

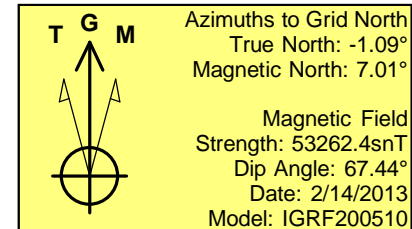
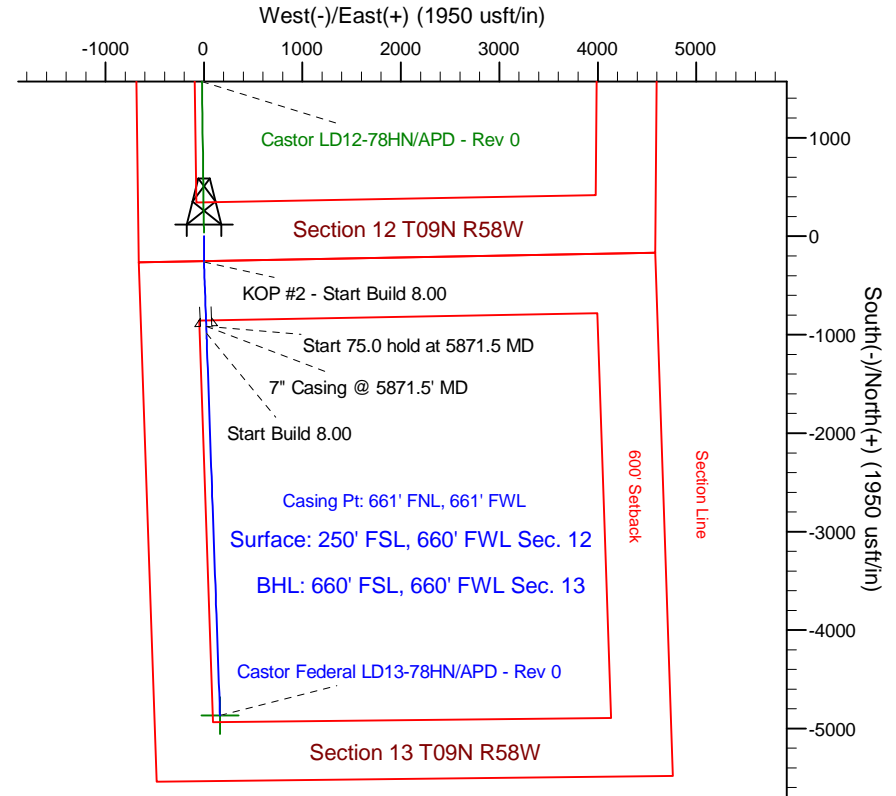
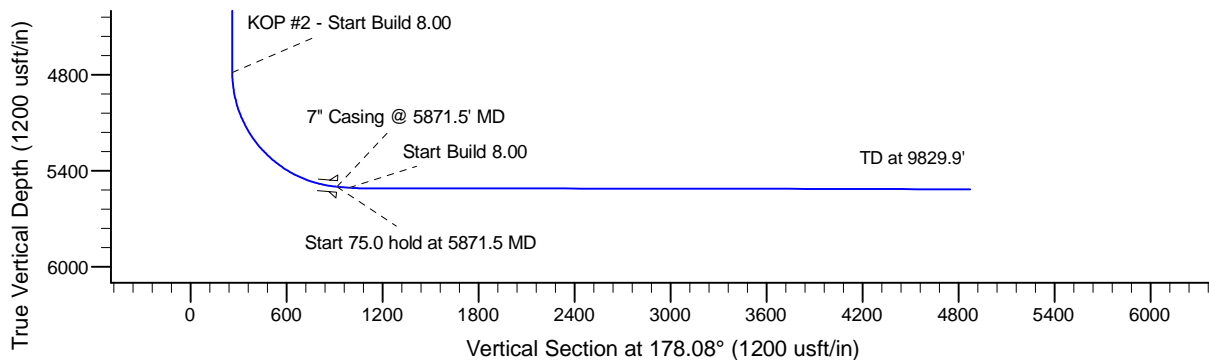
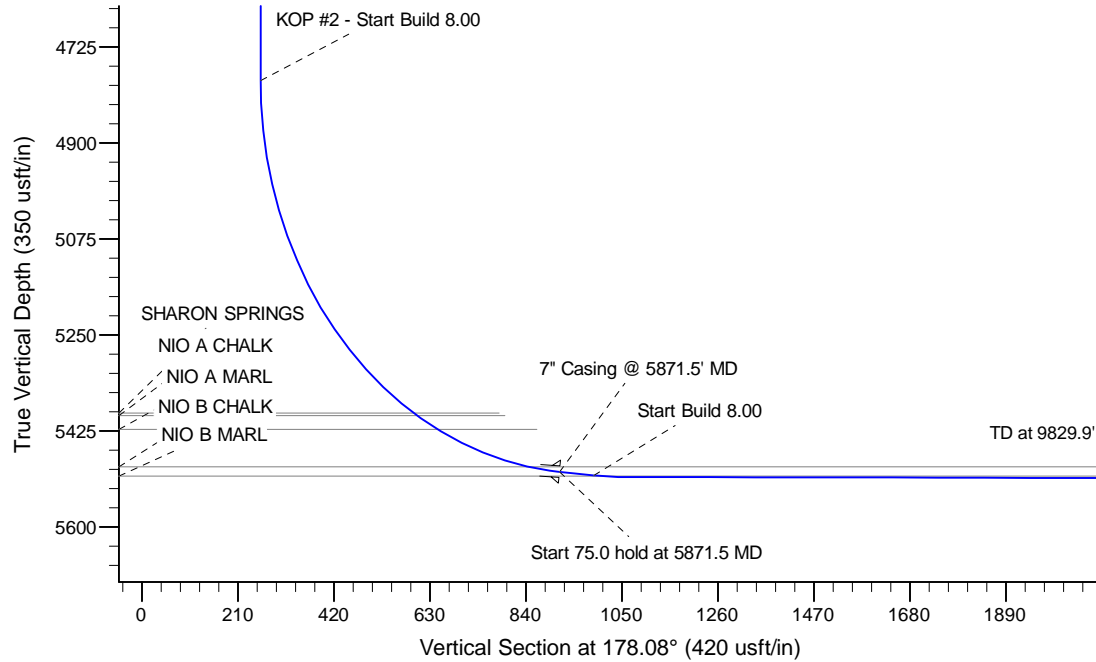
Project: Wattenberg Field  
Site: LD (Sec.12-T09N-R58W) Weld County, CO  
Well: Castor Federal LD13-78HN  
Wellbore: Original Drilling  
Design: APD - Rev 0

