

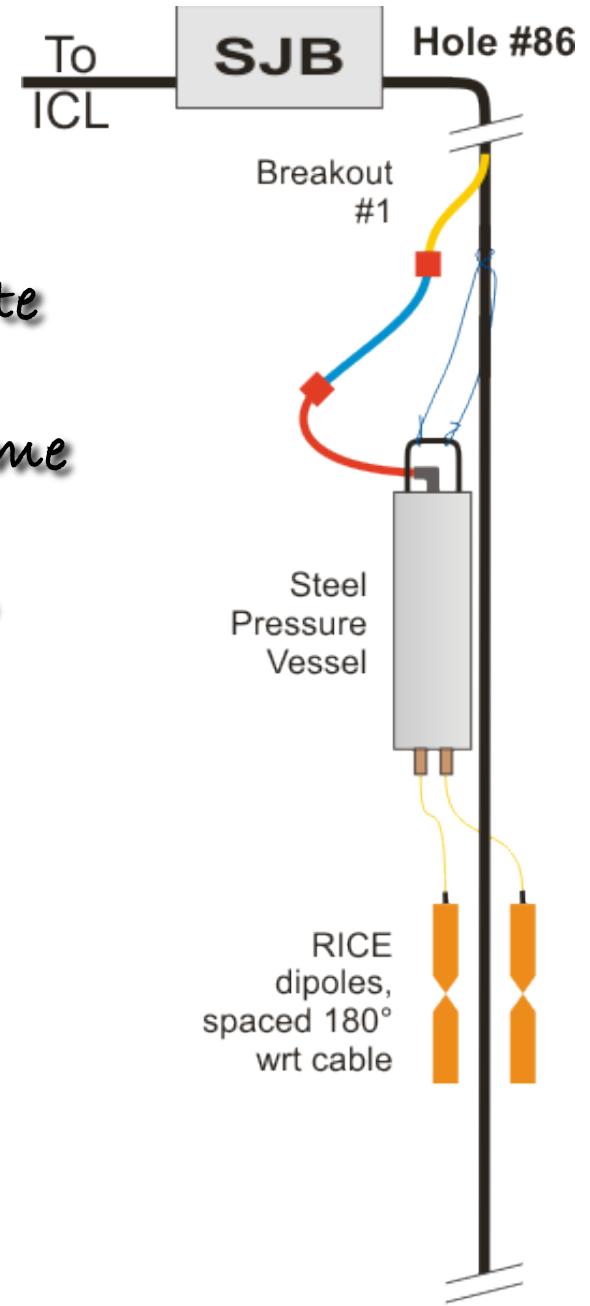
# Update on the (kinda) High Voltage Pulser

