



Great Western Operating Company, LLC

Location Colorado
Field Wattenburg
Installation Tower

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

Created by admin
Date plotted 15-Feb-2019

Plot reference is Tower LD 19-142HC (PWB).
Ref wellpath is Tower LD 19-142HC (PWP#1).
Coordinates are in Feet reference 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) ->

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

<- True Vertical Depth (Feet)

Scale 1 cm = 800 ft

BHL - 18,085 / 8054 MD/TVD, 1952 FNL, 370 FWL Sec 19
Btm Perf - 17,985 / 8054 MD/TVD, 1952 FNL, 470 FWL Sec 19

TPZ - 8511 / 8054 MD/TVD, 1948 FNL, 460 FEL Sec 20

Sec 19, T1S, R67W

Sec 20, T1S, R67W

Sec 21, T1S, R67W

9 5/8in Surface Casing

TPZ - 8511 / 8054 MD/TVD, 1948 FNL, 460 FEL Sec 20

5 1/2in Production Casing

Btm Perf - 17,985 / 8054 MD/TVD, 1952 FNL, 470 FWL Sec 19
BHL - 18,085 / 8054 MD/TVD, 1952 FNL, 370 FWL Sec 19

Scale 1 cm = 800 ft

Vertical Section (Feet) ->

Azimuth 267.38 with reference 0.00 N, 0.00 E from N11 - Tower LD 19-142HC

<- 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	6294.60	0.00	234.75	6294.60	S 0.00	W 0.00	0.00	-0.00
End of Build	7294.70	30.00	234.75	7249.62	S 147.69	W 209.01	3.00	215.53
End of Hold	7853.05	30.00	234.75	7733.14	S 308.81	W 437.02	0.00	450.66
Target TPZ - ...Sec 20	8510.82	90.00	269.62	8054.00	S 418.18	W 958.83	10.00	976.91
Target Btm Pe...Sec 19	17984.94	90.00	269.62	8054.00	S 480.85	W 10432.74	0.00	10443.81
End of Turn	17986.91	90.00	269.82	8054.00	S 480.86	W 10434.70	10.00	10445.78
T.D. & Target BHL... 19	18085.03	90.00	269.82	8054.00	S 481.17	W 10532.83	0.00	10543.81