

Project: Wattenberg Field
Site: E (Sec.23-T06N-R65W) Weld County, CO
Well: Reliance E23-65-1HN
Design: APD - Rev 1

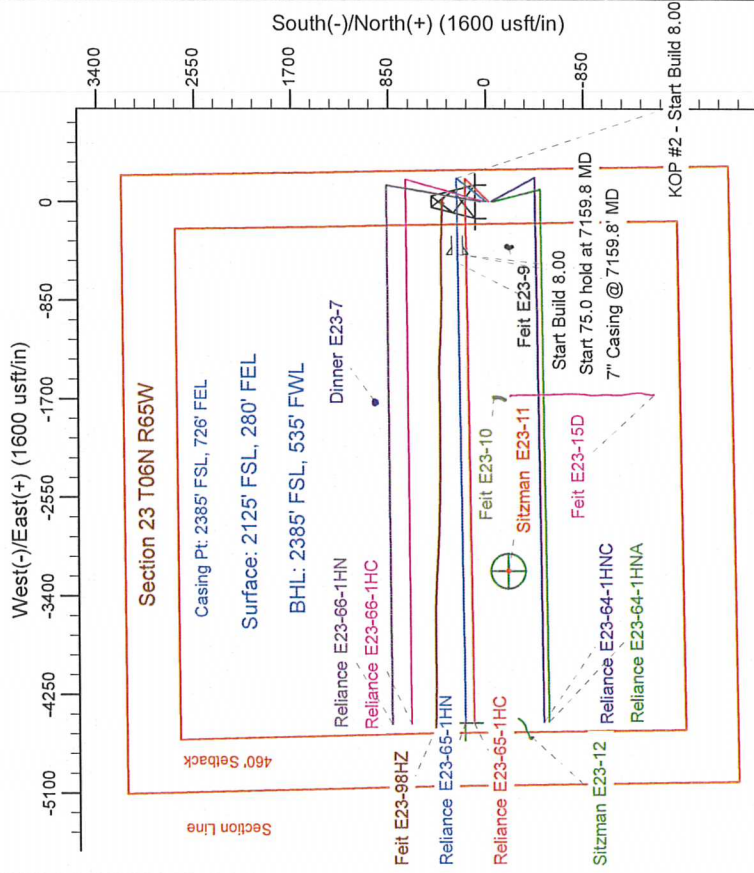
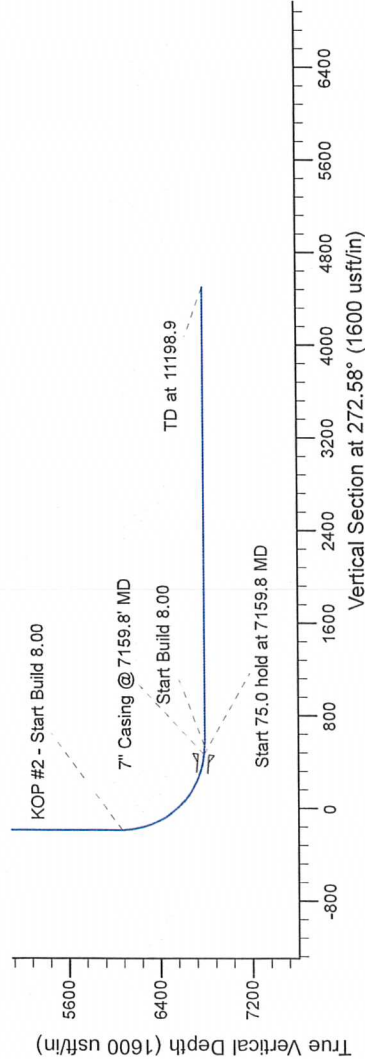
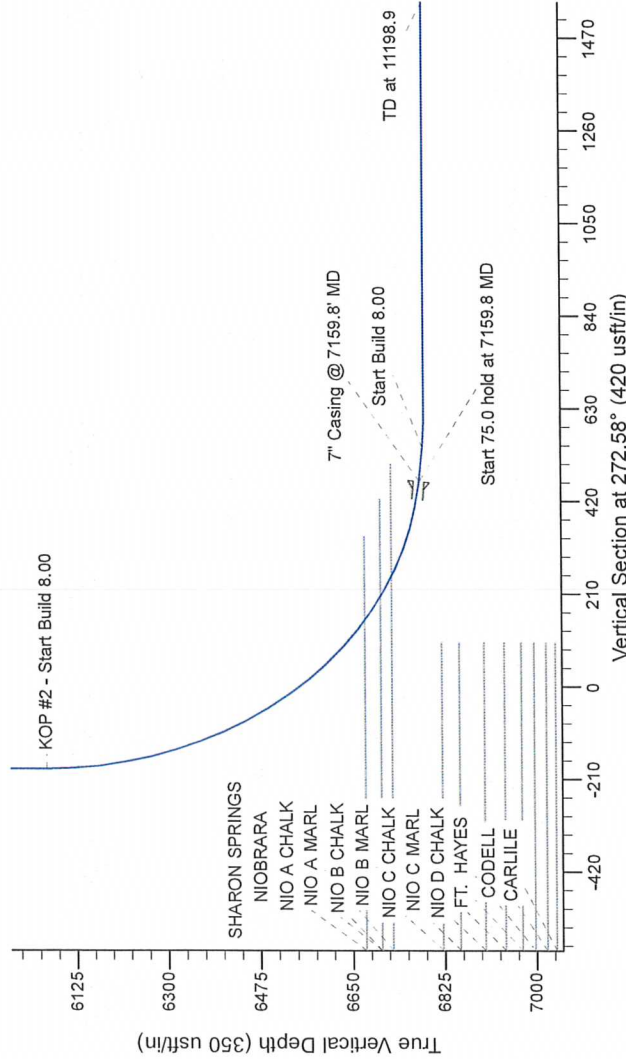
Northern Region Drilling - Working

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	VSet	Target
1	1500.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2100.3	12.01	37.57	2098.9	49.7	38.2	2.00	37.57	-35.9	0.00
3	2674.9	17.00	37.57	3098.9	49.7	38.2	2.00	37.57	-152.2	0.00
4	3074.9	17.00	37.57	3645.0	210.3	161.8	2.00	180.00	-188.1	0.00
5	3697.3	0.00	0.00	3645.0	260.0	200.0	2.00	0.00	-188.1	0.00
6	6097.3	85.00	269.29	6780.7	260.0	200.0	8.00	269.29	464.6	0.00
7	7159.8	85.00	269.29	6780.7	251.0	-528.4	8.00	0.00	539.2	0.00
8	7234.8	90.00	269.29	6787.3	250.3	-590.9	8.00	0.00	601.5	0.00
9	7297.3	90.00	269.29	6790.0	250.3	-590.9	8.00	0.00	601.5	0.00
10	11198.9	90.00	269.29	6790.0	202.2	-4492.1	0.00	0.00	4496.7	0.00

Reliance E23-65-1HN BHL 2385'FSL, 535'FWL



T G M

Azimuths to Grid North
True North: -0.57°
Magnetic North: 7.92°

Magnetic Field
Strength: 53008.4snT
Dip Angle: 67.07°
Date: 5/14/2013
Model: IGRF200510

WELL DETAILS: Reliance E23-65-1HN

North	East	Ground Level	Latitude	Longitude
0.0	1415285.69	4695.0	40.470040	-104.621850

Plan: APD - Rev 1 (Reliance E23-65-1HN)Original Drilling)

Created By: Shalley Jewell	Date: 11/11, October 10 2013
Checked: _____	Date: _____
Reviewed: _____	Date: _____
Approved: _____	Date: _____