

Great Western Operating Company, LLC

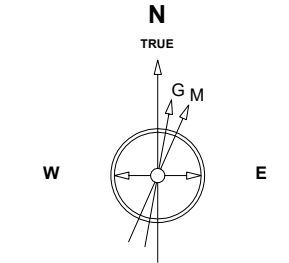
Location Colorado
Field Wattenburg
Installation Seltzer
Slot Slot E15 - Seltzer LD 21-031HC
Well Seltzer LD 21-031HC
Wellbore Seltzer LD 21-031HC (PWB)

Scale 1 cm = 400 ft

East (Feet) ->

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

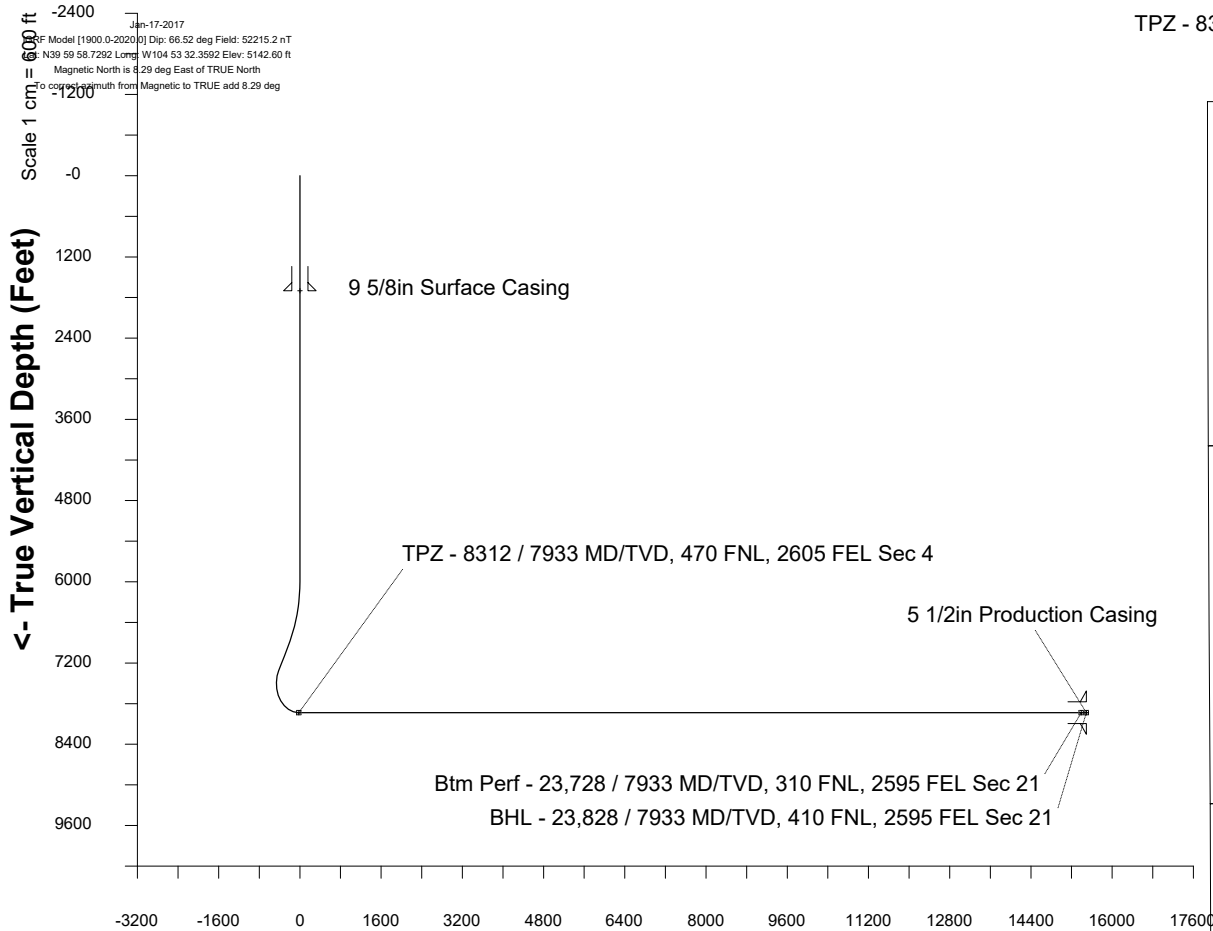
Created by	admin
Date plotted	30-Apr-2018
Plot reference is Seltzer LD 21-031HC (PWB).	
Ref wellpath is Seltzer LD 21-031HC (PWP#1).	
Coordinates are in Feet reference Slot E15 - Seltzer LD 21-031HC.	
True Vertical Depths are reference Rig Datum.	
Measured Depths are reference Rig Datum.	
Rig Datum: Planned Datum #1	
Rig Datum to Mean Sea Level: 5162.60 ft.	
Plot North is aligned to TRUE North.	



Jan-17-2017
GCS Model [1900.0-2020.0] Dip: 66.52 deg Field: 52215.2 nT
N39 59 58.7292 Long W104 53 32.3592 Elev: 5142.60 ft
Magnetic North is 8.29 deg East of TRUE North
To convert from Magnetic to TRUE add 8.29 deg

Scale 1 cm = 600 ft

<- True Vertical Depth (Feet)



Scale 1 cm = 800 ft

Vertical Section (Feet) ->

Azimuth 181.20 with reference 0.00 N, 0.00 E from Slot E15 - Seltzer LD 21-031HC

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	5991.10	0.00	334.49	5991.10	S 0.00	W 0.00	0.00	-0.00
End of Build	6991.02	30.00	334.49	6945.96	N 230.89	W 110.18	3.00	-228.55
End of Hold	7413.62	30.00	334.49	7311.95	N 421.58	W 201.17	0.00	-417.29
Target TPZ - ... Sec 4	8312.47	90.00	179.89	7933.00	N 28.05	W 354.13	13.00	-20.66
Target Btm Pe...Sec 21	23727.99	90.00	179.89	7933.00	S 15387.44	W 323.23	0.00	15390.84
End of Turn	23728.88	90.00	180.00	7933.00	S 15388.33	W 323.23	13.00	15391.73
T.D. & Target BHL... 21	23828.17	90.00	180.00	7933.00	S 15487.62	W 323.23	0.00	15490.99

TPZ - 8312 / 7933 MD/TVD, 470 FNL, 2605 FEL Sec 4

Sec 4, T1S, R67W

Sec 9, T1S, R67W

Sec 16, T1S, R67W

Btm Perf - 23,728 / 7933 MD/TVD, 310 FNL, 2595 FEL Sec 21

BHL - 23,828 / 7933 MD/TVD, 410 FNL, 2595 FEL Sec 21

Sec 21, T1S, R67W

<- North(Feet)

Scale 1 cm = 600 ft