Great Western Operating Company, LLC

Location	**Colorado**	**Slot**	**S11 - Brant LE 08-359HNX**
Field	**Wattenburg**	**Well**	**Brant LE 08-359HNX**
Installation	**Brant**	**Wellbore**	**Brant LE 08-359HNX (PWB)**

Created by admin
Date plotted 24-Aug-2017

Plot reference is Brant LE 08-359HNX (PWB).
Ref wellpath is Brant LE 08-359HNX (PWP#1).
Coordinates are in Feet reference S11 - Brant LE 08-359HNX.
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.

N TRUE
G M
W E

14-Apr-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

Scale 1 cm = 1000 ft

<- True Vertical Depth (Feet)

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

<- North(Feet)

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

Scale 1 cm = 500 ft

E/2 Sec 11, T1S, R67W

Sec 12, T1S, R67W

Sec 7, T1S, R66W

Sec 8, T1S, R66W

TPZ - 8121 / 7201 MD/TVD, 755 FSL, 460 FWL Sec 12

Btm Perf - 23,140 / 7201 MD/TVD, 755 FSL, 470 FEL Sec 8

BHL - 23,240 / 7201 MD/TVD, 755 FSL, 370 FEL Sec 8

9 5/8in Surface Casing

TPZ - 8121 / 7201 MD/TVD, 755 FSL, 460 FWL Sec 12

5 1/2in Production Casing

Btm Perf - 23,140 / 7201 MD/TVD, 755 FSL, 470 FEL Sec 8

BHL - 23,240 / 7201 MD/TVD, 755 FSL, 370 FEL Sec 8

-2000 0 2000 4000 6000 8000 10000 12000 14000 16000 18000 20000 22

Scale 1 cm = 1000 ft

Vertical Section (Feet) ->

Azimuth 98.32 with reference 0.00 N, 0.00 E from S11 - Brant LE 08-359HNX

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	2701.00	0.00	176.59	2701.00	S 0.00	W 0.00	0.00	0.00
End of Build	3700.98	30.00	176.59	3655.92	S 255.41	E 15.21	9.84	52.01
End of Hold	7238.55	30.00	176.59	6719.55	S 2021.04	E 120.37	0.00	411.55
Target TPZ - ...Sec 12	8121.26	90.00	90.05	7201.00	S 2299.00	E 692.82	32.81	1018.20
Target Btm Pe... Sec 8	23139.73	90.00	90.05	7201.00	S 2312.25	E 15711.28	0.00	15880.51
End of Turn	23140.40	90.00	89.96	7201.00	S 2312.25	E 15711.95	42.65	15881.18
T.D. & Target BHL...c 8	23239.50	90.00	89.96	7201.00	S 2312.19	E 15811.06	0.00	15979.23