

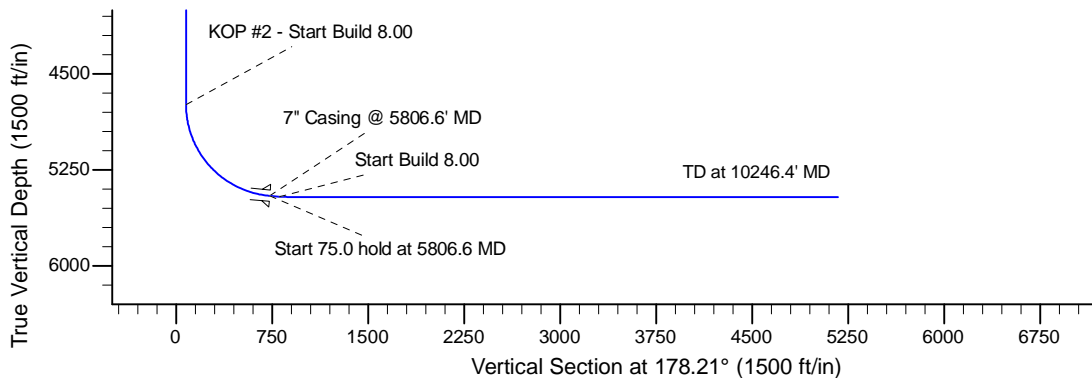
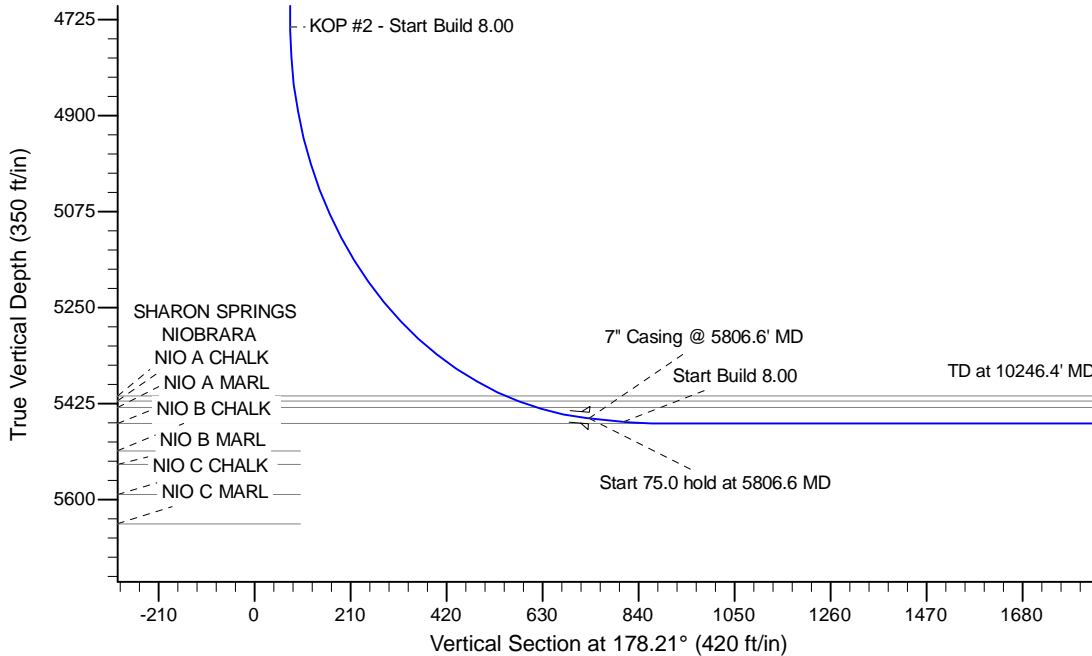
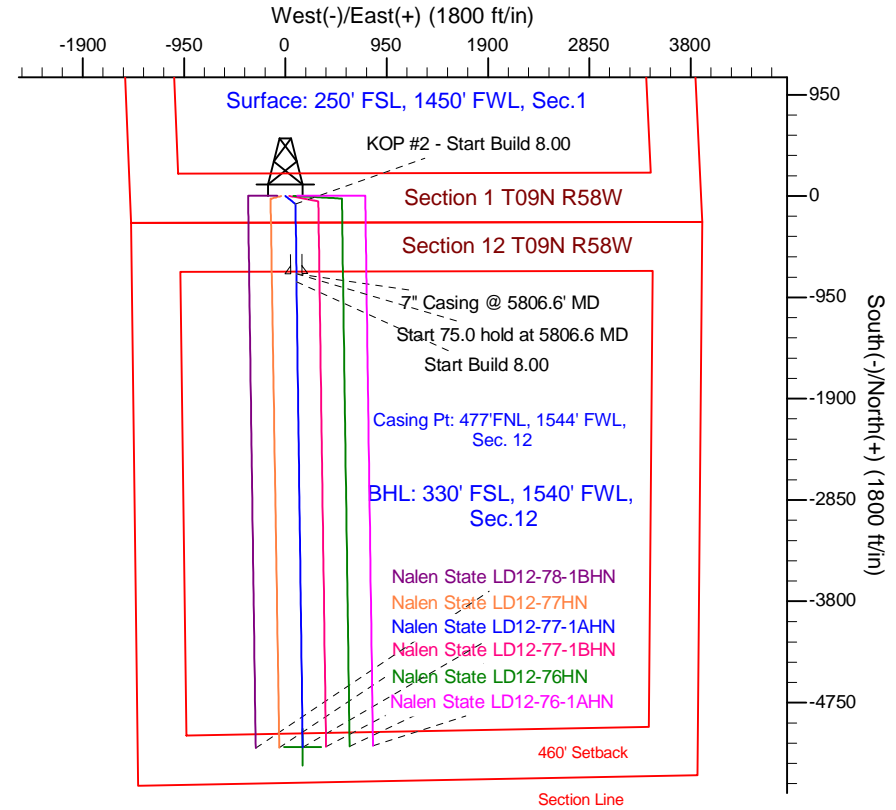
Project: Wattenberg Field  
 Site: LD (Sec.1-T09N-R58W) Weld County, CO  
 Well: Nalen State LD12-77-1AHN  
 Wellbore: Original Drilling  
 Design: APD - Rev 0

