

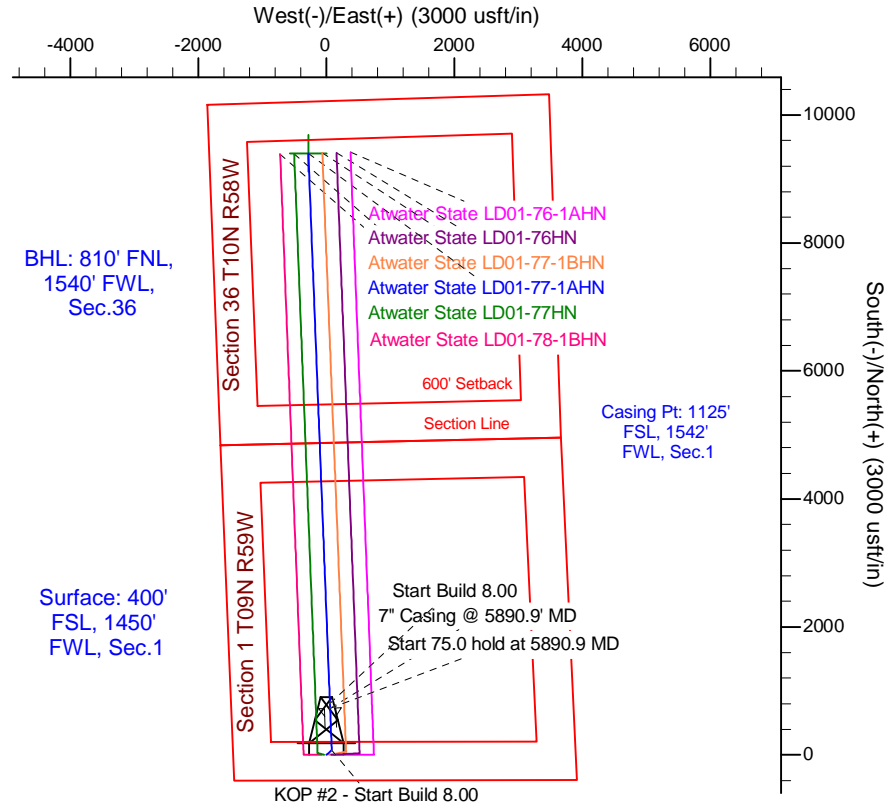
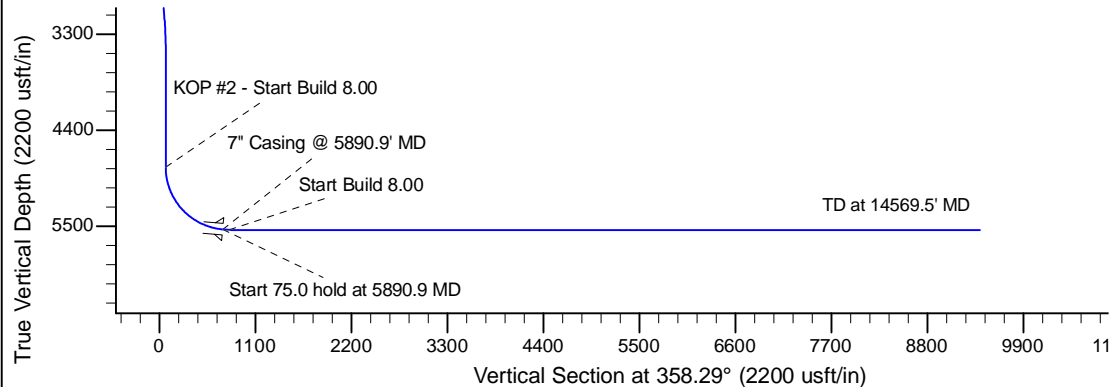
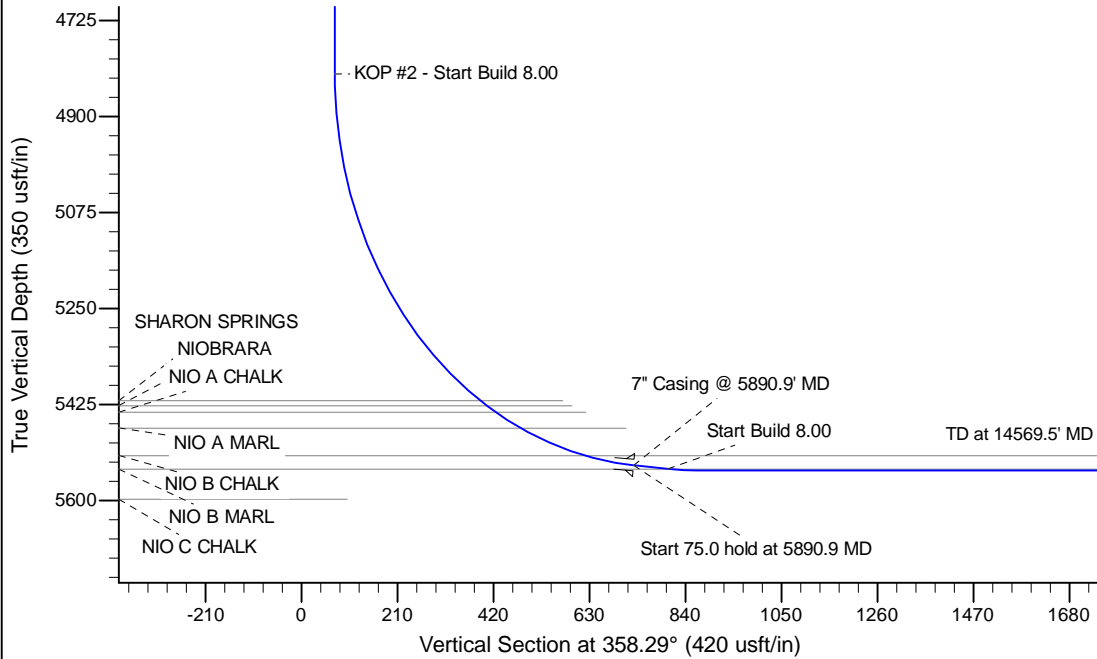
Project: Wattenberg Field
 Site: LD (Sec.1-T09N-R58W) Weld County, CO
 Well: Atwater State LD01-77-1AHN
 Wellbore: Original Drilling
 Design: APD - Rev 0

