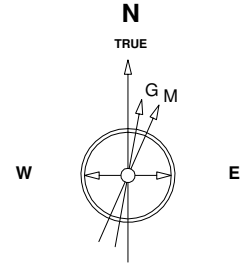


Great Western Operating Company, LLC

Location Colorado
Field Wattenberg
Installation Marcus

Slot Slot W01 - Marcus LD 11-380HN
Well Marcus LD 11-380HN
Wellbore Marcus LD 11-380HN (PWB)

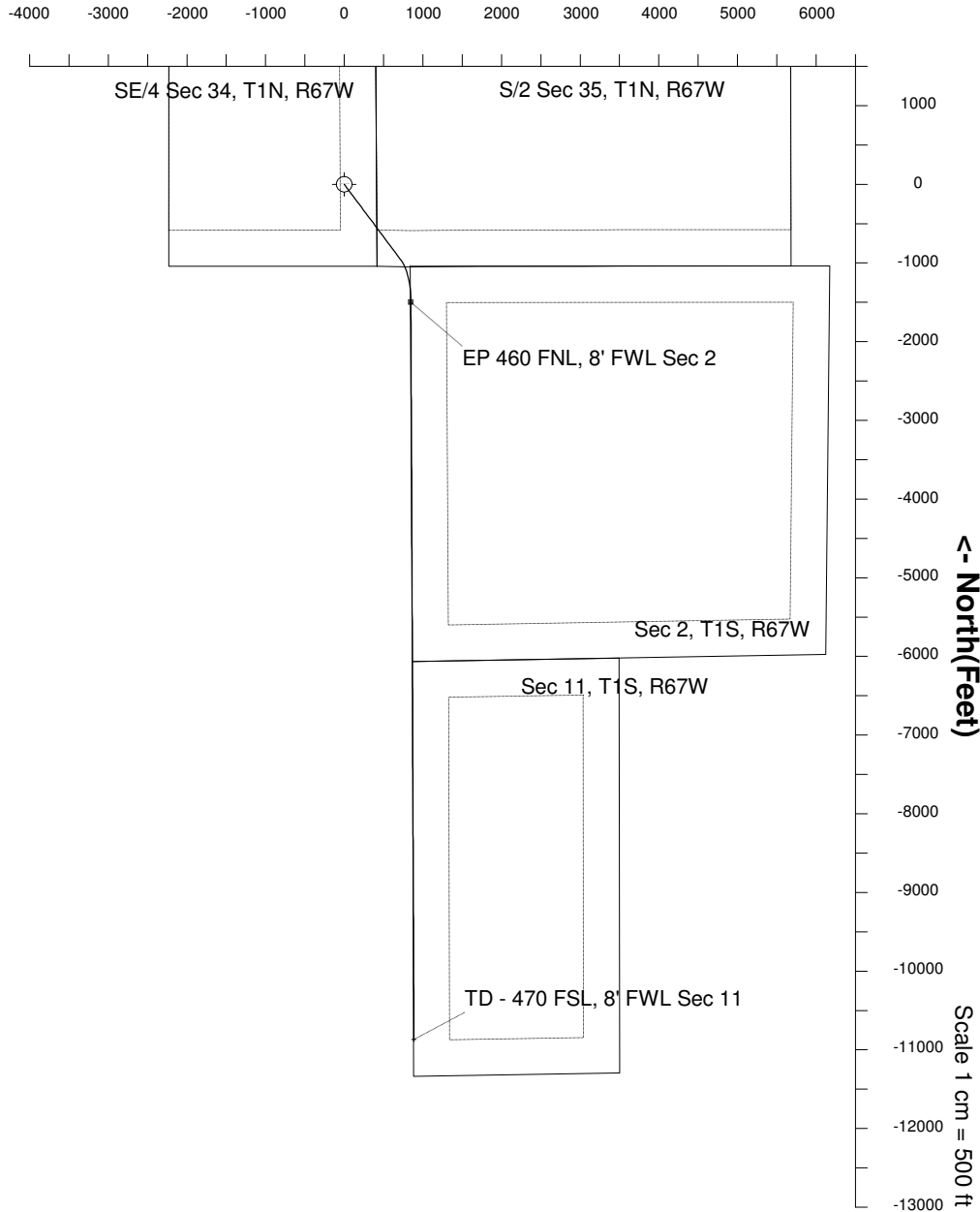
Created by admin
Date plotted 11-Nov-2015
Plot reference is Marcus LD 11-380HN (PWB).
Ref wellpath is Marcus LD 11-380HN (PWP#1).
Coordinates are in Feet reference Slot W01 - Marcus LD 11-380HN.
True Vertical Depths are reference Rig Datum.
Measured Depths are reference Rig Datum.
Rig Datum: Planned Datum #1
Rig Datum to Mean Sea Level: 5058.20 ft.
Plot North is aligned to TRUE North.