# 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	VSec	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	2500.7	6.01	128.29	2500.1	-9.8	12.4	2.00	128.29	10.1	
4	3355.2	6.01	128.29	3349.9	-65.2	82.6	0.00	0.00	67.8	
5	3655.8	0.00	0.00	3650.0	-75.0	95.0	2.00	180.00	77.9	
6	4744.1	0.00	0.00	4738.3	-75.0	95.0	0.00	0.00	77.9	
7	5806.6	85.00	179.25	5451.7	-728.7	103.6	8.00	179.25	731.6	
8	5881.6	85.00	179.25	5458.3	-803.4	104.6	0.00	0.00	806.3	
9	5944.1	90.00	179.25	5461.0	-865.8	105.4	8.00	0.00	868.7	
10	10246.4	90.00	179.25	5461.0	-5167.8	161.9	0.00	0.00	5170.3	Nalen State LD12-77-1AHN BHL 330'FSL, 1540'FWL



**T G M**

Azimuths to Grid North  
 True North: -1.09°  
 Magnetic North: 6.85°

Magnetic Field  
 Strength: 53156.1nT  
 Dip Angle: 67.41°  
 Date: 3/17/2014  
 Model: IGRF200510

WELL DETAILS: Nalen State LD12-77-1AHN						
		Ground Level: 4647.0				
0.0	0.0	Northing	Easting	Latitude	Longitude	
		1529233.31	3466285.22	40.773980	-103.816400	
Plan: APD - Rev 0 (Nalen State LD12-77-1AHN/Original Drilling)						
Created By: Shailey Jewell			Date: 10:28, March 18 2014			
Checked: _____			Date: _____			
Reviewed: _____			Date: _____			
Approved: _____			Date: _____			