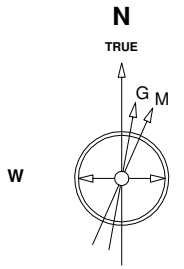
Great Western Operating Company, LLC

Location	**Colorado**	**Slot**	**N04 - Brant LE 08-159HC**
Field	**Wattenburg**	**Well**	**Brant LE 08-159HC**
Installation	**Brant**	**Wellbore**	**Brant LE 08-159HC (PWB)**

Created by admin
Date plotted 23-Aug-2017
Plot reference is Brant LE 08-159HC (PWB).
Ref wellpath is Brant LE 08-159HC (PWP#1).
Coordinates are in Feet reference N04 - Brant LE 08-159HC.
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.



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

BHL - 23,097 / 7622 MD/TVD, 1975 FNL, 370 FEL Sec 8
Btm Perf - 22,997 / 7622 MD/TVD, 1975 FNL, 470 FEL Sec 8
TPZ - 7990 / 7622 MD/TVD, 1975 FNL, 460 FWL Sec 12

E/2 Sec 11, T1S, R67W | Sec 12, T1S, R67W | Sec 7, T1S, R66W | Sec 8, T1S, R66W

<- 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)

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

9 5/8in Surface Casing
TPZ - 7990 / 7622 MD/TVD, 1975 FNL, 460 FWL Sec 12
5 1/2in Production Casing
Btm Perf - 22,997 / 7622 MD/TVD, 1975 FNL, 470 FEL Sec 8
BHL - 23,097 / 7622 MD/TVD, 1975 FNL, 370 FEL Sec 8

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

Scale 1 cm = 1000 ft

Vertical Section (Feet) ->

Azimuth 88.94 with reference 0.00 N, 0.00 E from N04 - Brant LE 08-159HC

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	6035.00	0.00	53.85	6035.00	S 0.00	W 0.00	0.00	0.00
End of Build	6799.96	22.95	53.85	6779.67	N 89.17	E 122.05	9.84	123.68
End of Hold	7338.65	22.95	53.85	7275.72	N 213.09	E 291.64	0.00	295.54
Target TPZ - ...Sec 12	7990.05	90.00	90.02	7622.00	N 299.46	E 786.07	36.09	791.48
Target Btm Pe... Sec 8	22996.88	90.00	90.02	7622.00	N 294.26	E 15792.90	0.00	15795.64
End of Turn	22997.31	90.00	89.96	7622.00	N 294.26	E 15793.33	42.65	15796.08
T.D. & Target BHL...c 8	23097.49	90.00	89.96	7622.00	N 294.33	E 15893.51	0.00	15896.23