13-Dec-2014
IGRF Model [1900.0-2020.0] Dip: 66.58 deg Field: 52459.7 nT
Lat: N40 0 11.6388 Long: W104 52 6.9096 Elev: 5042.00 ft
Magnetic North is 8.50 deg East of TRUE North
To correct azimuth from Magnetic to TRUE add 8.50 deg

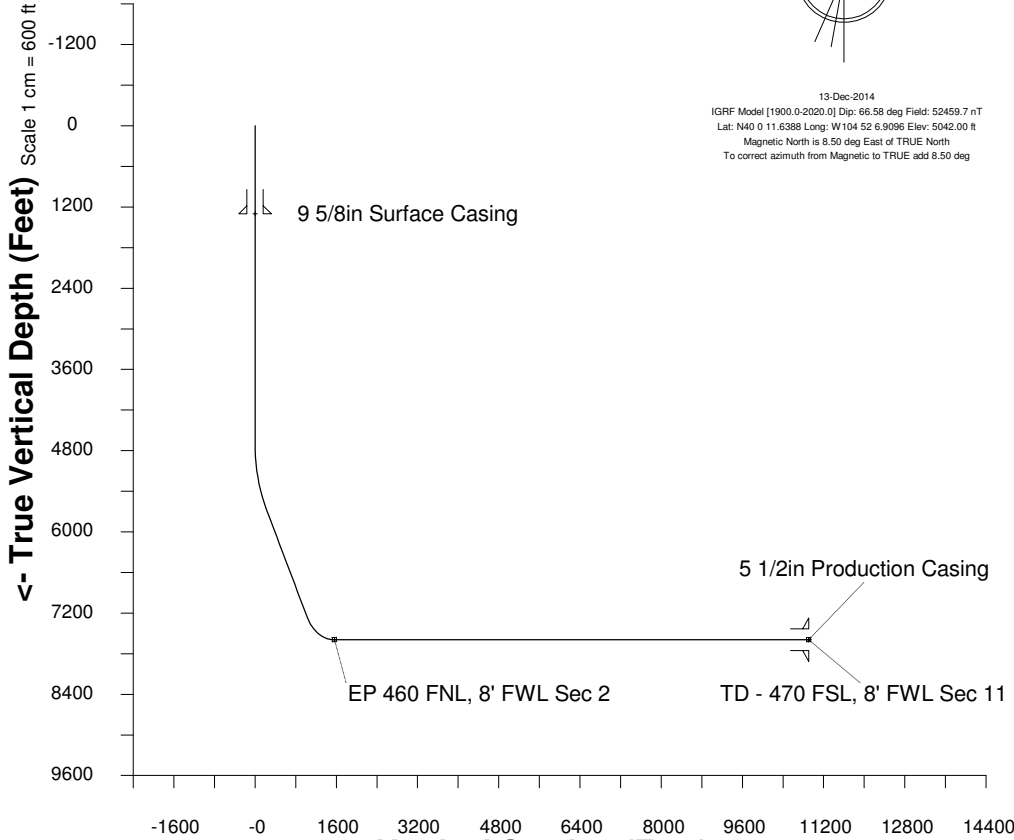
Scale 1 cm = 500 ft

East (Feet) ->



<- True Vertical Depth (Feet)

Scale 1 cm = 600 ft



Vertical Section (Feet) ->

Azimuth 175.34 with reference 0.00 N, 0.00 E from Slot W01 - Marcus LD 11-380HN

WELL PROFILE DATA

Point	MD	Inc	Azi	TVD	North	East	deg/100ft	V. Sect
Tie on	16.20	0.00	0.00	16.20	S 0.00	W 0.00		0.00
KOP	4700.00	0.00	143.19	4700.00	S 0.00	W 0.00	0.00	0.00
End of Build	5726.93	30.81	143.19	5678.16	S 215.78	E 161.47	9.84	228.19
End of Hold	7587.51	30.81	143.19	7276.18	S 978.72	E 732.41	0.00	1035.04
Target EP 460... Sec 2	8244.62	90.00	179.76	7594.00	S 1500.48	E 847.51	32.81	1564.43
T.D. & Target TD ... 11	17613.05	90.00	179.76	7594.00	S 10868.84	E 886.78	0.00	10904.95