

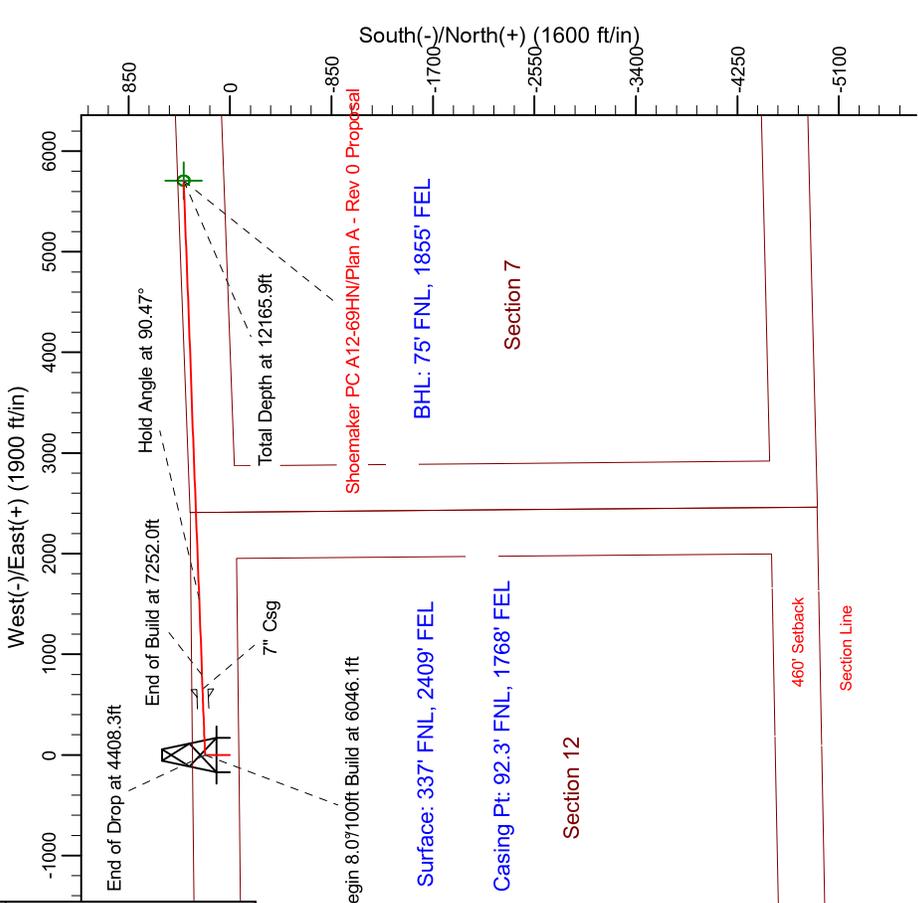
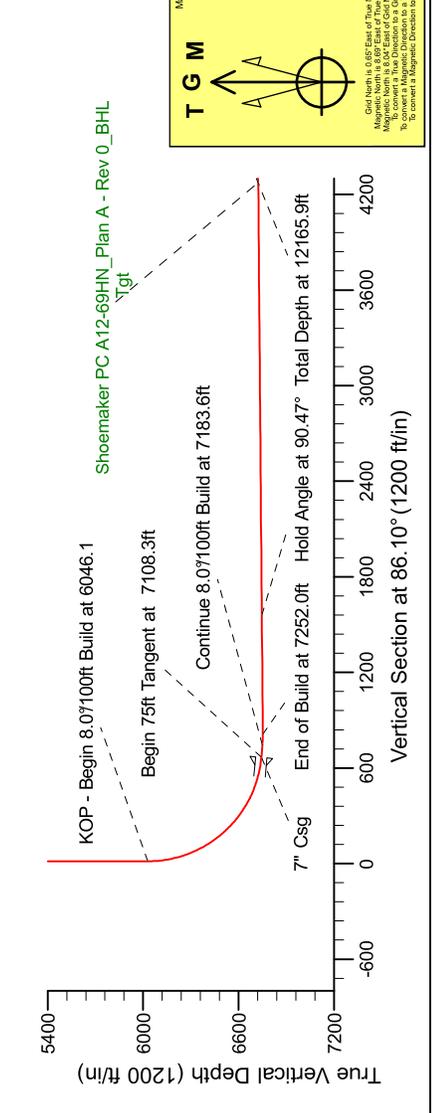
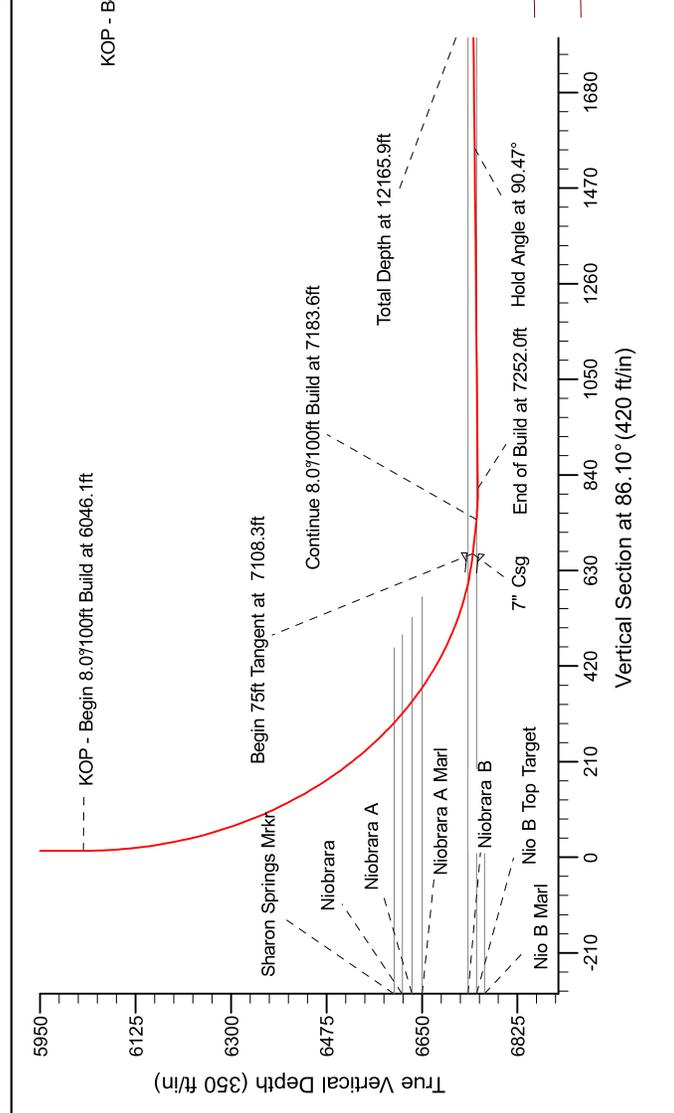
Noble Energy

