

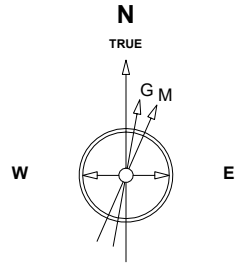
Great Western Operating Company, LLC

Location Colorado
Field Wattenburg
Installation Gus

Slot W09 - Gus LD 15-023HC
Well Gus LD 15-023HC
Wellbore Gus LD 15-023HC (PWB)

Created by admin
Date plotted 24-Oct-2018

Plot reference is Gus LD 15-023HC (PWB).
Ref wellpath is Gus LD 15-023HC (PWP#1).
Coordinates are in Feet reference W09 - Gus LD 15-023HC.
True Vertical Depths are reference Rig Datum.
Measured Depths are reference Rig Datum.
Rig Datum: Planned Datum #1
Rig Datum to Mean Sea Level: 5143.30 ft.
Plot North is aligned to TRUE North.



Scale 1 cm = 500 ft

East (Feet) ->

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

Oct-22-2018
EMM-2015 [2000.0-2020.0] Dip: 66.27 deg Field: 51954.5 nT
Lat: N39 57 11.9124 Long: W104 53 9.4056 Elev: 5123.30 ft
Magnetic North is 8.17 deg East of TRUE North
To correct azimuth from Magnetic to TRUE add 8.17 deg

WELL PROFILE DATA

Point	MD	Inc	Azi	TVD	North	East	deg/100ft	V. Sect
Tie on	0.00	0.00	0.00	0.00	S 0.00	W 0.00		0.00
KOP	3676.00	0.00	144.85	3676.00	S 0.00	W 0.00	0.00	0.00
End of Build	4676.01	30.00	144.85	4630.94	S 209.22	E 147.32	3.00	-179.14
End of Hold	7581.44	30.00	144.85	7147.10	S 1397.03	E 983.70	0.00	-1196.18
Target TPZ - ...Sec 22	8723.37	90.00	359.80	7914.00	S 873.52	E 1235.57	10.00	-635.77
Target Btm Pe...Sec 15	16081.22	90.00	359.80	7914.00	N 6484.29	E 1210.26	0.00	6596.24
End of Turn	16083.18	90.00	360.00	7914.00	N 6486.25	E 1210.26	10.00	6598.17
T.D. & Target BHL... 15	16181.40	90.00	360.00	7914.00	N 6584.47	E 1210.26	0.00	6694.77

<- True Vertical Depth (Feet)

Scale 1 cm = 800 ft

-3200
-1600
0
1600
3200
4800
6400
8000
9600

-6400 -4800 -3200 -1600 0 1600 3200 4800 6400 8000 9600 11200

Scale 1 cm = 800 ft

Vertical Section (Feet) ->

Azimuth 10.41 with reference 0.00 N, 0.00 E from W09 - Gus LD 15-023HC

9 5/8in Surface Casing

TPZ - 8723 / 7914 MD/TVD, 2570.97 FNL, 780 FWL Sec 22

TPZ - 8723 / 7914 MD/TVD, 2570.97 FNL, 780 FWL Sec 22

5 1/2in Production Casing

Btm Perf - 16,081 / 7914 MD/TVD, 470 FNL, 755 FWL Sec 15

BHL - 16,181 / 7914 MD/TVD, 370 FNL, 755 FWL Sec 15

BHL - 16,181 / 7914 MD/TVD, 370 FNL, 755 FWL Sec 15

Btm Perf - 16,081 / 7914 MD/TVD, 470 FNL, 755 FWL Sec 15

Sec 15, T1S, R67W

Sec 21, T1S, R67W

Sec 22, T1S, R67W

<- North(Feet)

Scale 1 cm = 500 ft

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