

# ENSIGN

## Directional

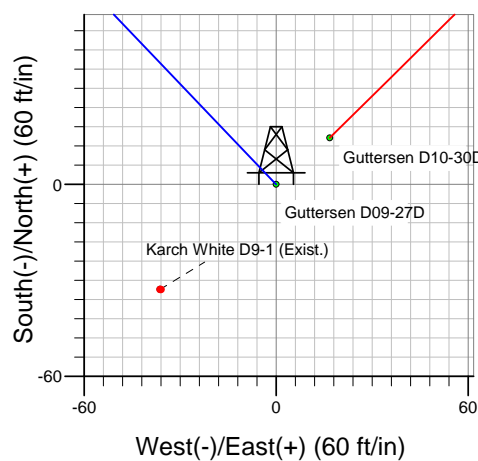
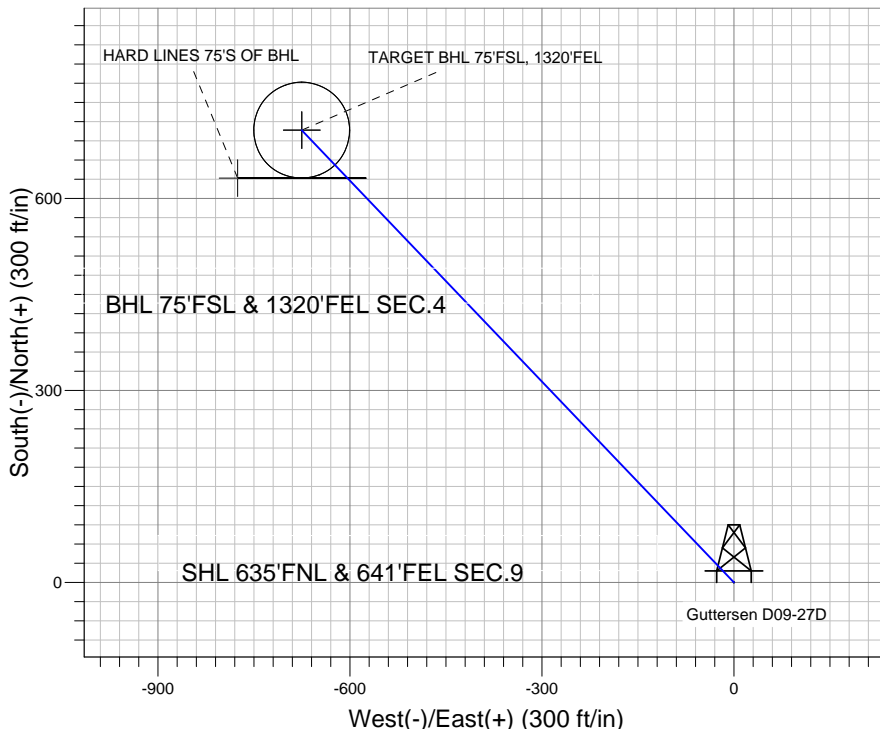
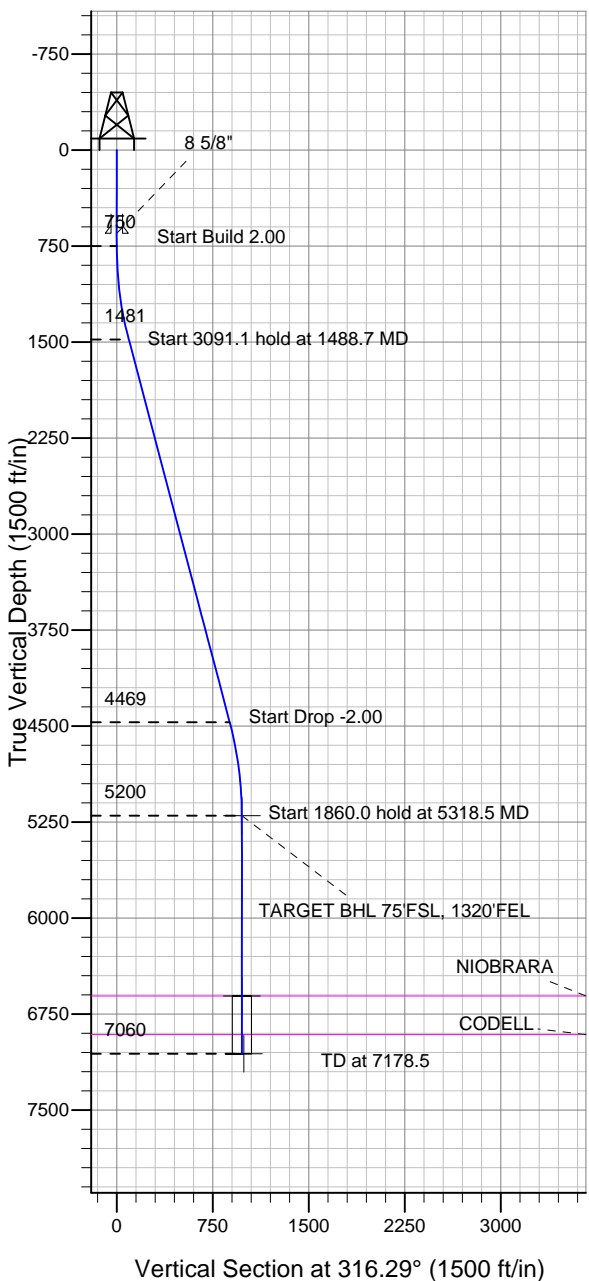
### Well Name: Guttersen D09-27D

Surface Location: Guttersen D10-30D Pad Sec.9-T3N-R64W  
North American Datum 1983 US State Plane 1983 Colorado Northern Zone

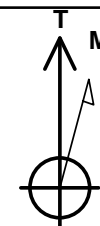
Ground Elevation: 4719.0

+N/-S +E/-W Northing Easting Latitude Longitude Slot  
0.0 0.0 1333712.00 3265478.50 40.245530 -104.548940  
Original Well Elev WELL @ 4732.0ft (Original Well Elev)

## NOBLE ENERGY INC WELD COUNTY CO



Guttersen D10-30D Pad Sec.9-T3N-R64W  
Guttersen D09-27D  
Noble Guttersen D09-27D Plan #1 (5-04-11)  
15:38, May 05 2011



Azimuths to True North  
Magnetic North: 8.71°

Magnetic Field  
Strength: 53107.9snT  
Dip Angle: 66.97°  
Date: 5/5/2011  
Model: IGRF200510

### WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
TARGET BHL 75'FSL, 1320'FEL	5200.0	706.8	-675.5	40.247470	-104.551360	Point
TARGET CIRCLE 75'FSL & 1320'FEL	6609.0	706.8	-675.5	40.247470	-104.551360	Circle (Radius: 75.0)
HARD LINES 75'S OF BHL	7060.0	631.8	-775.5	40.247264	-104.551718	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	750.0	0.00	0.00	750.0	0.0	0.0	0.00	0.00	0.0	
3	1488.7	14.77	316.29	1480.6	68.5	-65.4	2.00	316.29	94.7	
4	4579.8	14.77	316.29	4469.4	638.3	-610.1	0.00	0.00	883.0	
5	5318.5	0.00	0.00	5200.0	706.8	-675.5	2.00	180.00	977.7	TARGET BHL 75'FSL, 1320'FEL
6	7178.5	0.00	0.00	7060.0	706.8	-675.5	0.00	0.00	977.7	