



Great Western Operating Company, LLC

Location Colorado
Field Wattenburg
Installation Ottesen
Slot N13 - Ottesen LE 09-372HN
Well Ottesen LE 09-372HN
Wellbore Ottesen LE 09-372HN (PWB)

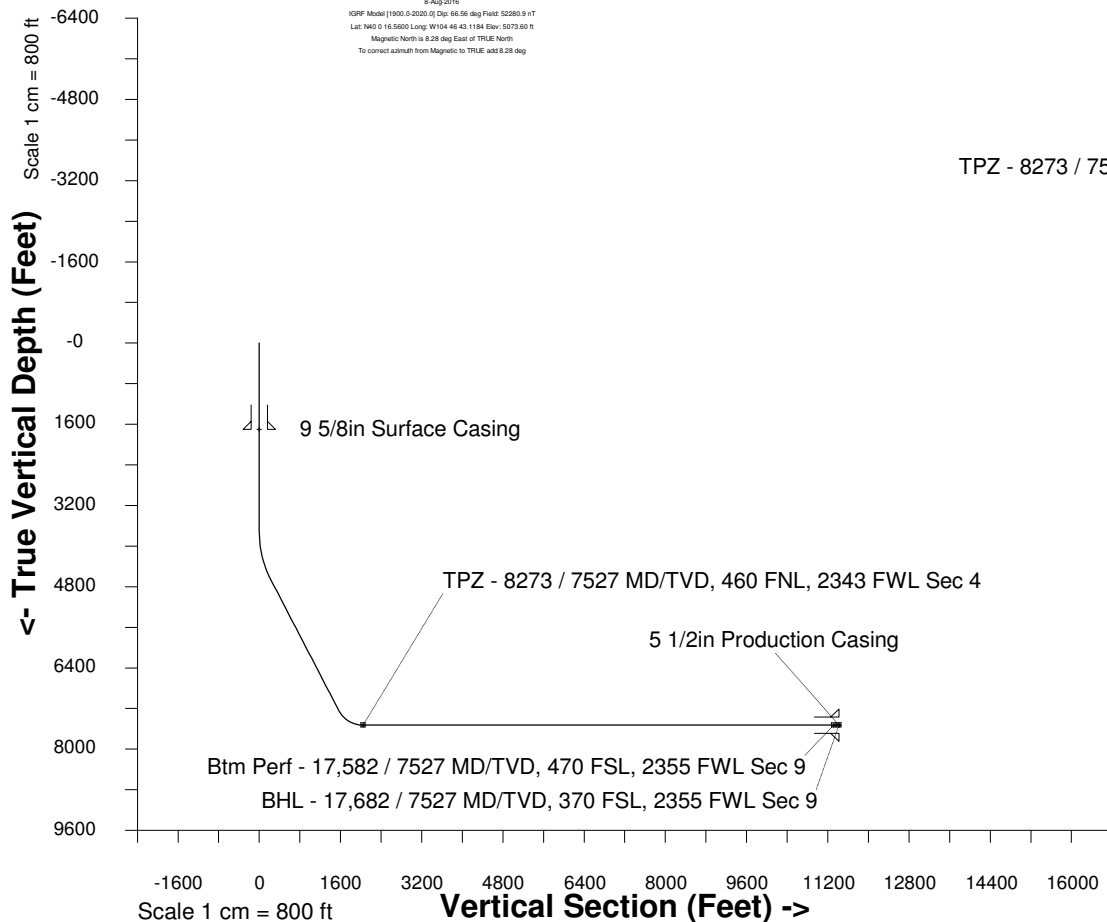
Created by admin
Date plotted 28-Dec-2017
Plot reference is Ottesen LE 09-372HN (PWB).
Ref wellpath is Ottesen LE 09-372HN (PWP#1).
Coordinates are in Feet reference N13 - Ottesen LE 09-372HN.
True Vertical Depths are reference Rig Datum.
Measured Depths are reference Rig Datum.
Rig Datum: Planned Datum #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



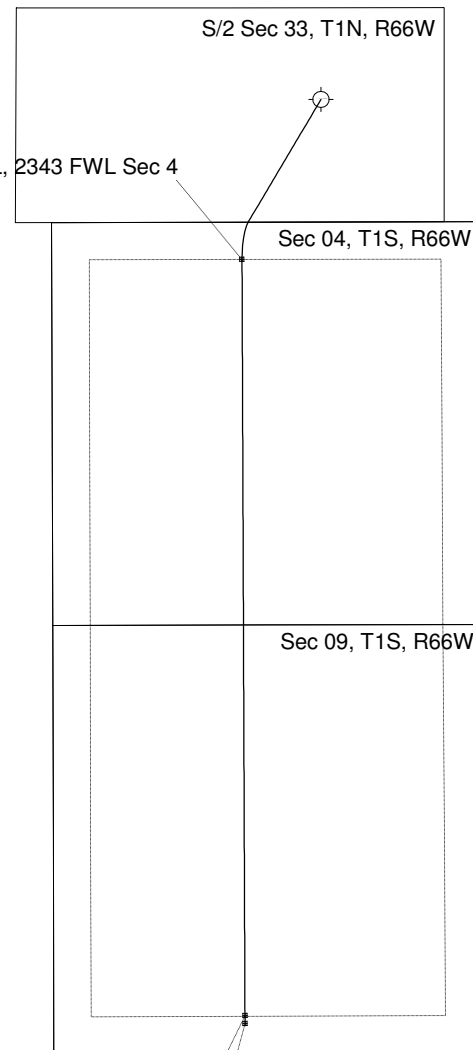
Azimuth 184.70 with reference 0.00 N, 0.00 E from N13 - Ottesen LE 09-372HN

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	3709.00	0.00	210.66	3709.00	S 0.00	W 0.00	0.00	-0.00
End of Build	4708.97	30.00	210.66	4663.90	S 220.08	W 130.48	9.84	230.04
End of Hold	7685.73	30.00	210.66	7241.88	S 1500.33	W 889.52	0.00	1568.18
Target TPZ - ... Sec 4	8272.92	90.00	179.78	7527.00	S 1971.14	W 972.18	36.09	2044.19
Target Btm Pe... Sec 9	17581.61	90.00	179.78	7527.00	S 11279.75	W 935.83	0.00	11318.50
End of Turn	17583.68	90.00	180.00	7527.00	S 11281.83	W 935.82	36.09	11320.57
T.D. & Target BHL...c 9	17681.79	90.00	180.00	7527.00	S 11379.93	W 935.83	0.00	11418.35

Btm Perf - 17,582 / 7527 MD/TVD, 470 FSL, 2355 FWL Sec 9

BHL - 17,682 / 7527 MD/TVD, 370 FSL, 2355 FWL Sec 9



<- North(Feet)

Scale 1 cm = 500 ft