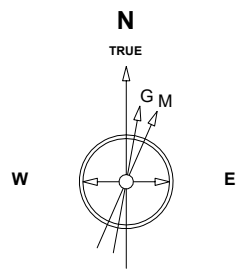


# Great Western Operating Company, LLC

**Location** Colorado      **Slot** W13 - Rio LC 12-372HNX  
**Field** Wattenburg      **Well** Rio LC 12-372HNX  
**Installation** Rio      **Wellbore** Rio LC 12-372HNX (PWB)

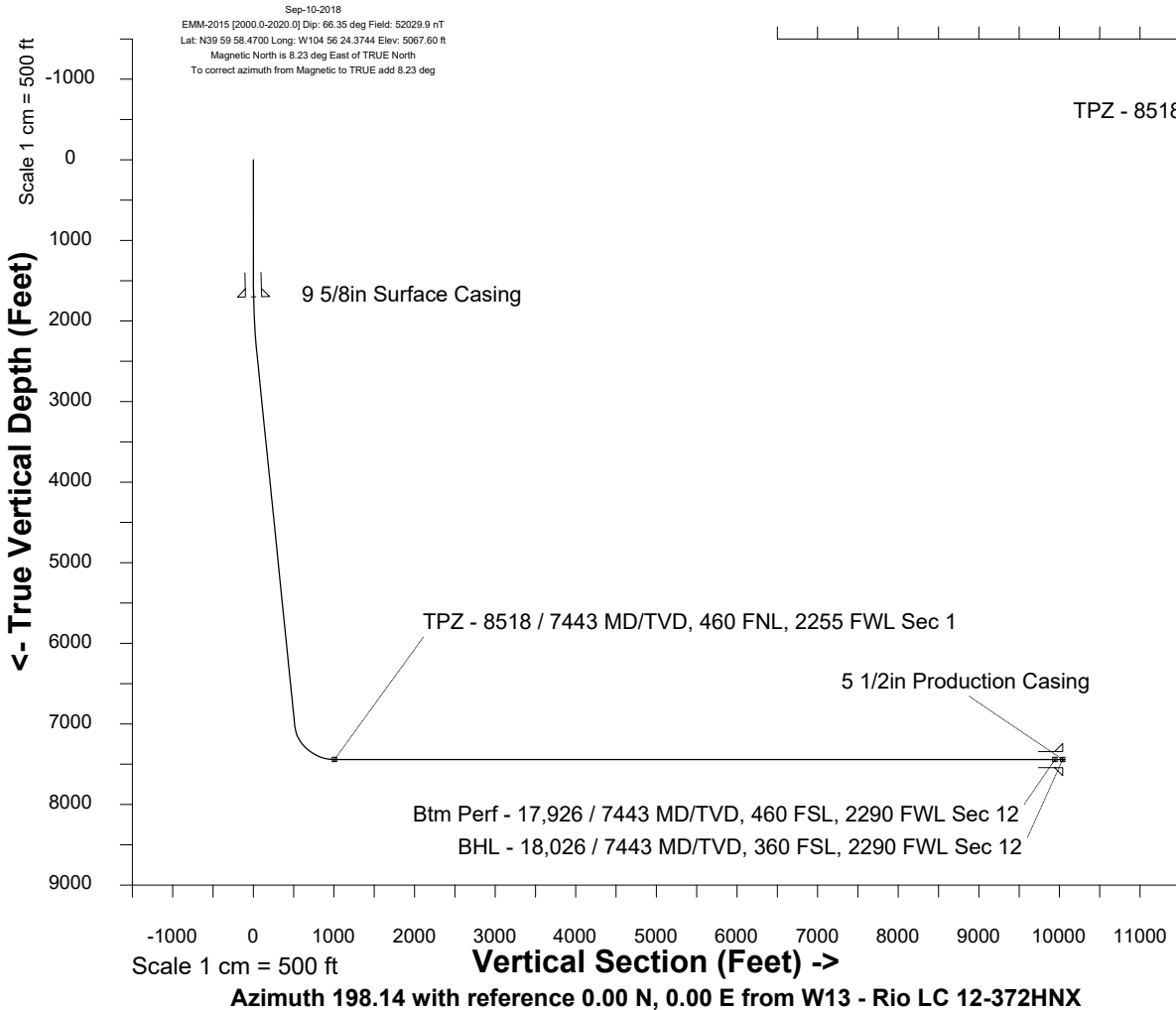
Created by admin  
 Date plotted 11-Sep-2018

Plot reference is Rio LC 12-372HNX (PWB).  
 Ref wellpath is Rio LC 12-372HNX (PWP#1).  
 Coordinates are in Feet reference W13 - Rio LC 12-372HNX.  
 True Vertical Depths are reference Rig Datum.  
 Measured Depths are reference Rig Datum.  
 Rig Datum: Planned Datum #1  
 Rig Datum to Mean Sea Level: 5087.60 ft.  
 Plot North is aligned to TRUE North.