Kara Hoffman  
pretending to be Rob  
Bard

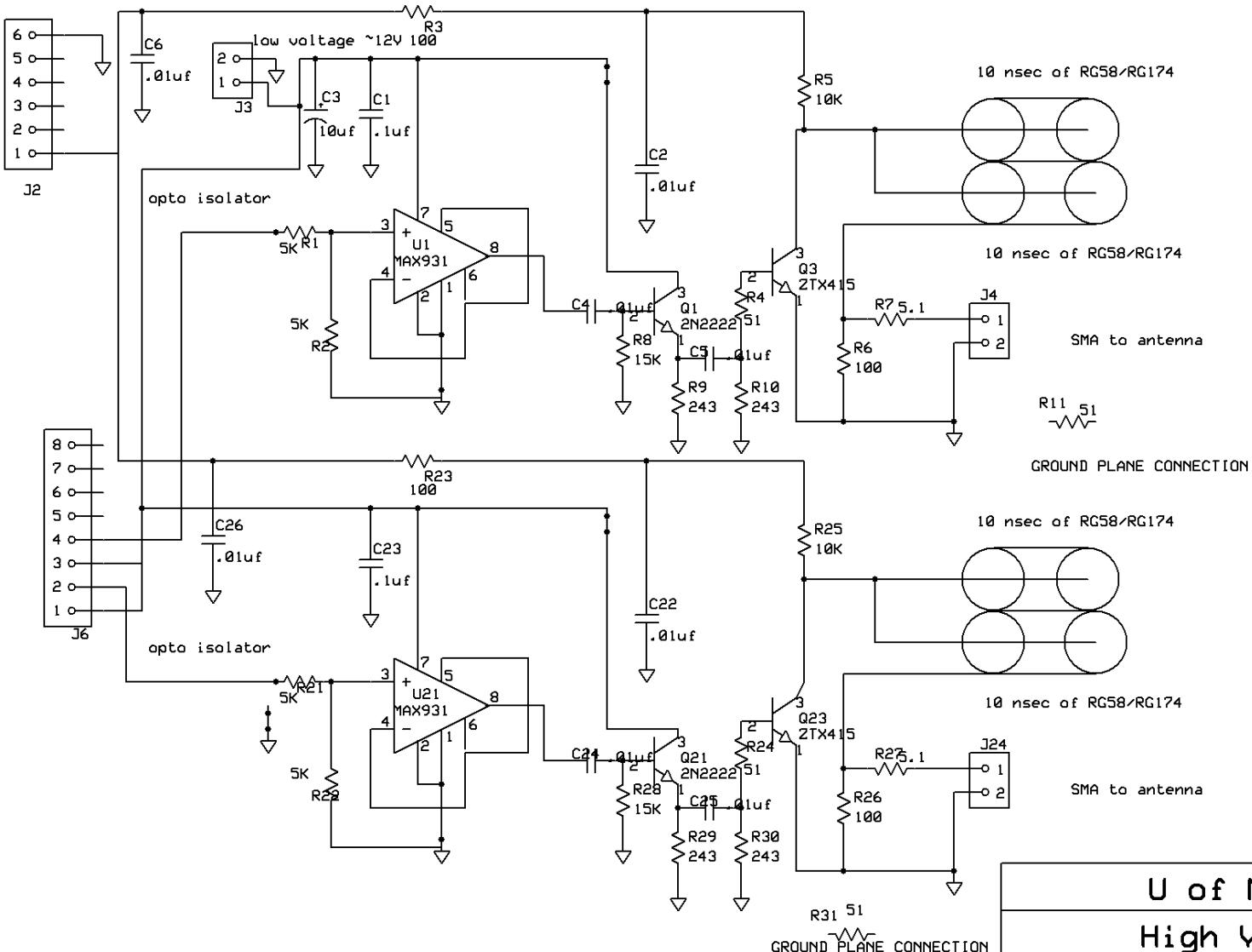


# 2009-2010 Pole season

- Install new pingers (more powerful!), with antenna on either side of the cable to mitigate shadowing effects
- as much voltage as possible and fast rise time (use avalanche transistor)
- need to pulse each antenna individually to ascertain cable shadowing effects
- one antenna of the pair not pulsing



