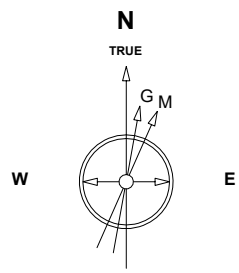


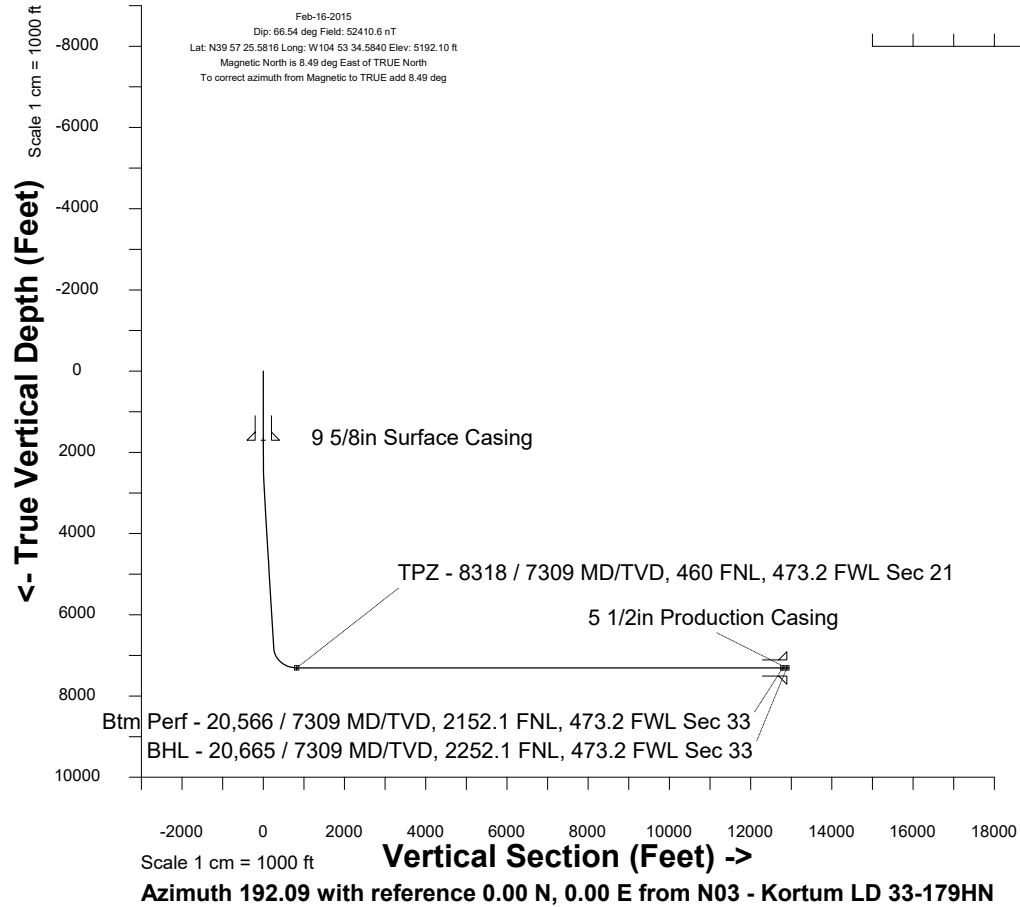
# Great Western Operating Company, LLC

**Location** Colorado      **Slot** N03 - Kortum LD 33-179HN  
**Field** Wattenburg      **Well** Kortum LD 33-179HN  
**Installation** Kortum      **Wellbore** Kortum LD 33-179HN (PWB)

Created by admin  
 Date plotted 24-Aug-2018  
 Plot reference is Kortum LD 33-179HN (PWB).  
 Ref wellpath is Kortum LD 33-179HN (PWP#1).  
 Coordinates are in Feet reference N03 - Kortum LD 33-179HN.  
 True Vertical Depths are reference Rig Datum.  
 Measured Depths are reference Rig Datum.  
 Rig Datum: Planned Datum #1  
 Rig Datum to Mean Sea Level: 5211.70 ft.  
 Plot North is aligned to TRUE North.



