

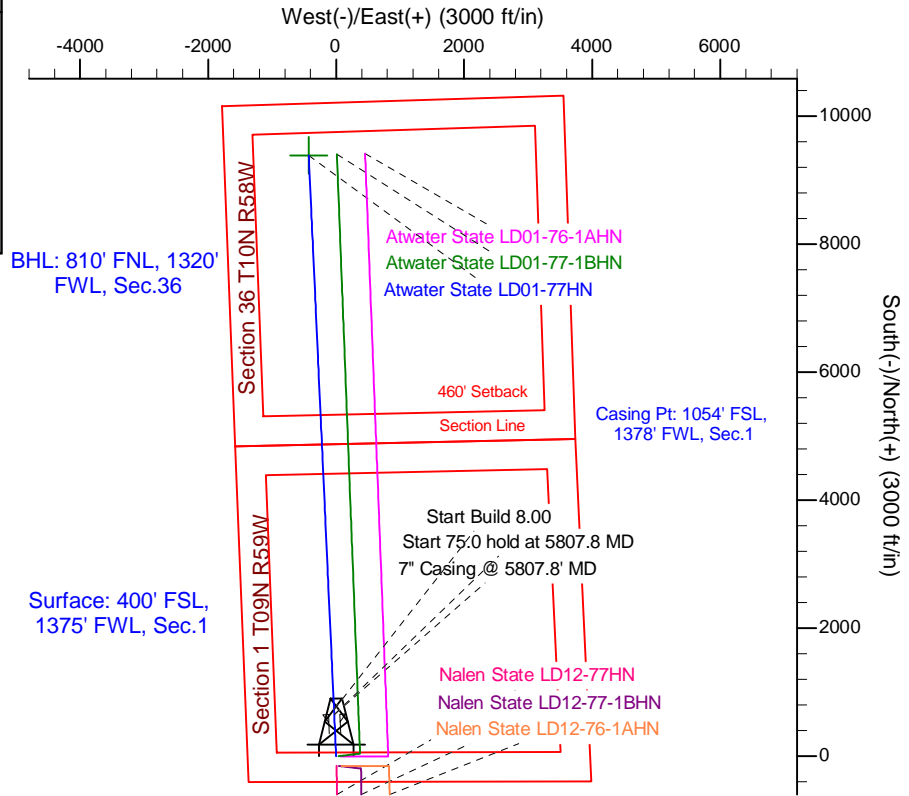
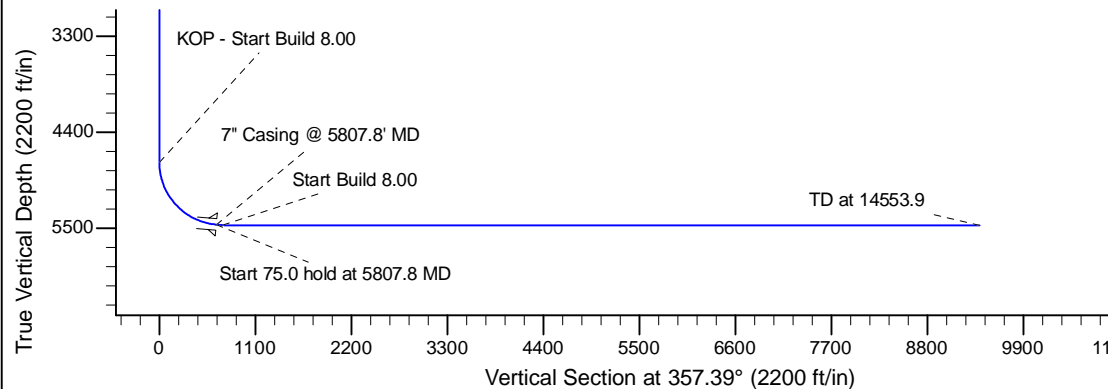
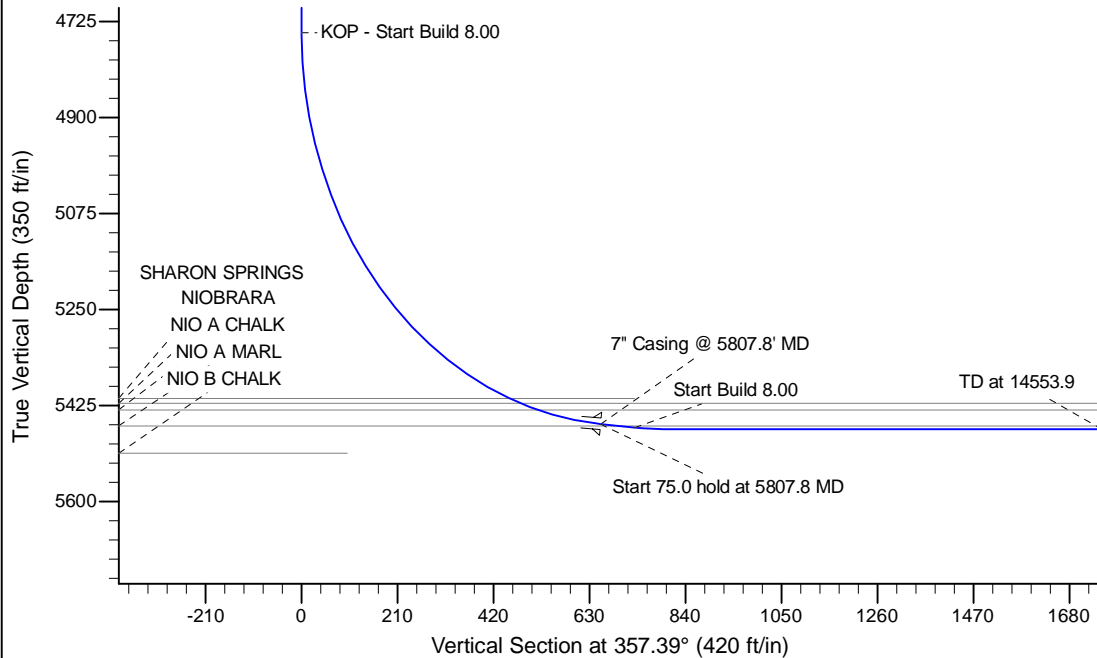
Project: Wattenberg Field
 Site: LD (Sec.1-T09N-R58W) Weld County, CO
 Well: Atwater State LD01-77HN
 Wellbore: Original Drilling
 Design: APD - Rev 1

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	4745.3	0.00	0.00	4745.3	0.0	0.0	0.00	0.00	0.0	
3	5807.8	85.00	357.39	5458.7	653.1	-29.7	8.00	357.39	653.8	
4	5882.8	85.00	357.39	5465.3	727.7	-33.1	0.00	0.00	728.5	
5	5945.3	90.00	357.39	5468.0	790.1	-36.0	8.00	0.00	790.9	
6	14553.9	90.00	357.39	5468.0	9389.8	-427.5	0.00	0.00	9399.6	Atwater State LD01-77HN BHL 810'FNL, 1320'FWL



T G M

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

Magnetic Field
 Strength: 53164.1snT
 Dip Angle: 67.42°
 Date: 2/18/2014
 Model: IGRF200510

WELL DETAILS: Atwater State LD01-77HN					
		Ground Level: 4648.0			
0.0	0.0	1529384.78	3466202.01	40.774400	-103.816690
		Northing	Easting	Latitude	Longitude
Plan: APD - Rev 1 (Atwater State LD01-77HN/Original Drilling)					
Created By: Shailey Jewell		Date: 13:31, August 11 2014			
Checked: _____		Date: _____			
Reviewed: _____		Date: _____			
Approved: _____		Date: _____			