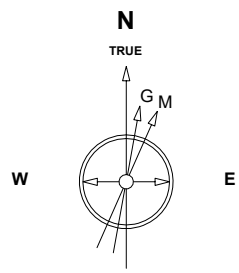


Great Western Operating Company, LLC

Location Colorado **Slot** N07 - Kortum LD 33-176HN
Field Wattenburg **Well** Kortum LD 33-176HN
Installation Kortum **Wellbore** Kortum LD 33-176HN (PWB)

Created by admin
 Date plotted 24-Aug-2018
 Plot reference is Kortum LD 33-176HN (PWB).
 Ref wellpath is Kortum LD 33-176HN (PWP#1).
 Coordinates are in Feet reference N07 - Kortum LD 33-176HN.
 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.

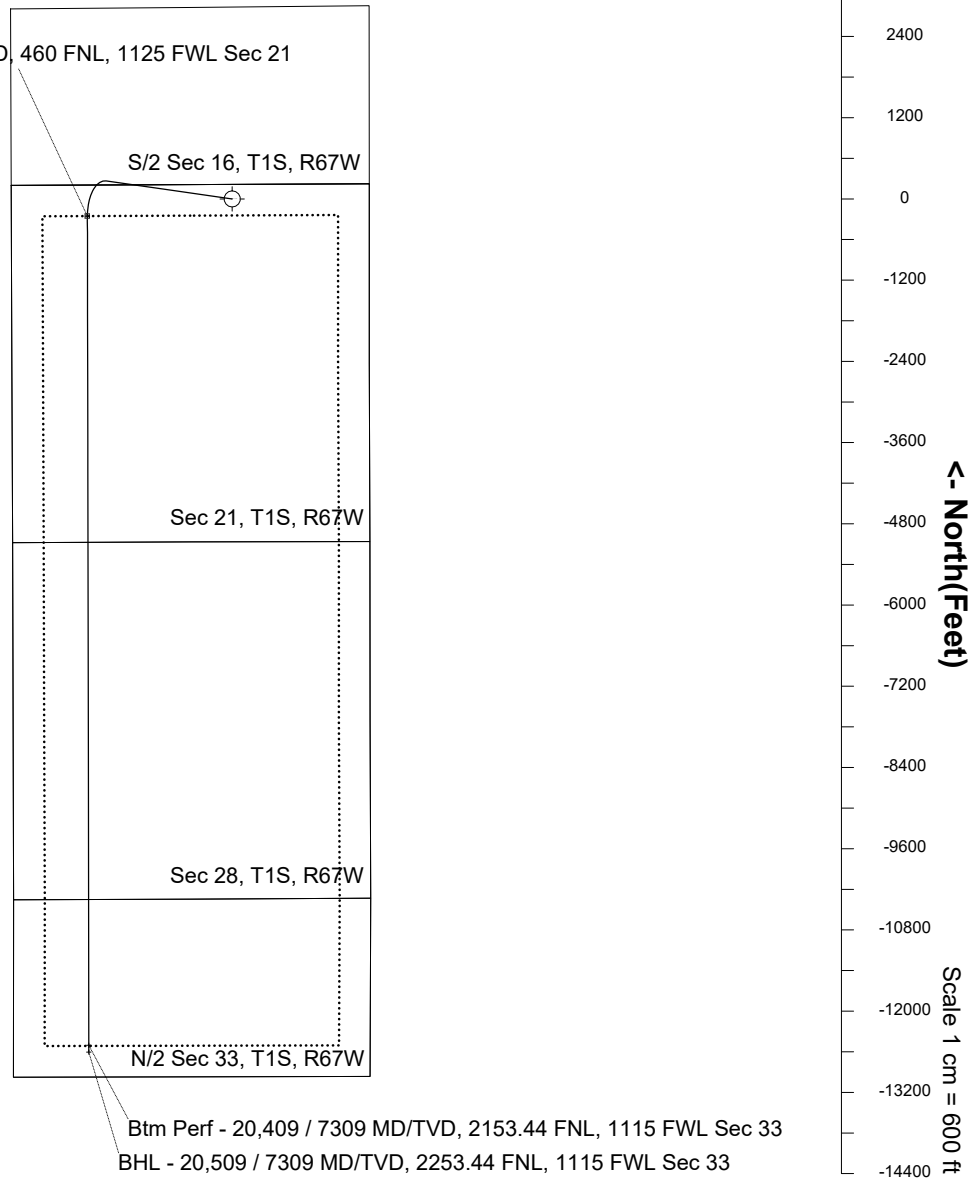
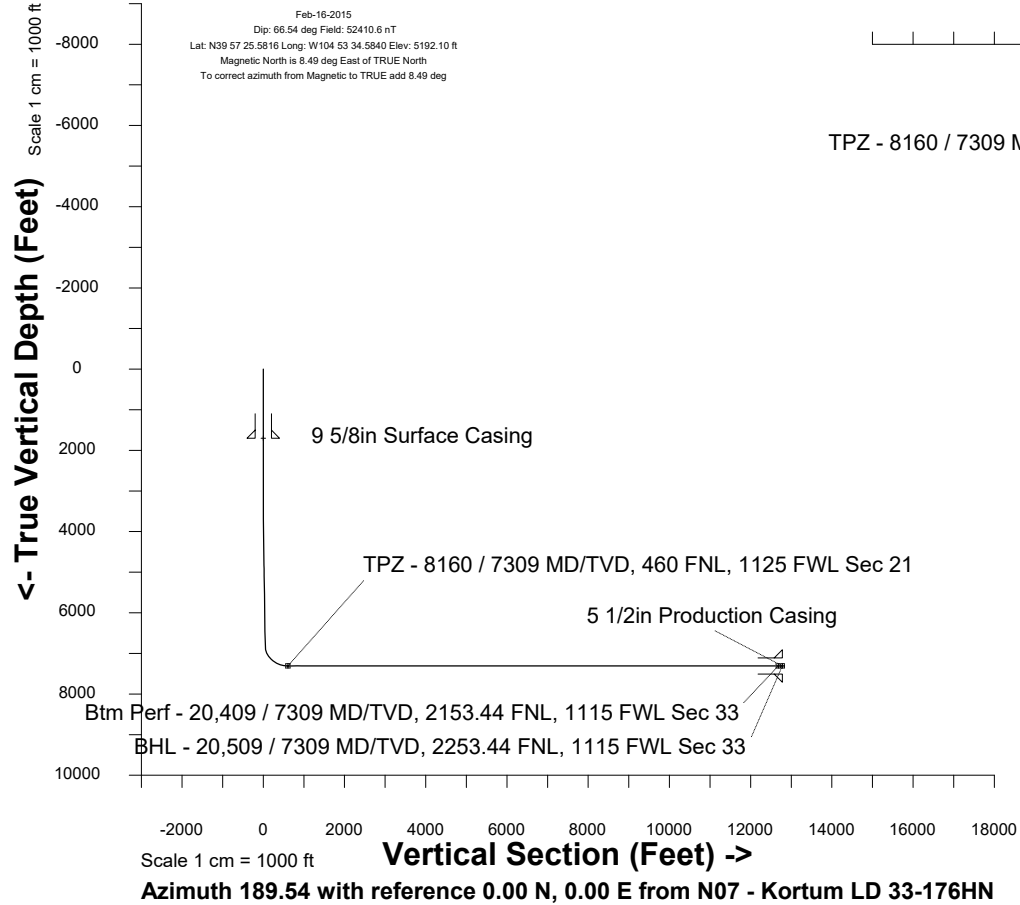


Feb-16-2015
 Dip: 66.54 deg Field: 52410.6 nT
 Lat: N39 57 25.5816 Long: W104 53 34.5840 Elev: 5192.10 ft
 Magnetic North is 8.49 deg East of TRUE North
 To correct azimuth from Magnetic to TRUE add 8.49 deg

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	3053.00	0.00	278.10	3053.00	S 0.00	W 0.00	0.00	-0.00
End of Build	4053.01	30.00	278.10	4007.94	N 36.05	W 253.33	3.00	6.42
End of Hold	7304.86	30.00	278.10	6824.12	N 265.12	W 1863.05	0.00	47.23
Target TPZ - ...Sec 21	8160.22	90.00	179.90	7308.60	S 254.91	W 2139.01	11.00	605.79
Target Btm Pe...Sec 33	20409.28	90.00	179.90	7308.60	S 12503.95	W 2117.63	0.00	12681.98
End of Turn	20410.24	90.00	180.01	7308.60	S 12504.90	W 2117.62	11.00	12682.93
T.D. & Target BHL... 33	20509.45	90.00	180.01	7308.60	S 12604.12	W 2117.63	0.00	12780.78