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	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2200.0	0.00	0.00	2200.0	0.0	0.0	0.00	0.00	0.0	
3	2552.2	7.04	48.58	2551.3	14.3	16.2	2.00	48.58	13.8	
4	3123.9	7.04	48.58	3118.7	60.7	68.8	0.00	0.00	58.6	
5	3476.1	0.00	0.00	3470.0	75.0	85.0	2.00	180.00	72.4	
6	4828.4	0.00	0.00	4822.3	75.0	85.0	0.00	0.00	72.4	
7	5890.9	85.00	357.75	5535.7	728.3	59.4	8.00	357.75	726.2	
8	5965.9	85.00	357.75	5542.3	802.9	56.4	0.00	0.00	800.9	
9	6028.4	90.00	357.75	5545.0	865.3	54.0	8.00	0.00	863.3	
10	14569.5	90.00	357.75	5545.0	9399.9	-280.9	0.00	0.00	9404.1	Atwater State LD01-77-1AHN BHL 810'FNL, 1540'FWL



T G M

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 LD01-77-1AHN				
		Ground Level: 4648.0		
	Northing	Easting	Latitude	Longitude
0.0	0.0	1529382.56	3466276.84	40.774390 -103.816420
Plan: APD - Rev 0 (Atwater State LD01-77-1AHN/Original Drilling)				
Created By:	Shalley Jewell		Date: 12:08, February 18 2014	
Checked:	_____		Date: _____	
Reviewed:	_____		Date: _____	
Approved:	_____		Date: _____	