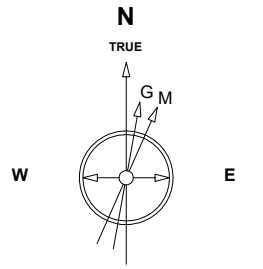
Great Western Operating Company, LLC

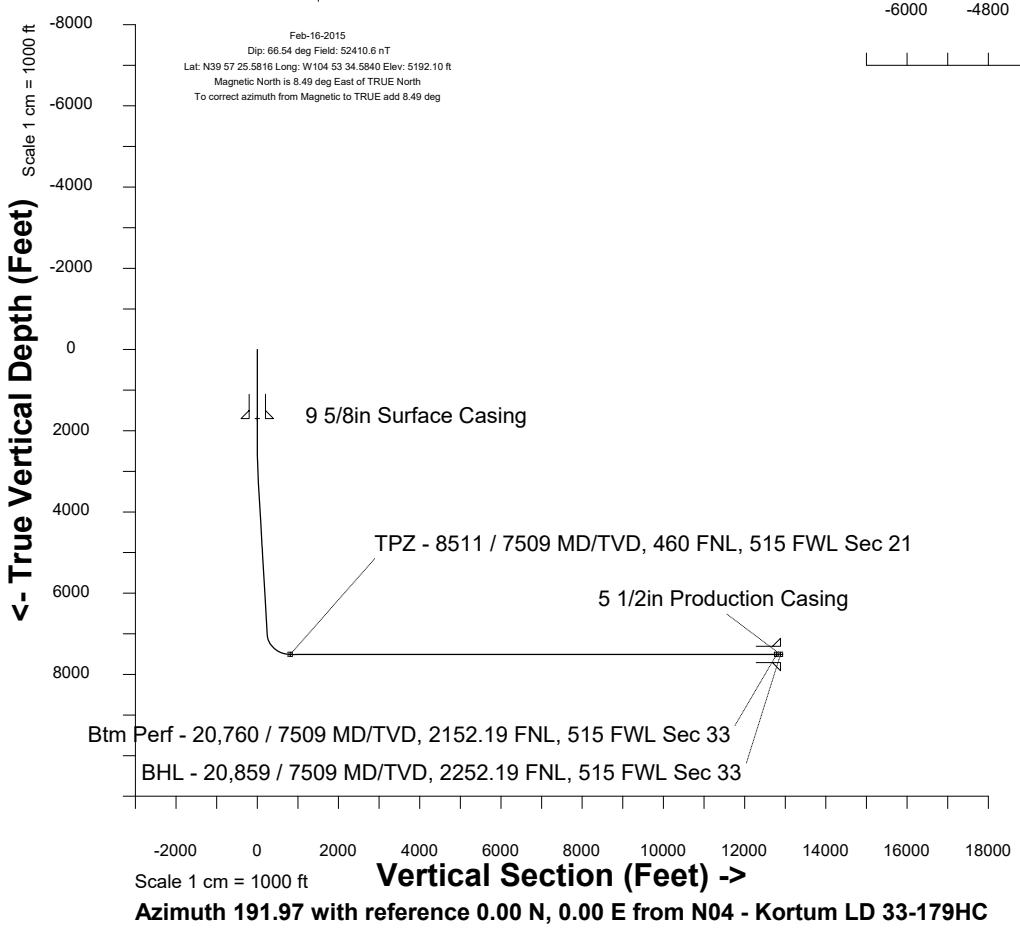
Location	Colorado	**Slot**	N04 - Kortum LD 33-179HC
Field	Wattenburg	**Well**	Kortum LD 33-179HC
Installation	Kortum	**Wellbore**	Kortum LD 33-179HC (PWB)

