

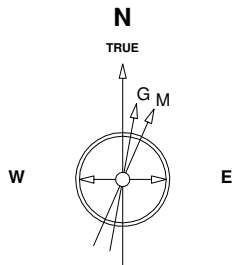
Great Western Operating Company, LLC

Location Colorado
Field Wattenburg
Installation Marcus

Slot Slot W11 - Marcus LD 11-372HC
Well Marcus LD 11-372HC
Wellbore Marcus LD 11-372HC (PWB)

Created by admin
Date plotted 16-Aug-2017

Plot reference is Marcus LD 11-372HC (PWB).
Ref wellpath is Marcus LD 11-372HC (PWP#1).
Coordinates are in Feet reference Slot W11 - Marcus LD 11-372HC.
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.



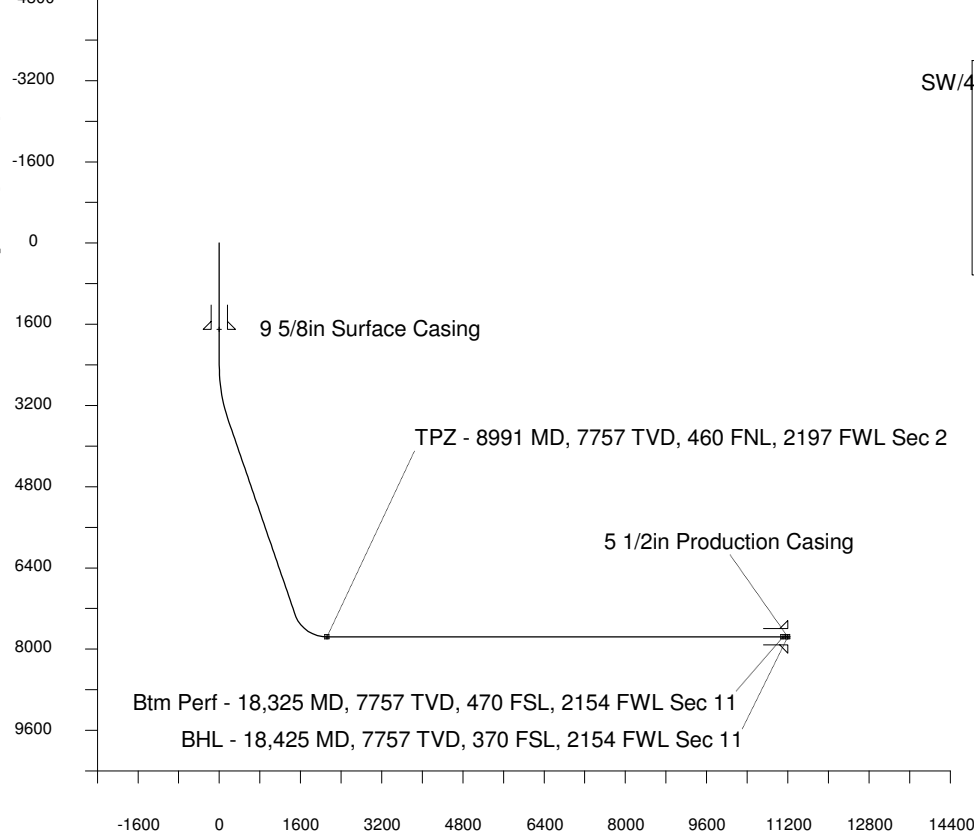
13-Dec-2014
IGRF Model [1900.0-2020.0] Dip: 66.58 deg Field: 52459.7 nT
Lat: N40 0 11.6388 Long: W104 52 6.9096 Elev: 5042.00 ft
Magnetic North is 8.50 deg East of TRUE North
To correct azimuth from Magnetic to TRUE add 8.50 deg

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 164.30 with reference 0.00 N, 0.00 E from Slot W11 - Marcus LD 11-372HC

SW/4 Sec 34, T1N, R67W

S/2 Sec 35, T1N, R67W

TPZ - 8991 MD, 7757 TVD, 460 FNL, 2197 FWL Sec 2

Sec 2, T1S, R67W

Sec 11, T1S, R67W

Btm Perf - 18,325 MD, 7757 TVD, 470 FSL, 2154 FWL Sec 11

BHL - 18,425 MD, 7757 TVD, 370 FSL, 2154 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	2400.00	0.00	105.76	2400.00	S 0.00	W 0.00	0.00	0.00
End of Build	3512.89	33.39	105.76	3450.97	S 85.62	E 303.32	9.84	164.49
End of Hold	8177.01	33.39	105.76	7345.40	S 782.87	E 2773.40	0.00	1504.03
Target TPZ - ... Sec 2	8991.16	90.00	180.02	7757.00	S 1349.51	E 3034.27	32.81	2120.12
Target Btm Pe... Sec 11	18325.44	90.00	180.02	7757.00	S 10683.80	E 3030.65	0.00	11105.30
End of Turn	18325.63	90.00	180.00	7757.00	S 10683.99	E 3030.65	42.65	11105.48
T.D. & Target BHL... 11	18425.45	90.00	180.00	7757.00	S 10783.80	E 3030.65	0.00	11201.57

North(Feet)

Scale 1 cm = 500 ft