

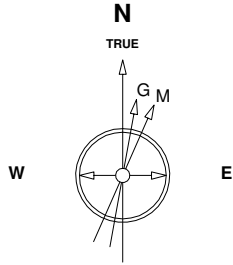
Great Western Operating Company, LLC

Location Colorado
Field Wattenburg
Installation Marcus

Slot Slot W14 - Marcus LD 11-380HNX
Well Marcus LD 11-380HNX
Wellbore Marcus LD 11-380HNX

Created by admin
Date plotted 1-May-2017

Plot reference is Marcus LD 11-380HNX.
Ref wellpath is Marcus - Open Slot N West (PWP#1).
Coordinates are in Feet reference Slot W14 - Marcus LD 11-380HNX.
True Vertical Depths are reference Rig Datum.
Measured Depths are reference Rig Datum.
Rig Datum: Planned Datum #1
Rig Datum to Mean Sea Level: 5058.20 ft.
Plot North is aligned to TRUE North.

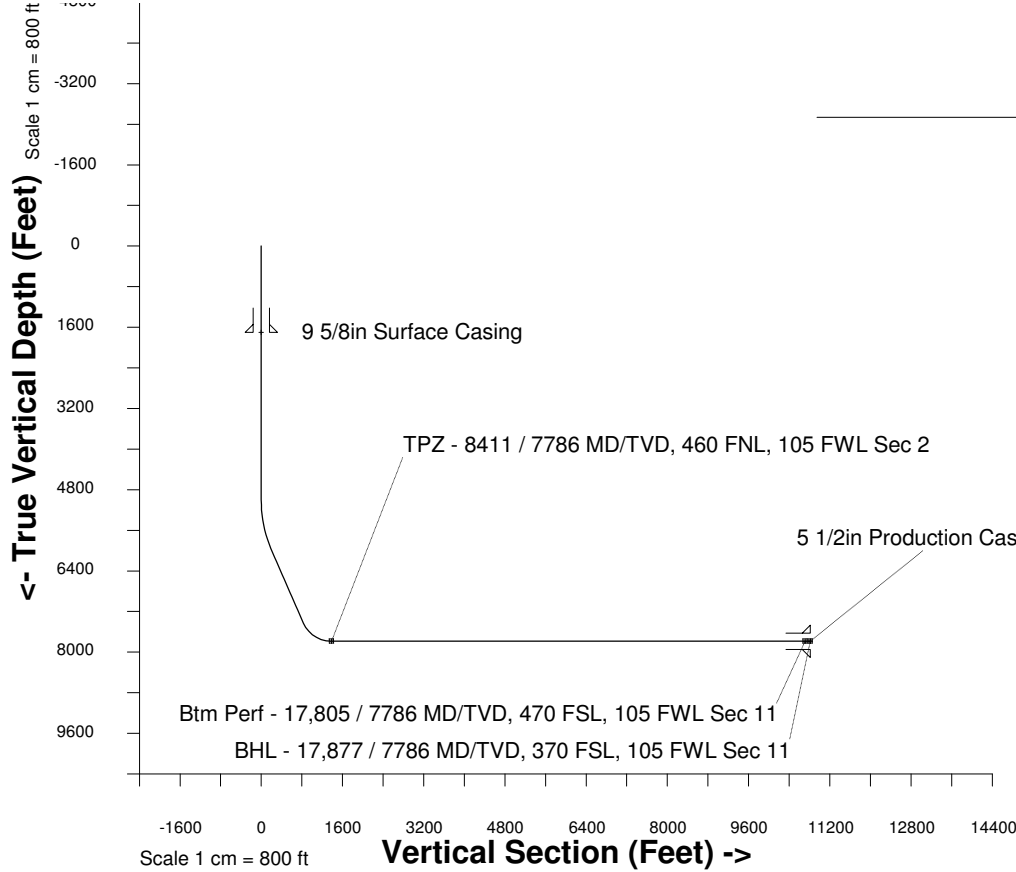


Scale 1 cm = 400 ft

East (Feet) ->

-2400 -1600 -800 0 800 1600 2400 3200 4000 4800 5600 6400 7200 8000

13-Dec-2014
IGRF Model [1900.0-2020.0] Dip: 66.58 deg Field: 52459.7 nT
Lat: N40 0 11.6388 Long: W104 52 6.9096 Elev: 5042.00 ft
Magnetic North is 8.50 deg East of TRUE North
To correct azimuth from Magnetic to TRUE add 8.50 deg



