



Feb-13-2019
EMM-2015 [2000.0-2020.0] Dip: 66.26 deg Field: 51918.8 nT
Lat: N39 57 12.0780 Long: W104 54 6.9048 Elev: 5239.60 ft
Magnetic North is 8.14 deg East of TRUE North
To correct azimuth from Magnetic to TRUE add 8.14 deg

Great Western Operating Company, LLC

Location Colorado
Field Wattenburg
Installation Tower
Slot N05 - Tower LD 19-059HNX
Well Tower LD 19-059HNX
Wellbore Tower LD 19-059HNX (PWB)

Created by admin
Date plotted 14-Feb-2019
Plot reference is Tower LD 19-059HNX (PWB).
Ref wellpath is Tower LD 19-059HNX (PWP#1).
Coordinates are in Feet reference N05 - Tower LD 19-059HNX.
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

BHL - 17,748 / 7654 MD/TVD, 761 FNL, 370 FWL Sec 19

Btm Perf - 17,648 / 7654 MD/TVD, 761 FNL, 470 FWL Sec 19

TPZ - 8180 / 7654 MD/TVD, 759 FNL, 460 FEL Sec 20

2400

1600

800

0

-800

-1600

-2400

-3200

-4000

-4800

-5600

-6400

<- North(Feet)

Scale 1 cm = 400 ft

9 5/8in Surface Casing

TPZ - 8180 / 7654 MD/TVD, 759 FNL, 460 FEL Sec 20

5 1/2in Production Casing

Btm Perf - 17,648 / 7654 MD/TVD, 761 FNL, 470 FWL Sec 19

BHL - 17,748 / 7654 MD/TVD, 761 FNL, 370 FWL Sec 19

Sec 19, T1S, R67W

Sec 20, T1S, R67W

Sec 21, T1S, R67W

<- True Vertical Depth (Feet)

Scale 1 cm = 800 ft

-6400
-4800
-3200
-1600
0
1600
3200
4800
6400
8000
9600

-3200 -1600 0 1600 3200 4800 6400 8000 9600 11200 12800 14400 16000

Scale 1 cm = 800 ft

Vertical Section (Feet) ->

Azimuth 273.89 with reference 0.00 N, 0.00 E from N05 - Tower LD 19-059HNX

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	5614.00	0.00	331.27	5614.00	S 0.00	W 0.00	0.00	0.00
End of Build	6613.99	30.00	331.27	6568.92	N 224.37	W 122.99	3.00	137.92
End of Hold	7417.19	30.00	331.27	7264.51	N 576.53	W 316.02	0.00	354.40
Target TPZ - ...Sec 20	8179.78	90.00	269.63	7654.00	N 770.84	W 873.84	10.00	924.11
Target Btm Pe...Sec 19	17648.39	90.00	269.63	7654.00	N 710.32	W 10342.25	0.00	10366.61
End of Turn	17650.22	90.00	269.82	7654.00	N 710.31	W 10344.08	10.00	10368.44
T.D. & Target BHL... 19	17748.47	90.00	269.82	7654.00	N 710.00	W 10442.33	0.00	10466.44