

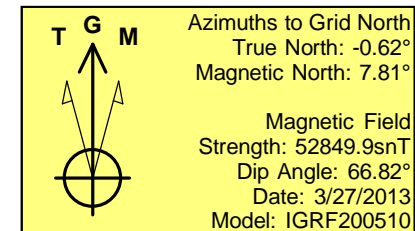
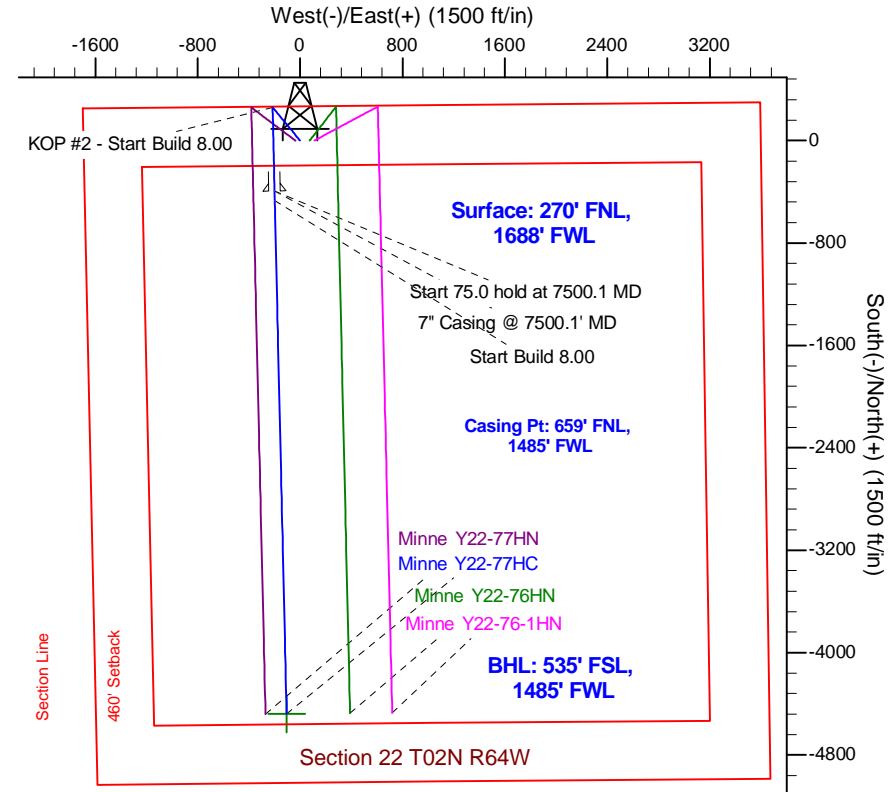
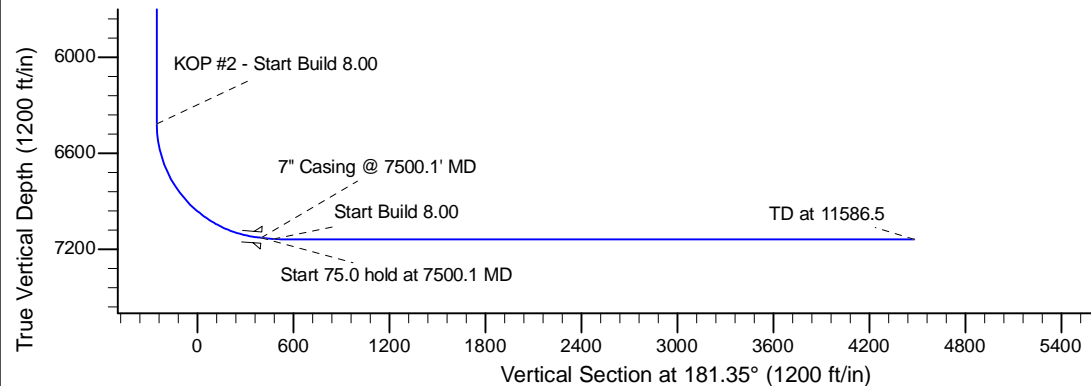
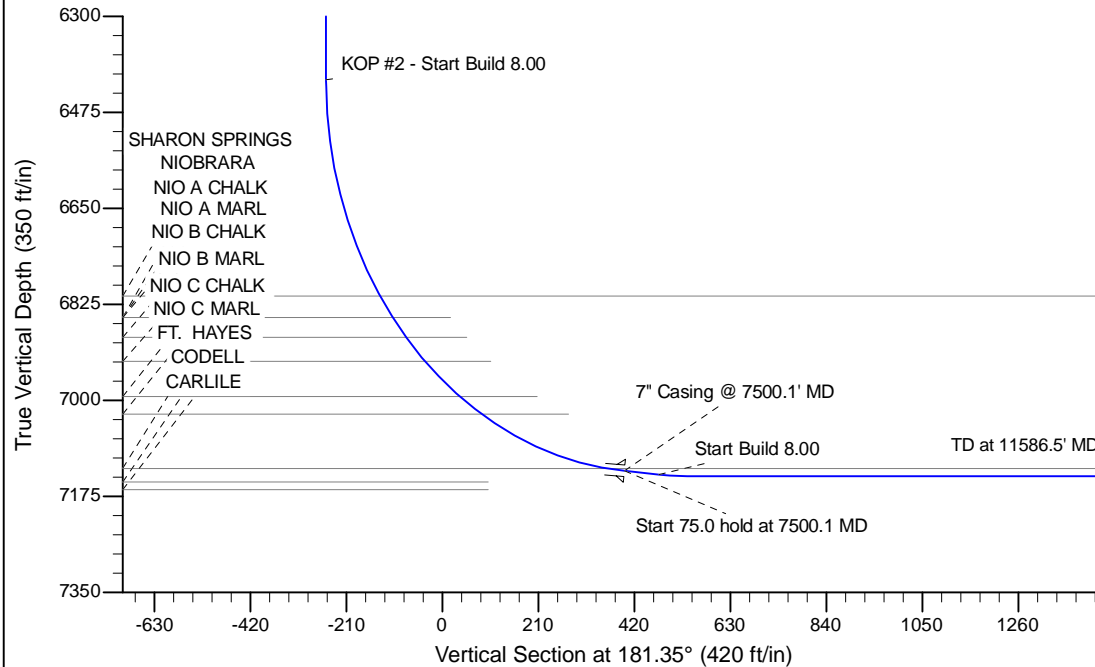
Project: Wattenberg Field
Site: Y (Sec.22-T02N-R64W) Weld County, CO
Well: Minne Y22-77HC
Wellbore: Original Drilling
Design: APD - Rev 1

