

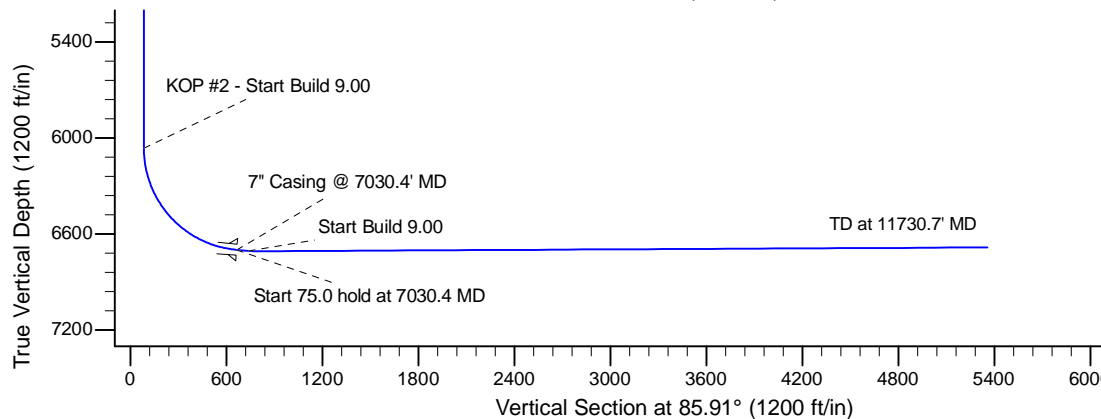
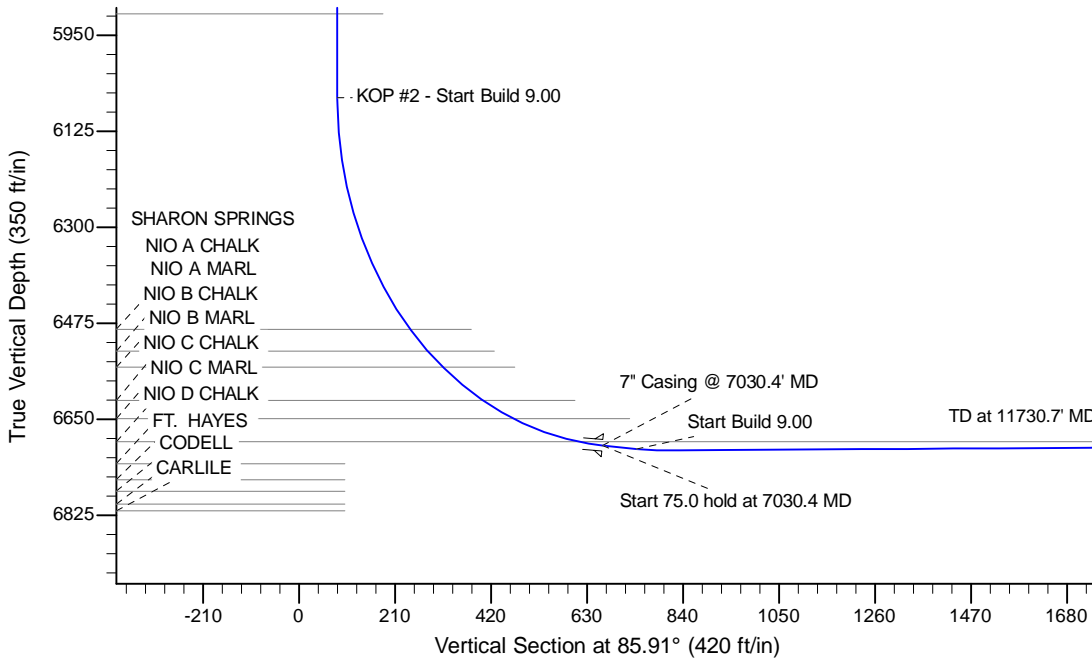
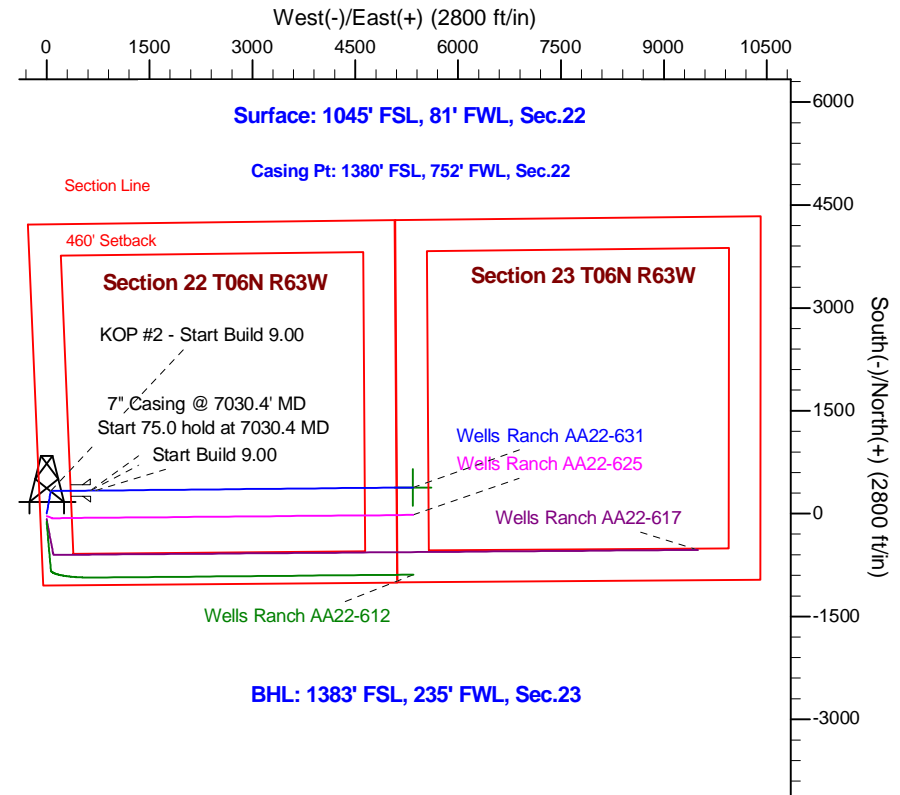
Project: Wattenberg Field  
 Site: AA (Sec.22-T06N-R63W) Weld County, CO  
 Well: Wells Ranch AA22-631  
 Wellbore: Original Drilling  
 Design: APD - Rev 0

