

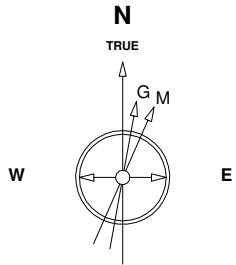
Great Western Operating Company, LLC

Location Colorado
Field Wattenburg
Installation Marcus

Slot Slot W12 - Marcus LD 11-372HN
Well Marcus LD 11-372HN
Wellbore Marcus LD 11-372HN (PWB)

Created by admin
Date plotted 16-Aug-2017

Plot reference is Marcus LD 11-372HN (PWB).
Ref wellpath is Marcus LD 11-372HN (PWP#1).
Coordinates are in Feet reference Slot W12 - Marcus LD 11-372HN.
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

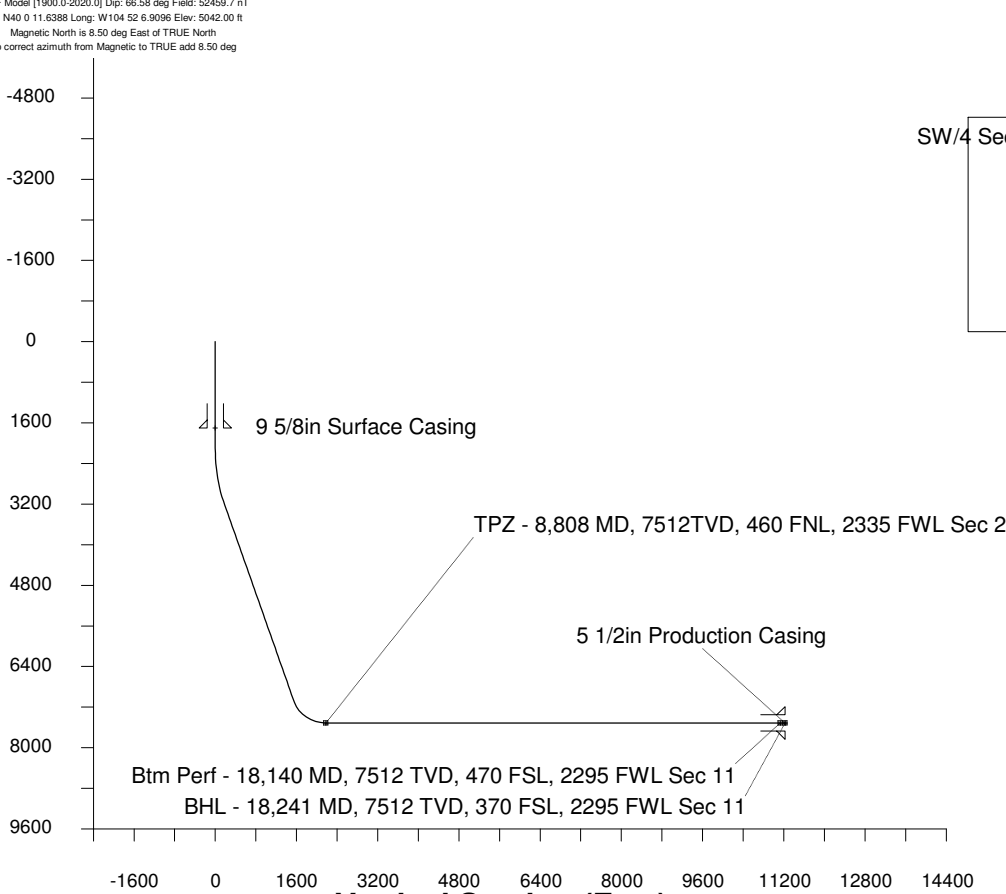
Scale 1 cm = 500 ft

East (Feet) ->

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

Scale

<- True Vertical Depth (Feet)



Scale 1 cm = 800 ft

Vertical Section (Feet) ->

Azimuth 163.59 with reference 0.00 N, 0.00 E from Slot W12 - Marcus LD 11-372HN

SW/4 Sec 34, T1N, R67W

S/2 Sec 35, T1N, R67W

TPZ - 8,808 MD, 7512TVD, 460 FNL, 2335 FWL Sec 2

Sec 2, T1S, R67W

Sec 11, T1S, R67W

Btm Perf - 18,140 MD, 7512 TVD, 470 FSL, 2295 FWL Sec 11

BHL - 18,241 MD, 7512 TVD, 370 FSL, 2295 FWL Sec 11

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	2100.00	0.00	104.81	2100.00	S 0.00	W 0.00	0.00	0.00
End of Build	3240.63	34.22	104.81	3174.02	S 84.53	E 319.62	9.84	171.40
End of Hold	7991.00	34.22	104.81	7102.08	S 767.55	E 2902.22	0.00	1556.33
Target TPZ - ... Sec 2	8808.34	90.00	180.00	7512.00	S 1334.56	E 3171.72	32.81	2176.39
Target Btm Pe...Sec 11	18140.44	90.00	180.00	7512.00	S 10666.66	E 3171.52	0.00	11128.13
End of Turn	18140.70	90.00	179.97	7512.00	S 10666.69	E 3171.52	42.65	11128.16
T.D. & Target BHL... 11	18240.68	90.00	179.97	7512.00	S 10766.66	E 3171.52	0.00	11224.06

<- North(Feet)

Scale 1 cm = 500 ft