

ENSIGN

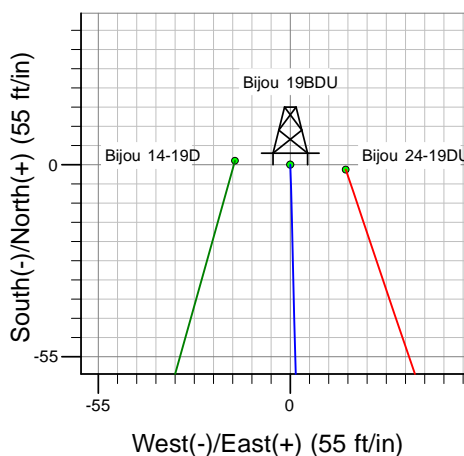
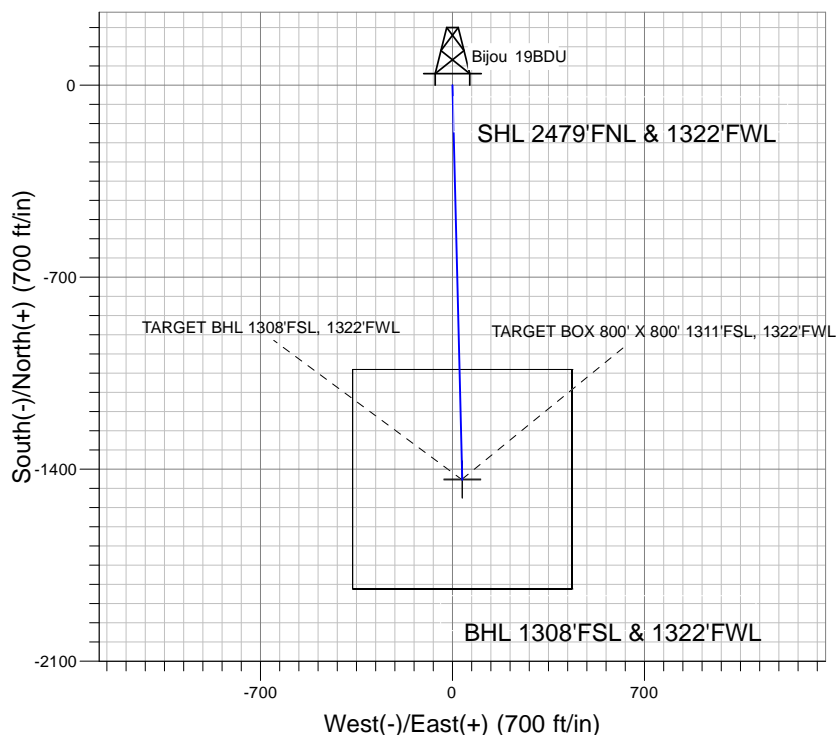
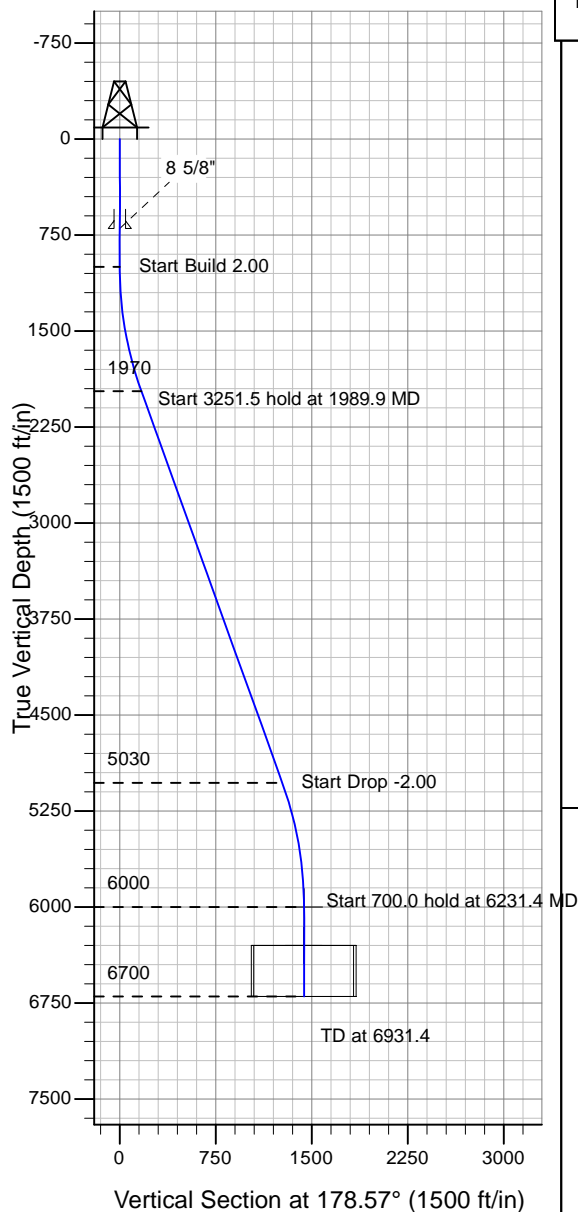
Directional

Well Name: Bijou 19BDU

Surface Location: Bijou Pad Sec.19-T5N-R63W
 North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone
 Ground Elevation: 4554.0

+N/-S+E/-W Northing Easting Latitude Longitude Slot
 0.0 0.0 1384774.95 3282995.26 40° 23' 6.572 N 104° 29' 2.749 W
 Original Well Elev WELL @ 4567.0ft (Original Well Elev)

PETROLEUM DEVELOPMENT CORP Weld County CO



Bijou Pad Sec.19-T5N-R63W
 Bijou 19BDU
 Plan #1 (3-25-10)
 13:16, March 25 2010



Azimuths to True North
 Magnetic North: 9.09°
 Magnetic Field
 Strength: 53491.6snT
 Dip Angle: 67.20°
 Date: 6/5/2008
 Model: IGRF200510

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
TARGET BHL 1308'FSL, 1322'FWL	6000.0	-1439.6	35.9	40° 22' 52.347 N	104° 29' 2.285 W	Point
TARGET BOX 800' X 800' 1311'FSL, 1322'FWL	6300.0	-1436.6	35.9	40° 22' 52.376 N	104° 29' 2.285 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	1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0	
3	1989.9	19.80	178.57	1970.3	-169.3	4.2	2.00	178.57	169.3	
4	5241.4	19.80	178.57	5029.7	-1270.3	31.7	0.00	0.00	1270.7	
5	6231.4	0.00	0.00	6000.0	-1439.6	35.9	2.00	180.00	1440.0	TARGET BHL 1308'FSL, 1322'FWL
6	6931.4	0.00	0.00	6700.0	-1439.6	35.9	0.00	0.00	1440.0	