

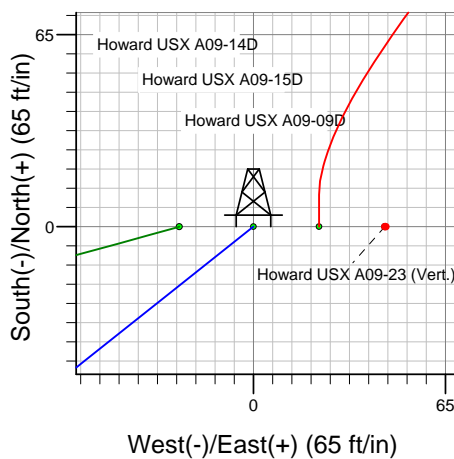
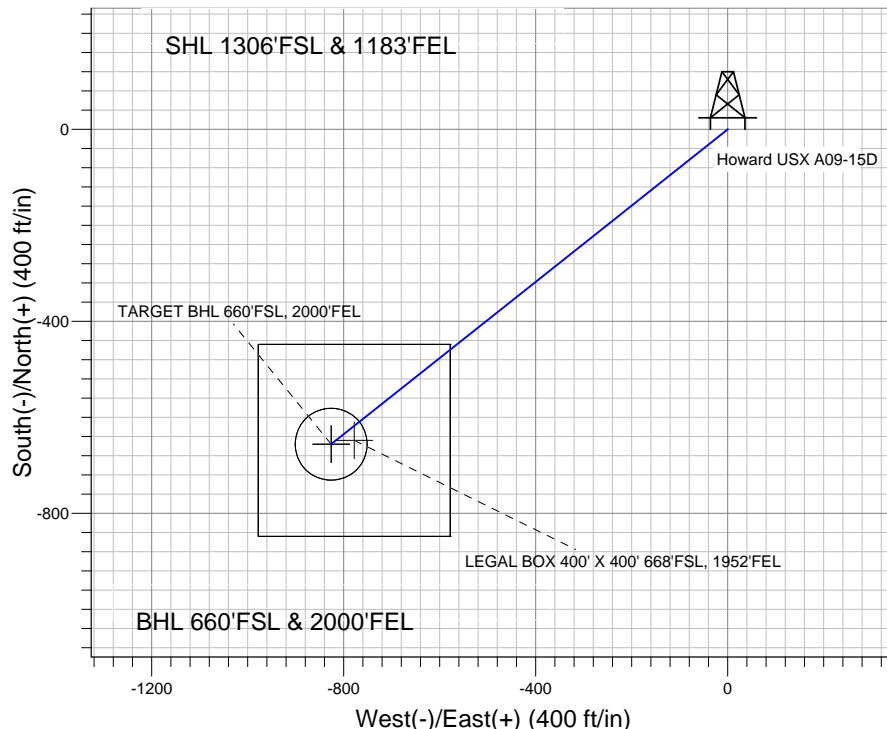
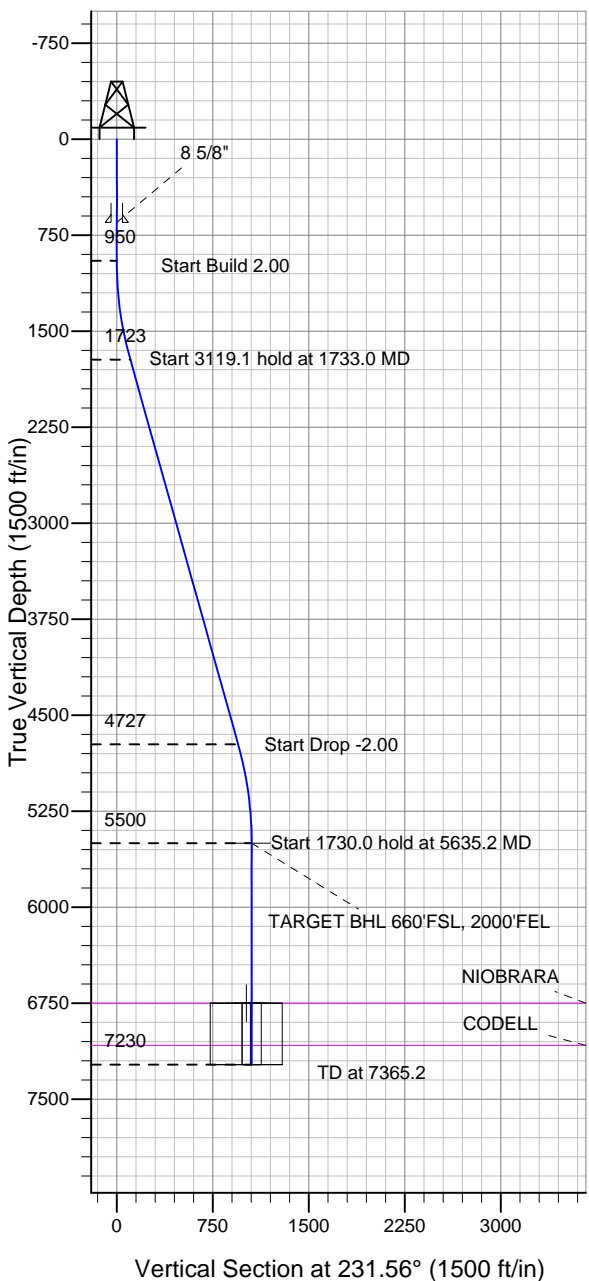
### Well Name: Howard USX A09-15D

Surface Location: Howard USX A09-14D Pad Sec.9-T6N-R64W  
 North American Datum 1983 US State Plane 1983 Colorado Northern Zone

Ground Elevation: 4847.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1425294.70	3264209.74	40.496950	-104.549970	
Original Well Elev WELL @ 4860.0ft (Original Well Elev)						

## NOBLE ENERGY INC WELD COUNTY CO



Howard USX A09-14D Pad Sec.9-T6N-R64W  
 Howard USX A09-15D  
 Noble Howard USX A09-15D Plan #1 (4-11-11)  
 13:43, April 12 2011



Azimuths to True North  
 Magnetic North: 8.78°

Magnetic Field  
 Strength: 53223.9snT  
 Dip Angle: 67.17°  
 Date: 4/11/2011  
 Model: IGRF2010

### WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
TARGET BHL 660'FSL, 2000'FEL	5500.0	-655.8	-826.0	40.495150	-104.552940	Point
LEGAL BOX 400' X 400' 668'FSL, 1952'FEL	6750.0	-647.8	-778.0	40.495172	-104.552767	Rectangle (Sides: L400.0 W400.0)
TARGET CIRCLE 660'FSL, 2000'FEL	6750.0	-655.8	-826.0	40.495150	-104.552940	Circle (Radius: 75.0)

### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	950.0	0.00	0.00	950.0	0.0	0.0	0.00	0.00	0.0	
3	1733.0	15.66	231.56	1723.3	-66.1	-83.3	2.00	231.56	106.4	
4	4852.2	15.66	231.56	4726.7	-589.6	-742.7	0.00	0.00	948.3	
5	5635.2	0.00	0.00	5500.0	-655.8	-826.0	2.00	180.00	1054.7	TARGET BHL 660'FSL, 2000'FEL
6	7365.2	0.00	0.00	7230.0	-655.8	-826.0	0.00	0.00	1054.7	