

Great Western Operating Company, LLC

Location Colorado
Field Wattenburg
Installation Ottesen
Slot N18 - Ottesen LE 09-368HC
Well Ottesen LE 09-368HC
Wellbore Ottesen LE 09-368HC (PWB)

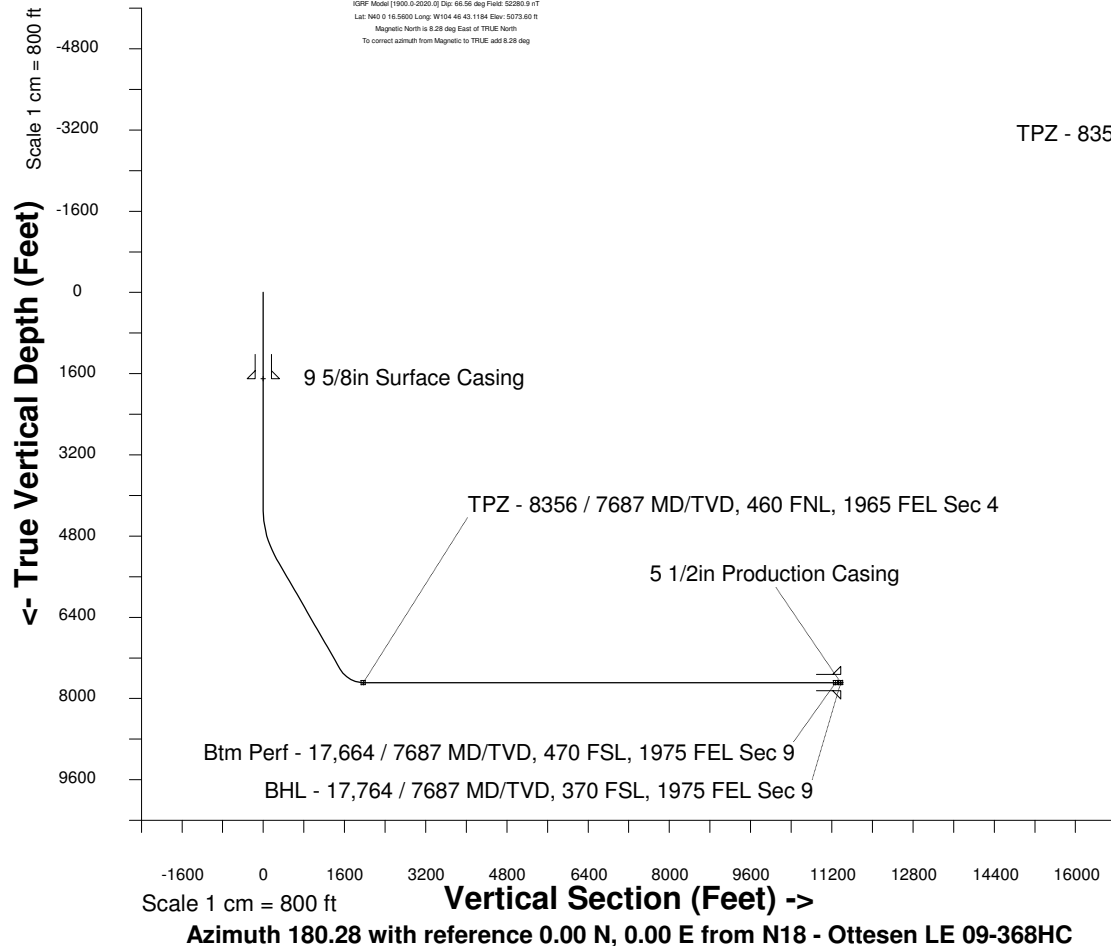
Created by admin
Date plotted 28-Dec-2017
Plot reference is Ottesen LE 09-368HC (PWB).
Ref wellpath is Ottesen LE 09-368HC (PWP#1).
Coordinates are in Feet reference N18 - Ottesen LE 09-368HC.
True Vertical Depths are reference Rig Datum.
Measured Depths are reference Rig Datum.
Rig Datum: Planned Datum #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

9-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 6.28 deg East of TRUE North
To correct azimuth from Magnetic to TRUE, add 6.28 deg



S/2 Sec 33, T1N, R66W

TPZ - 8356 / 7687 MD/TVD, 460 FNL, 1965 FEL Sec 4

Sec 04, T1S, R66W

Sec 09, T1S, R66W

Btm Perf - 17,664 / 7687 MD/TVD, 470 FSL, 1975 FEL Sec 9

BHL - 17,764 / 7687 MD/TVD, 370 FSL, 1975 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	4280.00	0.00	183.57	4280.00	S 0.00	W 0.00	0.00	-0.00
End of Build	5279.89	30.00	183.57	5234.83	S 255.32	W 15.93	9.84	255.39
End of Hold	7810.11	30.00	183.57	7426.14	S 1517.85	W 94.70	0.00	1518.29
Target TPZ - ... Sec 4	8356.28	90.00	179.71	7687.00	S 1969.34	W 102.54	36.09	1969.81
Target Btm Pe... Sec 9	17663.92	90.00	179.71	7687.00	S 11276.86	W 55.21	0.00	11276.99
End of Turn	17666.60	90.00	180.00	7687.00	S 11279.54	W 55.21	36.09	11279.68
T.D. & Target BHL...c 9	17764.10	90.00	180.00	7687.00	S 11377.03	W 55.21	0.00	11377.17

North(Feet)

Scale 1 cm = 500 ft