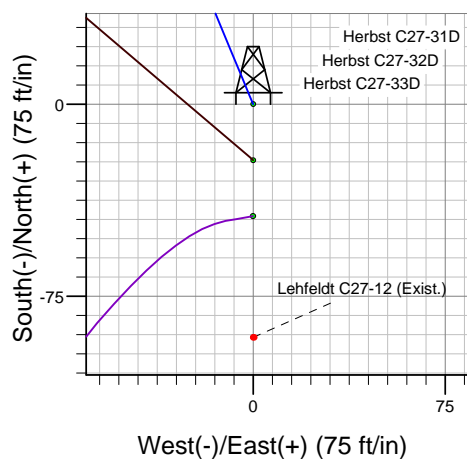
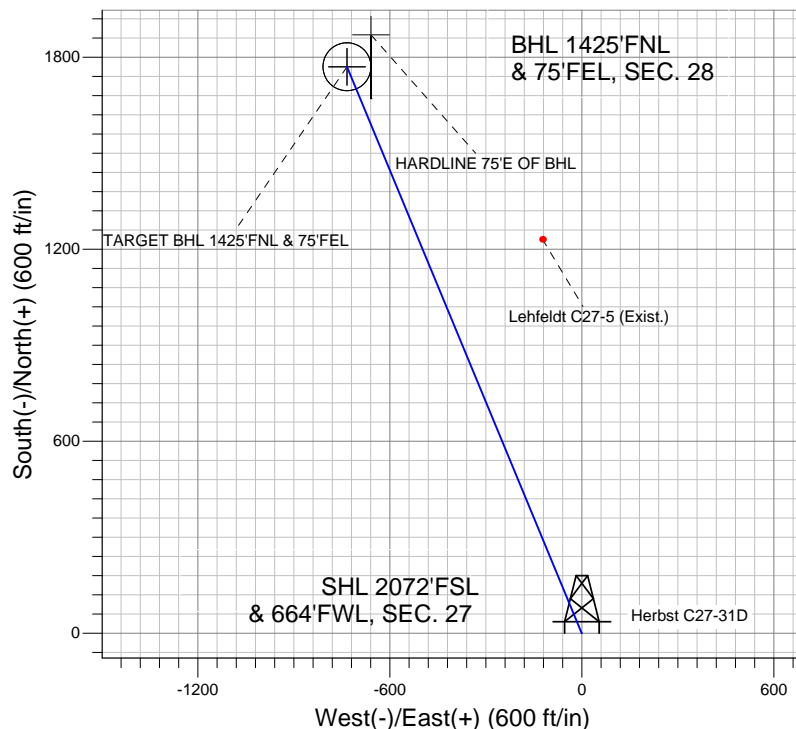
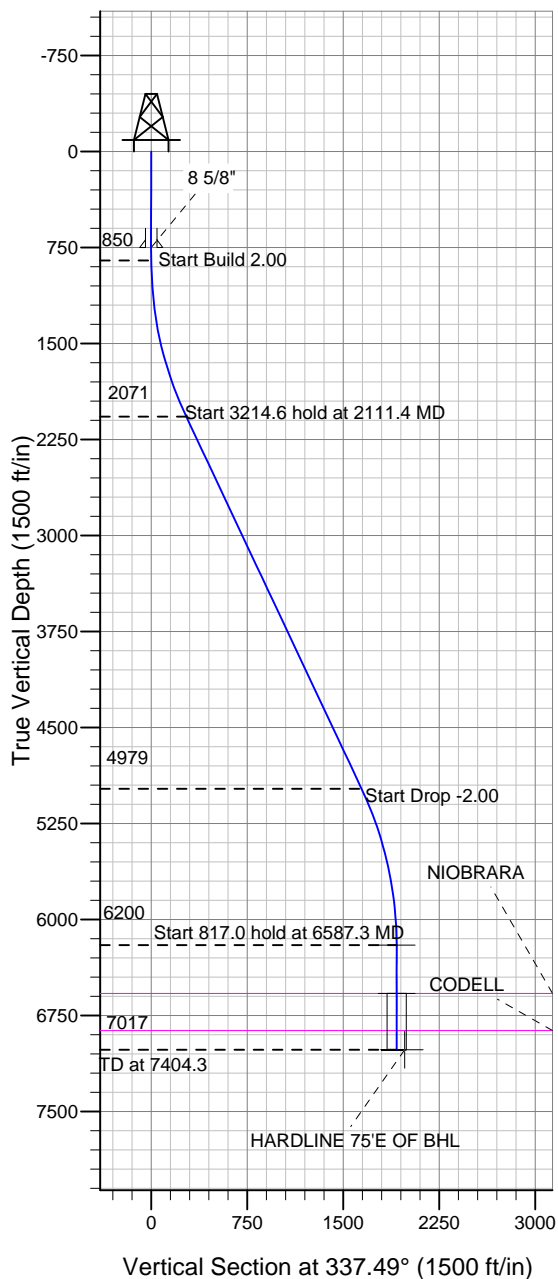


### Well Name: Herbst C27-31D

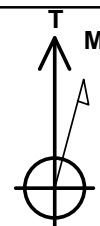
Surface Location: Herbst C27-33D Pad Sec.27-T4N-R64W  
North American Datum 1983, US State Plane 1983Colorado Northern Zone  
Ground Elevation: 4704.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1346974.88	3266686.66	40.281900	-104.544100	
		Original Well Elev	WELL @ 4717.0ft (Original Well Elev)			

### NOBLE ENERGY INC WELD COUNTY CO



Herbst C27-33D Pad Sec.27-T4N-R64W  
Herbst C27-31D  
Noble Herbst C27-31D Plan #1 (12-19-11)  
13:55, December 21 2011



Azimuths to True North  
Magnetic North: 8.67°  
Magnetic Field  
Strength: 53045.3snT  
Dip Angle: 66.98°  
Date: 12/1/2011  
Model: IGRF2010

#### WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
TARGET BHL 1425'FNL & 75°FEL	6200.0	1770.5	-733.7	40.286760	-104.546730	Point
TARGET CIRCLE 1425'FNL & 75°FEL	6577.0	1770.5	-733.7	40.286760	-104.546730	Circle (Radius: 75.0)
HARDLINE 75°E OF BHL	7017.0	1870.5	-658.7	40.287034	-104.546461	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	850.0	0.00	0.00	850.0	0.0	0.0	0.00	0.00	0.0	
3	2111.4	25.23	337.49	2071.0	252.4	-104.6	2.00	337.49	273.2	
4	5326.0	25.23	337.49	4979.0	1518.1	-629.1	0.00	0.00	1643.3	
5	6587.3	0.00	0.00	6200.0	1770.5	-733.7	2.00	180.00	1916.6	TARGET BHL 1425'FNL & 75°FEL
6	7404.3	0.00	0.00	7017.0	1770.5	-733.7	0.00	0.00	1916.6	