

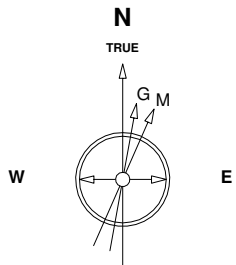
Great Western Operating Company, LLC

Location Colorado
Field Wattenburg
Installation Marcus

Slot Slot E05 - Marcus LD 11-367HN
Well Marcus LD 11-367HN
Wellbore Marcus LD 11-367HN (PWB)

Created by admin
Date plotted 16-Aug-2017

Plot reference is Marcus LD 11-367HN (PWB).
Ref wellpath is Marcus LD 11-367HN (PWP#1).
Coordinates are in Feet reference Slot E05 - Marcus LD 11-367HN.
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.



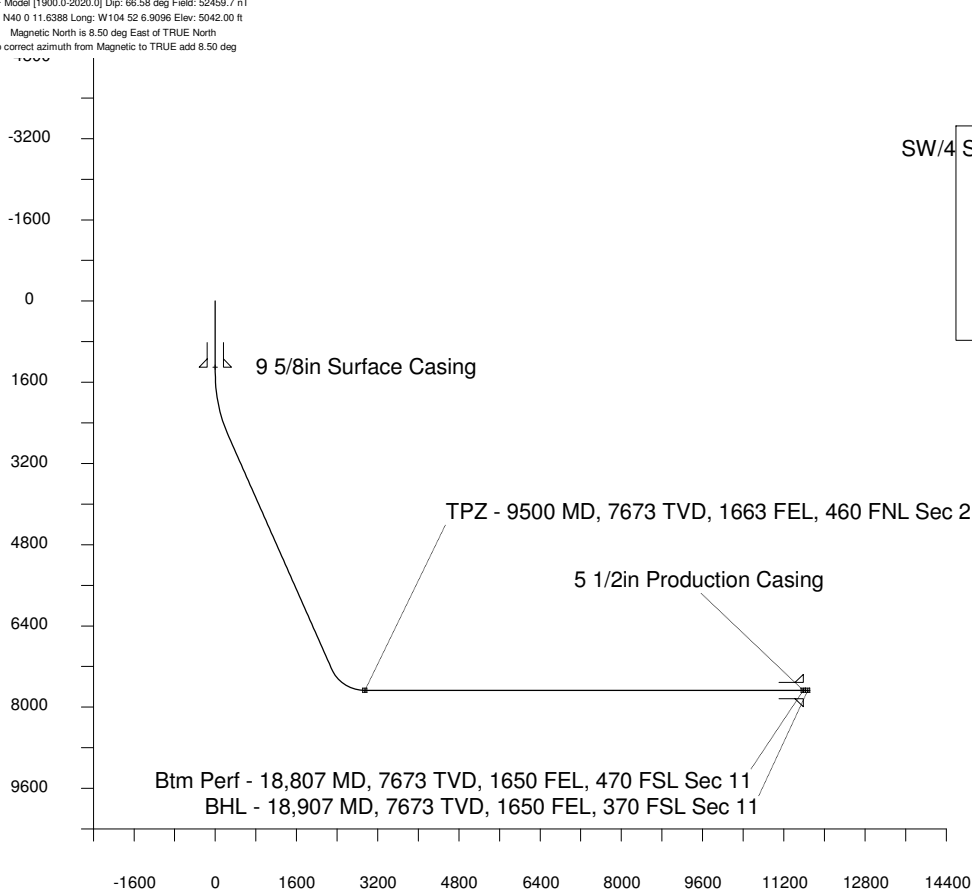
13-Dec-2014
IGRF Model [1900.0-2020.0] Dip: 66.58 deg Field: 52459.7 nT
Lat: N40 0 11.6388 Long: W104 52 6.9096 Elev: 5042.00 ft
Magnetic North is 8.50 deg East of TRUE North
To correct azimuth from Magnetic to TRUE add 8.50 deg

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 158.30 with reference 0.00 N, 0.00 E from Slot E05 - Marcus LD 11-367HN

SW/4 Sec 34, T1N, R67W

S/2 Sec 35, T1N, R67W

TPZ - 9500 MD, 7673 TVD, 1663 FEL, 460 FNL Sec 2

Sec 2, T1S, R67W

Sec 11, T1S, R67W

Btm Perf - 18,807 MD, 7673 TVD, 1650 FEL, 470 FSL Sec 11

BHL - 18,907 MD, 7673 TVD, 1650 FEL, 370 FSL 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	1400.00	0.00	102.15	1400.00	S 0.00	W 0.00	0.00	0.00
End of Build	2682.30	38.47	102.15	2588.11	S 87.22	E 405.27	9.84	230.88
End of Hold	8673.38	38.47	102.15	7278.79	S 871.34	E 4048.84	0.00	2306.67
Target TPZ - ... Sec 2	9499.53	90.00	180.22	7673.00	S 1440.72	E 4353.11	32.81	2948.21
Target Btm Pe...Sec 11	18807.13	90.00	180.22	7673.00	S 10748.25	E 4317.18	0.00	11582.81
End of Turn	18808.84	90.00	180.00	7673.00	S 10749.96	E 4317.18	42.65	11584.40
T.D. & Target BHL... 11	18907.13	90.00	180.00	7673.00	S 10848.25	E 4317.18	0.00	11675.73

<- North(Feet)

Scale 1 cm = 500 ft