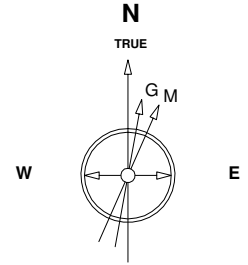


Great Western Operating Company, LLC

Location Colorado
Field Wattenberg
Installation Marcus

Slot Slot W04 - Marcus LD 11-378HN
Well Marcus LD 11-378HN
Wellbore Marcus LD 11-378HN (PWB)

Created by admin
Date plotted 11-Nov-2015
Plot reference is Marcus LD 11-378HN (PWB).
Ref wellpath is Marcus LD 11-378HN (PWP#1).
Coordinates are in Feet reference Slot W04 - Marcus LD 11-378HN.
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.



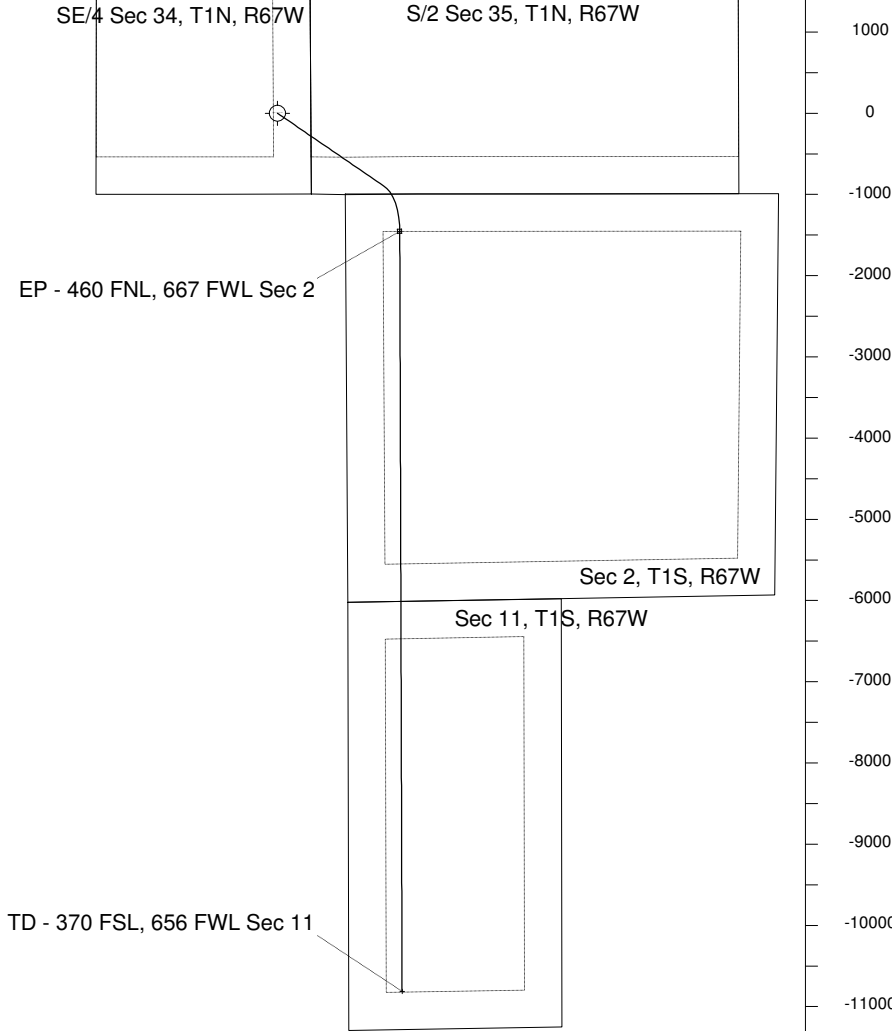
13-Dec-2014
IGRF Model [1900.0-2020.0] Dip: 66.58 deg Field: 52459.7 nT
Lat: N40 0 11.6388 Long: W104 52 6.9096 Elev: 5042.00 ft
Magnetic North is 8.50 deg East of TRUE North
To correct azimuth from Magnetic to TRUE add 8.50 deg

Scale 1 cm = 500 ft

East (Feet) ->

<- North(Feet)

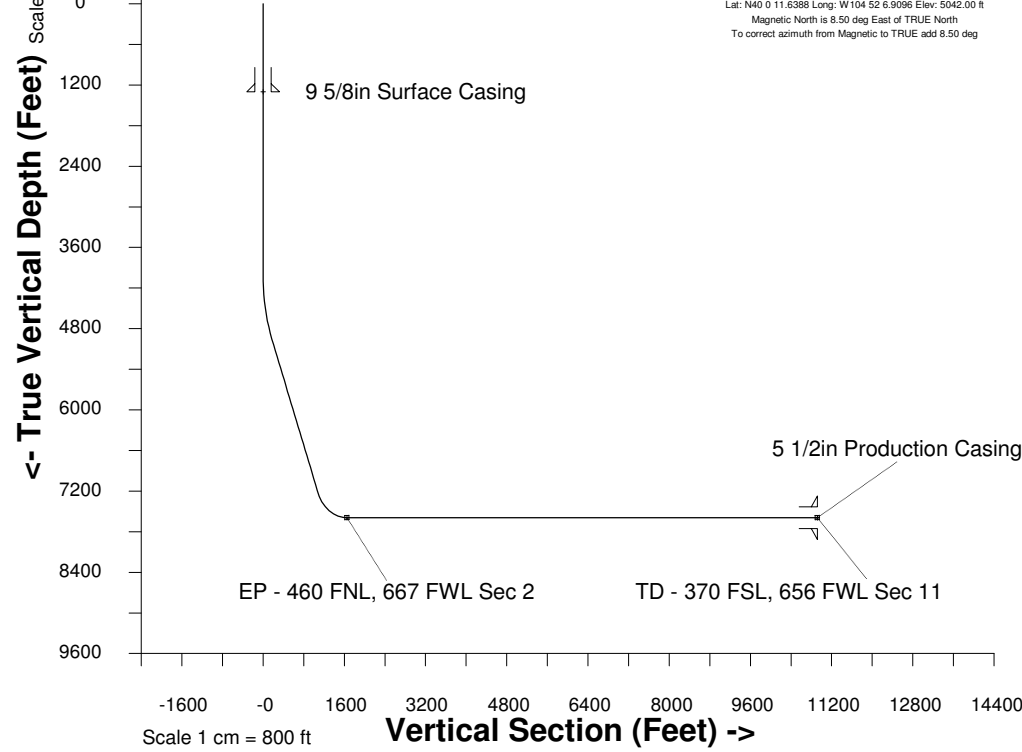
Scale 1 cm = 500 ft



<- True Vertical Depth (Feet)

Scale 1 cm = 600 ft

Azimuth 171.92 with reference 0.00 N, 0.00 E from Slot W04 - Marcus LD 11-378HN



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	4000.00	0.00	124.39	4000.00	S 0.00	W 0.00	0.00	0.00
End of Build	5023.49	30.70	124.39	4975.20	S 151.24	E 220.94	9.84	180.78
End of Hold	7644.08	30.70	124.39	7228.41	S 907.09	E 1325.12	0.00	1084.25
Target EP - 4... Sec 2	8375.67	90.00	179.82	7594.00	S 1454.92	E 1505.57	32.81	1652.01
T.D. & Target TD ... 11	17825.94	90.00	179.82	7594.00	S 10911.98	E 1534.17	0.00	10920.29