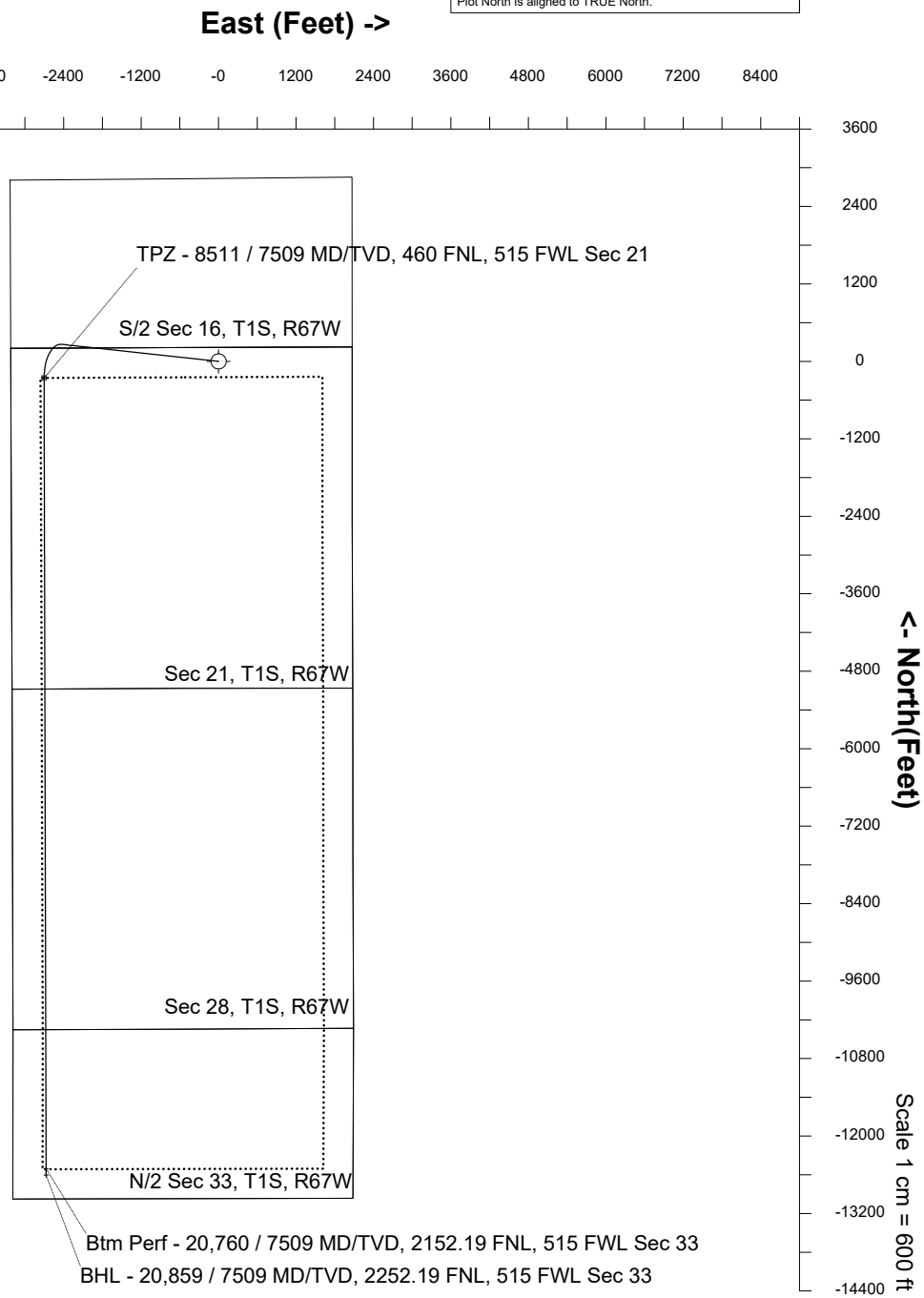
Created by admin
Date plotted 24-Aug-2018

Plot reference is Kortum LD 33-179HC (PWB).
Ref wellpath is Kortum LD 33-179HC (PWP#1).
Coordinates are in Feet reference N04 - Kortum LD 33-179HC.
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





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	2284.00	0.00	276.20	2284.00	S 0.00	W 0.00	0.00	-0.00
End of Build	3283.99	30.00	276.20	3238.92	N 27.63	W 254.37	3.00	25.73
End of Hold	7663.68	30.00	276.20	7031.86	N 264.10	W 2431.39	0.00	245.93
Target TPZ - ...Sec 21	8510.66	90.00	179.85	7508.60	S 256.67	W 2703.62	11.00	811.84
Target Btm Pe...Sec 33	20759.74	90.00	179.85	7508.60	S 12505.71	W 2672.42	0.00	12788.05
End of Turn	20761.13	90.00	180.01	7508.60	S 12507.11	W 2672.41	11.00	12789.41
T.D. & Target BHL... 33	20858.82	90.00	180.01	7508.60	S 12604.80	W 2672.43	0.00	12884.98