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	1800.0	0.00	0.00	1800.0	0.0	0.0	0.00	0.00	0.0	
3	2200.2	8.00	320.41	2198.9	21.5	-17.8	2.00	320.41	-21.1	
4	4222.1	8.00	320.41	4201.1	238.5	-197.2	0.00	0.00	-233.8	
5	4622.3	0.00	0.00	4600.0	260.0	-215.0	2.00	180.00	-254.9	
6	6437.6	0.00	0.00	6415.3	260.0	-215.0	0.00	0.00	-254.9	
7	7500.1	85.00	178.67	7128.7	-393.6	-199.9	8.00	178.67	398.2	
8	7575.1	85.00	178.67	7135.3	-468.3	-198.2	0.00	0.00	472.8	
9	7637.6	90.00	178.67	7138.0	-530.7	-196.7	8.00	0.00	535.2	
10	11586.5	90.00	178.67	7138.0	-4478.6	-105.4	0.00	0.00	4479.8	Minne Y22-77HC BHL 535'FSL, 1485'FWL



WELL DETAILS: Minne Y22-77HC				
Ground Level: 5008.0				
0.0	0.0	Northing	Easting	Latitude
1291824.10	3268159.25	40.130470	-104.540960	
Plan: APD - Rev 1 (Minne Y22-77HC/Original Drilling)				
Created By: Shailey Jewell		Date: 7:57, November 24 2014		
Checked: _____		Date: _____		
Reviewed: _____		Date: _____		
Approved: _____		Date: _____		