

Great Western Operating Company, LLC

Location Colorado
Field Wattenburg
Installation Ottesen
Slot S12 - Ottesen LE 06-231HN
Well Ottesen LE 06-231HN
Wellbore Ottesen LE 06-231HN (PWB)

Created by admin

Date plotted 28-Dec-2017

Plot reference is Ottesen LE 06-231HN (PWB).

Ref wellpath is Ottesen LE 06-231HN (PWP#1).

Coordinates are in Feet reference S12 - Ottesen LE 06-231HN.

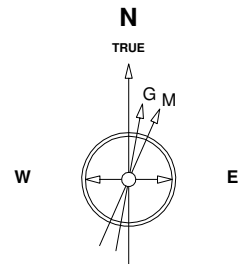
True Vertical Depths are reference Rig Datum.

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.



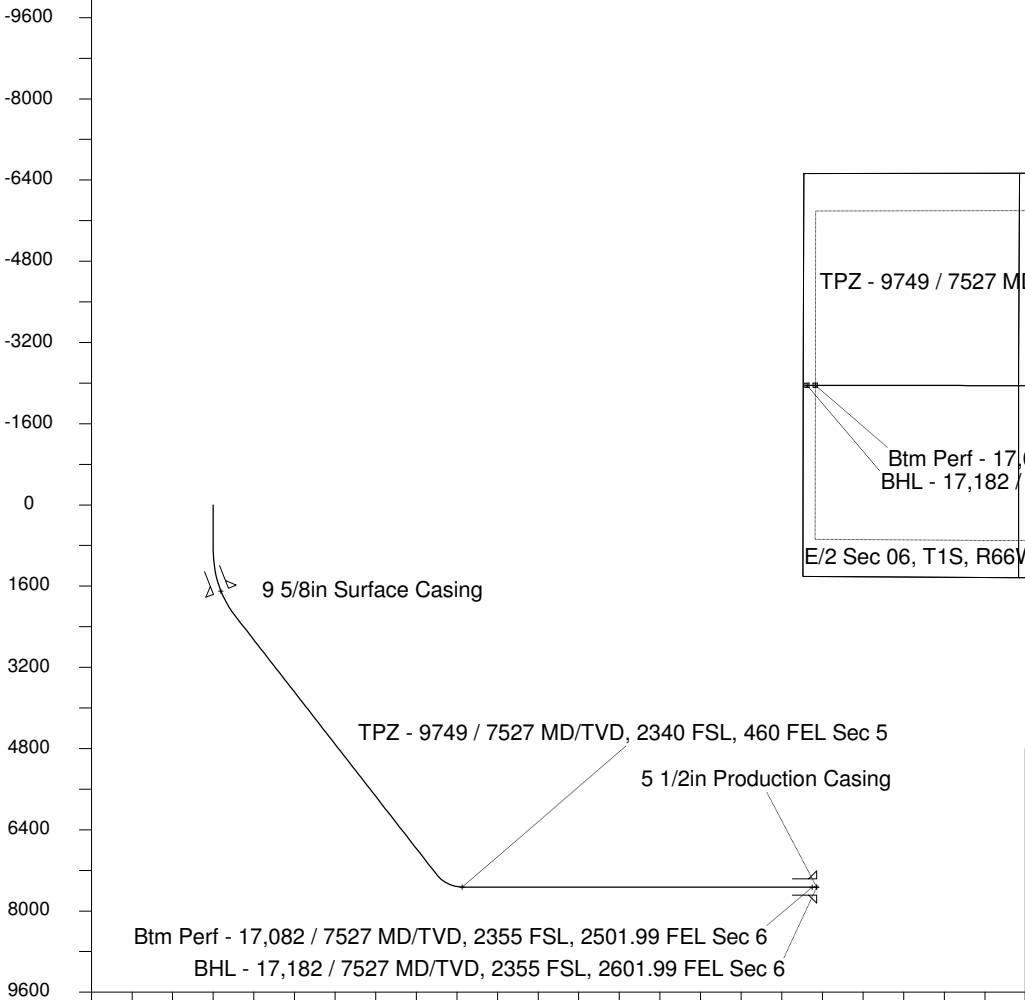
Scale 1 cm = 500 ft

East (Feet) ->

-15000 -14000 -13000 -12000 -11000 -10000 -9000 -8000 -7000 -6000 -5000 -4000 -3000 -2000 -1000 0 1000 2000

