

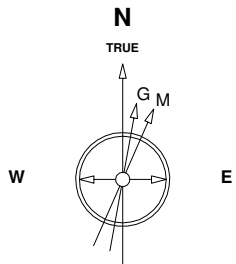
# Great Western Operating Company, LLC

**Location** Colorado  
**Field** Wattenburg  
**Installation** Tower

**Slot** Slot N11 - Tower LD 19-142HC  
**Well** Tower LD 19-142HC  
**Wellbore** Tower LD 19-142HC (PWB)

Created by admin  
Date plotted 15-May-2017

Plot reference is Tower LD 19-142HC (PWB).  
Ref wellpath is Tower LD 19-142HC (PWP#1).  
Coordinates are in Feet reference Slot N11 - Tower LD 19-142HC.  
True Vertical Depths are reference Rig Datum.  
Measured Depths are reference Rig Datum.  
Rig Datum: Planned Datum #1  
Rig Datum to Mean Sea Level: 5259.60 ft.  
Plot North is aligned to TRUE North.



Scale 1 cm = 400 ft

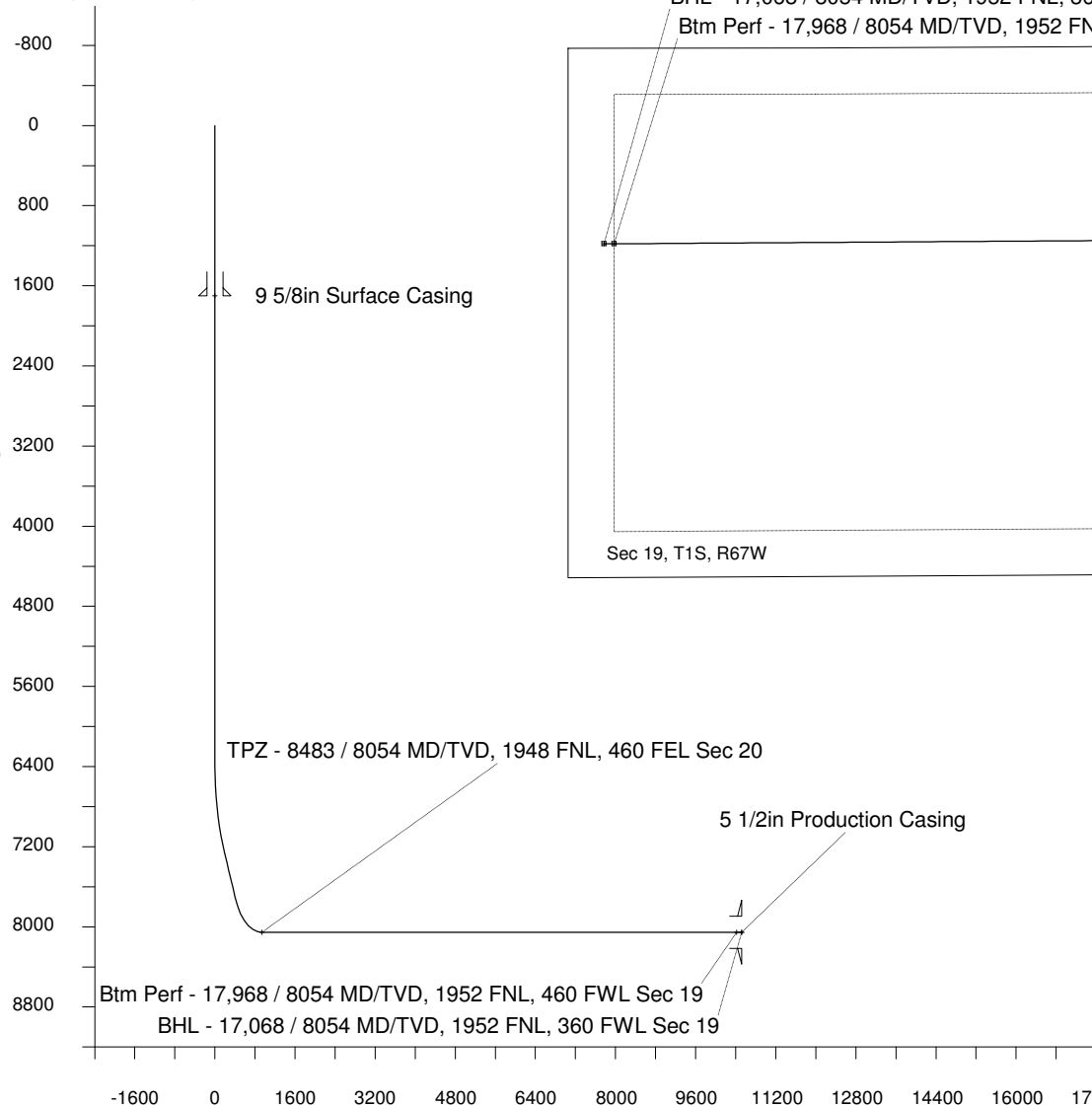
East (Feet) ->

-13600 -12800 -12000 -11200 -10400 -9600 -8800 -8000 -7200 -6400 -5600 -4800 -4000 -3200 -2400 -1600 -800 0 800 1600

10-May-2017  
IGRF Model [1900.0-2020.0] Dip: 66.48 deg Field: 52154.2 nT  
Lat: N39 57 11.0916 Long: W104 54 7.2792 Elev: 5239.60 ft  
Magnetic North is 8.26 deg East of TRUE North  
To correct azimuth from Magnetic to TRUE add 8.26 deg

Scale 1 cm = 400 ft

<- True Vertical Depth (Feet)



Scale 1 cm = 800 ft

Vertical Section (Feet) ->

Azimuth 267.92 with reference 0.00 N, 0.00 E from Slot N11 - Tower LD 19-142HC

TPZ - 8483 / 8054 MD/TVD, 1948 FNL, 460 FEL Sec 20

