



Great Western Operating Company, LLC

Location Colorado
Field Wattenburg
Installation Ottesen
Slot Slot N15 - Ottesen LE 09-369HN
Well Ottesen LE 09-369HN
Wellbore Ottesen LE 09-369HN (PWB)

Created by admin
Date plotted 14-Oct-2016

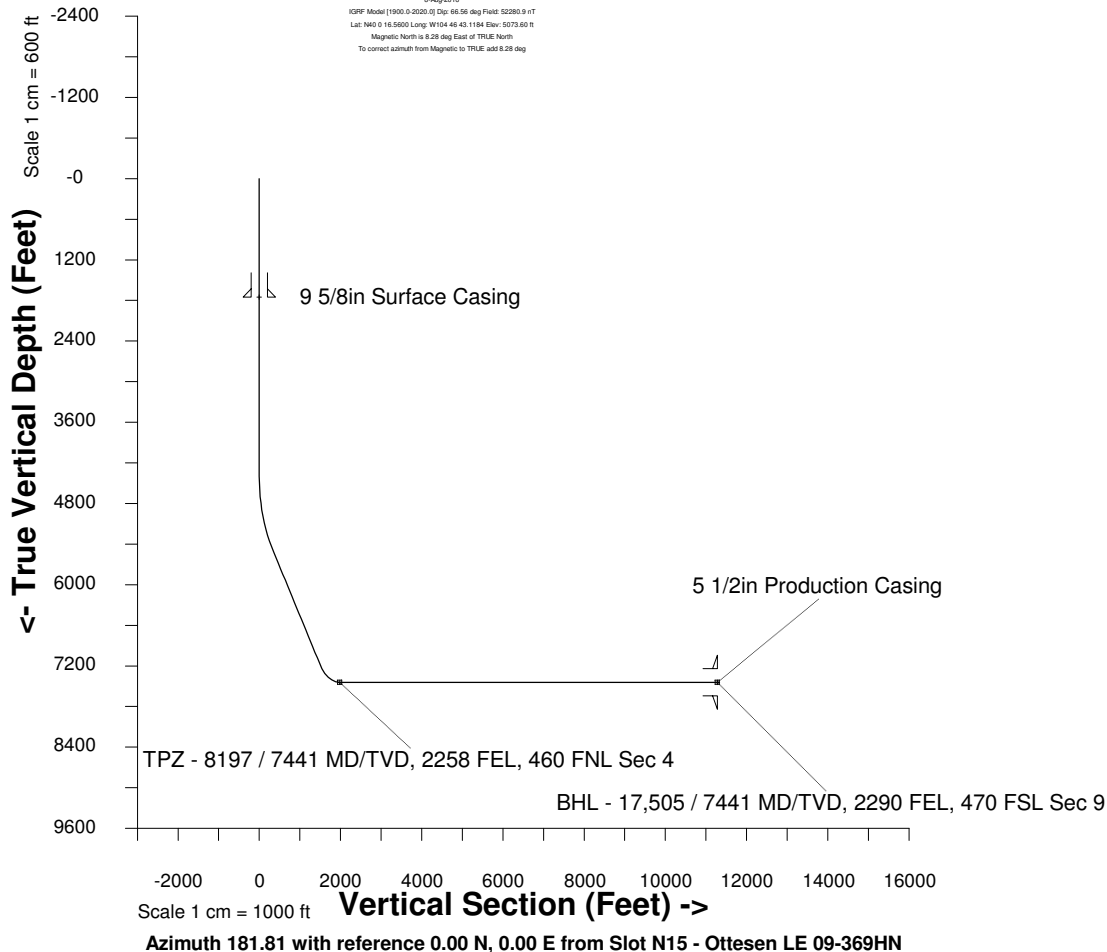
Plot reference is Ottesen LE 09-369HN (PWB).
Ref wellpath is Ottesen LE 09-369HN (PWP#1).
Coordinates are in Feet reference Slot N15 - Ottesen LE 09-369HN.
True Vertical Depths are reference Rig Datum.
Measured Depths are reference Rig Datum.
Rig Datum: Planned Datum #1
Rig Datum to Mean Sea Level: 5093.60 ft.
Plot North is aligned to TRUE North.

Scale 1 cm = 500 ft

East (Feet) ->

-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	4399.00	0.00	192.91	4399.00	S 0.00	W 0.00	0.00	-0.00
End of Build	5565.66	35.00	192.91	5494.44	S 336.66	W 77.14	9.84	338.93
End of Hold	7637.11	35.00	192.91	7191.28	S 1494.78	W 342.51	0.00	1504.84
Target TPZ - ... Sec 4	8197.42	90.00	179.85	7441.00	S 1970.06	W 380.75	32.81	1981.09
T.D. & Target BHL...c 9	17504.98	90.00	179.85	7441.00	S 11277.58	W 355.95	0.00	11283.20

TPZ - 8197 / 7441 MD/TVD, 2258 FEL, 460 FNL Sec 4

Sec 33, T1N, R66W

Sec 04, T1S, R66W

Sec 09, T1S, R66W

BHL - 17,505 / 7441 MD/TVD, 2290 FEL, 470 FSL Sec 9

<- North(Feet)

Scale 1 cm = 500 ft