

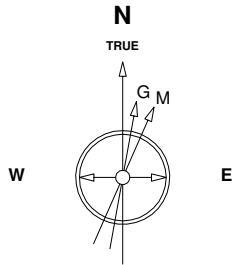
Great Western Operating Company, LLC

Location Colorado
Field Wattenburg
Installation Marcus

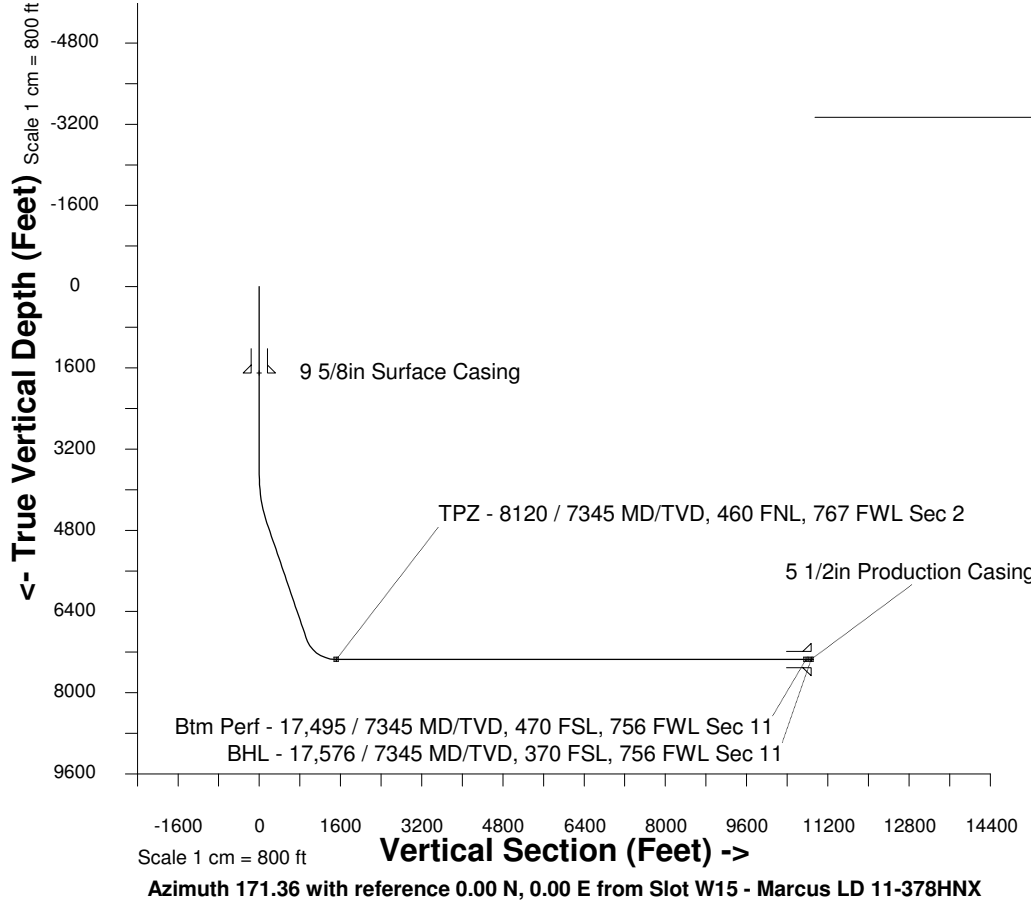
Slot Slot W15 - Marcus LD 11-378HNX
Well Marcus LD 11-378HNX
Wellbore Marcus LD 11-378HNX (PWB)

Created by admin
Date plotted 1-May-2017

Plot reference is Marcus LD 11-378HNX (PWB).
Ref wellpath is Marcus LD 11-378HNX (PWP#1).
Coordinates are in Feet reference Slot W15 - Marcus LD 11-378HNX.
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.



