

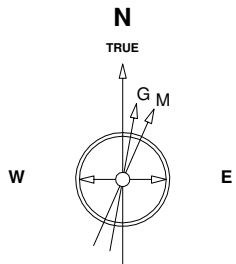
Great Western Operating Company, LLC

Location Colorado
Field Wattenburg
Installation Marcus

Slot Slot W13 - Marcus LD 11-371HN
Well Marcus LD 11-371HN
Wellbore Marcus LD 11-371HN (PWB)

Created by admin
Date plotted 18-May-2016

Plot reference is Marcus LD 11-371HN (PWB).
Ref wellpath is Marcus LD 11-371HN (PWP#1).
Coordinates are in Feet reference Slot W13 - Marcus LD 11-371HN.
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

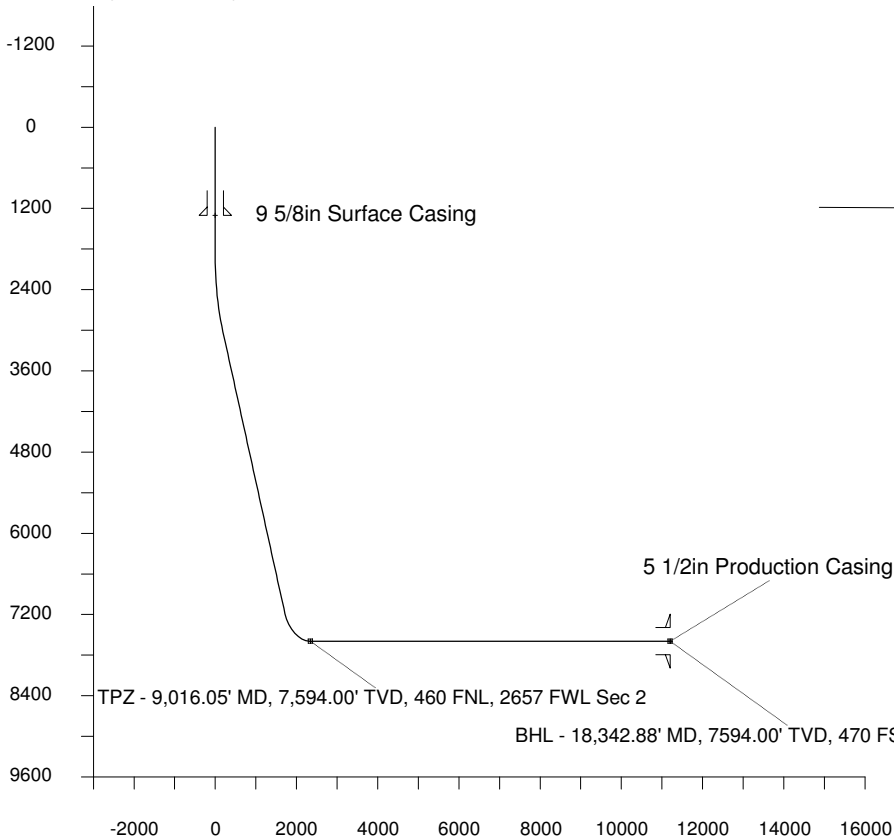
Scale 1 cm = 400 ft

East (Feet) ->

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

<- True Vertical Depth (Feet)

Scale 1 cm = 600 ft



Scale 1 cm = 1000 ft

Vertical Section (Feet) ->

Azimuth 161.84 with reference 0.00 N, 0.00 E from Slot W13 - Marcus LD 11-371HN

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	1900.00	0.00	103.16	1900.00	S 0.00	W 0.00	0.00	0.00
End of Build	3073.01	35.19	103.16	3000.64	S 79.48	E 339.87	9.84	181.47
End of Hold	8191.42	35.19	103.16	7183.63	S 751.18	E 3212.08	0.00	1715.09
Target TPZ - ... Sec 2	9016.05	90.00	180.01	7594.00	S 1319.22	E 3493.81	32.81	2342.64
T.D. & Target BHL... 11	18342.88	90.00	180.01	7594.00	S 10646.04	E 3492.87	0.00	11204.39

Sec 34, T1N, R67W

Sec 35, T1N, R67W

TPZ - 9,016.05' MD, 7,594.00' TVD, 460 FNL, 2657 FWL Sec 2

Sec 2 T1S, R67W

5 1/2in Production Casing

TPZ - 9,016.05' MD, 7,594.00' TVD, 460 FNL, 2657 FWL Sec 2

BHL - 18,342.88' MD, 7594.00' TVD, 470 FSL, 2616 FWL Sec 11

Sec 11, T1S, R67W

BHL - 18,342.88' MD, 7594.00' TVD, 470 FSL, 2616 FWL Sec 11

<- North(Feet)

Scale 1 cm = 450 ft