

ENSIGN

Directional

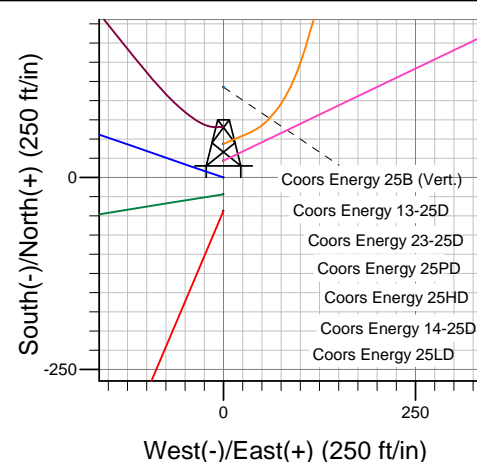
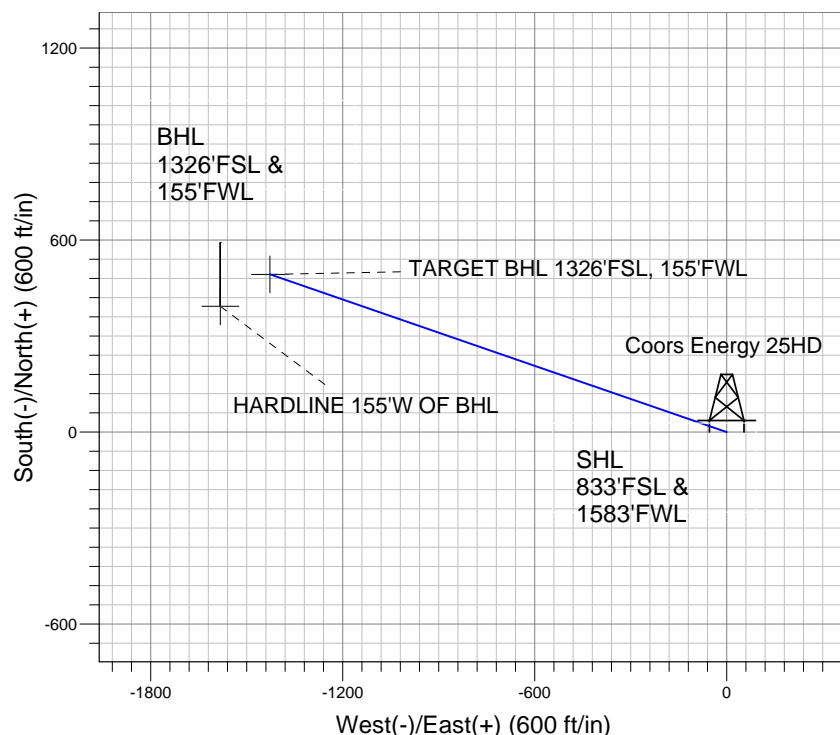
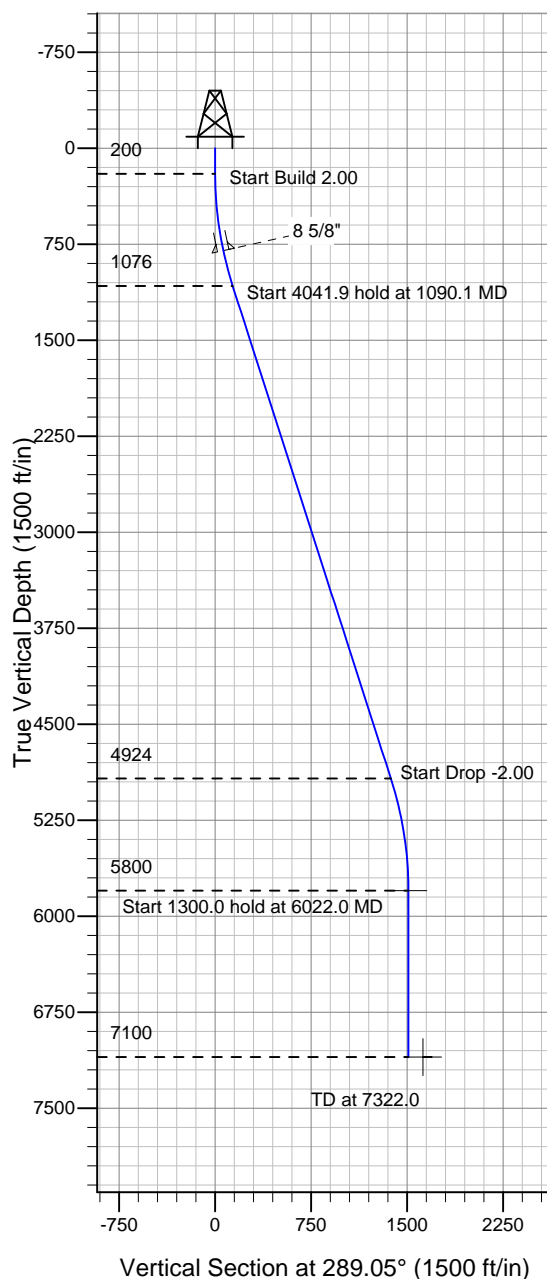
Well Name: Coors Energy 25HD

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	1314140.99	3278372.42	40° 11' 29.112 N	104° 30' 12.744 W	
Original Well Elev WELL @ 4828.0ft (Original Well Elev)						

PETROLEUM DEVELOPMENT CORP Weld County CO



Coors Energy 25HD
Plan #4 (8-9-10)
13:14, August 09 2010



Azimuths to True North
Magnetic North: 8.84°
Magnetic Field
Strength: 53159.6snT
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 1326'FSL, 155'FWL	5800.0	492.9	-1427.3	40° 11' 33.982 N	104° 30' 31.136 W	Point
HARDLINE 155'W OF BHL	7100.0	392.9	-1582.3	40° 11' 32.994 N	104° 30' 33.133 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	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	1090.1	17.80	289.05	1075.8	44.8	-129.6	2.00	289.05	137.2	
4	5131.9	17.80	289.05	4924.2	448.1	-1297.7	0.00	0.00	1372.8	
5	6022.0	0.00	0.00	5800.0	492.9	-1427.3	2.00	180.00	1510.0	TARGET BHL 1326'FSL, 155'FWL
6	7322.0	0.00	0.00	7100.0	492.9	-1427.3	0.00	0.00	1510.0	