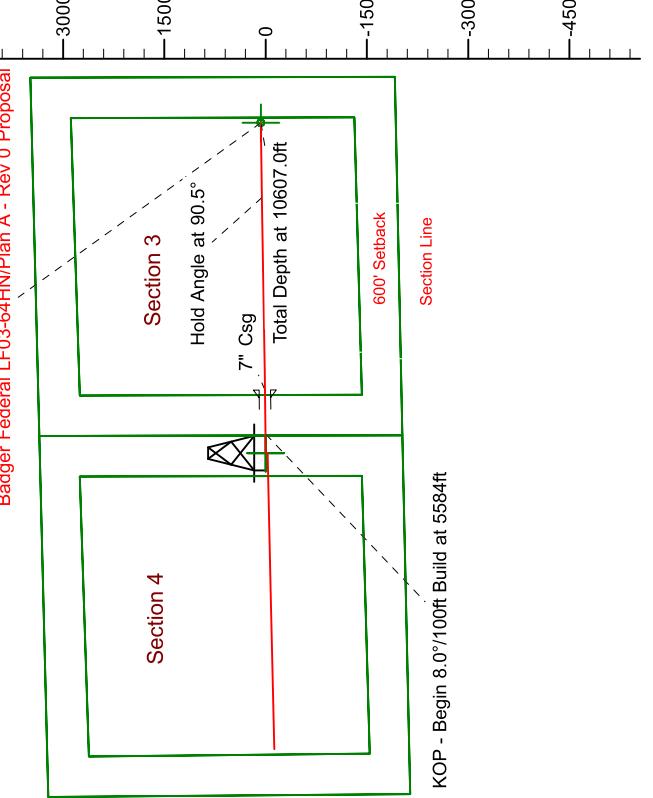
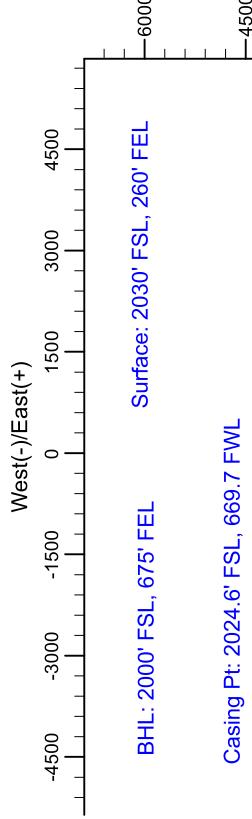
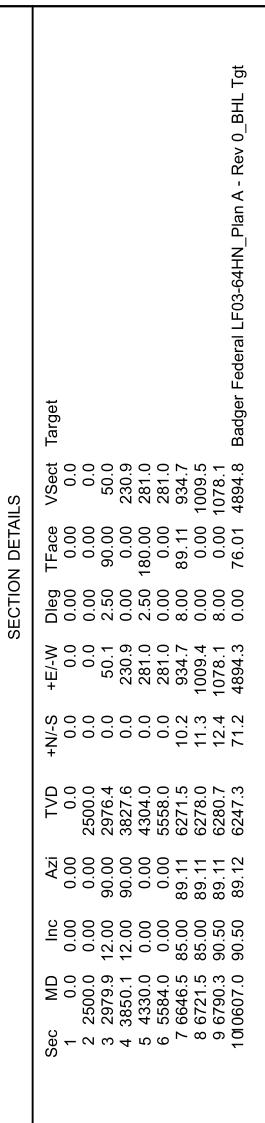


Project: Weld County Colorado (NAD 83)
 Site: Sec. 4, T8N, R6W
 Well: Badger Federal LF03-64HN
 Wellbore: Plan A - Rev 0 (PERMITTING PLAN ONLY)
 Design: Plan A - Rev 0 Proposal

Noble Energy

HALLIBURTON
 Sperry Drilling

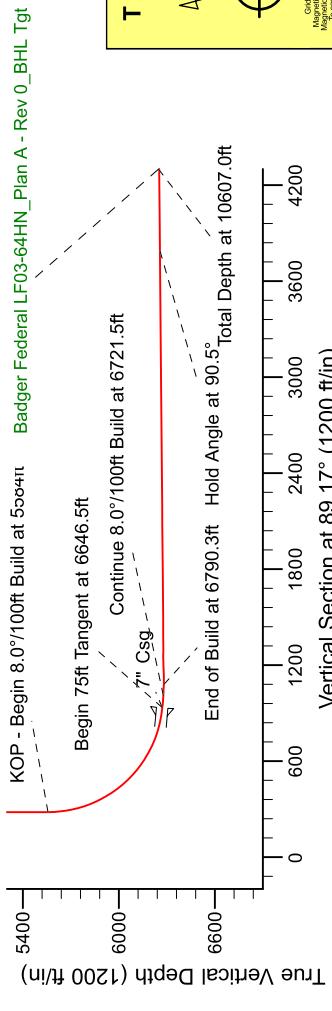


WELL DETAILS: Badger Federal LF03-64HN(NAD83 Geodetic System)

Magnetic Model:	GRF2005.0	Ground Level:	4912.0
Date:	7/18/2011	Easting:	1033837.20
Dip Angle:	67.40°	Latitude:	40° 41' 23.136 N
Field Strength:	5353.4	Longitude:	104° 51' 13.056 W
True North:	-0.91°		
Magnetic North:	7.55°		

Plan: Plan A - Rev 0 Proposal (Badger Federal LF03-64HN/Plan A - Rev 0 (PERMITTING PLAN ONLY))

Created By: Erasmo Mendoza Date: 18:31, July 18 2011



Circle North: 0.91° East of True North (Grid Coordinates)
 Magnetic North: 7.55° East of True North (Magnetic Declination)
 To convert from Grid Coordinates to Magnetic North:
 1. Add Dip Angle to Grid Coordinates.
 2. Subtract Magnetic Declination from the result.
 To convert from Magnetic North to Grid Coordinates:
 1. Add Magnetic Declination to Magnetic North.
 2. Subtract Dip Angle from the result.