

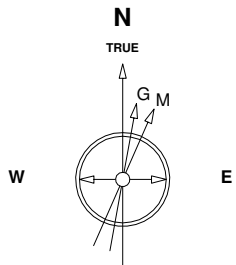
Great Western Operating Company, LLC

Location Colorado
Field Wattenburg
Installation Marcus

Slot Slot E12 - Marcus LD 11-361HN
Well Marcus LD 11-361HN
Wellbore Marcus LD 11-361HN (PWB)

Created by admin
Date plotted 16-Aug-2017

Plot reference is Marcus LD 11-361HN (PWB).
Ref wellpath is Marcus LD 11-361HN (PWP#1).
Coordinates are in Feet reference Slot E12 - Marcus LD 11-361HN.
True Vertical Depths are reference Rig Datum.
Measured Depths are reference Rig Datum.
Rig Datum: Planned Datum #1
Rig Datum to Mean Sea Level: 5058.20 ft.
Plot North is aligned to TRUE North.



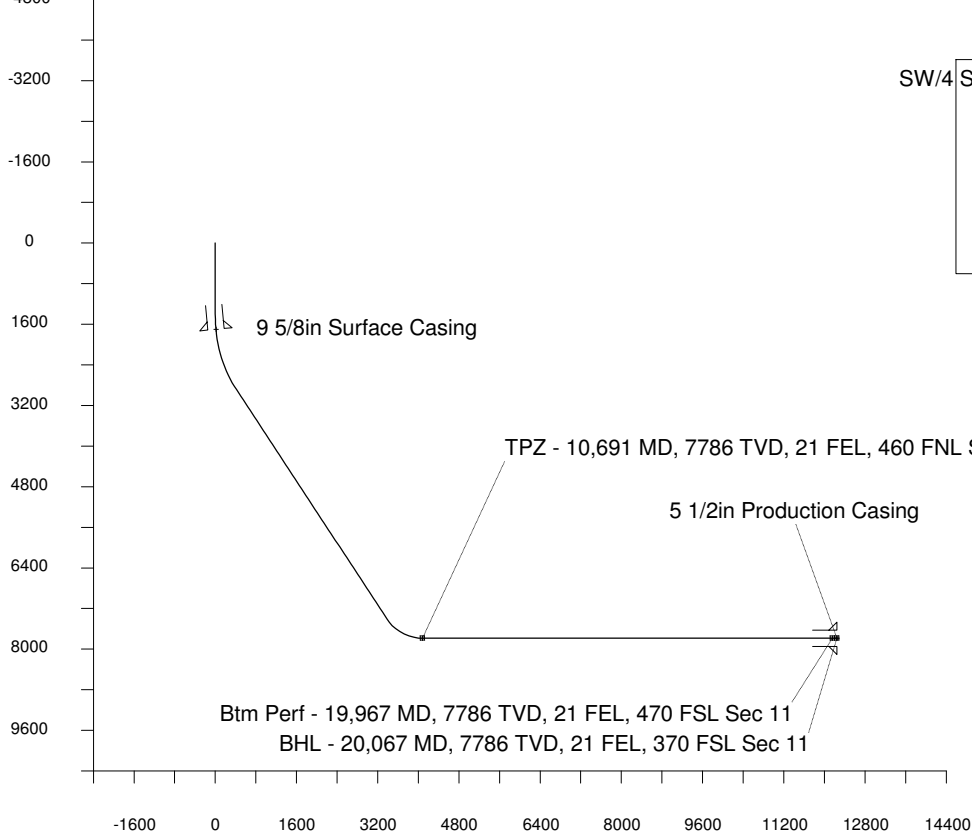
13-Dec-2014
IGRF Model [1900.0-2020.0] Dip: 66.58 deg Field: 52459.7 nT
Lat: N40 0 11.6388 Long: W104 52 6.9096 Elev: 5042.00 ft
Magnetic North is 8.50 deg East of TRUE North
To correct azimuth from Magnetic to TRUE add 8.50 deg

Scale 1 cm = 500 ft

East (Feet) ->

-5000 -4000 -3000 -2000 -1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000

Scale
True Vertical Depth (Feet)



Scale 1 cm = 800 ft

Vertical Section (Feet) ->

Azimuth 150.96 with reference 0.00 N, 0.00 E from Slot E12 - Marcus LD 11-361HN

TPZ - 10,691 MD, 7786 TVD, 21 FEL, 460 FNL Sec 2

SW/4 Sec 34, T1N, R67W

S/2 Sec 35, T1N, R67W

Sec 2, T1S, R67W

Sec 11, T1S, R67W

Btm Perf - 19,967 MD, 7786 TVD, 21 FEL, 470 FSL Sec 11

BHL - 20,067 MD, 7786 TVD, 21 FEL, 370 FSL Sec 11

WELL PROFILE DATA

| Point | MD | Inc | Azi | TVD | North | East | deg/100ft | V. Sect |
|-------------------------|----------|-------|--------|---------|------------|-----------|-----------|----------|
| Tie on | 16.20 | 0.00 | 0.00 | 16.20 | S 0.00 | W 0.00 | | 0.00 |
| KOP | 1400.00 | 0.00 | 97.69 | 1400.00 | S 0.00 | W 0.00 | 0.00 | 0.00 |
| End of Build | 2986.86 | 47.61 | 97.69 | 2810.48 | S 83.23 | E 616.59 | 9.84 | 372.04 |
| End of Hold | 9844.71 | 47.61 | 97.69 | 7434.23 | S 760.74 | E 5635.76 | 0.00 | 3400.53 |
| Target TPZ - ... Sec 2 | 10691.14 | 90.00 | 180.42 | 7786.00 | S 1334.01 | E 6013.75 | 32.81 | 4085.21 |
| Target Btm Pe...Sec 11 | 19966.51 | 90.00 | 180.42 | 7786.00 | S 10609.12 | E 5945.08 | 0.00 | 12161.21 |
| End of Turn | 19969.84 | 90.00 | 179.99 | 7786.00 | S 10612.45 | E 5945.07 | 42.65 | 12164.12 |
| T.D. & Target BHL... 11 | 20066.51 | 90.00 | 179.99 | 7786.00 | S 10709.12 | E 5945.08 | 0.00 | 12248.64 |

North(Feet)

Scale 1 cm = 500 ft