

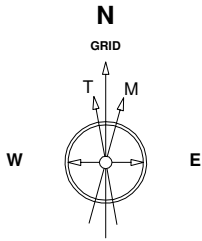
Great Western Operating Company, LLC

Location Colorado
Field Wattenberg
Installation Kortum

Slot Slot W10 - Kortum LD 21-377HC
Well Kortum LD 21-377HC
Wellbore Kortum LD 21-377HC (PWB)

Created by admin
Date plotted 17-Feb-2015

Plot reference is Kortum LD 21-377HC (PWB).
Ref wellpath is Kortum LD 21-377HC (PWP#1).
Coordinates are in Feet reference Slot W10 - Kortum LD 21-377HC.
True Vertical Depths are reference Rig Datum.
Measured Depths are reference Rig Datum.
Rig Datum: Planned Datum #1
Rig Datum to Mean Sea Level: 5208.00 ft.
Plot North is aligned to GRID North.

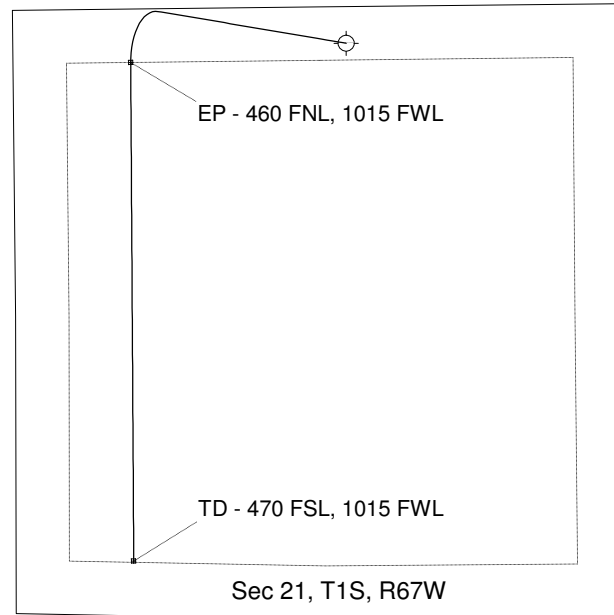
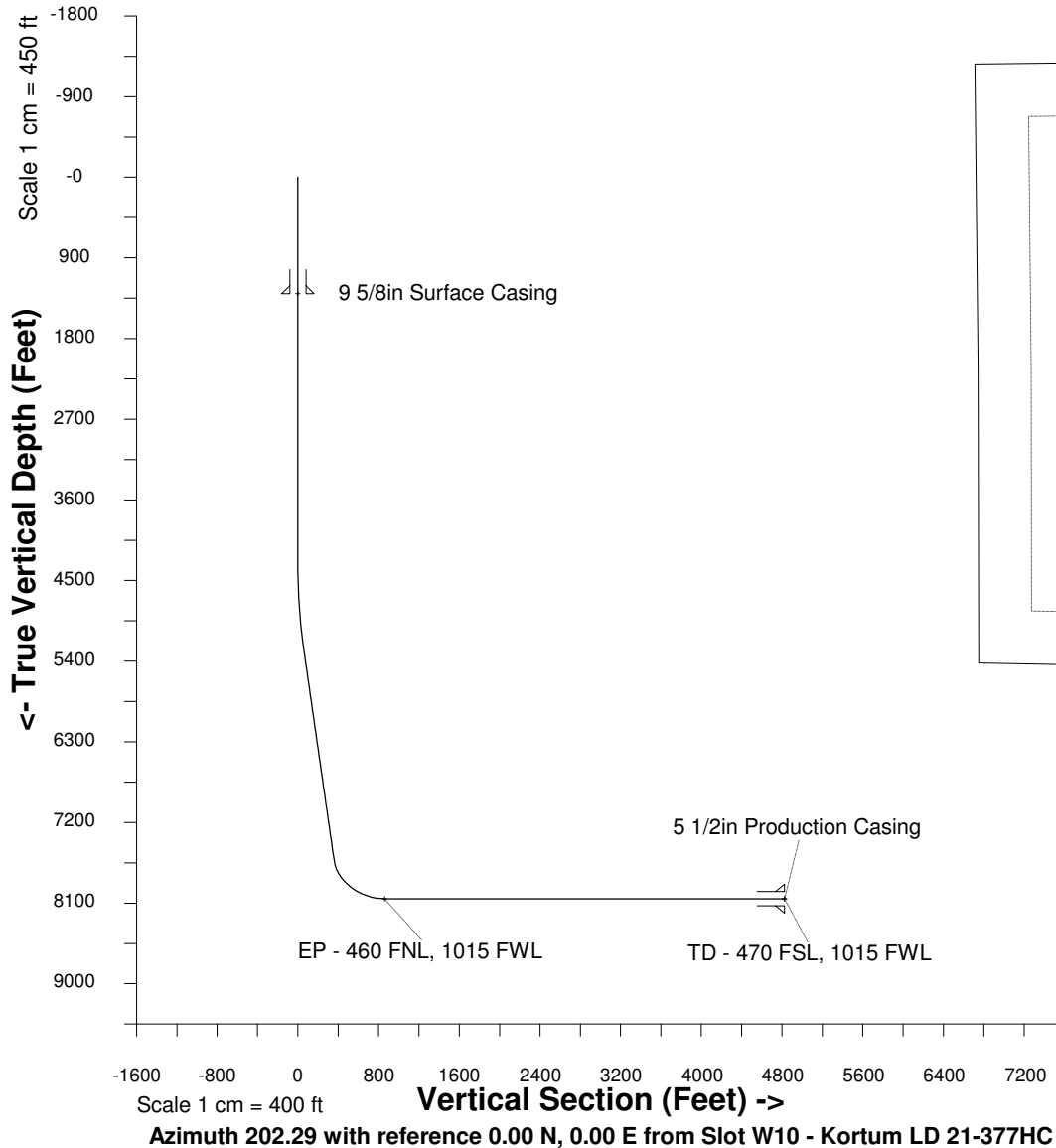


16-Feb-2015
IGRF Model [1900.0-2020.0] Dip: 66.54 deg Field: 52410.6 nT
Lat: N39 57 25.5816 Long: W104 53 34.5840 Elev: 5191.80 ft
Magnetic North is 8.49 deg East of True North
GRID North is 0.39 deg East of True North
To correct azimuth from True to GRID subtract 0.39 deg
To correct azimuth from Magnetic to GRID add 8.09 deg

Scale 1 cm = 350 ft

East (Feet) ->

-4200 -3500 -2800 -2100 -1400 -700 0 700 1400 2100 2800 3500 4200 4900



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	4300.00	0.00	279.59	4300.00	S 0.00	W 0.00	0.00	-0.00
End of Build	5308.26	30.25	279.59	5262.07	N 43.32	W 256.38	9.84	57.16
End of Hold	8054.68	30.25	279.59	7634.59	N 273.78	W 1620.54	0.00	361.30
Target EP - 4...15 FWL	8785.36	90.00	179.65	8050.00	S 166.74	W 1856.45	42.65	858.38
T.D. & Target TD ...FWL	13083.55	90.00	179.65	8050.00	S 4464.84	W 1830.15	0.00	4825.38