

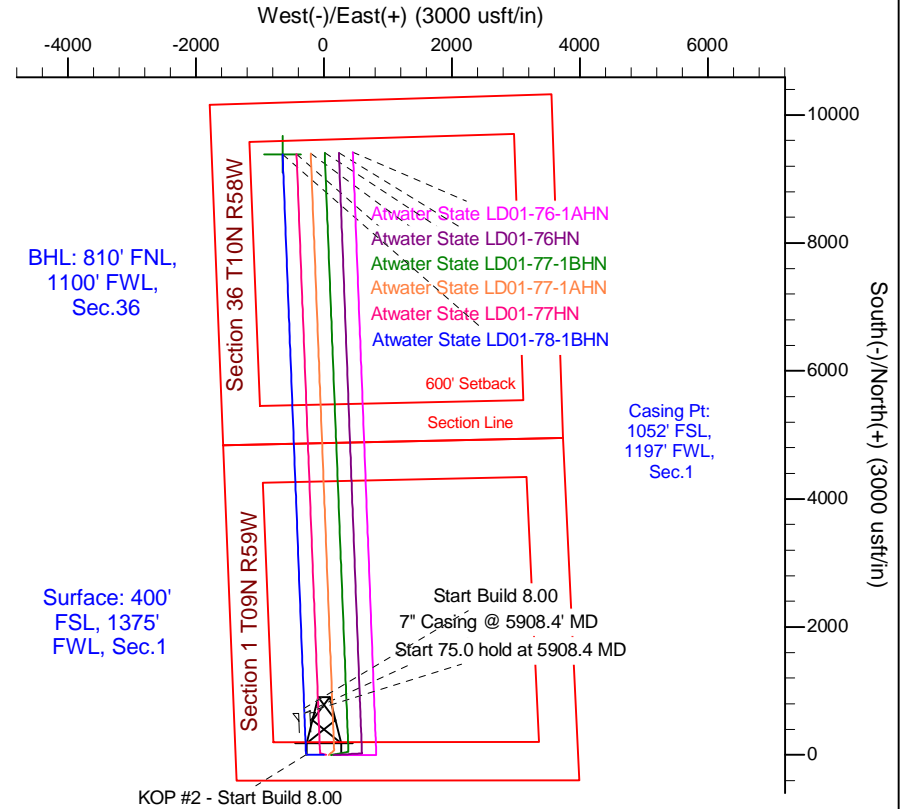
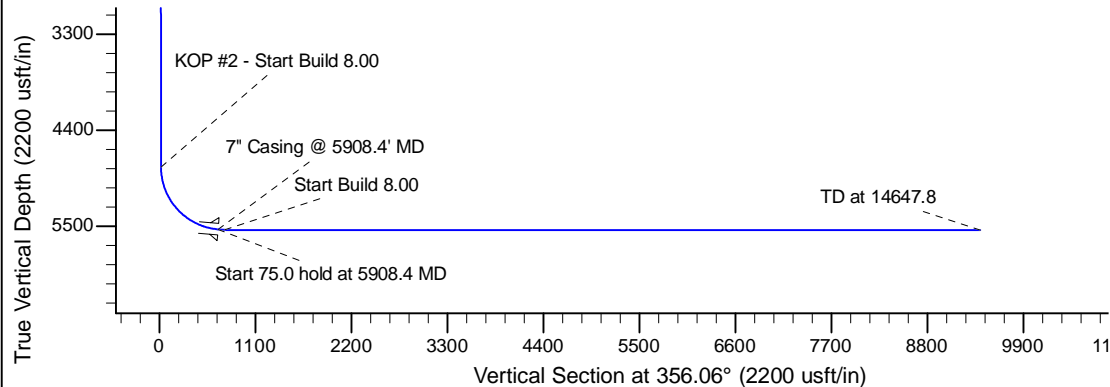
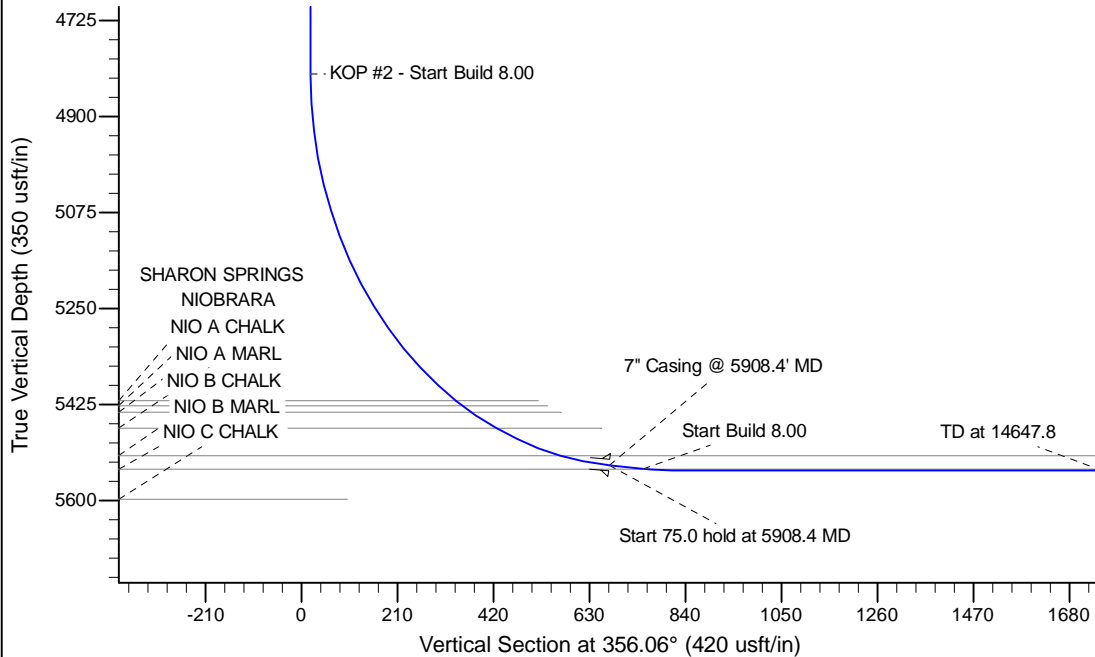
Project: Wattenberg Field
 Site: LD (Sec.1-T09N-R58W) Weld County, CO
 Well: Atwater State LD01-78-1BHN
 Wellbore: Original Drilling
 Design: APD - Rev 0

