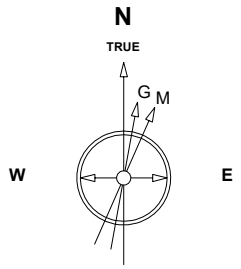
Great Western Operating Company, LLC

Location	Colorado	**Slot**	N09 - Brant LE 08-082HN
Field	Wattenburg	**Well**	Brant LE 08-082HN
Installation	Brant	**Wellbore**	Brant LE 08-082HN (PWB)

Created by admin
Date plotted 25-Jan-2019

Plot reference is Brant LE 08-082HN (PWB).
Ref wellpath is Brant LE 08-082HN (PWP#1).
Coordinates are in Feet reference N09 - Brant LE 08-082HN.
True Vertical Depths are reference Rig Datum.
Measured Depths are reference Rig Datum.
Rig Datum: Planned Datum #1
Rig Datum to Mean Sea Level: 4992.00 ft.
Plot North is aligned to TRUE North.



Apr-14-2017
IGRF Model [1900.0-2020.0] Dip: 66.51 deg Field: 52184.6 nT
Lat: N39 58 49.6308 Long: W104 50 52.6488 Elev: 4972.00 ft
Magnetic North is 8.24 deg East of TRUE North
To correct azimuth from Magnetic to TRUE add 8.24 deg

Scale 1 cm = 500 ft

East (Feet) ->

-2000 -1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 11000 12000 13000 14000 15000 16000 17000

<- North(Feet)

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

Scale 1 cm = 500 ft

Scale 1 cm = 1000 ft

<- True Vertical Depth (Feet)

-16000 -14000 -12000 -10000 -8000 -6000 -4000 -2000 0 2000 4000 6000 8000 10000

TPZ - 7908 / 7347 MD/TVD, 1125 FNL, 460 FWL Sec 12

Btm Perf - 22,911 / 7347 MD/TVD, 1125 FNL, 470 FEL Sec 8
BHL - 23,011 / 7347 MD/TVD, 1125 FNL, 370 FEL Sec 8

Sec 11, T1S, R67W | Sec 12, T1S, R67W | Sec 7, T1S, R66W | Sec 8, T1S, R66W

9 5/8in Surface Casing

TPZ - 7908 / 7347 MD/TVD, 1125 FNL, 460 FWL Sec 12

5 1/2in Production Casing

Btm Perf - 22,911 / 7347 MD/TVD, 1125 FNL, 470 FEL Sec 8
BHL - 23,011 / 7347 MD/TVD, 1125 FNL, 370 FEL Sec 8

-2000 0 2000 4000 6000 8000 10000 12000 14000 16000 18000 20000 22000

Scale 1 cm = 1000 ft

Vertical Section (Feet) ->

Azimuth 86.27 with reference 0.00 N, 0.00 E from N09 - Brant LE 08-082HN

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	4940.00	0.00	17.76	4940.00	S 0.00	W 0.00	0.00	0.00
End of Build	5939.93	30.00	17.76	5894.87	N 243.65	E 78.02	3.00	93.73
End of Hold	7169.92	30.00	17.76	6960.10	N 829.31	E 265.57	0.00	319.03
Target TPZ - ...Sec 12	7908.46	90.00	90.02	7347.00	N 1041.87	E 780.44	11.00	846.64
Target Btm Pe... Sec 8	22910.85	90.00	90.02	7347.00	N 1036.67	E 15782.83	0.00	15816.84
End of Turn	22911.29	90.00	89.96	7347.00	N 1036.67	E 15783.27	13.00	15817.27
T.D. & Target BHL...c 8	23011.17	90.00	89.96	7347.00	N 1036.73	E 15883.15	0.00	15916.95