

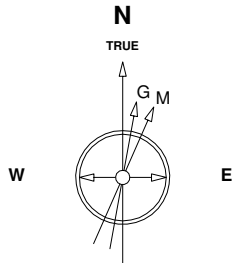
Great Western Operating Company, LLC

Location Colorado
Field Wattenberg
Installation Leffler
Slot Slot 04 - Leffler FE 20-022HN
Well Leffler FE 20-022HN
Wellbore Leffler FE 20-022HN (PWB)

Created by admin

Date plotted 22-May-2015

Plot reference is Leffler FE 20-022HN (PWB).
Ref wellpath is Leffler FE 20-022HN (PWP#1).
Coordinates are in Feet reference Slot 04 - Leffler FE 20-022HN.
True Vertical Depths are reference Rig Datum.
Measured Depths are reference Rig Datum.
Rig Datum: Planned Datum #1
Rig Datum to Mean Sea Level: 4750.80 ft.
Plot North is aligned to TRUE North.

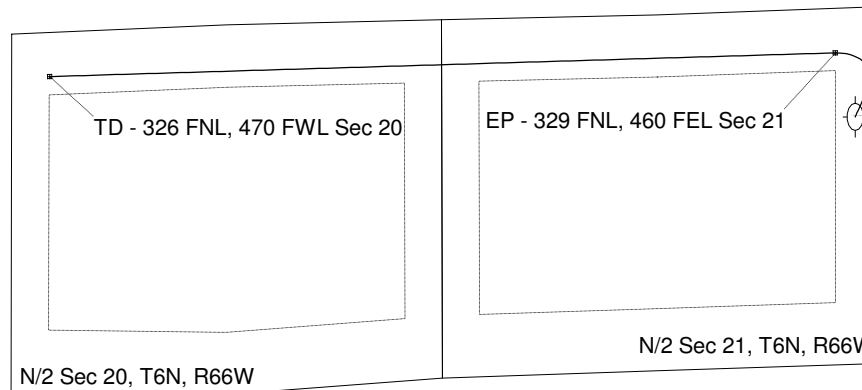
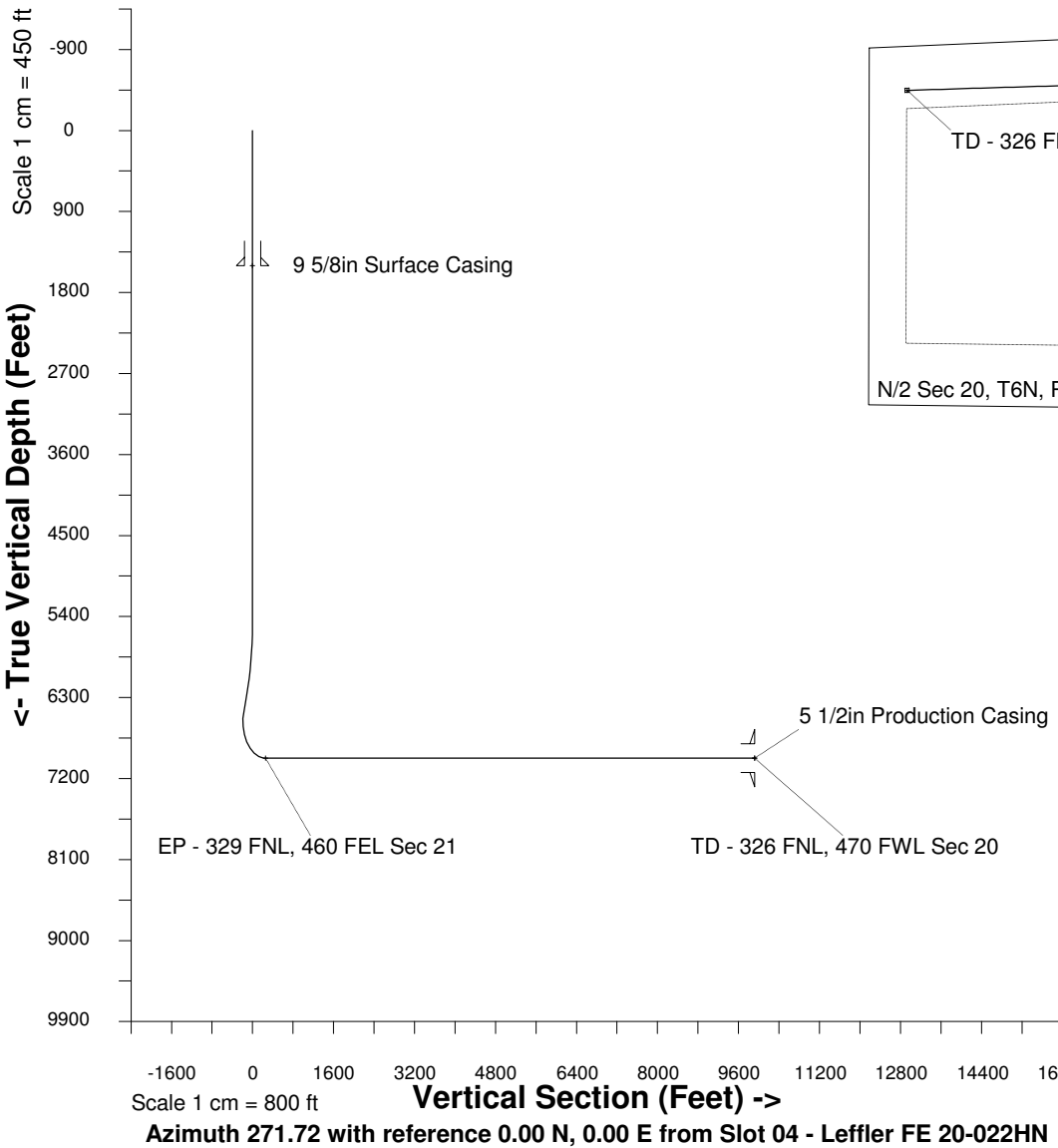


18-May-2015
IGRF Model [1900.0-2020.0] Dip: 66.97 deg Field: 52672.1 nT
Lat: N40 28 44.6304 Long: W104 46 26.8788 Elev: 4750.80 ft
Magnetic North is 8.44 deg East of TRUE North
To correct azimuth from Magnetic to TRUE add 8.44 deg

Scale 1 cm = 500 ft

East (Feet) ->

-11000 -10000 -9000 -8000 -7000 -6000 -5000 -4000 -3000 -2000 -1000 0 1000 2000



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	5430.00	0.00	37.17	5430.00	S 0.00	W 0.00	0.00	0.00
End of Build	6456.81	30.80	37.17	6408.06	N 214.71	E 162.78	9.84	-156.27
End of Hold	6503.88	30.80	37.17	6448.49	N 233.92	E 177.35	0.00	-170.25
Target EP - 3...Sec 21	7338.23	90.00	268.96	6974.00	N 472.52	W 245.09	42.65	259.15
T.D. & Target TD ... 20	17009.25	90.00	268.96	6974.00	N 297.45	W 9914.52	0.00	9918.98