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	VSect	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	2051.3	11.03	270.00	2047.9	0.0	-52.9	2.00	270.00	3.6	
4	2962.3	11.03	270.00	2942.1	0.0	-227.1	0.00	0.00	15.6	
5	3513.6	0.00	0.00	3490.0	0.0	-280.0	2.00	180.00	19.2	
6	4845.9	0.00	0.00	4822.3	0.0	-280.0	0.00	0.00	19.2	
7	5908.4	85.00	357.77	5535.7	653.3	-305.5	8.00	357.77	672.7	
8	5983.4	85.00	357.77	5542.3	727.9	-308.4	0.00	0.00	747.4	
9	6045.9	90.00	357.77	5545.0	790.3	-310.8	8.00	0.00	809.8	
10	14647.8	90.00	357.77	5545.0	9385.7	-646.2	0.00	0.00	9407.9	Atwater State LD01-78-1BHN BHL 810'FNL, 1100'FWL



TGM

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

Magnetic Field
 Strength: 53164.0snT
 Dip Angle: 67.42°
 Date: 2/18/2014
 Model: IGRF200510

WELL DETAILS: Atwater State LD01-78-1BHN					
		Ground Level: 4648.0			
	Northing	Easting	Latitude	Longitude	
0.0	0.0	1529384.78	3466202.01	40.774400	-103.816690
Plan: APD - Rev 0 (Atwater State LD01-78-1BHN/Original Drilling)					
Created By: Shailey Jewell		Date: 13:08, February 18 2014			
Checked: _____		Date: _____			
Reviewed: _____		Date: _____			
Approved: _____		Date: _____			