

ENSIGN

Directional

Well Name: Megan State H15-32D

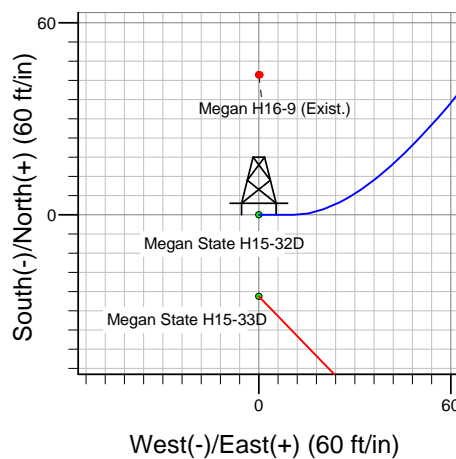
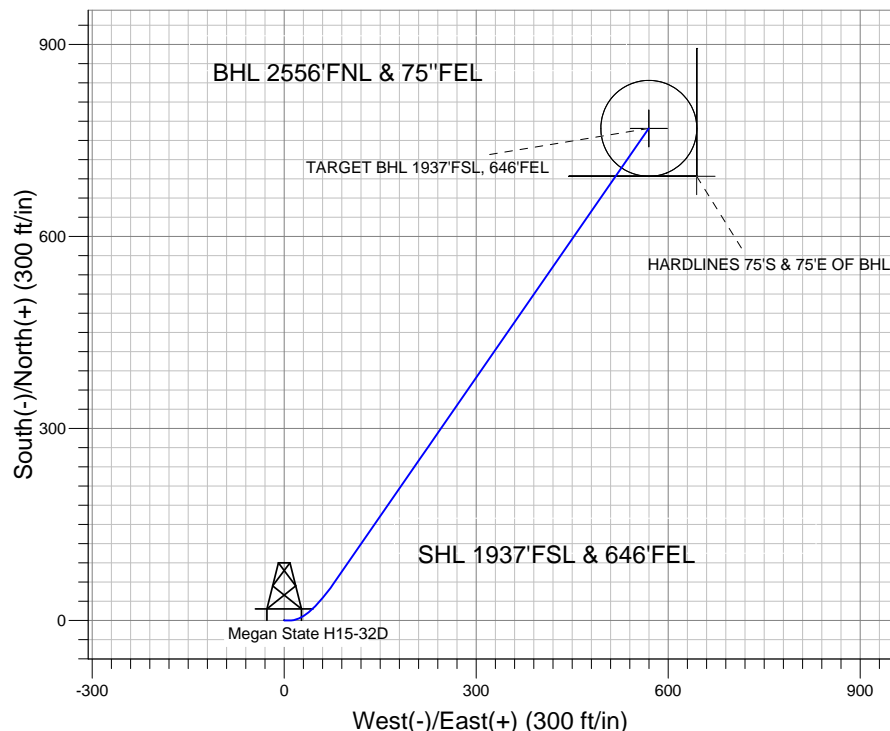
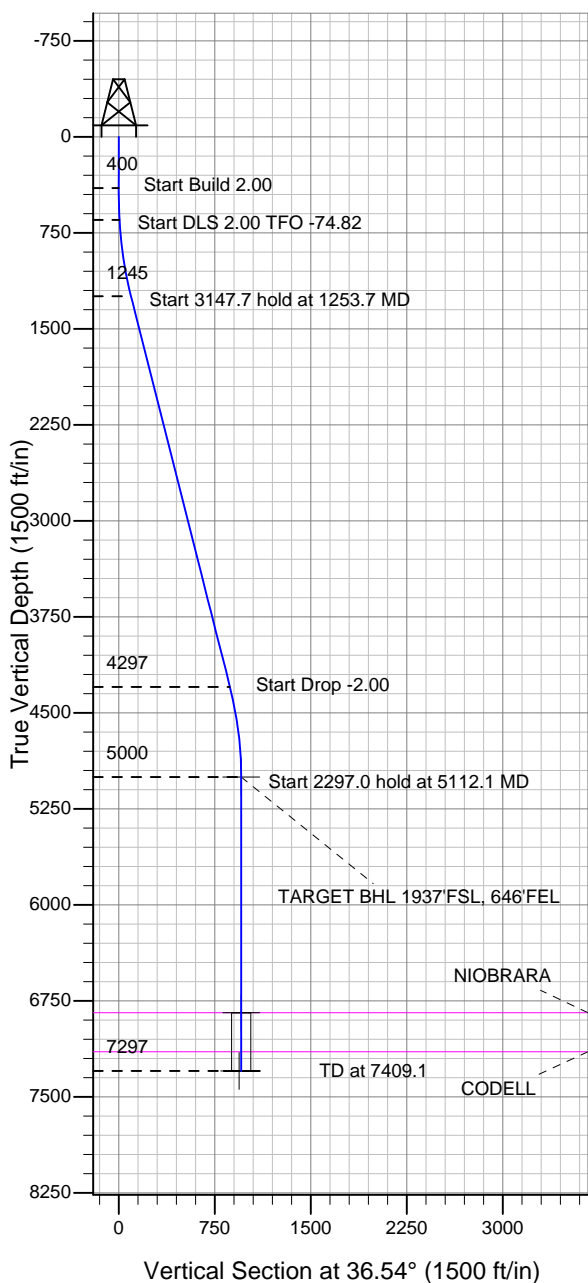
Surface Location: Megan State H15-33D Pad Sec.16-T3N-R65W
North American Datum 1983 US State Plane 1983 Colorado Northern Zone

Ground Elevation: 4819.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1325365.96	3234082.42	40.223490	-104.661690	

Original Well Elev WELL @ 4832.0ft (Original Well Elev)

NOBLE ENERGY INC WELD COUNTY CO



Megan State H15-33D Pad Sec.16-T3N-R65W
Megan State H15-32D
Noble Megan State H15-32D Plan #1 (10-18-11)
12:13, October 20 2011



Azimuths to True North
Magnetic North: 8.75°

Magnetic Field
Strength: 53013.8nT
Dip Angle: 66.91°
Date: 10/18/2011
Model: IGRF2010

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
TARGET BHL 1937'FSL, 646'FEL	5000.0	768.7	569.6	40.225600	-104.659650	Point
TARGET CIRCLE 1937'FSL & 646'FEL	6843.0	768.7	569.6	40.225600	-104.659650	Circle (Radius: 75.0)
HARDLINES 75'S & 75'E OF BHL	7297.0	693.7	644.6	40.225394	-104.659382	Polygon

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	400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.0	
3	650.0	5.00	90.00	649.7	0.0	10.9	2.00	90.00	6.5	
4	1253.7	14.21	34.70	1245.2	61.2	79.7	2.00	-74.82	96.6	
5	4401.4	14.21	34.70	4296.5	696.6	519.7	0.00	0.00	869.1	
6	5112.1	0.00	0.00	5000.0	768.7	569.6	2.00	180.00	956.8	TARGET BHL 1937'FSL, 646'FEL
7	7409.1	0.00	0.00	7297.0	768.7	569.6	0.00	0.00	956.8	