BHL - 17,068 / 8054 MD/TVD, 1952 FNL, 360 FWL Sec 19

Btm Perf - 17,968 / 8054 MD/TVD, 1952 FNL, 460 FWL Sec 19

2400

1600

800

0

-800

-1600

-2400

-3200

-4000

-4800

-5600

<- North(Feet)

Scale 1 cm = 400 ft

## WELL PROFILE DATA

| Point                   | MD       | Inc   | Azi    | TVD     | North    | East       | deg/100ft | V. Sect  |
|-------------------------|----------|-------|--------|---------|----------|------------|-----------|----------|
| Tie on                  | 0.00     | 0.00  | 0.00   | 0.00    | S 0.00   | W 0.00     |           | -0.00    |
| KOP                     | 6380.00  | 0.00  | 240.59 | 6380.00 | S 0.00   | W 0.00     | 0.00      | -0.00    |
| End of Build            | 7327.48  | 28.42 | 240.59 | 7289.09 | S 113.04 | W 200.58   | 9.84      | 204.54   |
| End of Hold             | 7829.38  | 28.42 | 240.59 | 7730.48 | S 230.34 | W 408.70   | 0.00      | 416.78   |
| Target TPZ - ...Sec 20  | 8483.43  | 90.00 | 269.62 | 8054.00 | S 318.73 | W 929.11   | 32.81     | 940.04   |
| Target Btm Pe...Sec 19  | 17967.63 | 90.00 | 269.62 | 8054.00 | S 381.05 | W 10413.11 | 0.00      | 10420.08 |
| End of Turn             | 17970.55 | 90.00 | 270.00 | 8054.00 | S 381.06 | W 10416.03 | 42.65     | 10423.00 |
| T.D. & Target BHL... 19 | 18067.63 | 90.00 | 270.00 | 8054.00 | S 381.05 | W 10513.11 | 0.00      | 10520.01 |