

# ENSIGN

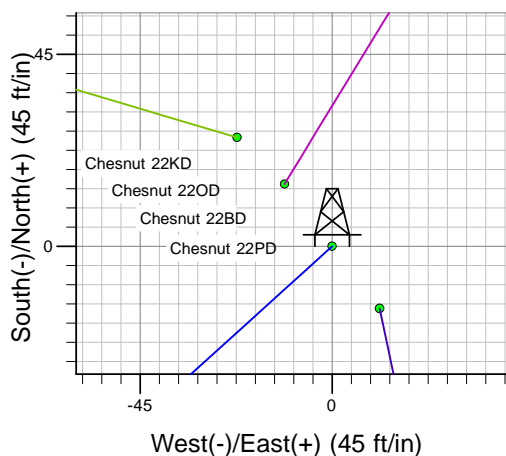
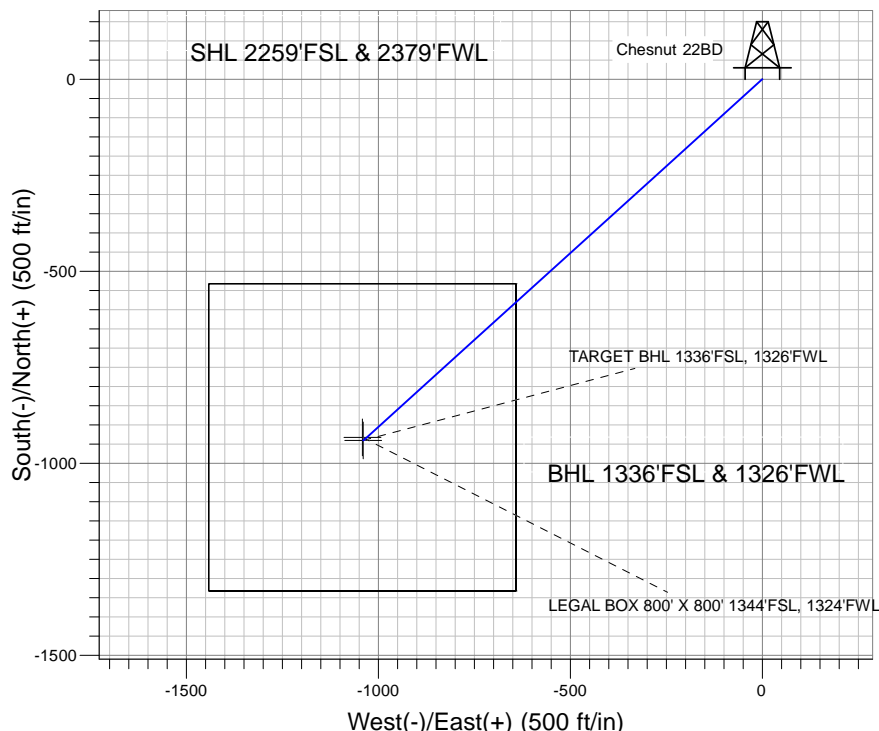
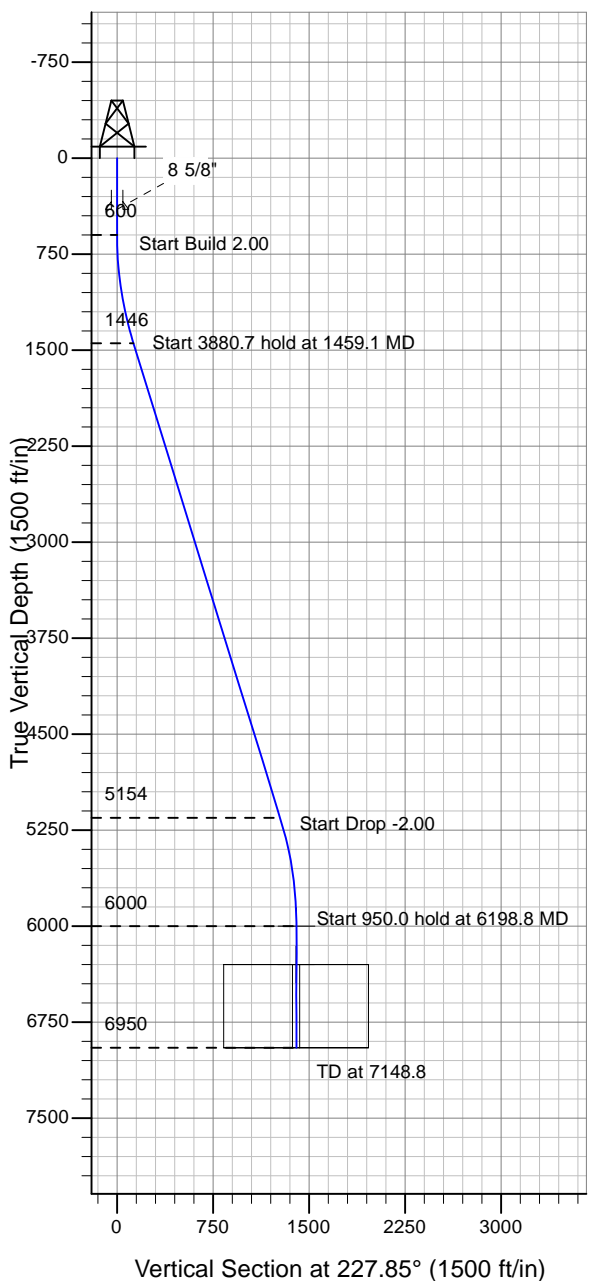
## Directional

### Well Name: Chesnut 22BD

Surface Location: Chesnut 22KD Pad Sec.22-T5N-R64W  
 North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone  
 Ground Elevation: 4600.0

+N/-S+E/-W Northing Easting Latitude Longitude Slot  
 0.0 0.0 1384101.40 3268311.80 40° 23' 1.536 N 104° 32' 12.588 W  
 Original Well Elev WELL @ 4613.0ft (Original Well Elev)

### PETROLEUM DEVELOPMENT CORP Weld County CO



Chesnut 22KD Pad Sec.22-T5N-R64W  
 Chesnut 22BD  
 Plan #1 (5-24-10)  
 15:21, May 24 2010



Azimuths to True North  
 Magnetic North: 8.88°

Magnetic Field  
 Strength: 53261.5snT  
 Dip Angle: 67.11°  
 Date: 5/24/2010  
 Model: IGRF2010

### WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
TARGET BHL 1336'FSL, 1326'FWL	6000.0	-940.8	-1039.4	40° 22' 52.239 N	104° 32' 26.019 W	Point
LEGAL BOX 800' X 800' 1344'FSL, 1324'FWL	6300.0	-932.8	-1041.4	40° 22' 52.318 N	104° 32' 26.045 W	Rectangle (Sides: L800.0 W800.0)

### 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	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1459.1	17.18	227.85	1446.2	-85.8	-94.8	2.00	227.85	127.8	
4	5339.8	17.18	227.85	5153.8	-855.1	-944.7	0.00	0.00	1274.2	
5	6198.8	0.00	0.00	6000.0	-940.8	-1039.4	2.00	180.00	1402.0	TARGET BHL 1336'FSL, 1326'FWL
6	7148.8	0.00	0.00	6950.0	-940.8	-1039.4	0.00	0.00	1402.0	