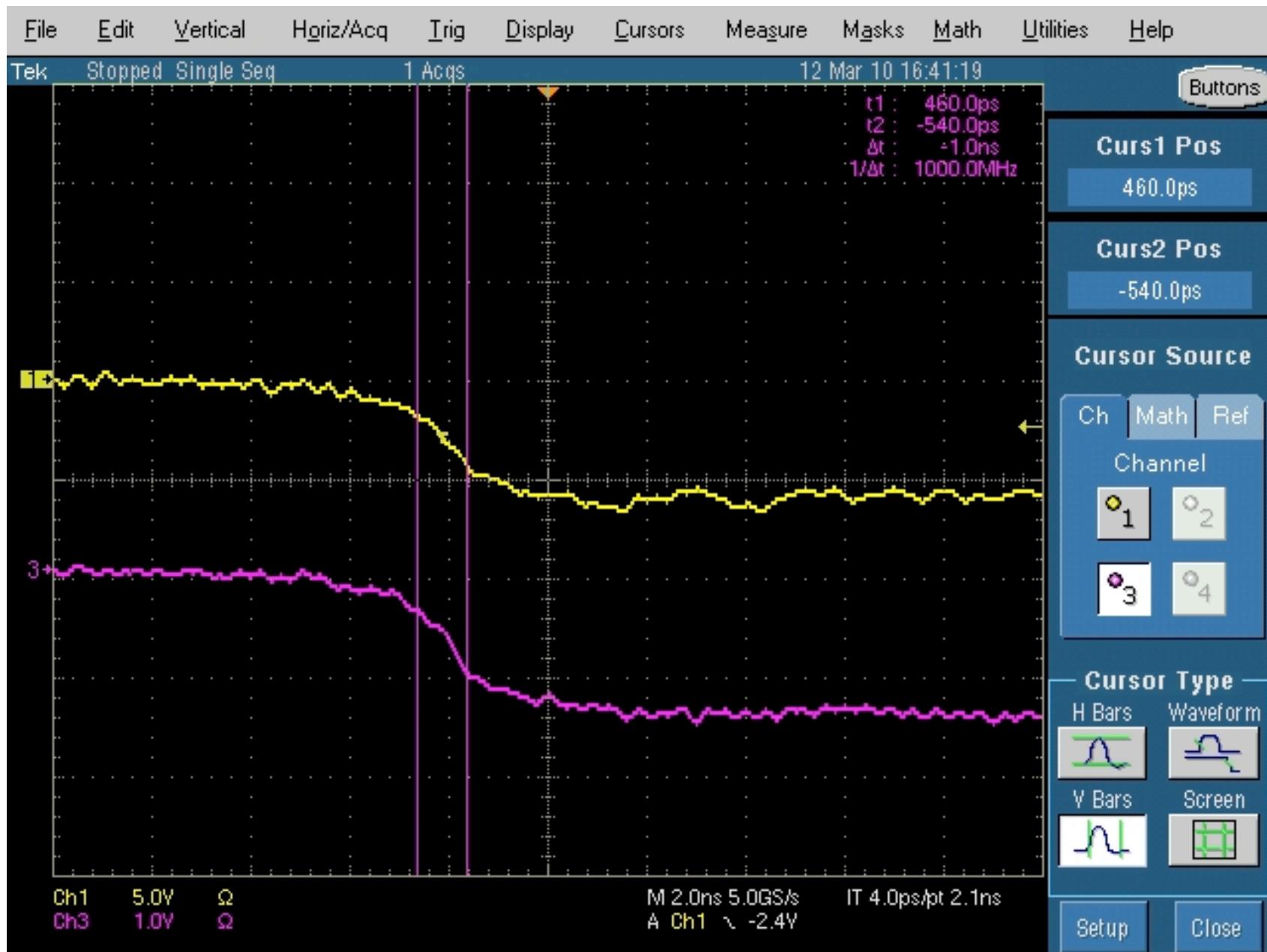
High voltage ~265v



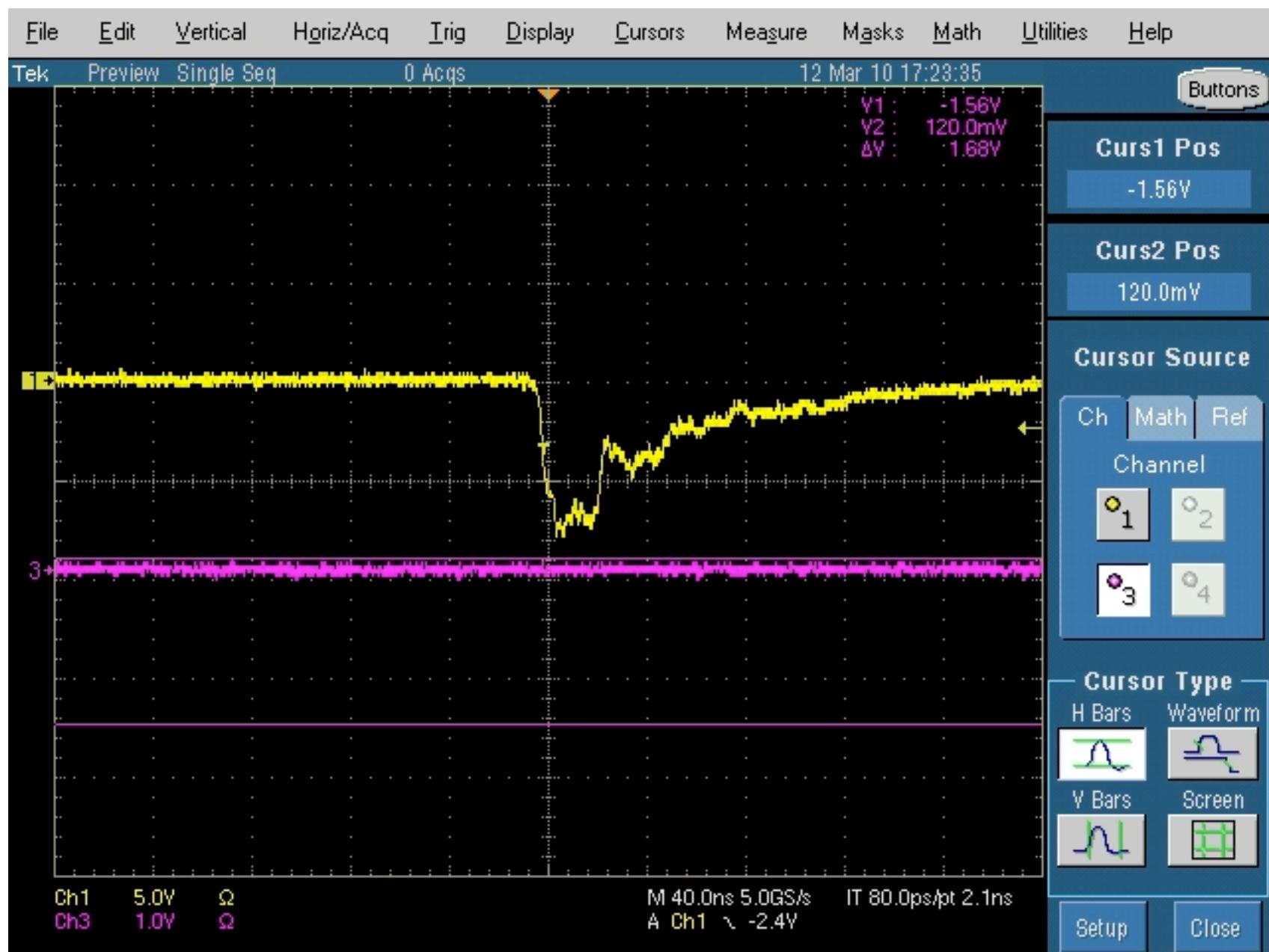
U of Maryland  
High Voltage Pulser

attached to 50 ohm load





attached to antenna (RICE style dipole)



# Ongoing Activity

- increase voltage (add transformer and another avalanche transistor in series)
- need to worry about  $dV/dt$  in connectors and cable
- change to azimuthally symmetric antennas around IC cable (Andy's antenna ready for prime time?)
- try again next year
- next year is the last opportunity to get something in IC holes
- will high voltages bug IC (maybe need separate cables)