8-Aug-2016
IGRF 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

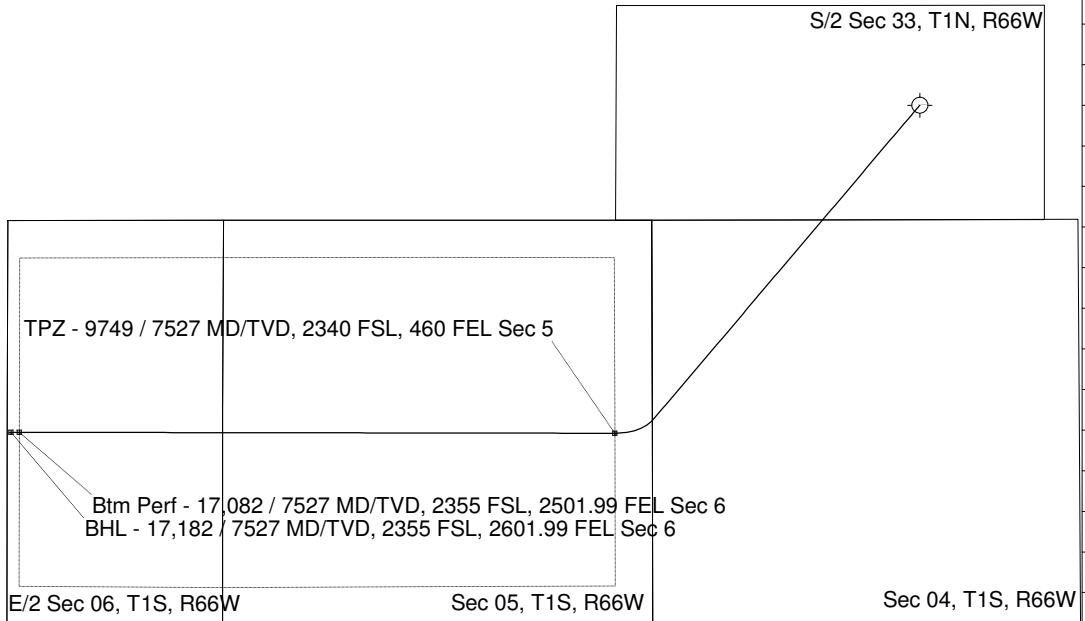
Scale 1 cm = 800 ft
True Vertical Depth (Feet)



Scale 1 cm = 800 ft

Vertical Section (Feet) ->

Azimuth 250.20 with reference 0.00 N, 0.00 E from S12 - Ottesen LE 06-231HN



Scale 1 cm = 500 ft
North(Feet)

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	900.00	0.00	220.30	900.00	S 0.00	W 0.00	0.00	-0.00
End of Build	2297.97	41.94	220.30	2176.44	S 373.12	W 316.38	9.84	424.05
End of Hold	9162.70	41.94	220.30	7282.80	S 3872.48	W 3283.54	0.00	4401.04
Target TPZ - ... Sec 5	9748.55	90.00	270.09	7527.00	S 4039.29	W 3753.72	36.09	4899.93
Target Btm Pe... Sec 6	17082.01	90.00	270.09	7527.00	S 4027.27	W 11087.17	0.00	11795.89
End of Turn	17083.30	90.00	270.24	7527.00	S 4027.26	W 11088.46	36.09	11797.11
T.D. & Target BHL... c	17181.76	90.00	270.24	7527.00	S 4026.86	W 11186.92	0.00	11889.61