

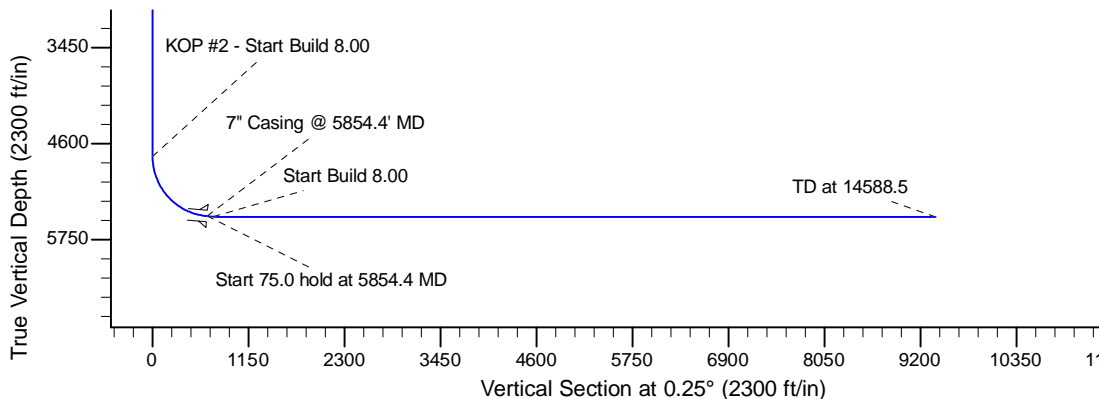
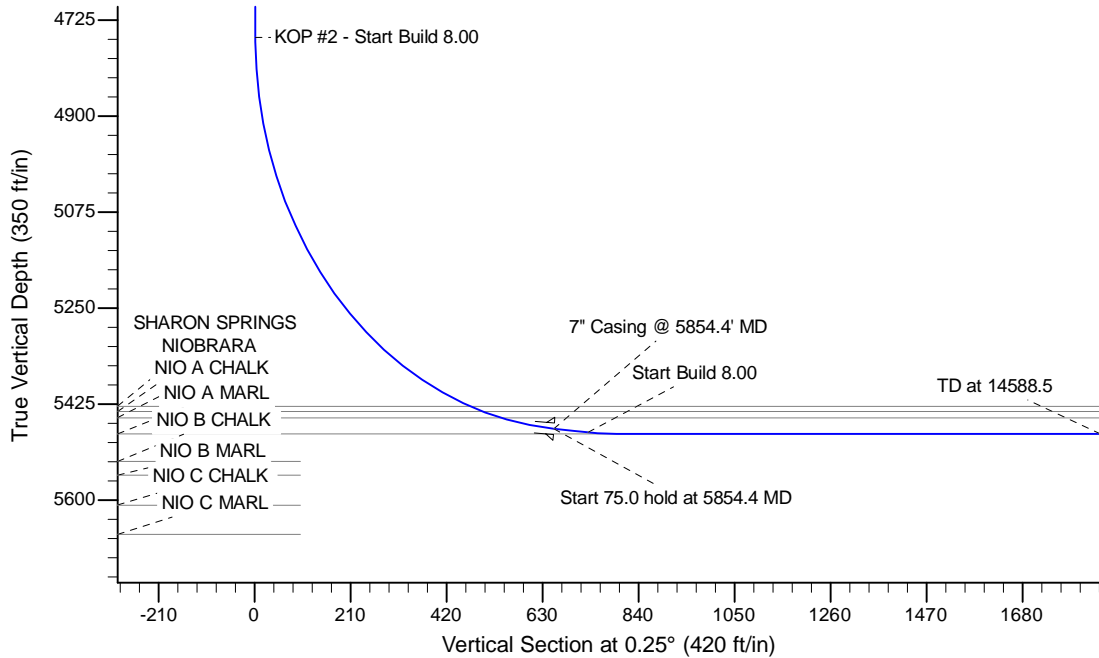
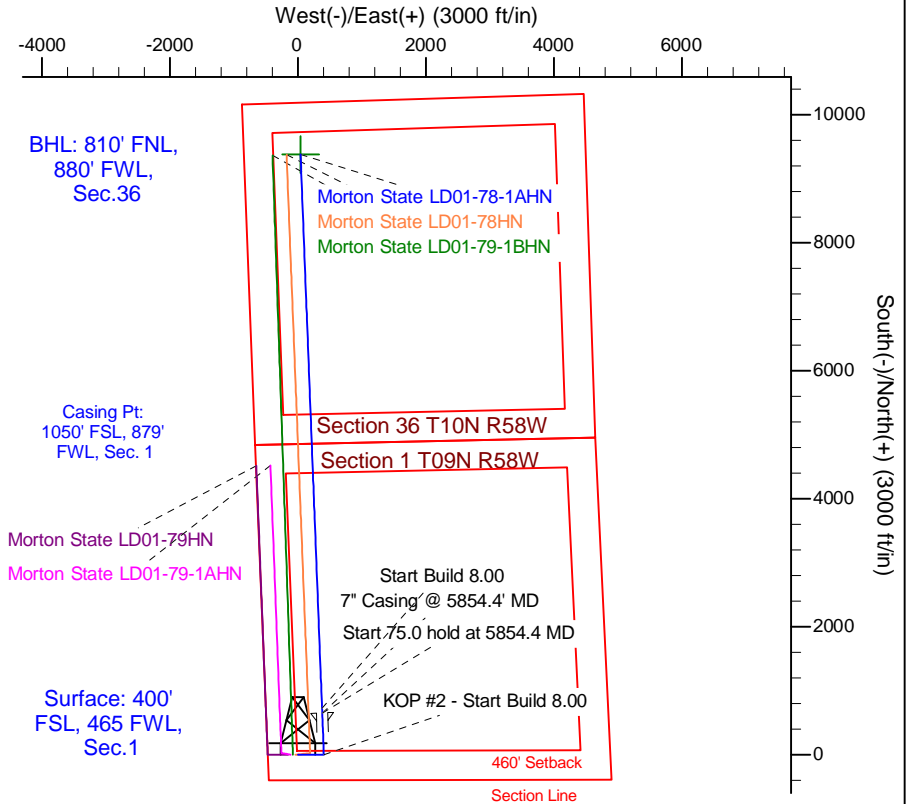
Project: Wattenberg Field
 Site: LD (Sec.1-T09N-R58W) Weld County, CO
 Well: Morton State LD01-78-1AHN
 Wellbore: Original Drilling
 Design: APD - Rev 0

