

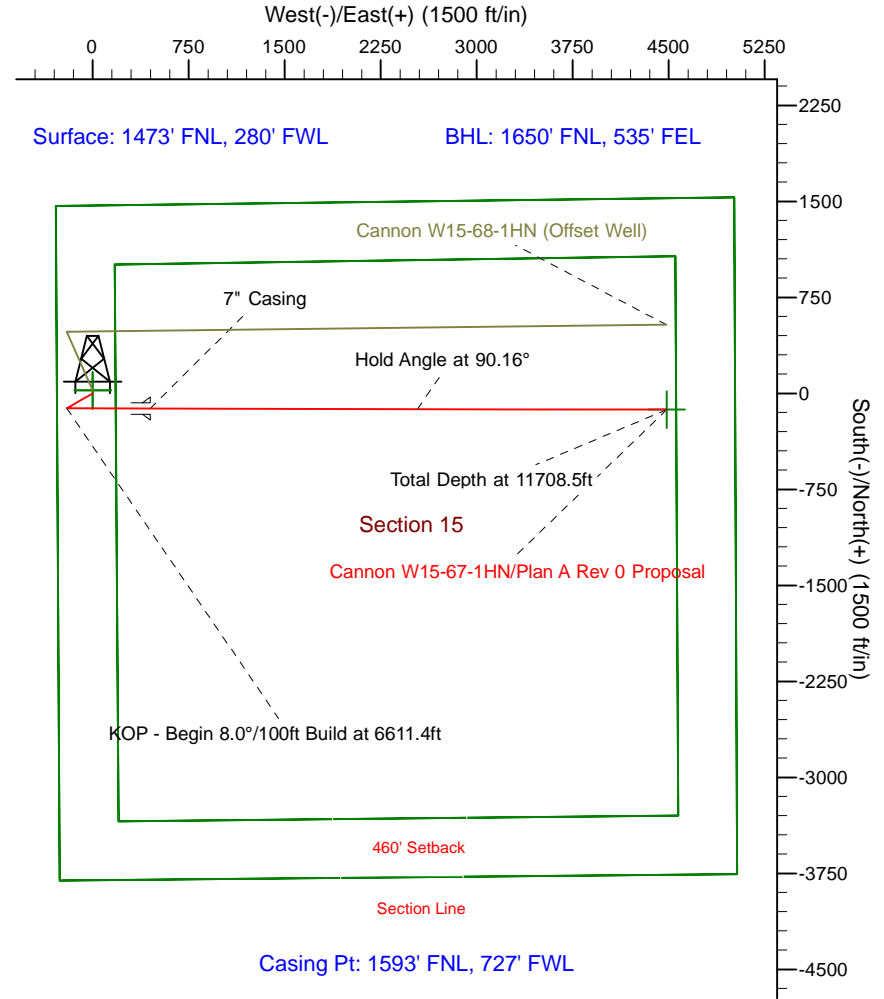
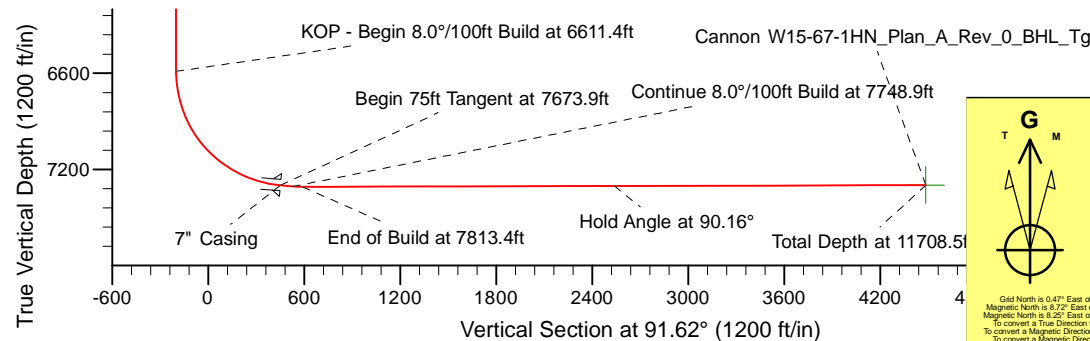
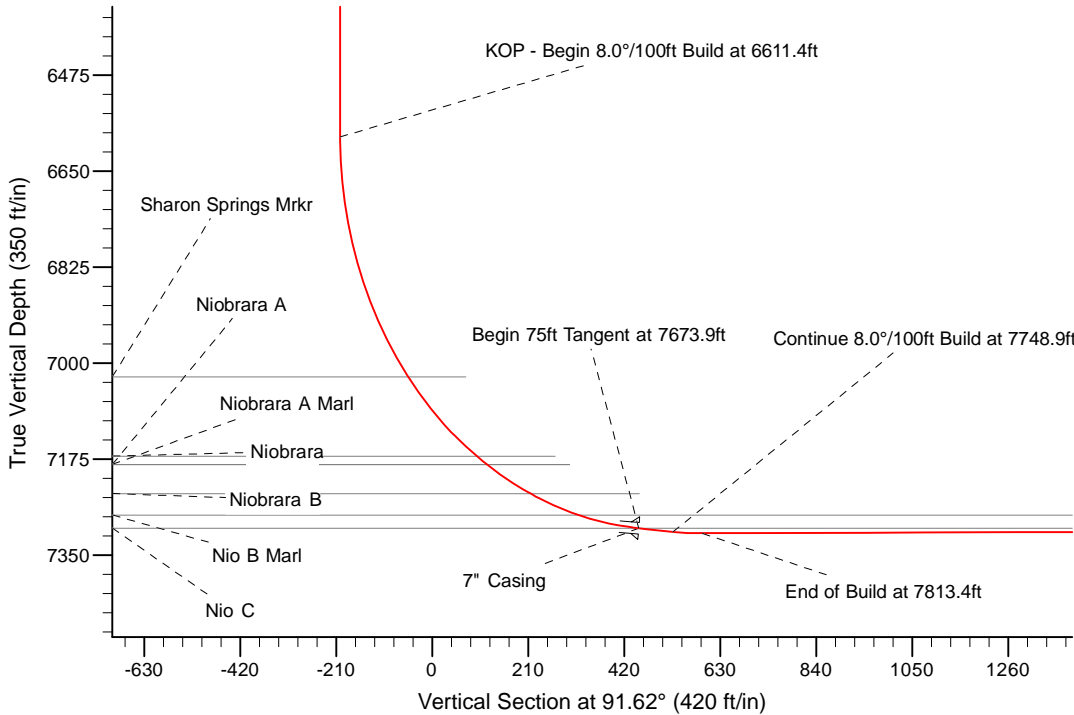
Project: Weld County Colorado (NAD 83)
 Site: Sec.15, T2N, R66w
 Well: Cannon W15-67-1HN
 Wellbore: Plan A Rev 0 (PERMITTING PLAN ONLY)
 Design: Plan A Rev 0 Proposal