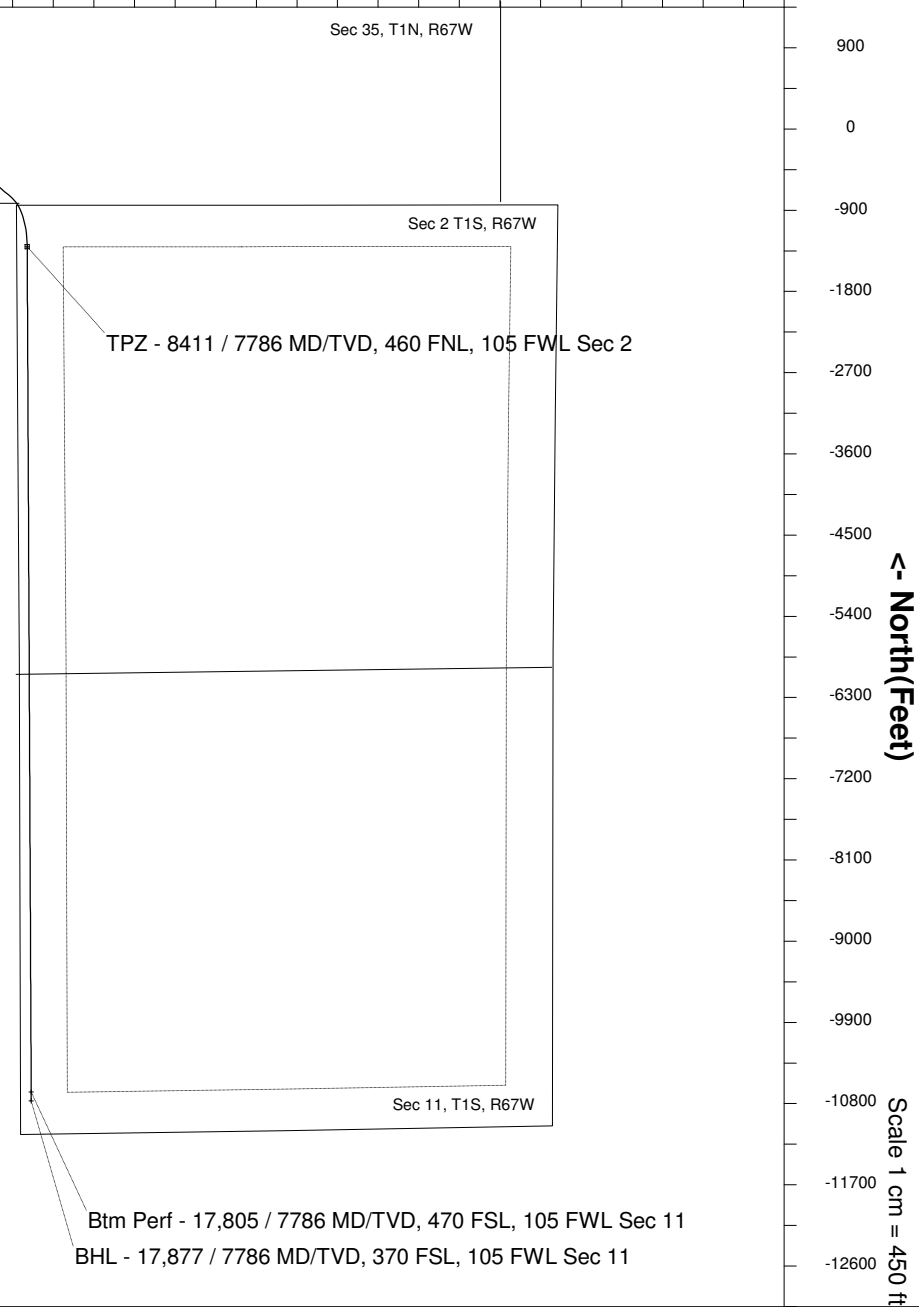
Scale 1 cm = 800 ft

Vertical Section (Feet) ->

Azimuth 174.79 with reference 0.00 N, 0.00 E from Slot W14 - Marcus LD 11-380HNX

WELL PROFILE DATA

Point	MD	Inc	Azi	TVD	North	East	deg/100ft	V. Sect
Tie on	16.20	0.00	0.00	16.20	S 0.00	W 0.00		0.00
KOP	5010.00	0.00	133.92	5010.00	S 0.00	W 0.00	0.00	0.00
End of Build	6010.08	30.00	133.92	5965.00	S 177.53	E 184.32	9.84	193.54
End of Hold	7714.54	30.00	133.92	7441.07	S 768.76	E 798.20	0.00	838.10
Target TPZ - ... Sec 2	8410.66	90.00	179.76	7786.00	S 1305.22	E 943.32	32.81	1385.53
Target Btm Pe...Sec 11	17776.91	90.00	179.76	7786.00	S 10671.39	E 982.64	0.00	10716.53
End of Turn	17804.61	90.00	180.04	7786.00	S 10699.09	E 982.69	3.28	10744.12
T.D. & Target BHL... 11	17876.91	90.00	180.04	7786.00	S 10771.39	E 982.64	0.00	10816.12



<- North(Feet)

Scale 1 cm = 450 ft