



Great Western Operating Company, LLC

Location Colorado
Field Wattenburg
Installation Ottesen
Slot N19 - Ottesen LE 09-368HN
Well Ottesen LE 09-368HN
Wellbore Ottesen LE 09-368HN (PWB)

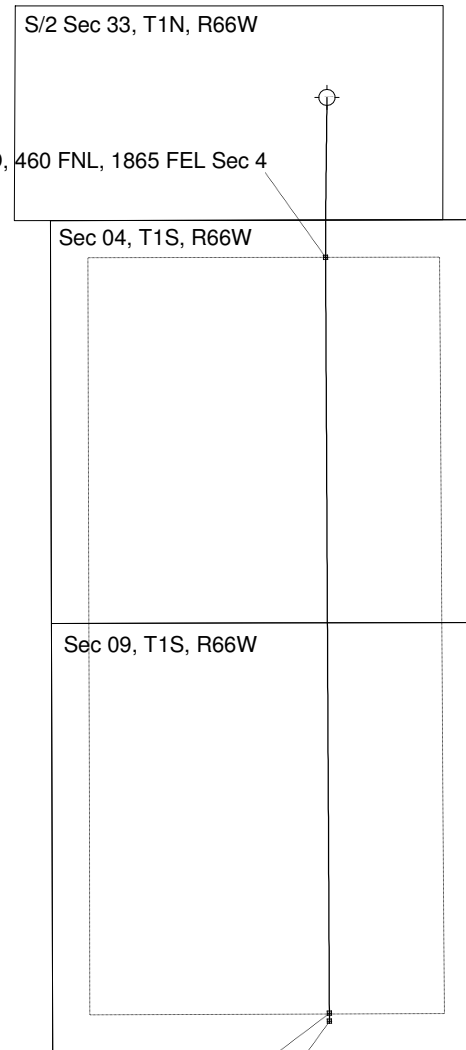
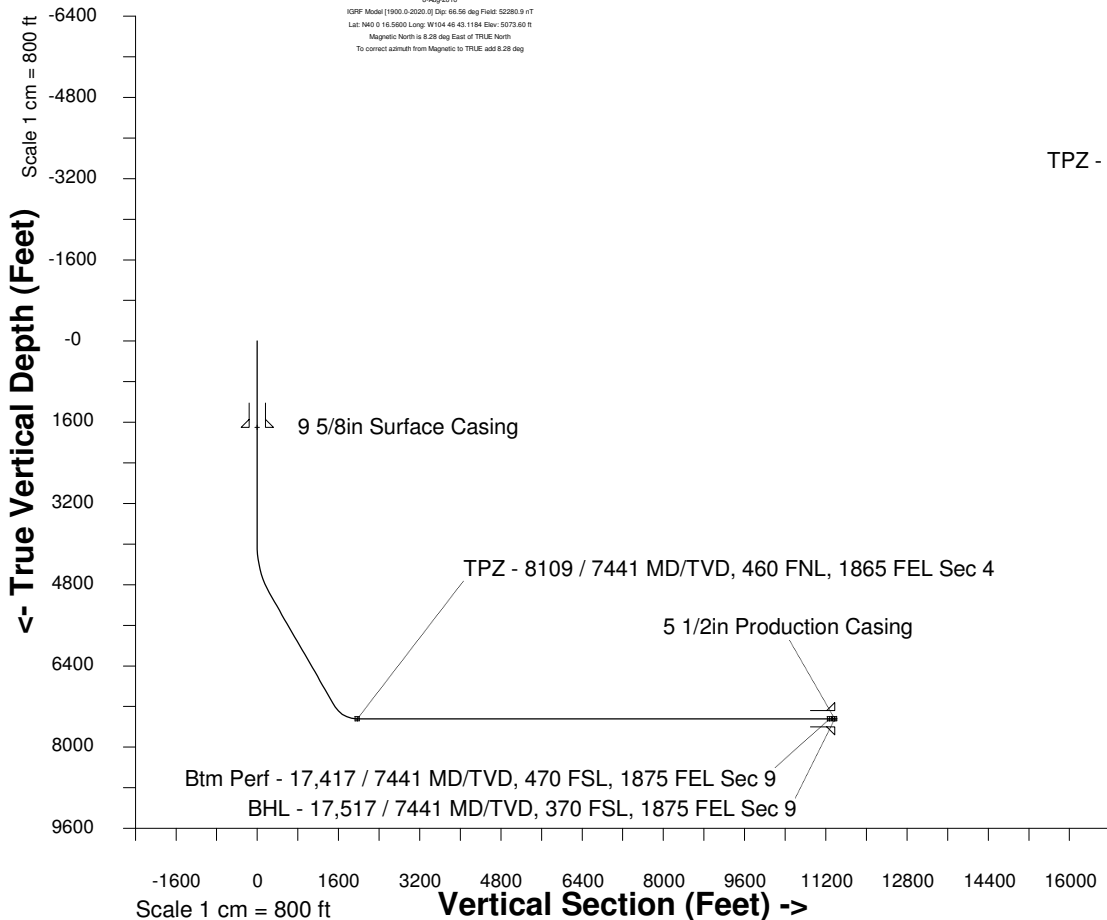
Created by admin
Date plotted 28-Dec-2017
Plot reference is Ottesen LE 09-368HN (PWB).
Ref wellpath is Ottesen LE 09-368HN (PWP#1).
Coordinates are in Feet reference N19 - Ottesen LE 09-368HN.
True Vertical Depths are reference Rig Datum.
Measured Depths are reference Rig Datum.
Rig Datum: Planned Datum #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: N40.0 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



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	4039.00	0.00	180.64	4039.00	S 0.00	W 0.00	0.00	0.00
End of Build	5039.00	30.00	180.64	4993.93	S 255.86	W 2.85	9.84	255.85
End of Hold	7563.88	30.00	180.64	7180.54	S 1518.22	W 16.93	0.00	1518.17
Target TPZ - ... Sec 4	8109.38	90.00	179.71	7441.00	S 1969.34	W 17.09	36.09	1969.28
Target Btm Pe... Sec 9	17417.02	90.00	179.71	7441.00	S 11276.86	E 29.71	0.00	11276.90
End of Turn	17417.31	90.00	179.68	7441.00	S 11277.15	E 29.71	36.09	11277.19
T.D. & Target BHL...c 9	17517.20	90.00	179.68	7441.00	S 11377.03	E 30.27	0.00	11377.08

Btm Perf - 17,417 / 7441 MD/TVD, 470 FSL, 1875 FEL Sec 9

BHL - 17,517 / 7441 MD/TVD, 370 FSL, 1875 FEL Sec 9