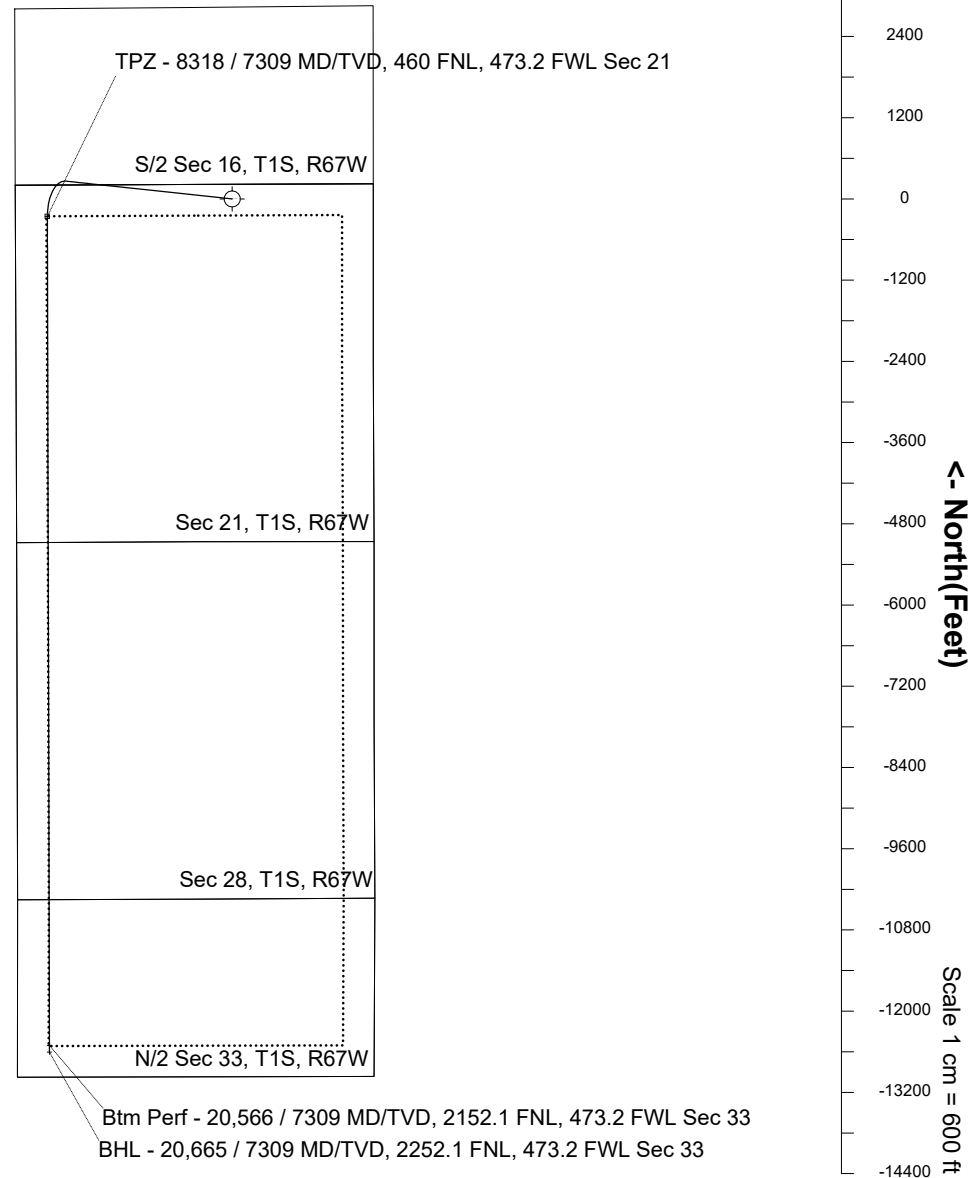
Feb-16-2015  
 Dip: 66.54 deg Field: 52410.6 nT  
 Lat: N39 57 25.5816 Long: W104 53 34.5840 Elev: 5192.10 ft  
 Magnetic North is 8.49 deg East of TRUE North  
 To correct azimuth from Magnetic to TRUE add 8.49 deg



Scale 1 cm = 600 ft

East (Feet) ->

-6000 -4800 -3600 -2400 -1200 -0 1200 2400 3600 4800 6000 7200 8400



## 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	2038.00	0.00	276.11	2038.00	S 0.00	W 0.00	0.00	-0.00
End of Build	3038.09	30.00	276.11	2993.01	N 27.22	W 254.47	3.00	26.67
End of Hold	7471.39	30.00	276.11	6832.25	N 263.03	W 2458.72	0.00	257.72
Target TPZ - ...Sec 21	8317.95	90.00	179.85	7308.60	S 257.76	W 2730.81	11.00	823.95
Target Btm Pe...Sec 33	20565.94	90.00	179.85	7308.60	S 12505.71	W 2699.62	0.00	12793.76
End of Turn	20567.33	90.00	180.01	7308.60	S 12507.10	W 2699.62	11.00	12795.12
T.D. & Target BHL... 33	20665.03	90.00	180.01	7308.60	S 12604.80	W 2699.63	0.00	12890.65