Noble Energy



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V Sect	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	2800.0	15.00	240.29	2793.2	-38.7	-67.8	2.50	240.29	-66.7	
4	3067.4	15.00	240.29	3051.4	-73.0	-127.9	0.00	0.00	-125.8	
5	3749.2	0.00	0.00	3725.5	-117.0	-205.0	2.20	180.00	-201.6	
6	6611.4	0.00	0.00	6587.7	-117.0	-205.0	0.00	0.00	-201.6	
7	7673.9	85.00	90.12	7301.2	-118.4	448.8	8.00	90.12	451.9	
8	7748.9	85.00	90.12	7307.7	-118.5	523.5	0.00	0.00	526.6	
9	7813.4	90.16	90.12	7310.4	-118.7	587.9	8.00	0.00	591.0	
10	11708.5	90.16	90.12	7299.5	-126.7	4483.0	0.00	-54.51	4484.8	Cannon W15-67-1HN_Plan_A_Rev_0_BHL_Tg



Magnetic Model: IGRF200510

Azimuths to Grid North
 True North: -0.47°
 Magnetic North: 8.25°

Strength: 52952.7nT
 Dip Angle: 66.83°
 Date: 1/25/2012

Grid North is 0.47° East of True North (Grid Convergence)
 Magnetic North is 8.25° East of True North (Magnetic Declination)
 Magnetic North is 8.25° East of Grid North (Magnetic Convergence)
 To convert a True Direction to a Grid Direction, Subtract 0.47°
 To convert a Magnetic Direction to a True Direction, Add 8.25° East
 To convert a Magnetic Direction to a Grid Direction, Add 8.25°

WELL DETAILS: Cannon W15-67-1HN(NAD83 Geodetic System)			
Ground Level: 4971.0			
Northing	Easting	Latitude	Longitude
394768.50	976455.68	40° 8' 28.824 N	104° 46' 18.408 W
Plan: Plan A Rev 0 Proposal (Cannon W15-67-1HN/Plan A Rev 0 (PERMITTING PLAN ONLY))			
Created By: Jose Patino		Date: 7:07, January 25 2012	
OK to submit with 2A as per Noble Drilling			
1/26/2012 14:14			