HALLIBURTON
Sperry Drilling

Project: Weld County Colorado (NAD 83)
Site: Sec.12, T6N, R64W
Well: Shoemaker PC A12-69HN
Wellbore: Plan A - Rev 0 (PERMITTING PLAN ONLY)
Design: Plan A - Rev 0 Proposal

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	0.00	0.00	0.00	0.0	0.0
2	2800.0	0.00	0.00	2800.0	0.0	0.00	0.00	0.00	0.0	0.0
3	3200.0	10.00	0.00	3198.0	34.8	0.0	2.50	0.00	2.4	2.4
4	4008.3	10.00	0.00	3994.0	175.2	0.0	0.00	0.00	11.9	11.9
5	4408.3	0.00	0.00	4392.0	210.0	0.0	2.50	180.00	14.3	14.3
6	6046.1	0.00	0.00	6029.8	210.0	0.0	0.00	0.00	14.3	14.3
7	7108.6	85.00	88.20	6743.3	230.5	653.5	8.00	88.20	667.6	667.6
8	7183.6	85.00	88.20	6749.8	232.9	728.1	8.00	0.00	742.3	742.3
9	7252.0	90.47	88.20	6752.0	235.0	796.4	8.00	0.00	810.5	810.5
10	12165.9	90.47	88.20	6712.1	389.5	5707.7	0.00	-53.38	5721.0	5721.0



WELL DETAILS: Shoemaker PC A12-69HN(NAD83 Geodetic System)			
Northing	435607.80	Ground Level:	4720.0
Easting	999371.30	Latitude	40° 30' 25.596 N
Longitude	104° 29' 50.856 W		

Plan: Plan A - Rev 0 Proposal (Shoemaker PC A12-69HN/Plan A - Rev 0 (PERMITTING PLAN ONLY))

Created By: Erasmo Mendoza Date: 12:19, June 13 2011

T G M

Magnetic North is 0.66° East of True North (Grid Cover Error).
Magnetic North is 8.04° East of Grid North (Magnetic Conversion).
To convert True North to a Grid Direction, Add 0.66° East.
To convert True North to a Magnetic Direction, Add 8.04° East.
To convert a Magnetic Direction to a Grid Direction, Add 8.04°.

Magnetic Model: IGR200510
Date: 6/10/2011
Inclination: 8.04°
Dip Angle: 67.19°
Field Strength: 5329.6