

Great Western Operating Company, LLC

Location Colorado
Field Wattenburg
Installation Ottesen
Slot N16 - Ottesen LE 09-369HN
Well Ottesen LE 09-369HN
Wellbore Ottesen LE 09-369HN (PWB)

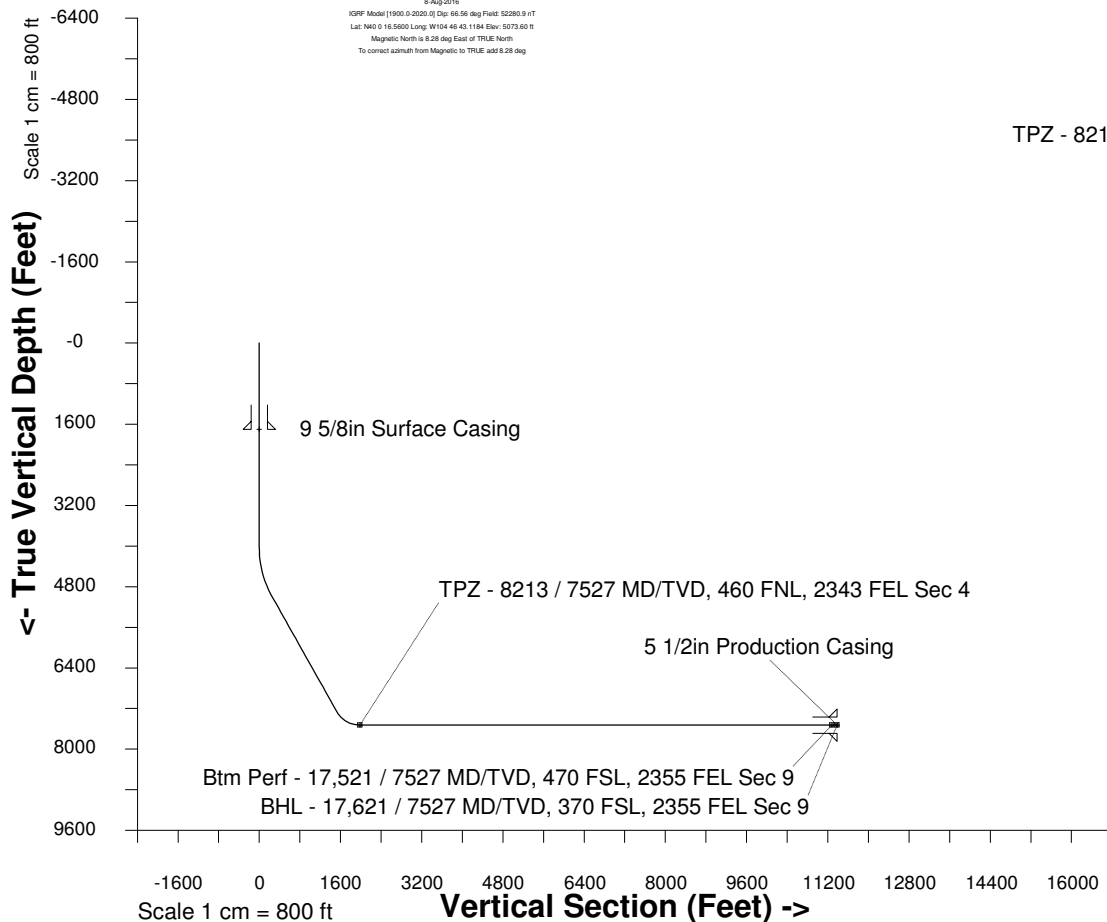
Created by admin
Date plotted 28-Dec-2017
Plot reference is Ottesen LE 09-369HN (PWB).
Ref wellpath is Ottesen LE 09-369HN (PWP#1).
Coordinates are in Feet reference N16 - Ottesen LE 09-369HN.
True Vertical Depths are reference Rig Datum.
Measured Depths are reference Rig Datum.
Rig Datum: Planned Datum #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 182.04 with reference 0.00 N, 0.00 E from N16 - Ottesen LE 09-369HN

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	4032.00	0.00	195.22	4032.00	S 0.00	W 0.00	0.00	-0.00
End of Build	5032.06	30.00	195.22	4986.99	S 246.93	W 67.19	9.84	249.16
End of Hold	7657.07	30.00	195.22	7260.26	S 1513.45	W 411.85	0.00	1527.16
Target TPZ - ... Sec 4	8213.38	90.00	179.72	7527.00	S 1970.06	W 450.79	36.09	1984.87
Target Btm Pe... Sec 9	17521.01	90.00	179.72	7527.00	S 11277.58	W 405.55	0.00	11284.87
End of Turn	17523.59	90.00	180.00	7527.00	S 11280.15	W 405.55	36.09	11287.44
T.D. & Target BHL...c 9	17621.19	90.00	180.00	7527.00	S 11377.76	W 405.56	0.00	11384.99

Btm Perf - 17,521 / 7527 MD/TVD, 470 FSL, 2355 FEL Sec 9

BHL - 17,621 / 7527 MD/TVD, 370 FSL, 2355 FEL Sec 9

S/2 Sec 33, T1N, R66W

TPZ - 8213 / 7527 MD/TVD, 460 FNL, 2343 FEL Sec 4

Sec 04, T1S, R66W

Sec 09, T1S, R66W

<- North(Feet)

Scale 1 cm = 500 ft