



Great Western Operating Company, LLC

Location Colorado
Field Wattenburg
Installation Ottesen
Slot N17 - Ottesen LE 09-369HNX
Well Ottesen LE 09-369HNX
Wellbore Ottesen LE 09-369HNX (PWB)

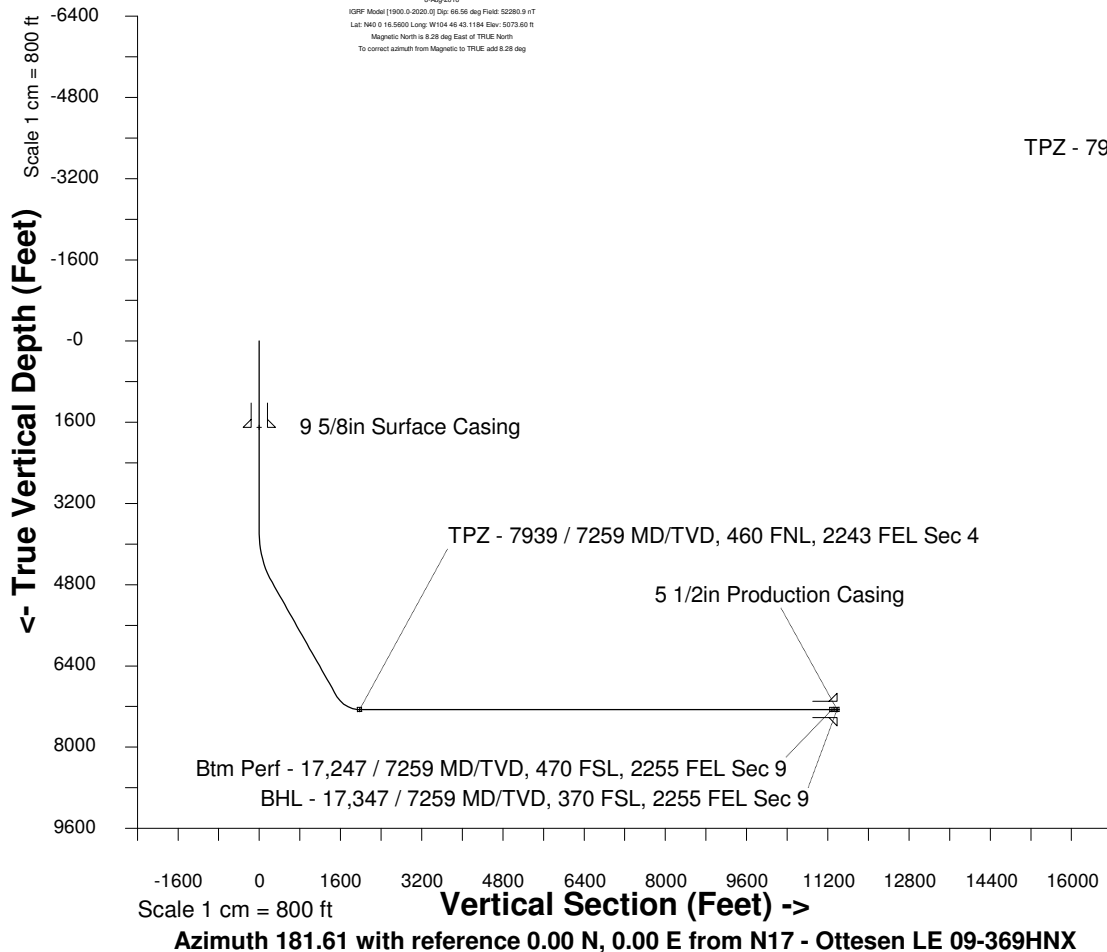
Scale 1 cm = 500 ft

East (Feet) ->

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

Created by admin
Date plotted 28-Dec-2017
Plot reference is Ottesen LE 09-369HNX (PWB).
Ref wellpath is Ottesen LE 09-369HNX (PWP#1).
Coordinates are in Feet reference N17 - Ottesen LE 09-369HNX.
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.

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



S/2 Sec 33, T1N, R66W

TPZ - 7939 / 7259 MD/TVD, 460 FNL, 2243 FEL Sec 4

Sec 04, T1S, R66W

Sec 09, T1S, R66W

Btm Perf - 17,247 / 7259 MD/TVD, 470 FSL, 2255 FEL Sec 9

BHL - 17,347 / 7259 MD/TVD, 370 FSL, 2255 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	3795.00	0.00	192.45	3795.00	S 0.00	W 0.00	0.00	-0.00
End of Build	4795.00	30.00	192.45	4749.93	S 249.86	W 55.15	9.84	251.31
End of Hold	7386.57	30.00	192.45	6994.30	S 1515.18	W 334.44	0.00	1523.99
Target TPZ - ... Sec 4	7939.38	90.00	179.72	7259.00	S 1970.06	W 365.90	36.09	1979.57
Target Btm Pe... Sec 9	17247.01	90.00	179.72	7259.00	S 11277.58	W 320.91	0.00	11282.15
End of Turn	17248.88	90.00	179.52	7259.00	S 11279.45	W 320.90	36.09	11284.01
T.D. & Target BHL...c 9	17347.19	90.00	179.52	7259.00	S 11377.76	W 320.07	0.00	11382.26

North(Feet)

Scale 1 cm = 500 ft