

ENSIGN

Directional

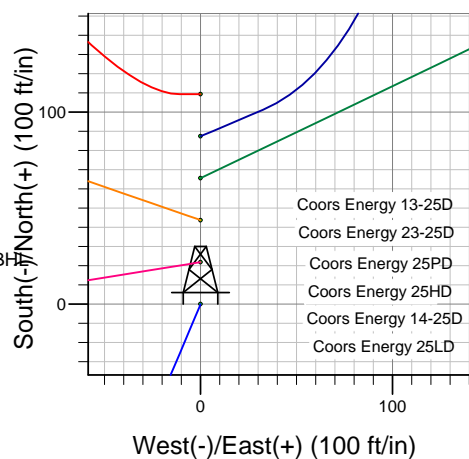
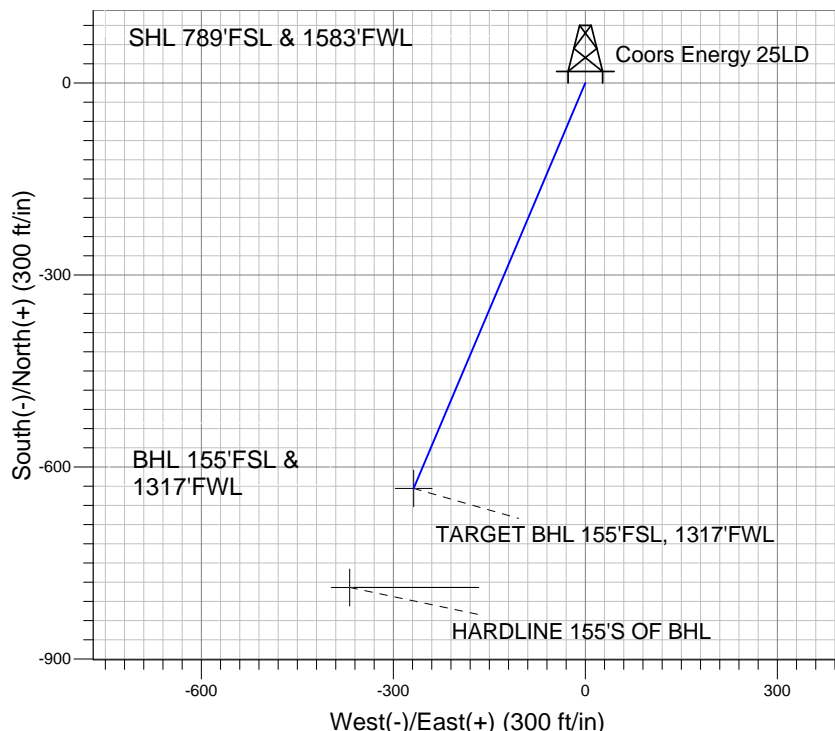
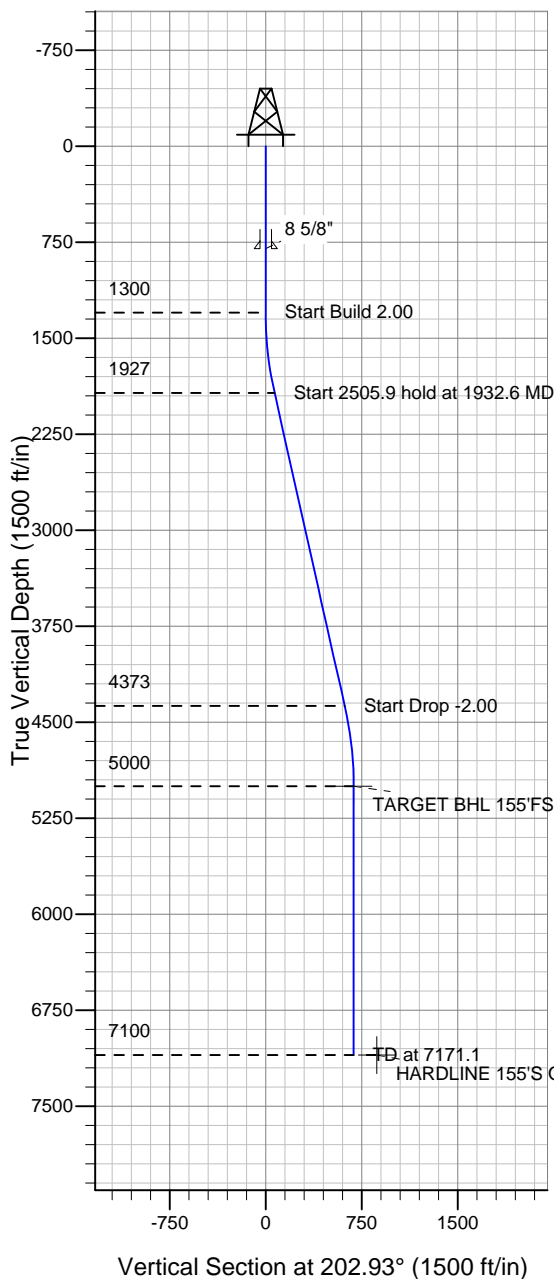
Well Name: Coors Energy 25LD

Surface Location: Coors Energy 13-25D Pad Sec.25-T3N-R64W
 North American Datum 1983 , US State Plane 1983 Colorado Northern Zone
 Ground Elevation: 4815.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1314097.27	3278372.91	40° 11' 28.680 N	104° 30' 12.744 W	

Original Well ElevWELL @ 4828.0ft (Original Well Elev)

PETROLEUM DEVELOPMENT CORP Weld County CO



Coors Energy 25LD
 Plan #2 (7-26-10)
 12:27, July 29 2010



Azimuths to True North
 Magnetic North: 8.84°
 Magnetic Field
 Strength: 53159.5nT
 Dip Angle: 66.96°
 Date: 6/2/2010
 Model: IGRF2010

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
TARGET BHL 155'FSL, 1317'FWL	5000.0	-633.6	-268.0	40° 11' 22.418 N	104° 30' 16.198 W	Point
HARDLINE 155'S OF BHL	7100.0	-788.6	-368.0	40° 11' 20.887 N	104° 30' 17.486 W	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	1300.0	0.00	0.00	1300.0	0.0	0.0	0.00	0.00	0.0	
3	1927.5	12.65	202.93	1927.5	-64.1	-27.1	2.00	202.93	69.6	
4	4372.5	12.65	202.93	4372.5	-569.6	-240.9	0.00	0.00	618.4	
5	5000.0	0.00	0.00	5000.0	-633.6	-268.0	2.00	180.00	688.0	TARGET BHL 155'FSL, 1317'FWL
6	7100.0	0.00	0.00	7100.0	-633.6	-268.0	0.00	0.00	688.0	