Northern Region Drilling - Working

Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: Colorado Northern Zone
 System Datum: Mean Sea Level

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0	
3	2050.1	11.00	90.00	2046.7	0.0	52.7	2.00	90.00	0.2	
4	3620.5	11.00	90.00	3588.3	0.0	352.3	0.00	0.00	1.5	
5	4170.6	0.00	0.00	4135.0	0.0	405.0	2.00	180.00	1.8	
6	4791.9	0.00	0.00	4756.3	0.0	405.0	0.00	0.00	1.8	
7	5854.4	85.00	357.78	5469.7	653.3	379.7	8.00	357.78	654.9	
8	5929.4	85.00	357.78	5476.3	727.9	376.8	0.00	0.00	729.6	
9	5991.9	90.00	357.78	5479.0	790.3	374.3	8.00	0.00	791.9	
10	14588.5	90.00	357.78	5479.0	9380.5	41.0	0.00	0.00	9380.6	Morton State LD01-78-1AHN BHL 810'FNL, 880'FWL



T G M

Azimuths to Grid North
 True North: -1.09°
 Magnetic North: 6.86°

Magnetic Field
 Strength: 53157.4snT
 Dip Angle: 67.41°
 Date: 3/12/2014
 Model: IGRF200510

WELL DETAILS: Morton State LD01-78-1AHN				
		Ground Level: 4655.0		
Sec	MD	Northing	Easting	Longitude
0.0	0.0	1529382.12	3465293.42	40.774440 -103.819970

Plan: APD - Rev 0 (Morton State LD01-78-1AHN/Original Drilling)
 Created By: Shailey Jewell Date: 15:10, March 12 2014

**OK to submit with 2A as per Noble Drilling
 3/17/2014 7:15**