

Project: Wattenberg Field
Site: K (Sec. 1-T04-R66W) Weld County, CO
Well: Loeffler K1-67-1HN
Wellbore: Original Drilling
Design: APD - Rev 1

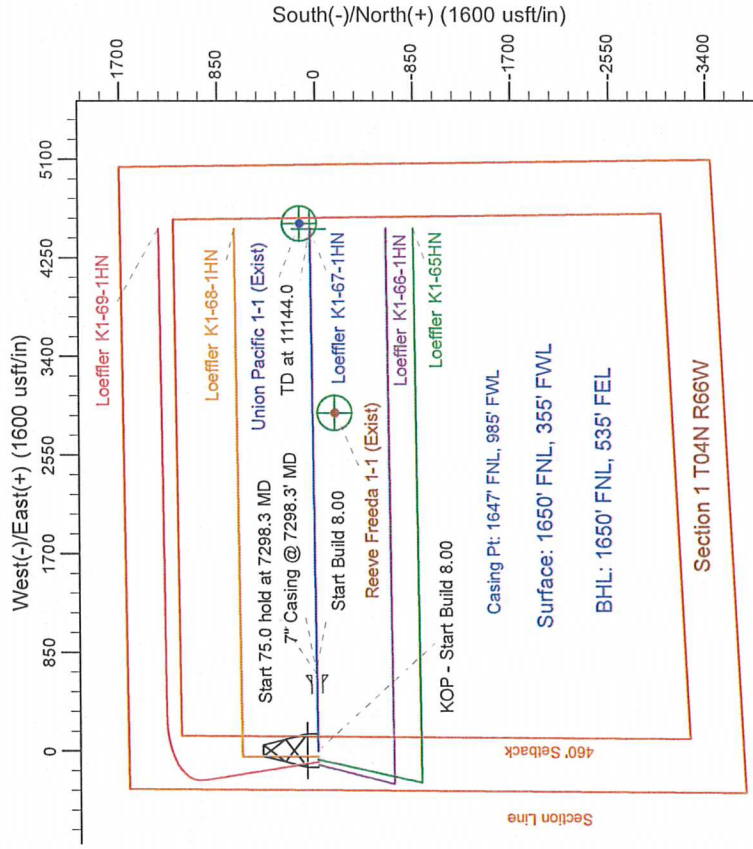
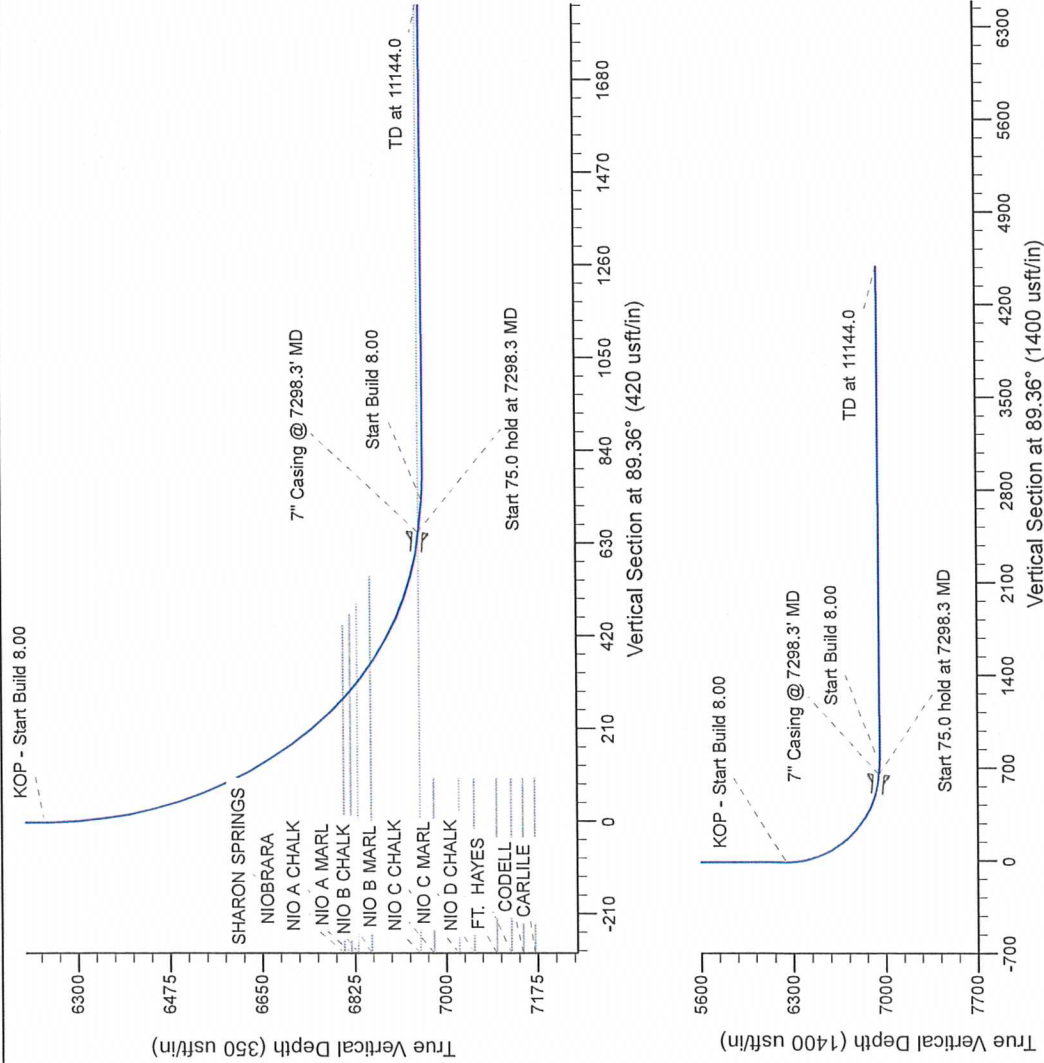
Northern Region Drilling

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	6235.8	0.00	0.00	6235.8	0.0	0.0	0.00	0.00	0.0	
3	7298.3	85.00	89.36	6955.8	7.3	653.7	8.00	89.36	653.8	
4	7372.3	85.00	89.36	6955.8	8.1	728.4	8.00	0.00	728.5	
5	7437.1	90.10	89.36	6952.1	8.8	792.1	8.00	0.00	792.2	
6	11144.0	90.10	89.36	6952.1	50.2	4498.8	0.00	0.00	4499.1	

Loeffler K1-67-1HN BHL 1650FNL & 535FEL



T G M

Azimuths to Grid North
True North: -0.49°
Magnetic North: 8.20°

Magnetic Field
Strength: 53051.5snT
Dip Angle: 66.99°
Date: 3/15/2012
Model: IGRF200510

WELL DETAILS: Loeffler K1-67-1HN

Well	North	East	Ground Level	Longitude
0.0	0.0	1369046.54	3213515.95	-104.733530

Plan: APD - Rev 1 (Loeffler K1-67-1HN/Original Drilling)

Created By: Shalley Jewell	Date: 8/49, April 23 2013
Checked: _____	Date: _____
Reviewed: _____	Date: _____
Approved: _____	Date: _____