

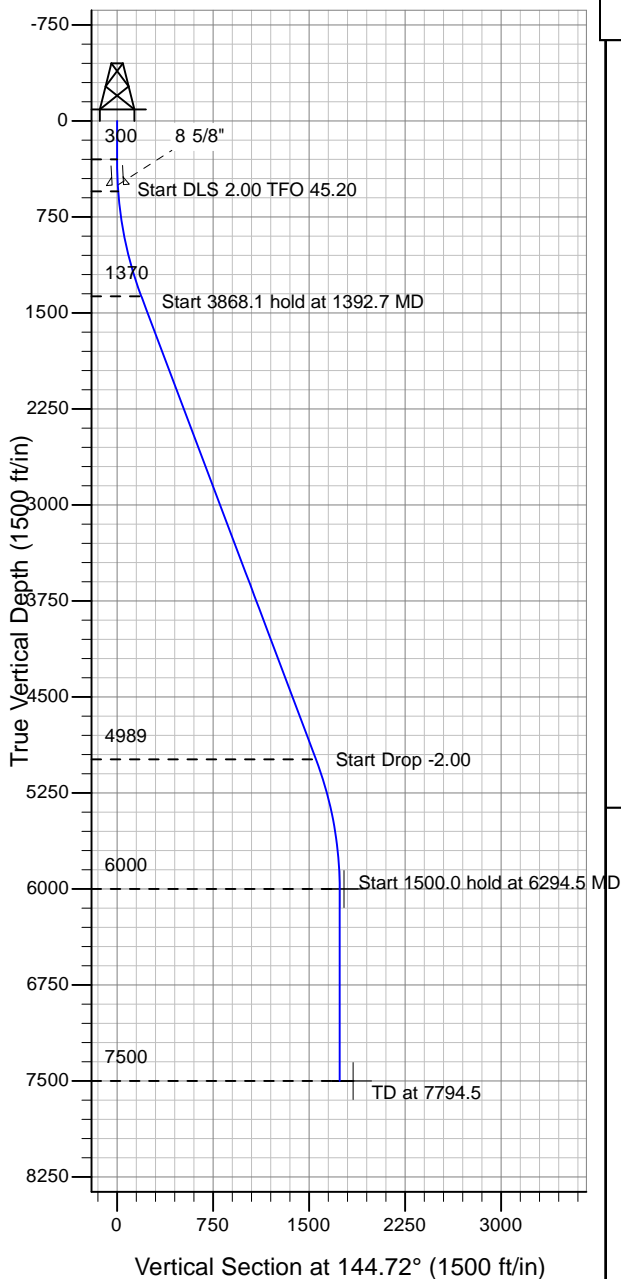
ENSIGN

Directional

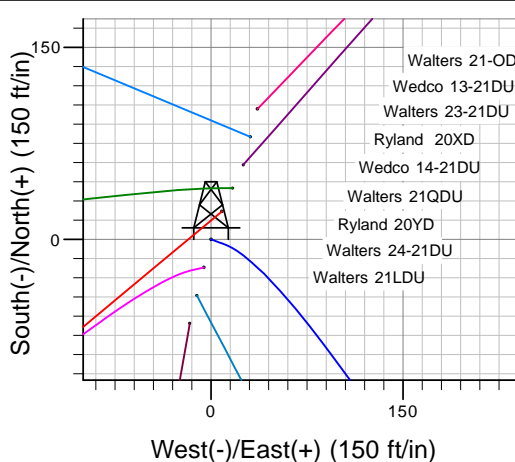
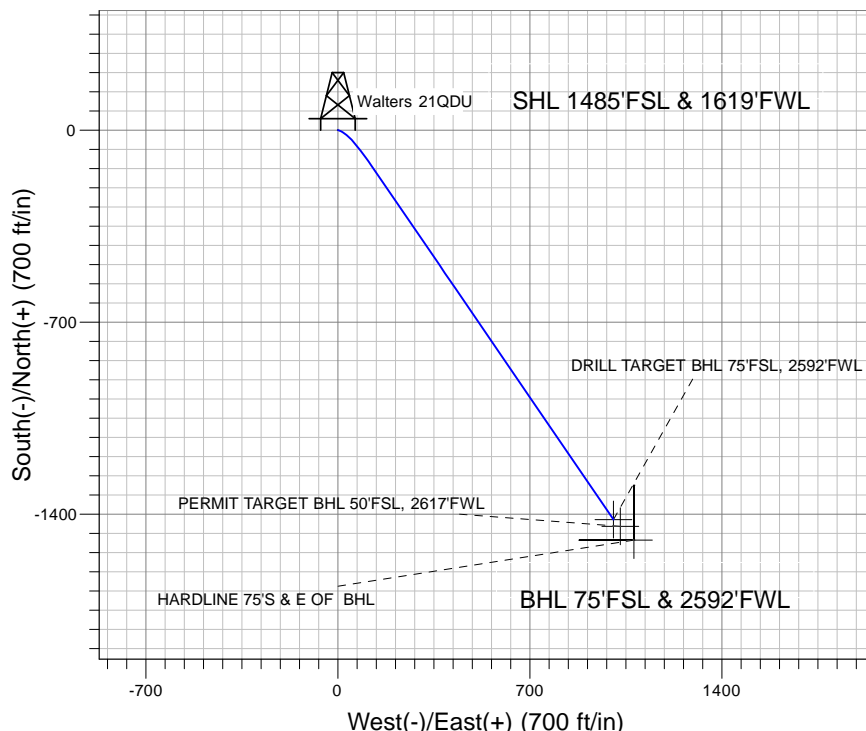
Well Name: Walters 21QDU

Surface Location: Walters/Wedco/Ryland Pad Sec.21-T4N-R67W
 North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone
 Ground Elevation: 4940.0

+N/-S+E/-W Northing Easting Latitude Longitude Slot
 0.0 0.01350956.61 3167455.26 40° 17' 42.792 N 104° 53' 58.812 W
 Original Well Elev WELL @ 4953.0ft (Original Well Elev)



PETROLEUM DEVELOPMENT CORP Weld County CO



Walters/Wedco/Ryland Pad Sec.21-T4N-R67W
 Walters 21QDU
 Plan #1 (6-4-10)
 9:13, June 14 2010



Azimuths to True North
 Magnetic North: 9.06°

Magnetic Field
 Strength: 53166.4snT
 Dip Angle: 66.98°
 Date: 6/14/2010
 Model: IGRF2010

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
DRILL TARGET BHL 75'FSL, 2592'FWL	6000.0	-1419.8	1004.4	40° 17' 28.761 N	104° 53' 45.851 W	Point
PERMIT TARGET BHL 50'FSL, 2617'FWL	6000.0	-1444.8	1029.4	40° 17' 28.515 N	104° 53' 45.528 W	Point
HARDLINE 75'S & E OF BHL	7500.0	-1494.8	1079.4	40° 17' 28.020 N	104° 53' 44.883 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	300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.0	
3	550.0	5.00	110.00	549.7	-3.7	10.2	2.00	110.00	9.0	
4	1392.7	20.67	145.64	1369.6	-140.1	129.6	2.00	45.20	189.2	
5	5260.8	20.67	145.64	4988.6	-1267.5	900.3	0.00	0.00	1554.7	
6	6294.5	0.00	0.00	6000.0	-1419.8	1004.4	2.00	180.00	1739.2	DRILL TARGET BHL 75'FSL, 2592'FWL
7	7794.5	0.00	0.00	7500.0	-1419.8	1004.4	0.00	0.00	1739.2	