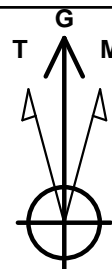
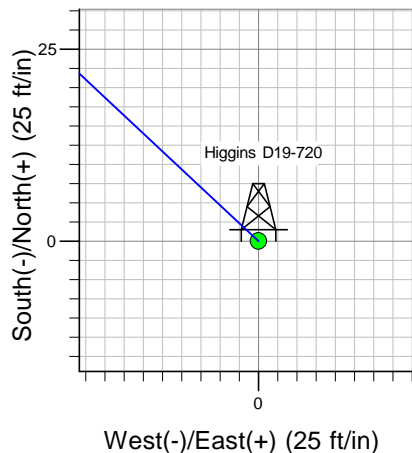
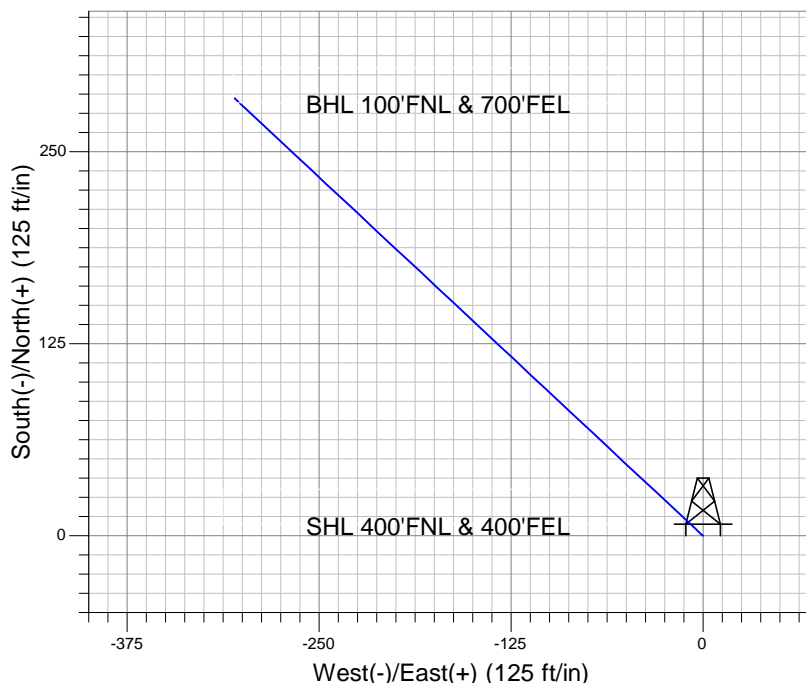
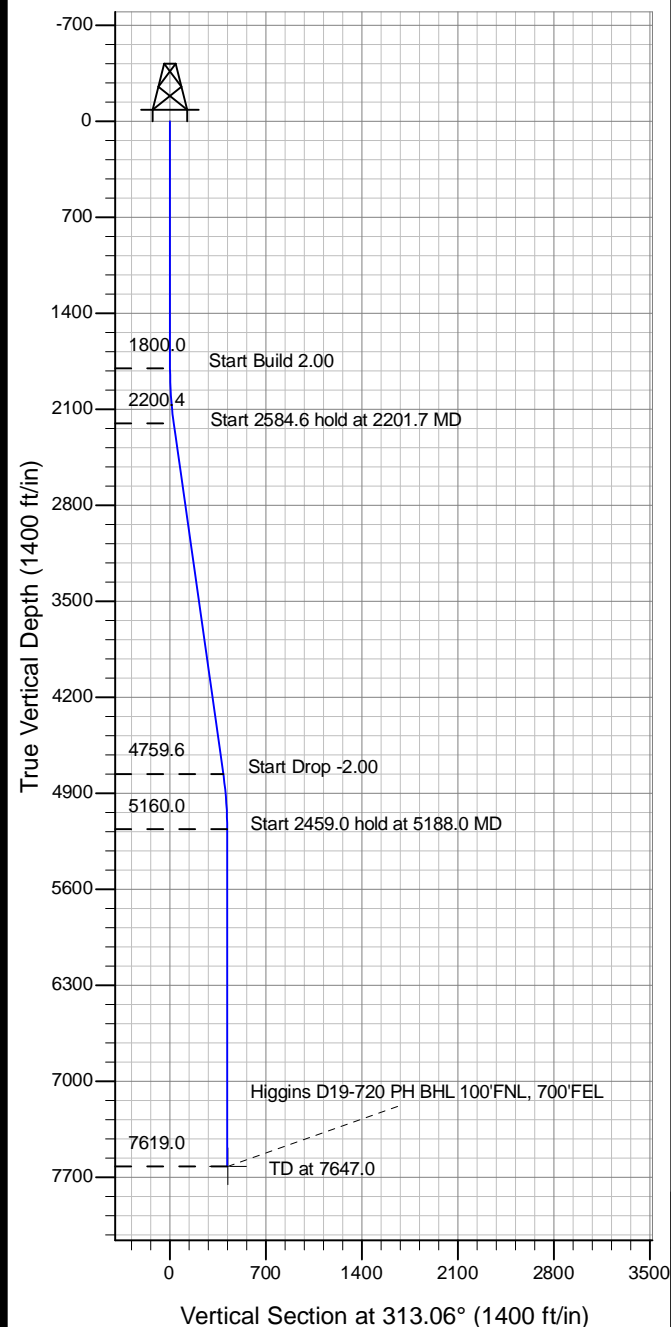


Project: Wattenberg Field  
 Site: D (Sec.19-T03N-R64W) Weld County, CO  
 Well: Higgins D19-720  
 Wellbore: Wellbore #1  
 Design: Pilot Hole APD - Rev 1

## Northern Region Drilling - Working

Geodetic System: US State Plane 1983  
 Datum: North American Datum 1983  
 Ellipsoid: GRS 1980  
 Zone: Colorado Northern Zone  
 System Datum: Mean Sea Level



Azimuths to Grid North  
 True North: -0.59°  
 Magnetic North: 7.69°  
 Magnetic Field  
 Strength: 52755.7snT  
 Dip Angle: 66.84°  
 Date: 7/24/2014  
 Model: IGRF200510

Created by: Shailey Jewell

Date: 14:48, July 24 2014

Approved by:

Date:

Well Details: Higgins D19-720

Ground Level: 4772.0  
 Northing: 1323192.87  
 Easting: 3255277.58  
 Latitude: 40.216950  
 Longitude: -104.585870

### WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
Higgins D19-720 PH BHL 100'FNL, 700'FEL	7619.0	295.6	-301.9	40.217770	-104.586940	

### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1800.0	0.00	0.00	1800.0	0.0	0.0	0.00	0.00	0.0	
3	2201.7	8.03	313.06	2200.4	19.2	-20.5	2.00	313.06	28.1	
4	4786.3	8.03	313.06	4759.6	265.8	-284.5	0.00	0.00	389.3	
5	5188.0	0.00	0.00	5160.0	285.0	-305.0	2.00	180.00	417.4	
6	7647.0	0.00	0.00	7619.0	285.0	-305.0	0.00	0.00	417.4	Higgins D19-720 PH BHL 100'FNL, 700'FEL