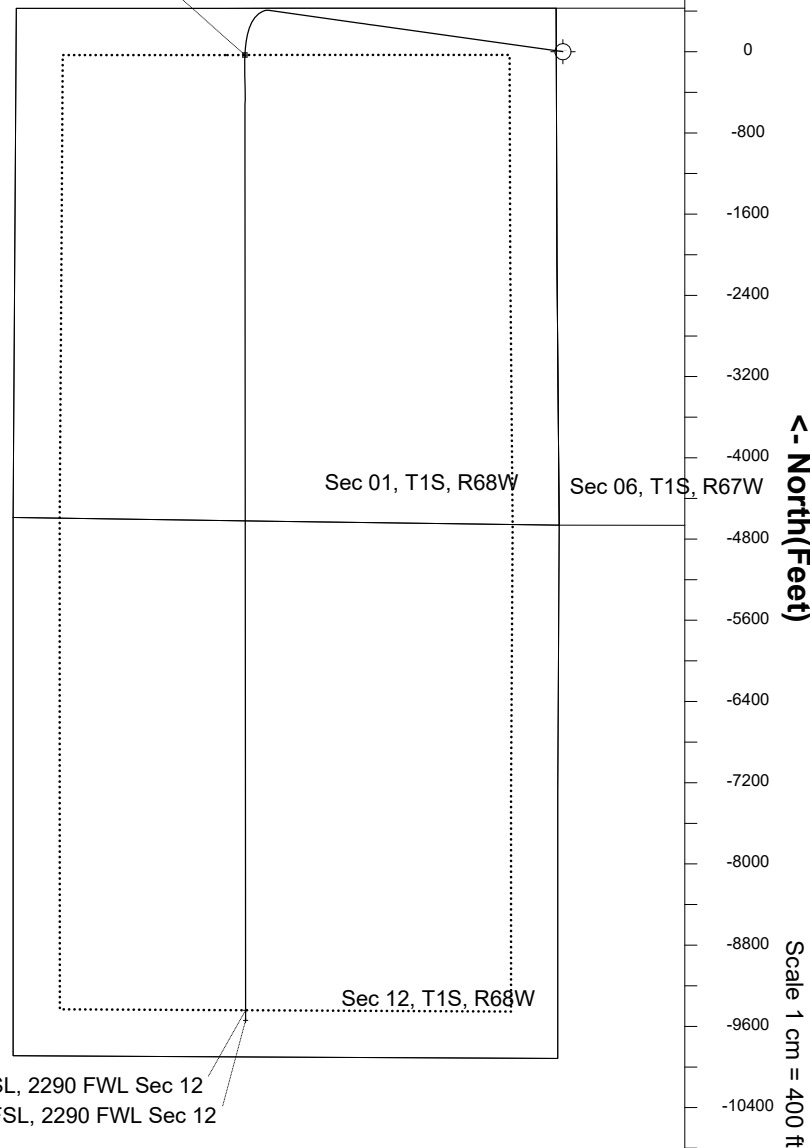
Scale 1 cm = 400 ft      **East (Feet) ->**

-9600   -8800   -8000   -7200   -6400   -5600   -4800   -4000   -3200   -2400   -1600   -800   0   800



Sep-10-2018  
 EMM-2015 [2000-0-2020 0] Dip: 66.35 deg Field: 52029.9 nT  
 Lat: N39 59 58.4700 Long: W104 56 24.3744 Elev: 5067.60 ft  
 Magnetic North is 8.23 deg East of TRUE North  
 To correct azimuth from Magnetic to TRUE add 8.23 deg

TPZ - 8518 / 7443 MD/TVD, 460 FNL, 2255 FWL Sec 1



Btm Perf - 17,926 / 7443 MD/TVD, 460 FSL, 2290 FWL Sec 12  
 BHL - 18,026 / 7443 MD/TVD, 360 FSL, 2290 FWL Sec 12

## 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	1454.00	0.00	278.00	1454.00	S 0.00	W 0.00	0.00	-0.00
End of Build	2454.13	30.00	278.00	2409.04	N 35.61	W 253.45	3.00	45.07
End of Hold	7794.39	30.00	278.00	7033.66	N 407.21	W 2897.92	0.00	515.37
Target TPZ - ... Sec 1	8517.52	90.00	179.97	7443.00	S 32.59	W 3131.71	13.00	1006.10
Target Btm Pe...Sec 12	17925.58	90.00	179.97	7443.00	S 9440.65	W 3126.17	0.00	9944.74
End of Turn	17925.89	90.00	180.01	7443.00	S 9440.96	W 3126.17	13.00	9945.04
T.D. & Target BHL... 12	18025.76	90.00	180.01	7443.00	S 9540.83	W 3126.18	0.00	10039.94