# Northern Region Drilling

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	2100.4	12.01	180.00	2096.0	-62.7	0.0	2.00	180.00	62.6	
4	2747.6	12.01	180.00	2729.0	-197.3	0.0	0.00	0.00	197.2	
5	3347.9	0.00	0.00	3325.0	-260.0	0.0	2.00	180.00	259.9	
6	4809.0	0.00	0.00	4786.1	-260.0	0.0	0.00	0.00	259.9	
7	5871.5	85.00	177.97	5499.6	-913.4	23.1	8.00	177.97	913.6	
8	5946.5	85.00	177.97	5506.1	-988.0	25.7	0.00	0.00	988.3	
9	6007.8	89.90	177.97	5508.8	-1049.2	27.9	8.00	0.00	1049.5	
10	9829.9	89.90	177.97	5515.5	-4868.9	163.0	0.00	0.00	4871.6	Castor Federal LD13-78HN BHL 660'FSL, 660'FWL



## WELL DETAILS: Castor Federal LD13-78HN

Ground Level: 4628.0			
Northing	Easting	Latitude	Longitude
0.0	0.0	1523970.54	3465568.59

Plan: APD - Rev 0 (Castor Federal LD13-78HN/Original Drilling)

Created By: Shailey Jewell Date: 8:53, February 22 2013

Checked: \_\_\_\_\_ Date: \_\_\_\_\_

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_

Approved: \_\_\_\_\_ Date: \_\_\_\_\_