

ENSIGN

Directional

Well Name: Tye USX A15-03D

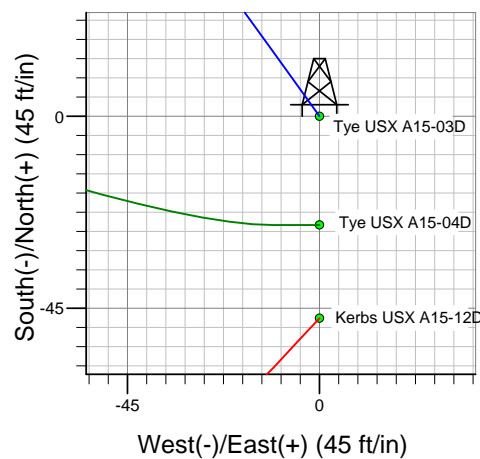
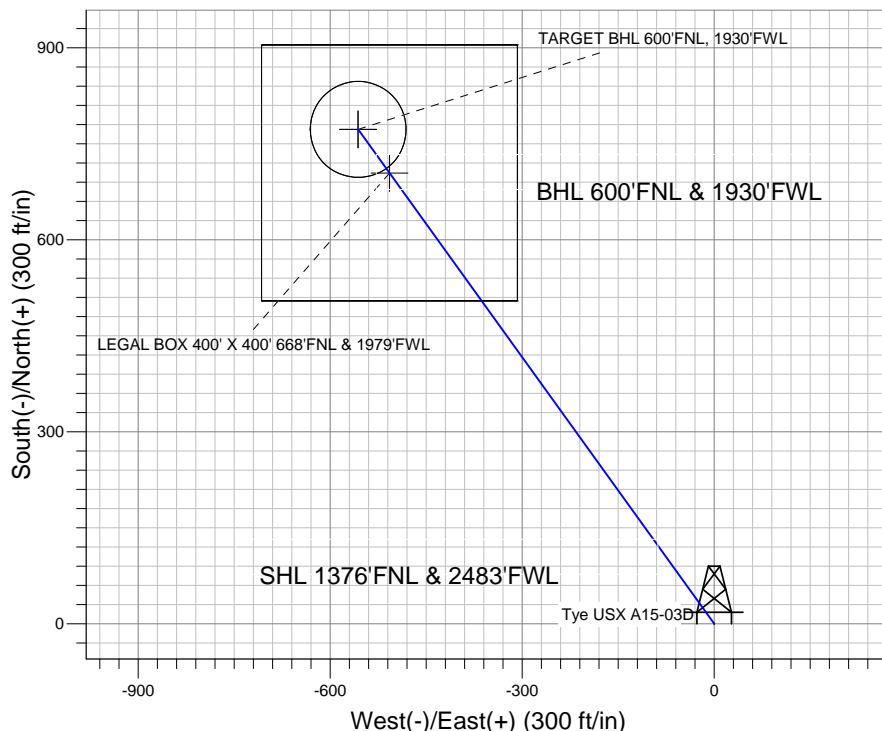
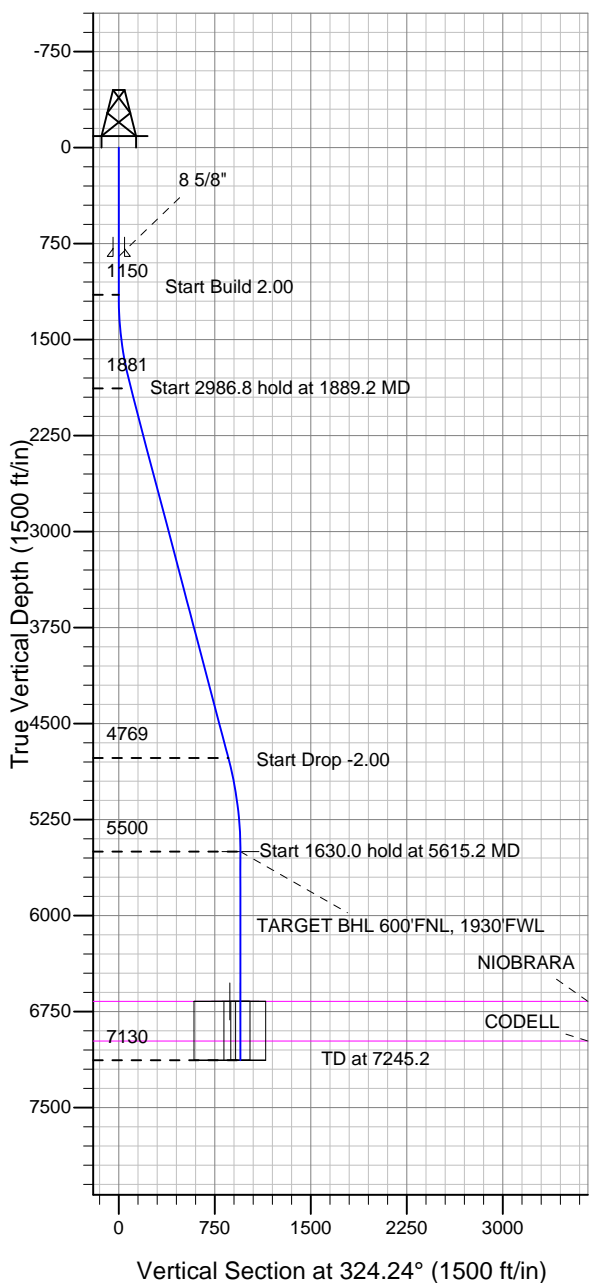
Surface Location: Tye and Kerbs Pad Sec.15-T6N-R64W
North American Datum 1983 US State Plane 1983 Colorado Northern Zone

Ground Elevation: 4797.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1422671.21	3267892.85	40.489640	-104.536830	

Original Well Elev WELL @ 4810.0ft (Original Well Elev)

NOBLE ENERGY INC WELD COUNTY CO



Tye and Kerbs Pad Sec.15-T6N-R64W
Tye USX A15-03D
Noble Tye USX A15-03D Plan #1 (6-01-11)
11:31, June 07 2011



Azimuths to True North
Magnetic North: 8.75°

Magnetic Field
Strength: 53205.4snT
Dip Angle: 67.16°
Date: 6/7/2011
Model: IGRF2010

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
TARGET BHL 600'FNL, 1930'FWL	5500.0	772.4	-556.3	40.491760	-104.538830	Point
LEGAL BOX 400' X 400' 668'FNL & 1979'FWL	6670.0	704.4	-507.3	40.491573	-104.538654	Rectangle (Sides: L400.0 W400.0)
TARGET CIRCLE 600'FNL & 1930'FWL	6670.0	772.4	-556.3	40.491760	-104.538830	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	1150.0	0.00	0.00	1150.0	0.0	0.0	0.00	0.00	0.0	
3	1889.2	14.78	324.24	1881.0	77.0	-55.4	2.00	324.24	94.8	
4	4876.0	14.78	324.24	4769.0	695.4	-500.9	0.00	0.00	857.0	
5	5615.2	0.00	0.00	5500.0	772.4	-556.3	2.00	180.00	951.8	TARGET BHL 600'FNL, 1930'FWL
6	7245.2	0.00	0.00	7130.0	772.4	-556.3	0.00	0.00	951.8	