



Great Western Operating Company, LLC

Location Colorado
Field Wattenburg
Installation Ottesen
Slot Slot N12 - Ottesen LE 09-372HC
Well Ottesen LE 09-372HC
Wellbore Ottesen LE 09-372HC (PWB)

Created by admin
Date plotted 14-Oct-2016

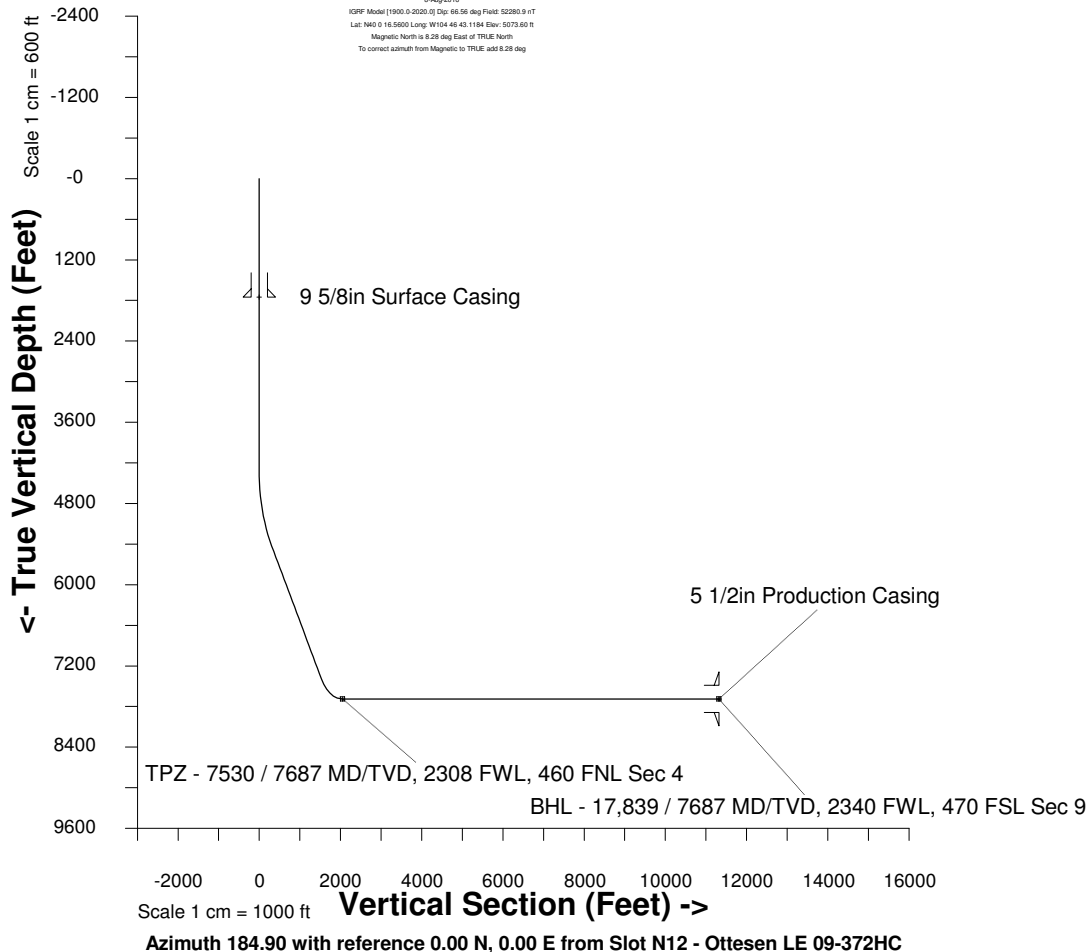
Plot reference is Ottesen LE 09-372HC (PWB).
Ref wellpath is Ottesen LE 09-372HC (PWP#1).
Coordinates are in Feet reference Slot N12 - Ottesen LE 09-372HC.
True Vertical Depths are reference Rig Datum.
Measured Depths are reference Rig Datum.
Rig Datum: Planned Datum #1
Rig Datum to Mean Sea Level: 5093.60 ft.
Plot North is aligned to TRUE North.

Scale 1 cm = 500 ft

East (Feet) ->

-10000 -9000 -8000 -7000 -6000 -5000 -4000 -3000 -2000 -1000 -0 1000 2000

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 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	4332.00	0.00	212.08	4332.00	S 0.00	W 0.00	0.00	-0.00
End of Build	5498.76	35.00	212.08	5427.53	S 292.70	W 183.46	9.84	307.29
End of Hold	7919.39	35.00	212.08	7410.33	S 1469.21	W 920.89	0.00	1542.44
Target TPZ - ... Sec 4	8529.79	90.00	179.66	7687.00	S 1971.14	W 1021.77	32.81	2051.14
T.D. & Target BHL...c 9	17838.57	90.00	179.66	7687.00	S 11279.75	W 966.10	0.00	11321.05

TPZ - 7530 / 7687 MD/TVD, 2308 FWL, 460 FNL Sec 4

Sec 33, T1N, R66W

Sec 04, T1S, R66W

Sec 09, T1S, R66W

BHL - 17,839 / 7687 MD/TVD, 2340 FWL, 470 FSL Sec 9

<- North(Feet)

Scale 1 cm = 500 ft