

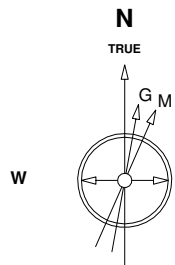
Great Western Operating Company, LLC

Created by admin

Date plotted 24-Aug-2017

Location Colorado **Slot** N12 - Brant LE 08-039HC
Field Wattenburg **Well** Brant LE 08-039HC
Installation Brant **Wellbore** Brant LE 08-039HC (PWB)

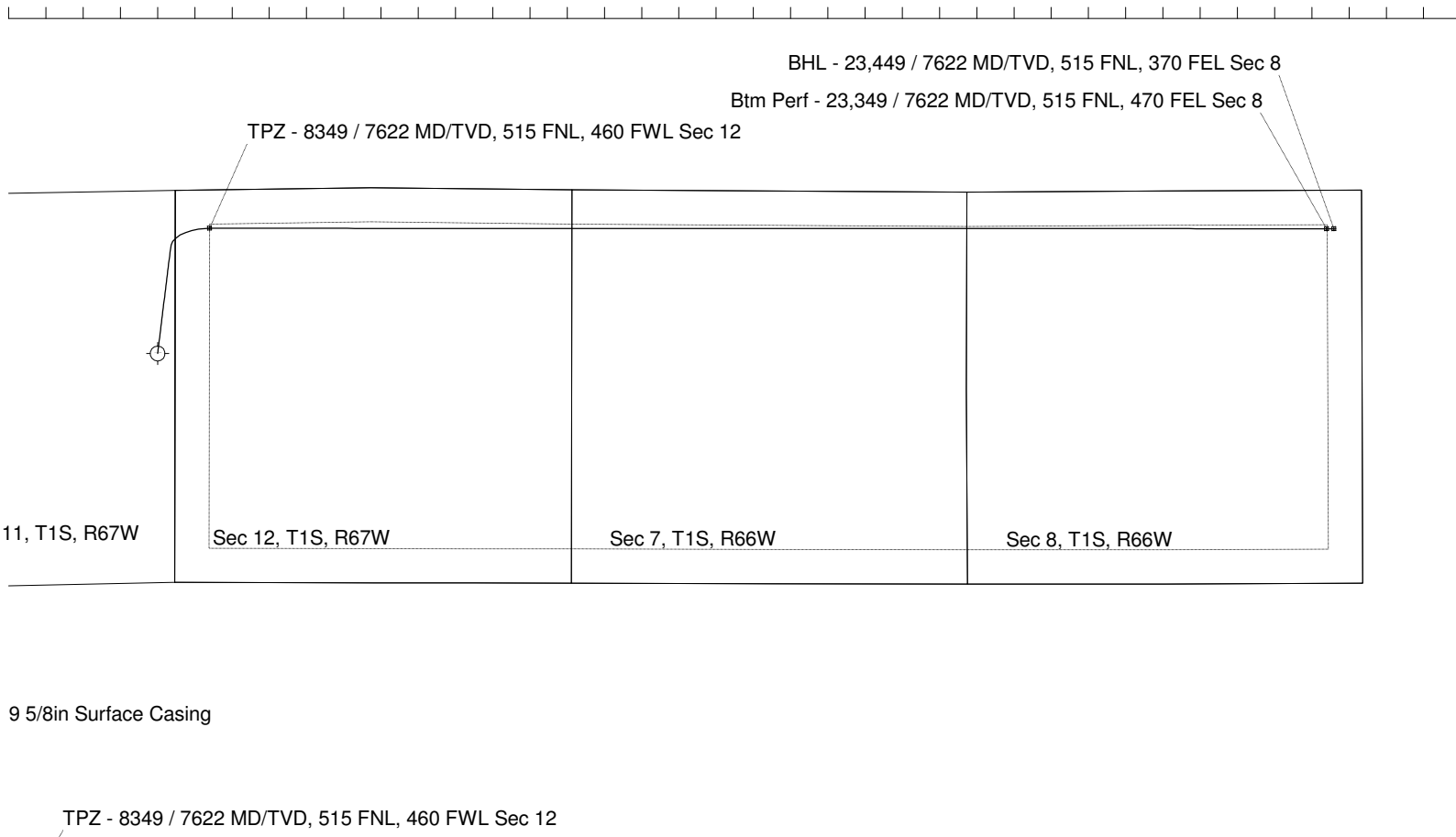
Plot reference is Brant LE 08-039HC (PWB).
 Ref wellpath is Brant LE 08-039HC (PWP#1).
 Coordinates are in Feet reference N12 - Brant LE 08-039HC.
 True Vertical Depths are reference Rig Datum.
 Measured Depths are reference Rig Datum.
 Rig Datum: Planned Datum #1
 Rig Datum to Mean Sea Level: 4992.00 ft.
 Plot North is aligned to TRUE North.