# 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	1800.0	0.00	0.00	1800.0	0.0	0.0	0.00	0.00	0.0	
3	2200.4	8.01	10.30	2199.1	27.5	5.0	2.00	10.30	6.9	
4	4206.7	8.01	10.30	4185.9	302.5	55.0	0.00	0.00	76.4	
5	4607.2	0.00	0.00	4585.0	330.0	60.0	2.00	180.00	83.4	
6	6085.9	0.00	0.00	6063.8	330.0	60.0	0.00	0.00	83.4	
7	7030.4	85.00	89.44	6698.0	335.7	641.1	9.00	89.44	663.4	
8	7105.4	85.00	89.44	6704.5	336.4	715.8	0.00	0.00	738.0	
9	7164.3	90.30	89.44	6706.9	337.0	774.6	9.00	0.00	796.7	
10	11730.7	90.30	89.44	6683.0	381.9	5340.8	0.00	0.00	5354.4	Wells Ranch AA22-631 BHL 1383'FSL, 235'FWL



**T G M**

Azimuths to Grid North  
 True North: -0.69°  
 Magnetic North: 8.16°

Magnetic Field  
 Strength: 53375.4snT  
 Dip Angle: 67.22°  
 Date: 12/31/2009  
 Model: IGRF200510

WELL DETAILS: Wells Ranch AA22-631				
Ground Level: 4745.0				
0.0	0.0	1415027.64	3297158.57	40.467740
Northing	Easting	Latitude	Longitude	
				-104.431950

Plan: APD - Rev 0 (Wells Ranch AA22-631/Original Drilling)  
 Created By: Shailey Jewell Date: 10:56, April 10 2015

**OK to submit with 2A as per Noble Drilling**  
**4/10/2015 11:01**