

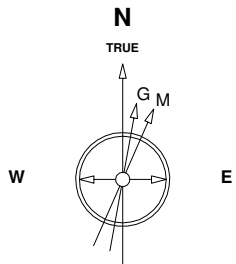
Great Western Operating Company, LLC

Location Colorado
Field Wattenburg
Installation Tower

Slot Slot N06 - Tower LD 19-062HN
Well Tower LD 19-062HN
Wellbore Tower LD 19-062HN (PWB)

Created by admin
Date plotted 15-May-2017

Plot reference is Tower LD 19-062HN (PWB).
Ref wellpath is Tower LD 19-062HN (PWP#1).
Coordinates are in Feet reference Slot N06 - Tower LD 19-062HN.
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

<- True Vertical Depth (Feet)

Scale 1 cm = 400 ft

-800
0
800
1600
2400
3200
4000
4800
5600
6400
7200
8000
8800

9 5/8in Surface Casing

TPZ - 425 / 7901 MD/TVD, 859 FNL, 460 FEL Sec 20

5 1/2in Production Casing

Btm Perf - 17,905 / 7901 MD/TVD, 861 FNL, 460 FWL Sec 19
BHL - 18,005 / 7901 MD/TVD, 861 FNL, 360 FWL Sec 19

-1600 0 1600 3200 4800 6400 8000 9600 11200 12800 14400 16000 17600

Scale 1 cm = 800 ft

Vertical Section (Feet) ->

Azimuth 273.89 with reference 0.00 N, 0.00 E from Slot N06 - Tower LD 19-062HN

TPZ - 425 / 7901 MD/TVD, 859 FNL, 460 FEL Sec 20

BHL - 18,005 / 7901 MD/TVD, 861 FNL, 360 FWL Sec 19

Btm Perf - 17,905 / 7901 MD/TVD, 861 FNL, 460 FWL Sec 19

Sec 19, T1S, R67W

Sec 20, T1S, R67W

Sec 21, T1S, R67W

<- North(Feet)

Scale 1 cm = 400 ft

2400
1600
800
0
-800
-1600
-2400
-3200
-4000
-4800
-5600

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	5876.70	0.00	332.38	5876.70	S 0.00	W 0.00	0.00	0.00
End of Build	6876.70	30.00	332.38	6831.63	N 226.71	W 118.64	9.84	133.76
End of Hold	7657.69	30.00	332.38	7507.99	N 572.69	W 299.69	0.00	337.88
Target TPZ - ...Sec 20	8425.31	90.00	269.63	7901.00	N 770.84	W 858.70	32.81	909.06
Target Btm Pe...Sec 19	17904.61	90.00	269.63	7901.00	N 710.32	W 10337.80	0.00	10362.18
End of Turn	17907.48	90.00	270.01	7901.00	N 710.31	W 10340.67	42.65	10365.04
T.D. & Target BHL... 19	18004.60	90.00	270.01	7901.00	N 710.32	W 10437.80	0.00	10461.94