Scale 1 cm = 500 ft

East (Feet) ->

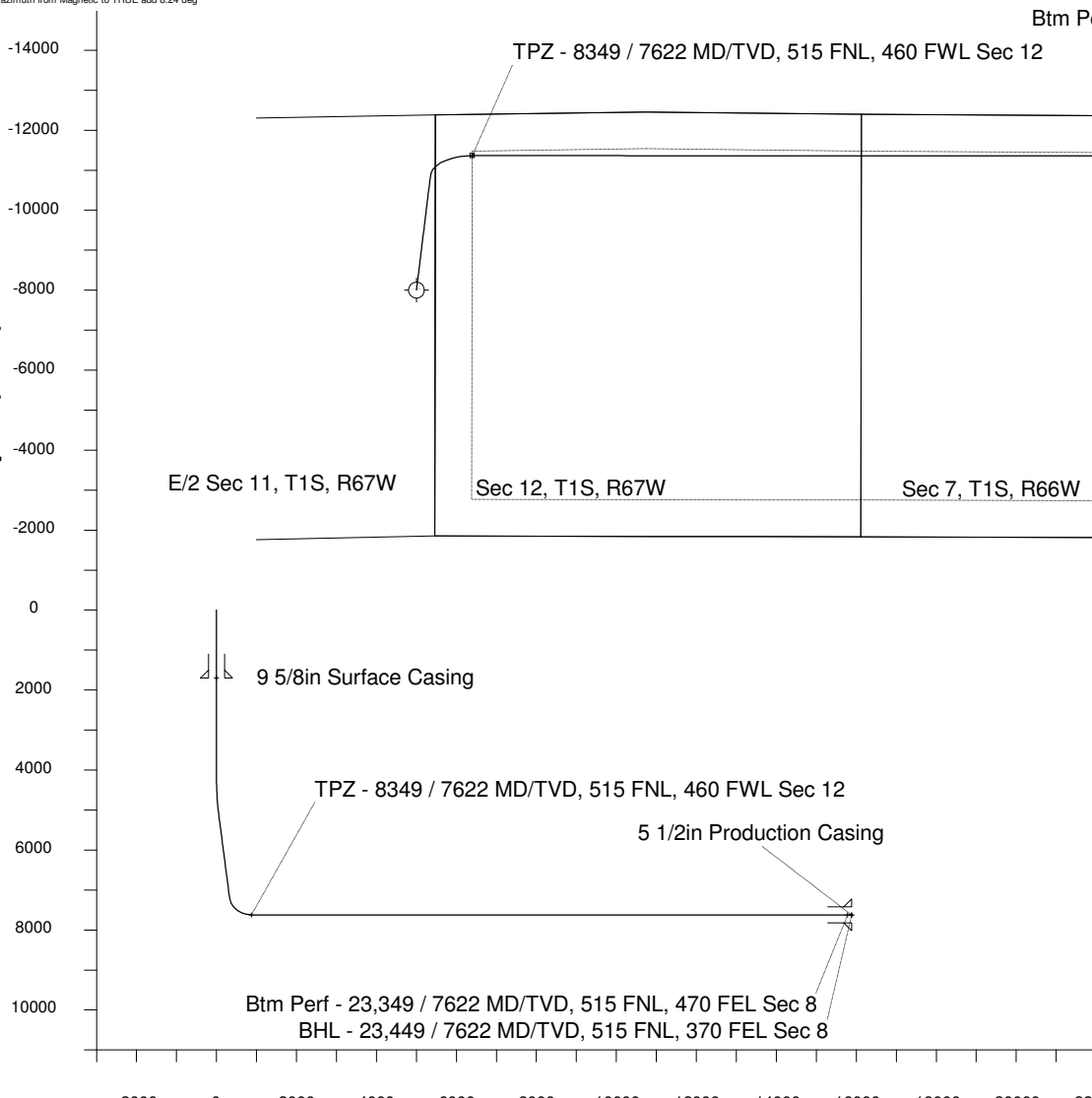
-2000 -1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 11000 12000 13000 14000 15000 16000 17000



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 = 1000 ft

<- True Vertical Depth (Feet)



Scale 1 cm = 1000 ft

Vertical Section (Feet) ->

Azimuth 83.94 with reference 0.00 N, 0.00 E from N12 - Brant LE 08-039HC

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	4175.00	0.00	7.01	4175.00	S 0.00	W 0.00	0.00	0.00
End of Build	5175.05	30.00	7.01	5129.97	N 253.98	E 31.23	9.84	57.86
End of Hold	7562.55	30.00	7.01	7197.58	N 1438.87	E 176.92	0.00	327.81
Target TPZ - ...Sec 12	8349.02	90.00	90.02	7622.00	N 1681.92	E 696.91	36.09	870.55
Target Btm Pe... Sec 8	23348.53	90.00	90.02	7622.00	N 1676.66	E 15696.42	0.00	15785.71
End of Turn	23348.96	90.00	89.96	7622.00	N 1676.66	E 15696.85	42.65	15786.14
T.D. & Target BHL...c 8	23449.13	90.00	89.96	7622.00	N 1676.73	E 15797.02	0.00	15885.75