

Great Western Operating Company, LLC

Location Colorado
Field Wattenburg
Installation Ottesen
Slot N22 - Ottesen LE 09-365HC
Well Ottesen LE 09-365HC
Wellbore Ottesen LE 09-365HC (PWB)

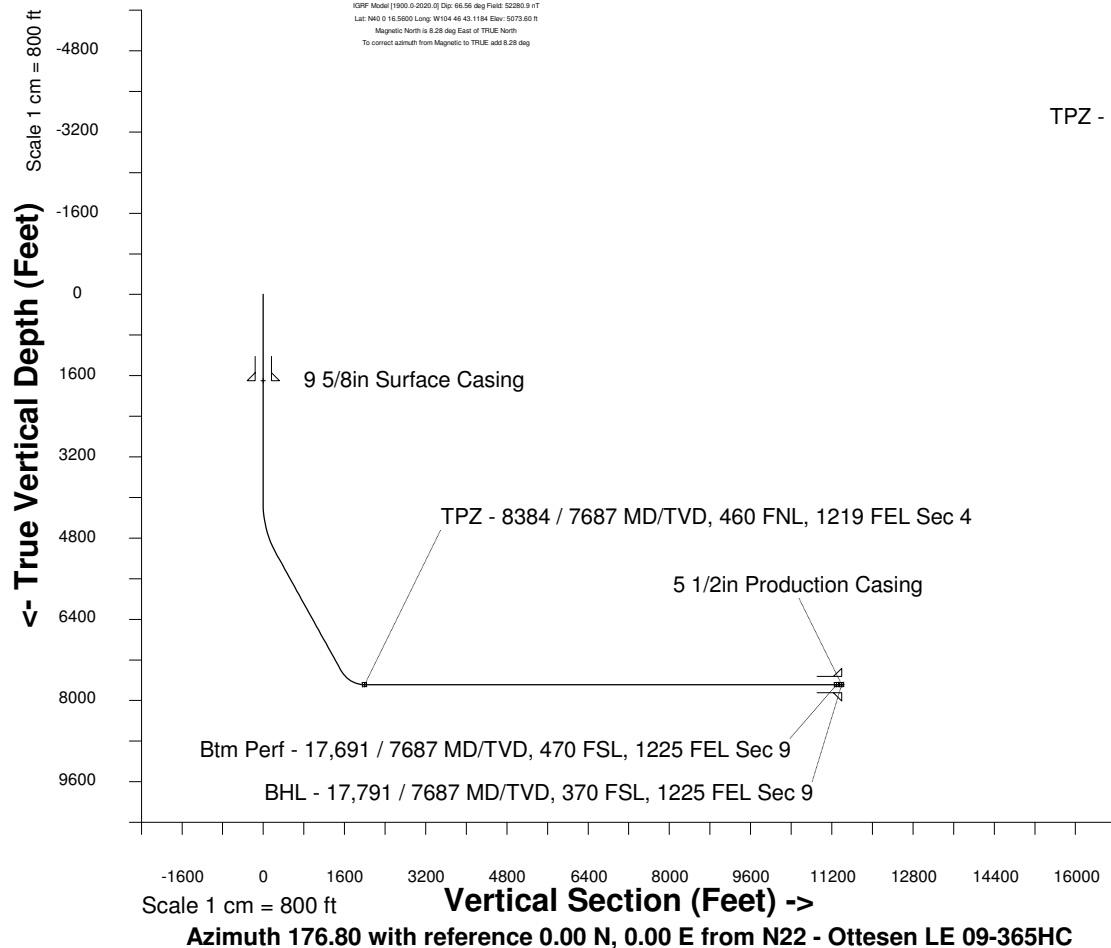
Created by admin
Date plotted 28-Dec-2017
Plot reference is Ottesen LE 09-365HC (PWB).
Ref wellpath is Ottesen LE 09-365HC (PWP#1).
Coordinates are in Feet reference N22 - Ottesen LE 09-365HC.
True Vertical Depths are reference Rig Datum.
Measured Depths are reference Rig Datum.
Rig Datum: Planned Datum #1
Rig Datum to Mean Sea Level: 5093.60 ft.
Plot North is aligned to TRUE North.

Scale 1 cm = 500 ft

East (Feet) ->

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

8-Aug-2016
IGPP Model [1900.0-2020.0] Dip: 66.56 deg Field: 52280.9 nT
Lat: N43 0 16.5600 Long: W104 46 43.1184 Elev: 5073.60 ft
Magnetic North is 8.28 deg East of TRUE North
To correct azimuth from Magnetic to TRUE, add 8.28 deg



S/2 Sec 33, T1N, R66W

TPZ - 8384 / 7687 MD/TVD, 460 FNL, 1219 FEL Sec 4

Sec 04, T1S, R66W

Sec 09, T1S, R66W

Btm Perf - 17,691 / 7687 MD/TVD, 470 FSL, 1225 FEL Sec 9

BHL - 17,791 / 7687 MD/TVD, 370 FSL, 1225 FEL Sec 9

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 | 4134.50 | 0.00 | 160.64 | 4134.50 | S 0.00 | W 0.00 | 0.00 | 0.00 |
| End of Build | 5134.66 | 30.00 | 160.64 | 5089.57 | S 241.48 | E 84.86 | 9.84 | 245.83 |
| End of Hold | 7822.38 | 30.00 | 160.64 | 7417.09 | S 1509.51 | E 530.49 | 0.00 | 1536.75 |
| Target TPZ - ... Sec 4 | 8384.12 | 90.00 | 179.69 | 7687.00 | S 1968.24 | E 583.87 | 36.09 | 1997.74 |
| Target Btm Pe... Sec 9 | 17690.69 | 90.00 | 179.69 | 7687.00 | S 11274.66 | E 634.54 | 0.00 | 11292.50 |
| End of Turn | 17692.25 | 90.00 | 179.52 | 7687.00 | S 11276.22 | E 634.55 | 36.09 | 11294.06 |
| T.D. & Target BHL...c 9 | 17790.87 | 90.00 | 179.52 | 7687.00 | S 11374.84 | E 635.38 | 0.00 | 11392.57 |

<- North(Feet)

Scale 1 cm = 500 ft