

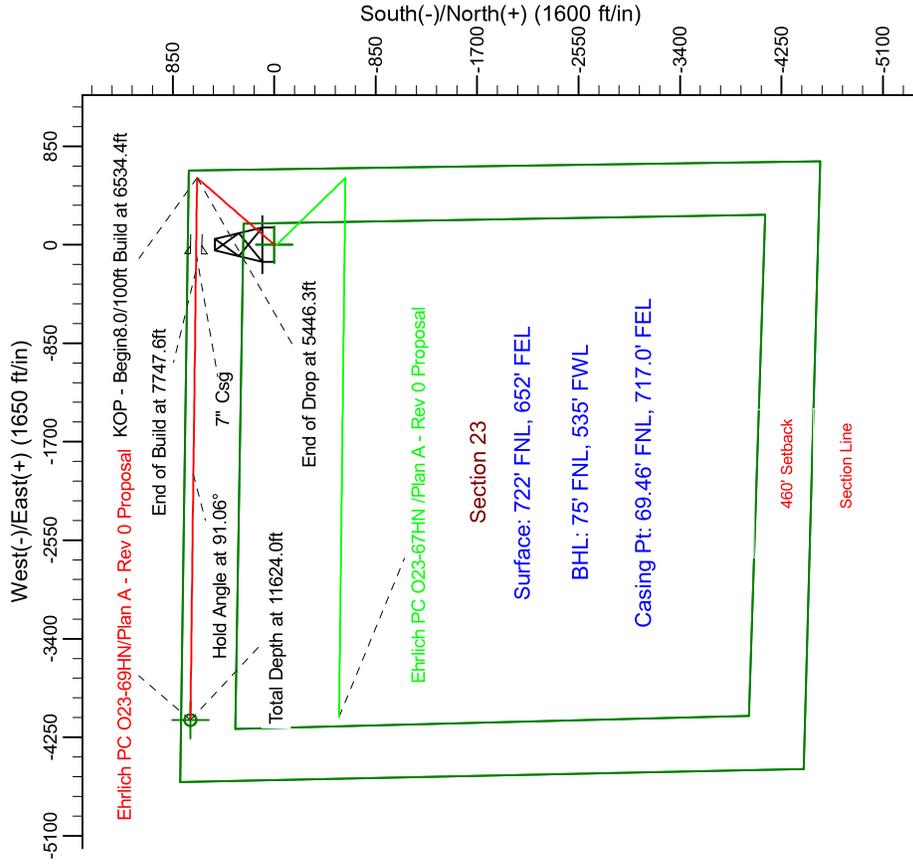
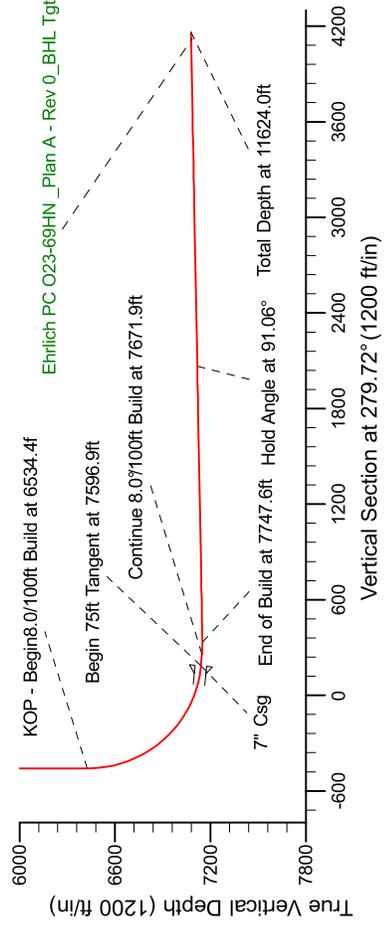
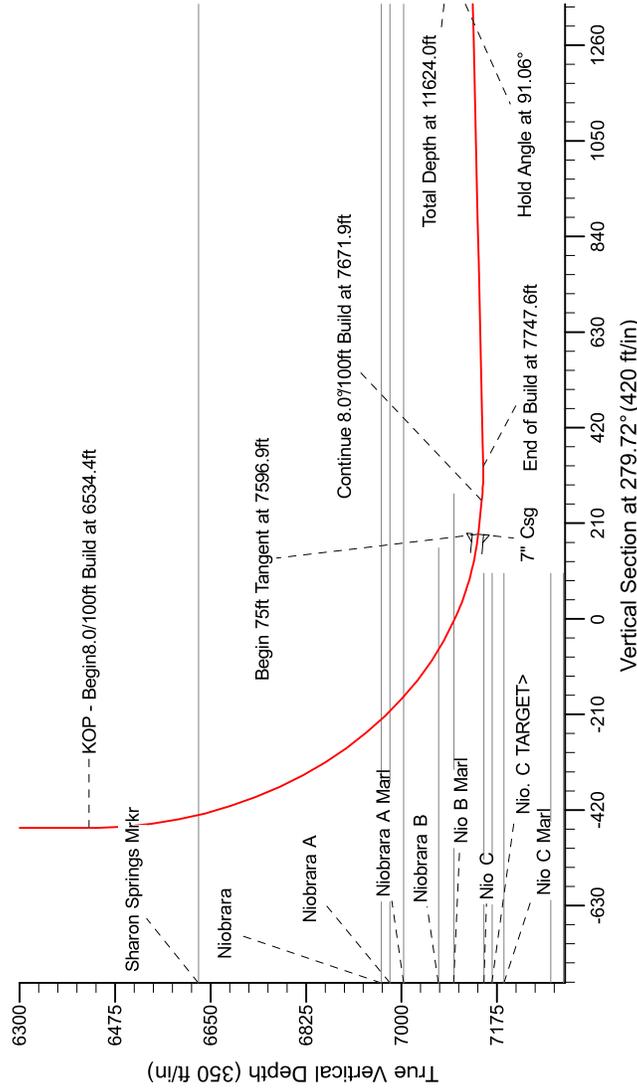
Noble Energy

