

Northern Region Drilling

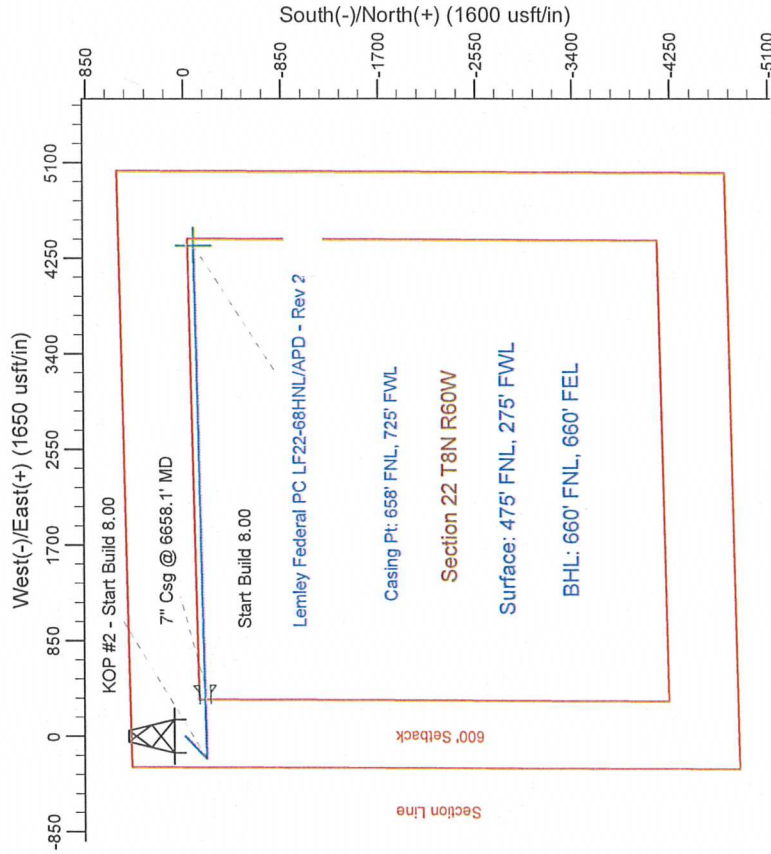
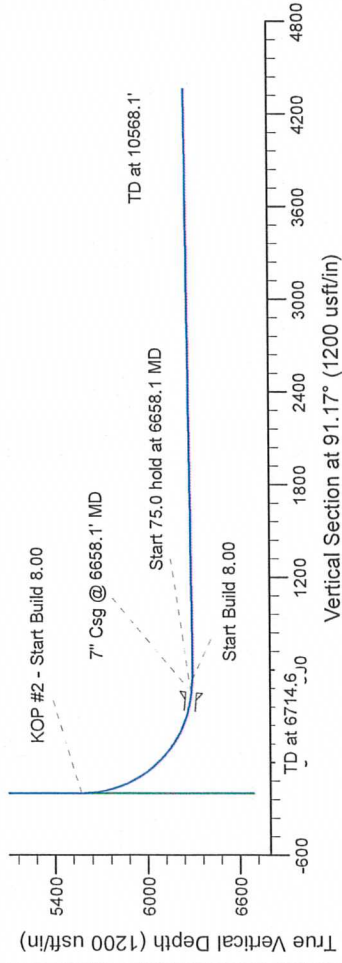
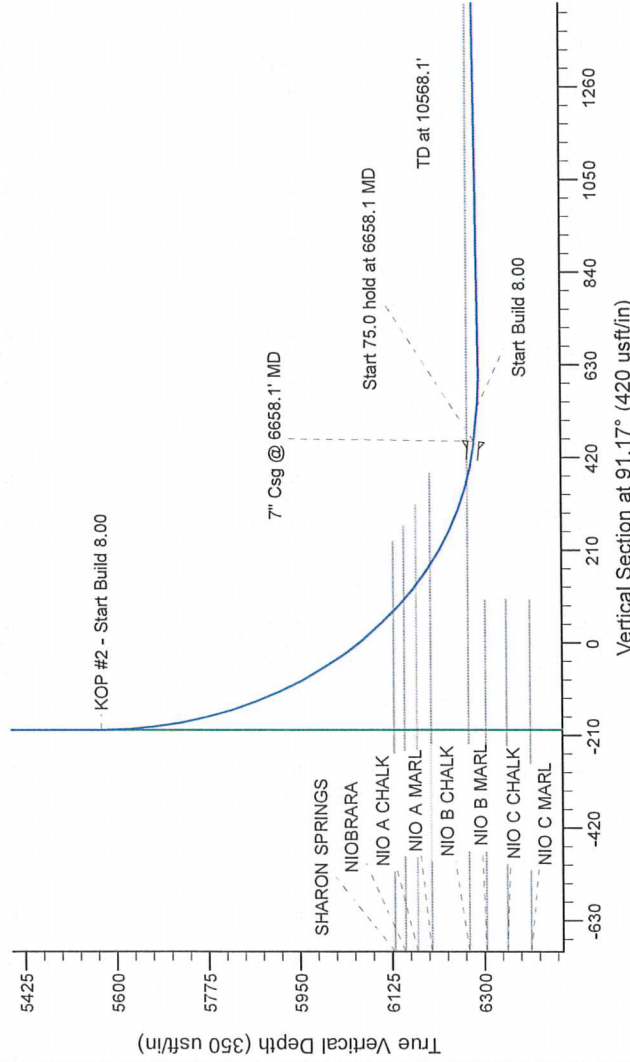
Project: Wattenberg Field
 Site: LF (Sec.22-T08N-R60W) Weld County, CO
 Well: Lemley Federal PC LF22-68HNL
 Wellbore: Original Drilling
 Design: APD - Rev 2

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	2814.0	12.28	227.23	2809.3	-44.5	-48.1	2.00	227.23	-47.2	
4	3478.6	12.28	227.23	3458.7	-140.5	-151.9	0.00	0.00	-149.0	
5	4092.6	0.00	0.00	4068.0	-185.0	-200.0	0.00	0.00	-196.2	
6	5585.6	0.00	0.00	5571.0	-185.0	-200.0	0.00	0.00	-196.2	
7	6658.1	85.00	88.79	6284.5	-171.2	-453.6	8.00	88.79	457.0	
8	6733.1	85.00	88.79	6291.0	-169.7	-528.3	8.00	0.00	531.7	
9	6803.1	90.60	88.79	6293.7	-168.2	-598.2	8.00	0.00	601.5	
10	10568.1	90.60	88.79	6294.3	-88.9	-4362.2	0.00	0.00	4363.1	

Lemley Federal PC LF22-68HNL BHL 660'FNL, 660'FEL



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Azimuths to Grid North
 True North: -0.91°
 Magnetic North: 7.32°

Magnetic Field
 Strength: 53180.7snT
 Dip Angle: 67.32°
 Date: 2/12/2013
 Model: IGRF200510

WELL DETAILS: Lemley Federal PC LF22-68HNL

Ground Level	4915.0	Longitude
Northing	1484149.23	40.653797
Easting	3392353.45	-104.085889

Plan: APD - Rev. (Lemley Federal PC LF22-68HNL/Original Drilling)

Created By: Carrie Willers Date: 16:35, March 06 2013
 Checked: Date: _____
 Reviewed: Date: _____
 Approved: Date: _____