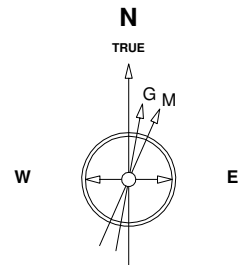


# Great Western Operating Company, LLC

**Location** Colorado  
**Field** Wattenburg  
**Installation** Ottesen  
**Slot** S22 - Ottesen LE 06-090HC  
**Well** Ottesen LE 06-090HC  
**Wellbore** Ottesen LE 06-090HC (PWB)

Created by admin  
Date plotted 28-Dec-2017  
Plot reference is Ottesen LE 06-090HC (PWB).  
Ref wellpath is Ottesen LE 06-090HC (PWP#1).  
Coordinates are in Feet reference S22 - Ottesen LE 06-090HC.  
True Vertical Depths are reference Rig Datum.  
Measured Depths are reference Rig Datum.  
Rig Datum: Planned Datum #1  
Rig Datum to Mean Sea Level: 5093.60 ft.  
Plot North is aligned to TRUE North.



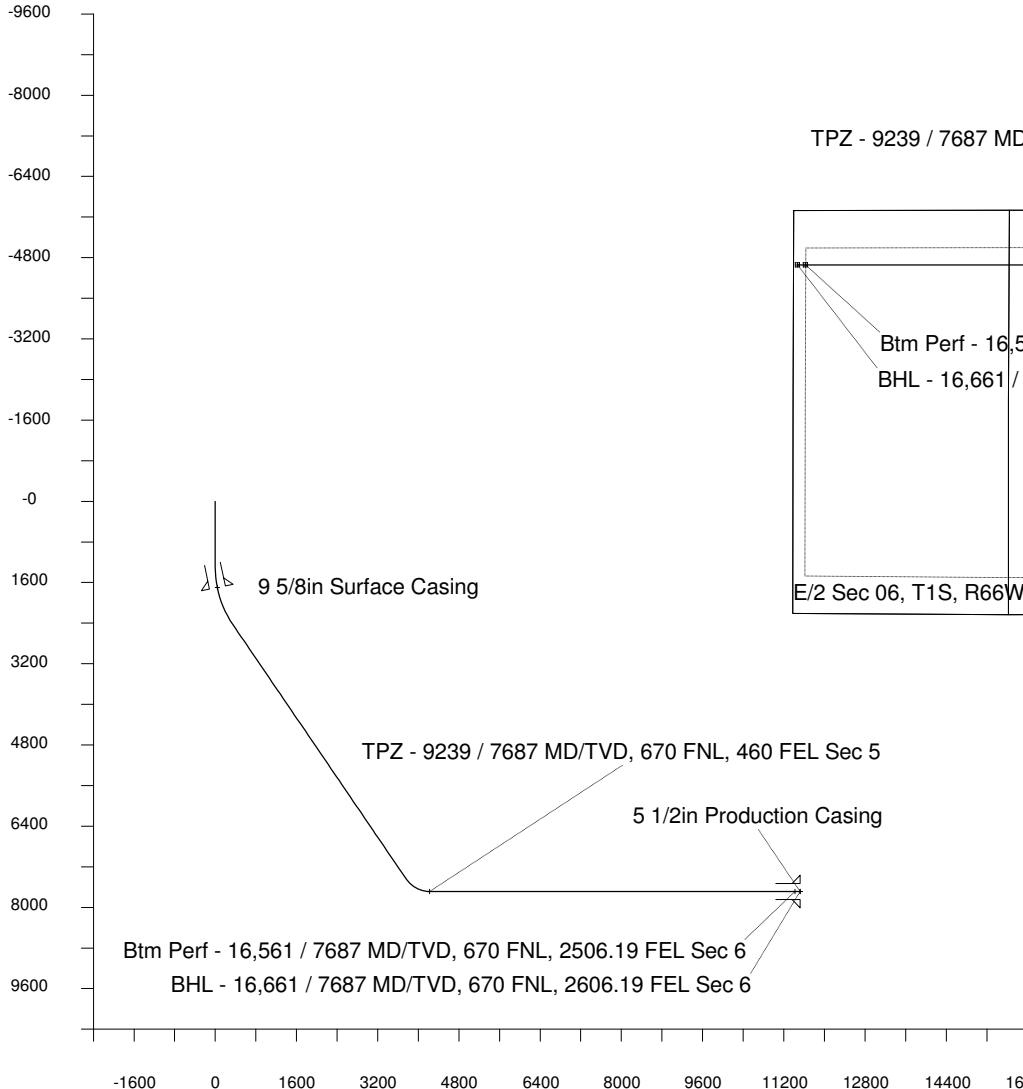
Scale 1 cm = 500 ft

East (Feet) ->

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

8-Aug-2016  
IGRF Model [1900.0-2020.0] Dip: 66.56 deg Field: 52280.9 nT  
Lat: N40 0 16.5600 Long: W104 46 43.1184 Elev: 5073.60 ft  
Magnetic North is 8.28 deg East of TRUE North  
To correct azimuth from Magnetic to TRUE add 8.28 deg

Scale 1 cm = 800 ft  
True Vertical Depth (Feet)



Scale 1 cm = 800 ft

Vertical Section (Feet) ->

Azimuth 259.55 with reference 0.00 N, 0.00 E from S22 - Ottesen LE 06-090HC

TPZ - 9239 / 7687 MD/TVD, 670 FNL, 460 FEL Sec 5

S/2 Sec 33, T1N, R66W

Btm Perf - 16,561 / 7687 MD/TVD, 670 FNL, 2506.19 FEL Sec 6

BHL - 16,661 / 7687 MD/TVD, 670 FNL, 2606.19 FEL Sec 6

E/2 Sec 06, T1S, R66W

Sec 05, T1S, R66W

Sec 04, T1S, R66W

North(Feet)

Scale 1 cm = 500 ft

## 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	1300.00	0.00	239.99	1300.00	S 0.00	W 0.00	0.00	-0.00
End of Build	2495.21	35.86	239.99	2418.71	S 181.00	W 313.43	9.84	341.06
End of Hold	8697.60	35.86	239.99	7445.68	S 1997.83	W 3459.59	0.00	3764.58
Target TPZ - ... Sec 5	9238.57	90.00	269.96	7687.00	S 2085.24	W 3908.36	36.09	4221.76
Target Btm Pe... Sec 6	16560.80	90.00	269.96	7687.00	S 2089.93	W 11230.59	0.00	11423.38
End of Turn	16561.37	90.00	270.03	7687.00	S 2089.93	W 11231.17	36.09	11423.95
T.D. & Target BHL...c 6	16660.82	90.00	270.03	7687.00	S 2089.88	W 11330.61	0.00	11521.74