

ENSIGN

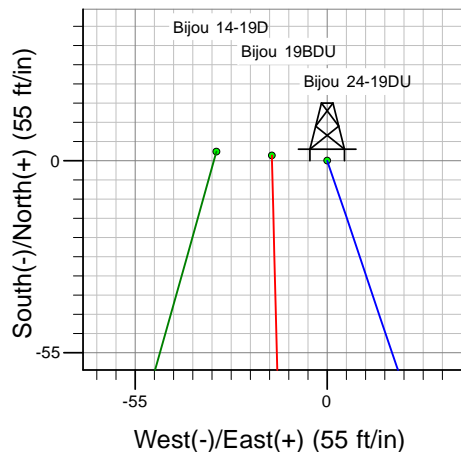
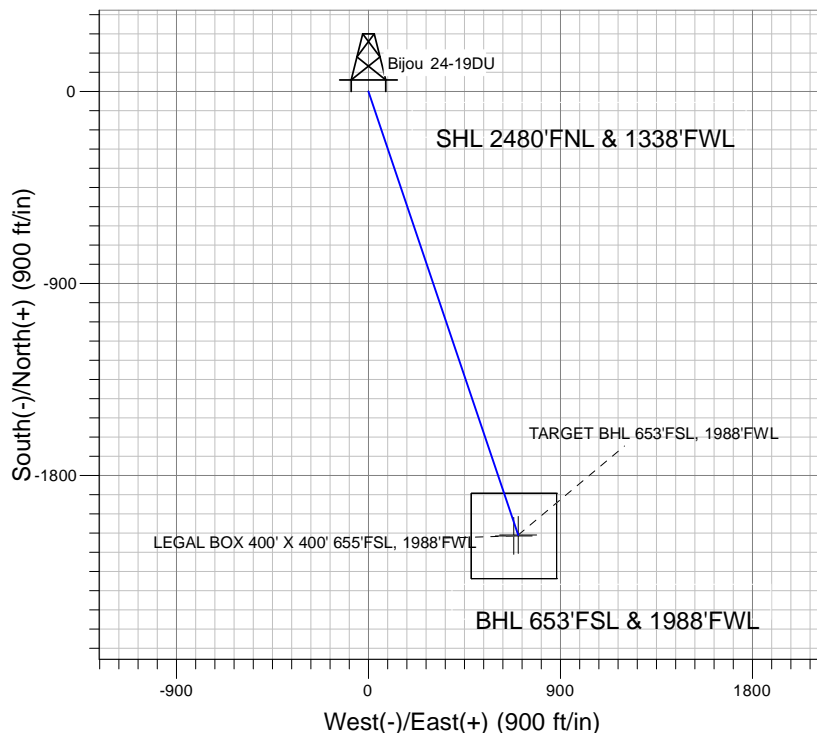
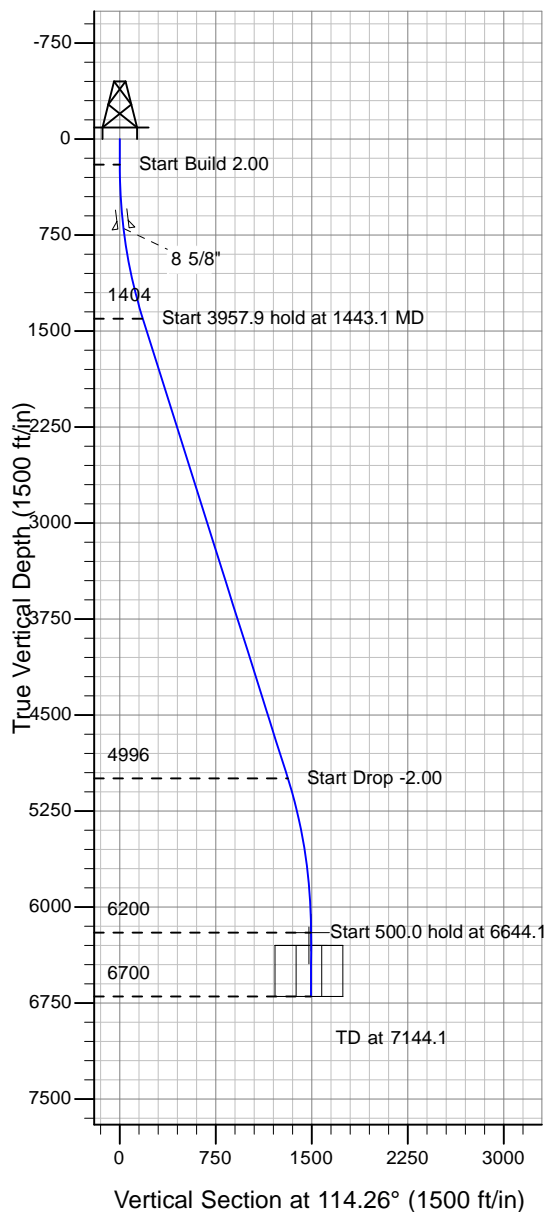
Directional

Well Name: Bijou 24-19DU

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 1384773.67 3283011.15 40° 23' 6.558 N 104° 29' 2.544 W
 Original Well Elev WELL @ 4567.0ft (Original Well Elev)

PETROLEUM DEVELOPMENT CORP Weld County CO



Bijou Pad Sec.19-T5N-R63W
 Bijou 24-19DU
 Plan #3 (3-25-10)
 13:53, March 25 2010



Azimuths to True North
 Magnetic North: 8.87°

Magnetic Field
 Strength: 53328.4nT
 Dip Angle: 67.14°
 Date: 12/31/2009
 Model: IGRF200510

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
TARGET BHL 653'FSL, 1988'FWL	6200.0	-2079.6	702.3	40° 22' 46.008 N	104° 28' 53.469 W	Point
LEGAL BOX 400' X 400' 655'FSL, 1988'FWL	6300.0	-2084.3	682.1	40° 22' 45.961 N	104° 28' 53.730 W	Rectangle (Sides: L400.0 W400.0)

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	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	1443.1	24.86	161.34	1404.4	-251.5	84.9	2.00	161.34	180.8	
4	5401.0	24.86	161.34	4995.6	-1828.1	617.3	0.00	0.00	1314.1	
5	6644.1	0.00	0.00	6200.0	-2079.6	702.3	2.00	180.00	1494.9	TARGET BHL 653'FSL, 1988'FWL
6	7144.1	0.00	0.00	6700.0	-2079.6	702.3	0.00	0.00	1494.9	