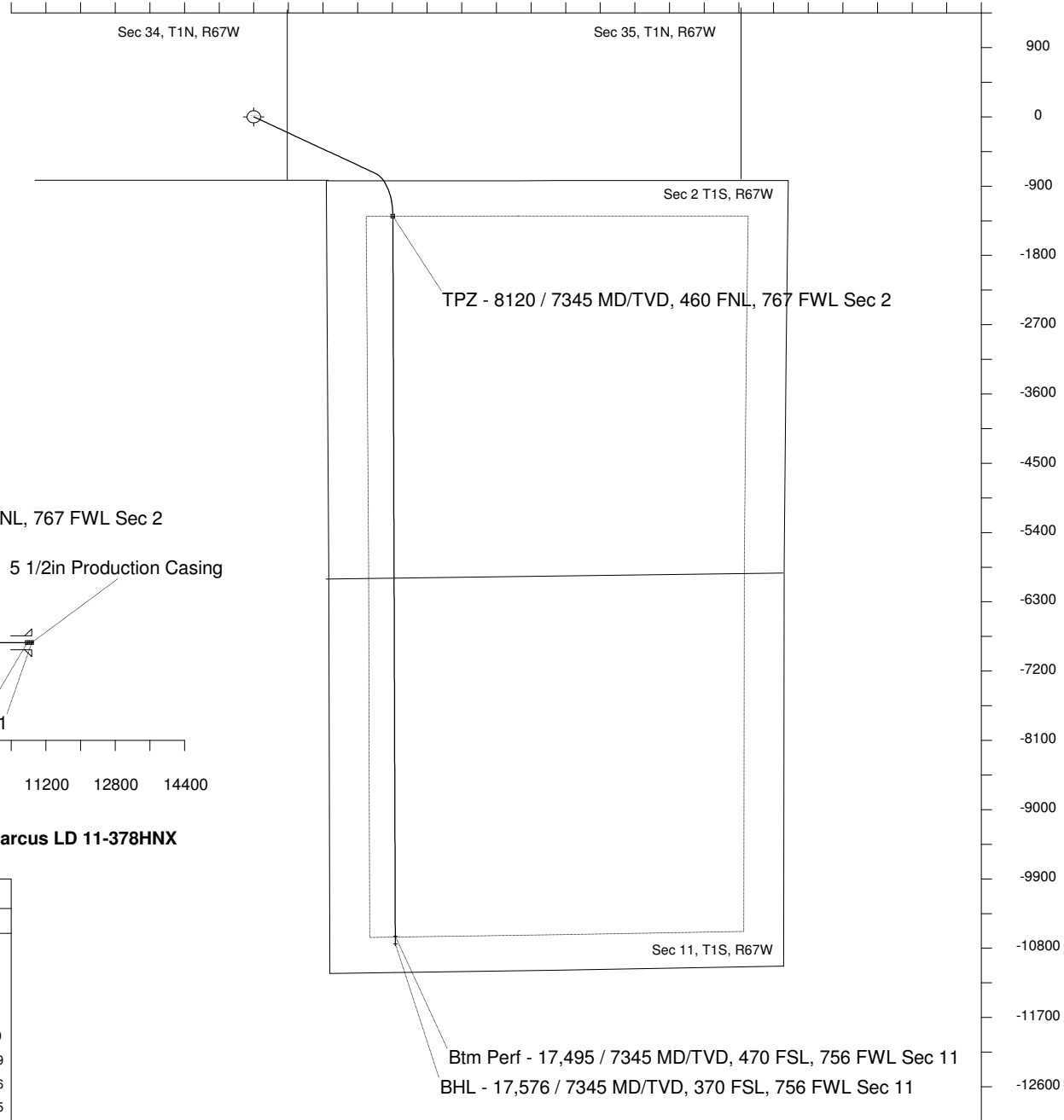
13-Dec-2014
IGRF Model [1900.0-2020.0] Dip: 66.58 deg Field: 52459.7 nT
Lat: N40 0 11.6388 Long: W104 52 6.9096 Elev: 5042.00 ft
Magnetic North is 8.50 deg East of TRUE North
To correct azimuth from Magnetic to TRUE add 8.50 deg



Scale 1 cm = 400 ft

East (Feet) ->

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



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	3698.00	0.00	117.59	3698.00	S 0.00	W 0.00	0.00	0.00
End of Build	4697.99	30.00	117.59	4652.92	S 118.50	E 226.77	9.84	151.23
End of Hold	7354.56	30.00	117.59	6953.59	S 733.64	E 1404.01	0.00	936.30
Target TPZ - ... Sec 2	8119.90	90.00	179.83	7345.00	S 1290.25	E 1605.64	32.81	1516.89
Target Btm Pe...Sec 11	17475.91	90.00	179.83	7345.00	S 10646.22	E 1633.43	0.00	10770.79
End of Turn	17494.69	90.00	180.02	7345.00	S 10665.00	E 1633.45	3.28	10789.36
T.D. & Target BHL... 11	17575.91	90.00	180.02	7345.00	S 10746.22	E 1633.43	0.00	10869.65