

Project: Wattenberg Field
Site: G (Sec 4-T4N-R65W) Weld County, CO
Well: Knaub PC G04-64-1HN
Wellbore: Original Drilling
Design: APD - Rev 0

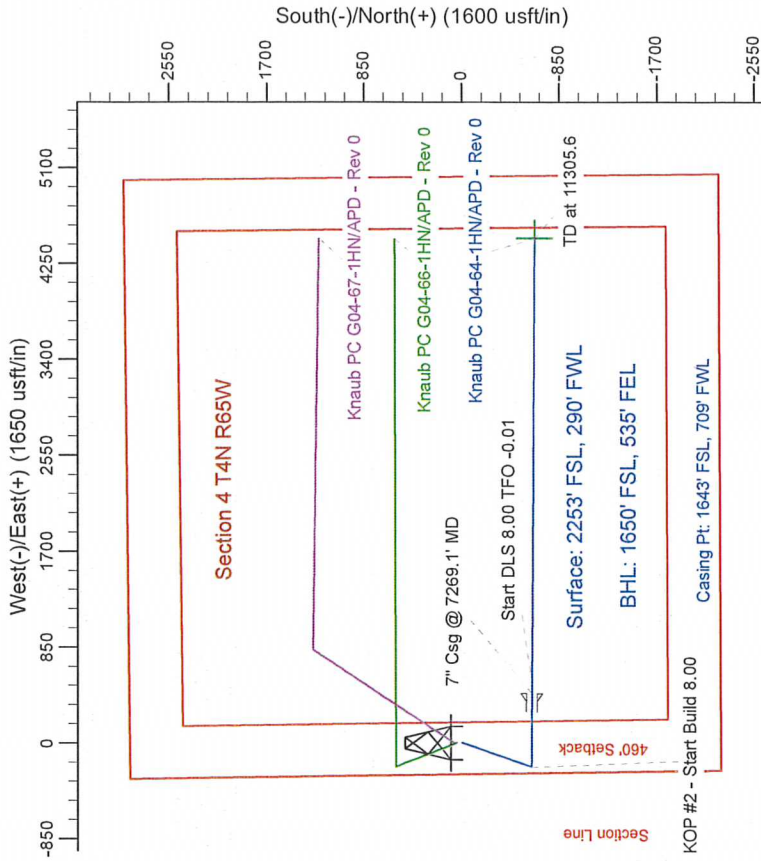
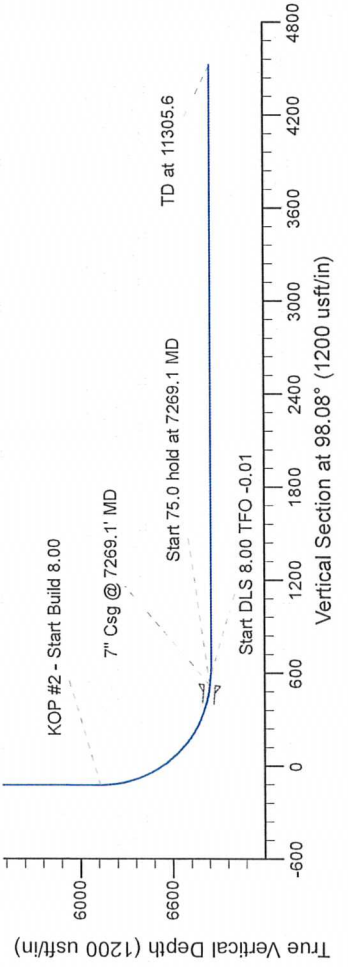
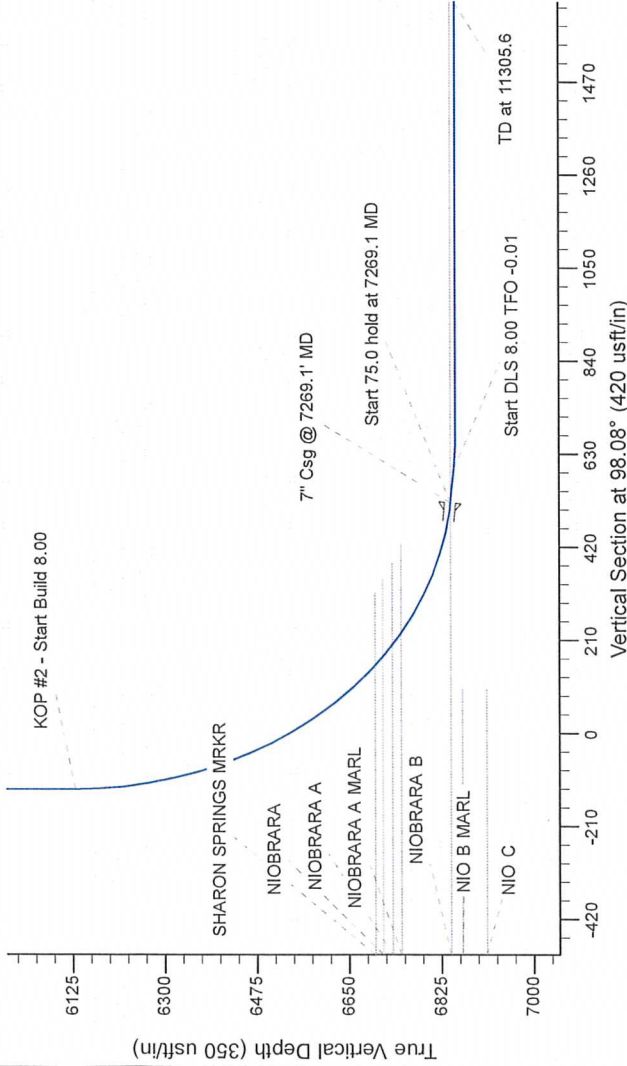
Northern Region Drilling

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	0.0
2	1500.3	0.00	199.62	1500.3	0.0	0.0	0.00	0.00	0.0	0.0
3	2099.3	14.38	199.62	2092.4	-73.4	-26.2	2.50	199.62	-15.6	-15.6
4	3873.0	14.38	199.62	3902.6	-523.6	-188.8	2.00	0.00	-112.5	-112.5
5	4572.3	0.00	0.00	4495.0	-603.0	-215.0	2.50	180.00	-128.1	-128.1
6	6206.6	0.00	0.00	6129.3	-603.0	-215.0	0.00	0.00	0.0	0.0
7	7269.1	85.00	90.40	6842.8	-607.6	438.8	8.00	90.40	519.8	519.8
8	7344.1	85.00	90.40	6849.3	-608.1	513.5	0.00	0.00	593.9	593.9
9	7406.6	90.00	90.40	6852.0	-608.5	575.9	8.00	-0.01	655.8	655.8
10	11305.6	90.00	90.40	6852.0	-635.7	4474.8	0.00	0.00	4519.8	4519.8

Knaub PC G04-64-1HN BHL 1650'FSL, 535'FEL



T G M

Azimuths to Grid North
True North: -0.53°
Magnetic North: 8.09°

Magnetic Field
Strength: 53020.6snT
Dip Angle: 66.99°
Date: 7/18/2012
Model: IGRF200510

WELL DETAILS: Knaub PC G04-64-1HN			
North	East	Ground Level	Latitude
1367968.50	3229500.93	4618.0	40.340550
		Longitude	
		-104.676680	
Plan: APD - Rev 0 (Knaub PC G04-64-1HN Original Drilling)			
Created By: Carrie Willers		Date: 12-56, July 20 2012	
Checked:		Date:	
Reviewed:		Date:	
Approved:		Date:	