

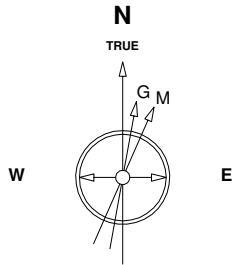
Great Western Operating Company, LLC

Location Colorado
Field Wattenburg
Installation Marcus

Slot Slot E02 - Marcus LD 11-369HN
Well Marcus LD 11-369HN
Wellbore Marcus LD 11-369HN (PWB)

Created by admin
Date plotted 16-Aug-2017

Plot reference is Marcus LD 11-369HN (PWB).
Ref wellpath is Marcus LD 11-369HN (PWP#1).
Coordinates are in Feet reference Slot E02 - Marcus LD 11-369HN.
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.

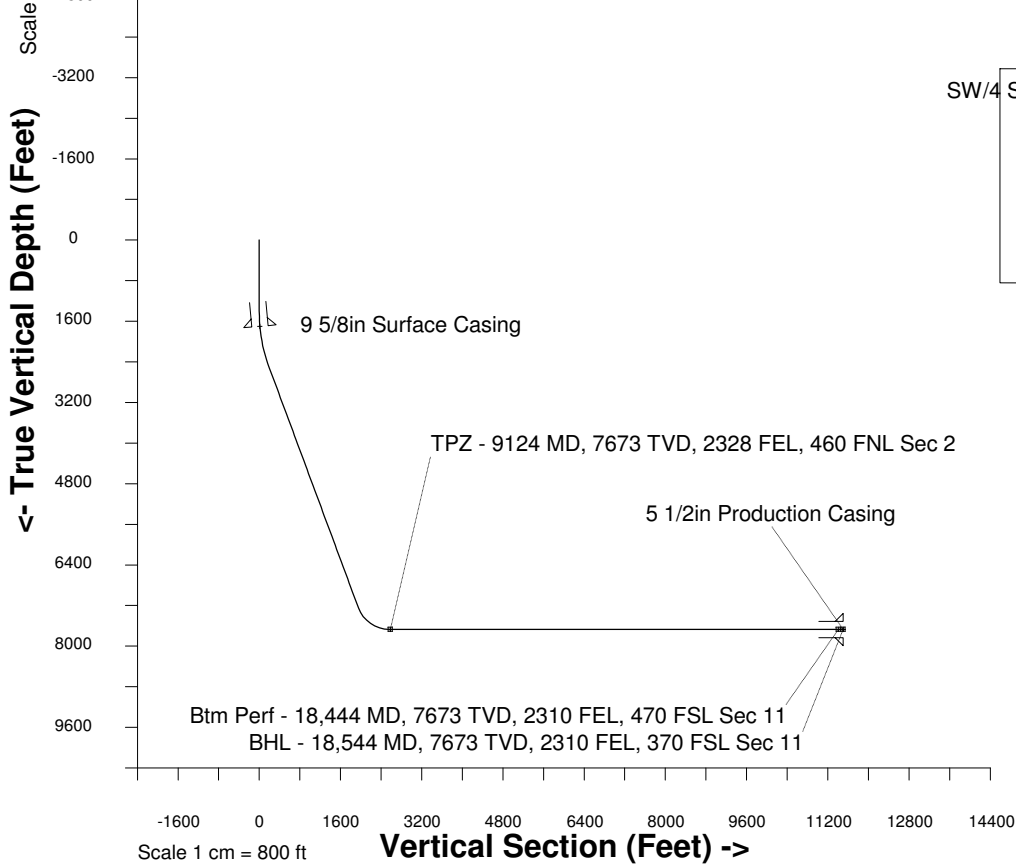


Scale 1 cm = 500 ft

East (Feet) ->

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

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 161.45 with reference 0.00 N, 0.00 E from Slot E02 - Marcus LD 11-369HN

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	105.01	1400.00	S 0.00	W 0.00	0.00	0.00
End of Build	2529.17	33.88	105.01	2464.53	S 83.97	E 313.13	9.84	179.21
End of Hold	8306.22	33.88	105.01	7260.95	S 918.05	E 3423.26	0.00	1959.28
Target TPZ - ... Sec 2	9124.20	90.00	180.18	7673.00	S 1485.99	E 3688.87	32.81	2582.21
Target Btm Pe...Sec 11	18444.15	90.00	180.18	7673.00	S 10805.90	E 3659.14	0.00	11408.58
End of Turn	18445.56	90.00	180.00	7673.00	S 10807.31	E 3659.14	42.65	11409.92
T.D. & Target BHL... 11	18544.15	90.00	180.00	7673.00	S 10905.90	E 3659.14	0.00	11503.39

TPZ - 9124 MD, 7673 TVD, 2328 FEL, 460 FNL Sec 2

SW/4 Sec 34, T1N, R67W

S/2 Sec 35, T1N, R67W

Sec 2, T1S, R67W

Sec 11, T1S, R67W

Btm Perf - 18,444 MD, 7673 TVD, 2310 FEL, 470 FSL Sec 11

BHL - 18,544 MD, 7673 TVD, 2310 FEL, 370 FSL Sec 11

<- North(Feet)

Scale 1 cm = 500 ft