Project: Weld County Colorado (NAD 83)
 Site: Sec.23, T4N, R67W
 Well: Ehrlich PC O23-69HN
 Wellbore: Plan A - Rev 0 (PERMITTING PLAN ONLY)
 Design: Plan A - Rev 0 Proposal



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/W	Deg	TFace	V/Sec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	0.0
2	1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0	0.0
3	2100.0	15.00	41.73	2093.1	58.3	52.0	2.50	41.73	-41.4	0.0
4	4846.3	15.00	41.73	4745.9	588.7	525.0	0.00	0.00	-418.1	0.0
5	5446.2	0.00	0.00	5339.0	647.0	577.0	2.50	180.00	-459.5	0.0
6	6534.4	0.00	0.00	6427.2	647.0	577.0	0.00	0.00	-459.5	0.0
7	7596.9	85.00	270.68	7140.6	654.8	-76.7	8.00	270.68	186.2	0.0
8	7671.9	85.00	270.68	7147.2	655.6	-151.4	0.00	0.00	259.9	0.0
9	7747.6	91.06	270.88	7149.8	656.5	-227.1	8.00	0.00	334.7	0.0
10	11624.0	91.06	270.88	7078.0	702.6	-4102.5	0.00	31.53	4162.2	Ehrlich PC O23-69HN_Plan A - Rev 0_BHL Tgt



WELL DETAILS: Ehrlich PC O23-69HN(NAD83 Geodetic System)			
Northing	Ground Level:	Longitude	
412632.05	4834.0	104° 51' 3.744 W	
Easting	Latitude		
969570.70	40° 18' 9.720 N		
Plan: Plan A - Rev 0 Proposal (Ehrlich PC O23-69HN/Plan A - Rev 0 (PERMITTING PLAN ONLY))			
Created By: Erasmo Mendoza		Date: 2015, July 28 2011	

T G M

Magnetic North: IGRF2005.10
 Date: 7/28/2011
 Inclination: 48.46°
 Declination: -11.82°
 Field Strength: 53087.4

Grid North is 0.42° East of True North (Grid Curve given).
 Magnetic North is 11.82° East of Grid North (Magnetic Curve given).
 To convert from True North to Grid North, add 0.42°.
 To convert from Magnetic North to Grid North, add 11.82°.