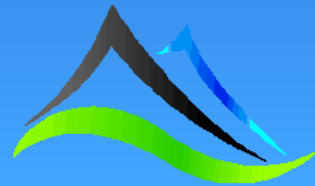


Chasing Volkswagons at 2km with IP

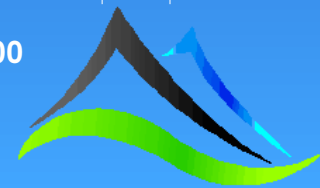
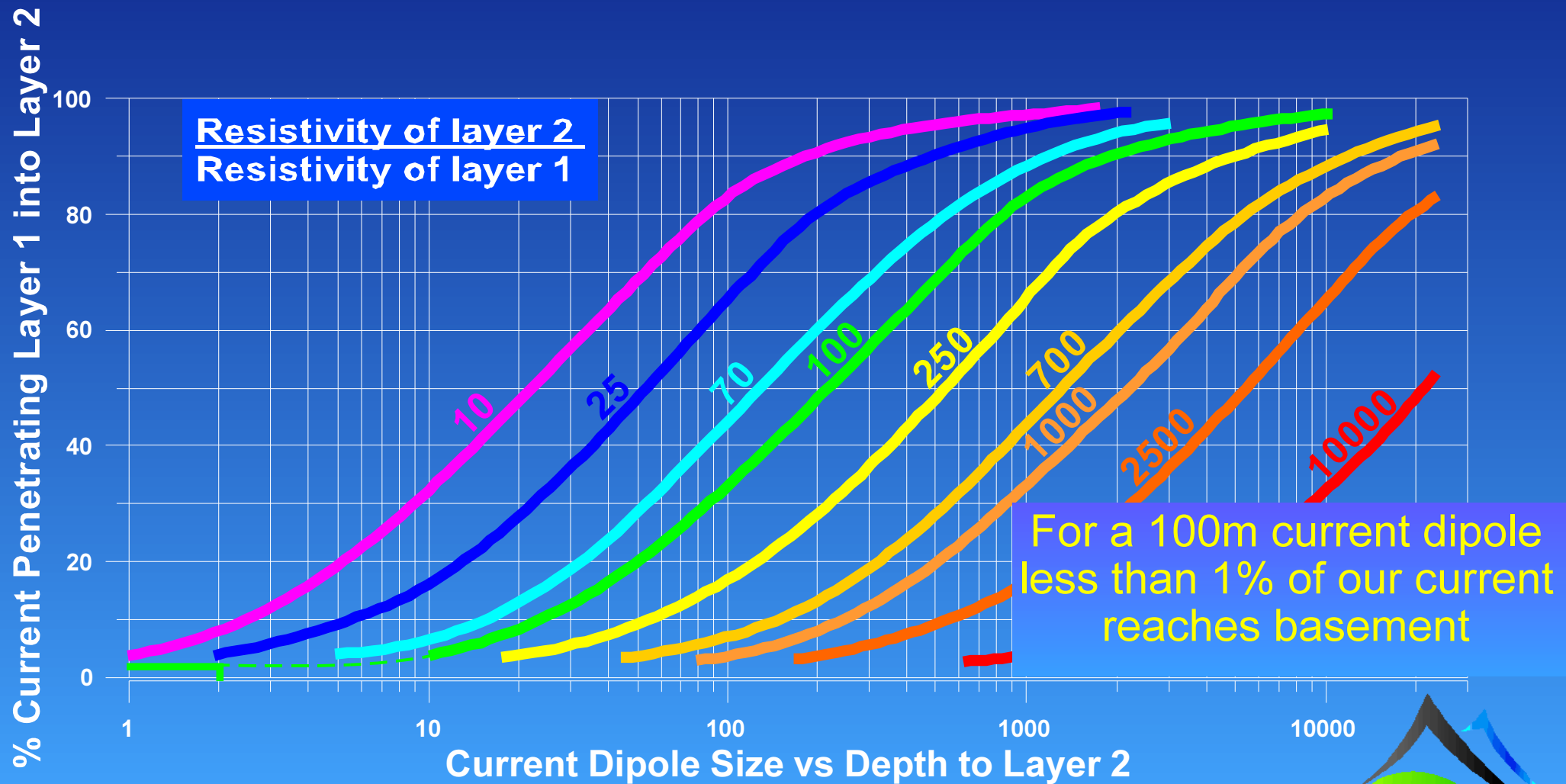
Kim Frankcombe
ExploreGeo

"It would be like burying a 1957 Volkswagen a mile or two deep and discerning whether it is a '57 or '58 model from the shape of the rear bumper," Robert Friedland 2009 when describing Ivanhoe's Zeus IP system



Signal at the target

50m of 10 Ohm m overburden over 1,000 Ohm m basement



More power and high voltages!



2.5 kVA, V_{max} 1 kV



20 MVA, V_{max} 100 kV, 10,000A into a 5km dipole



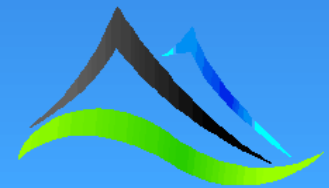
50 kVA, V_{max} 4 kV



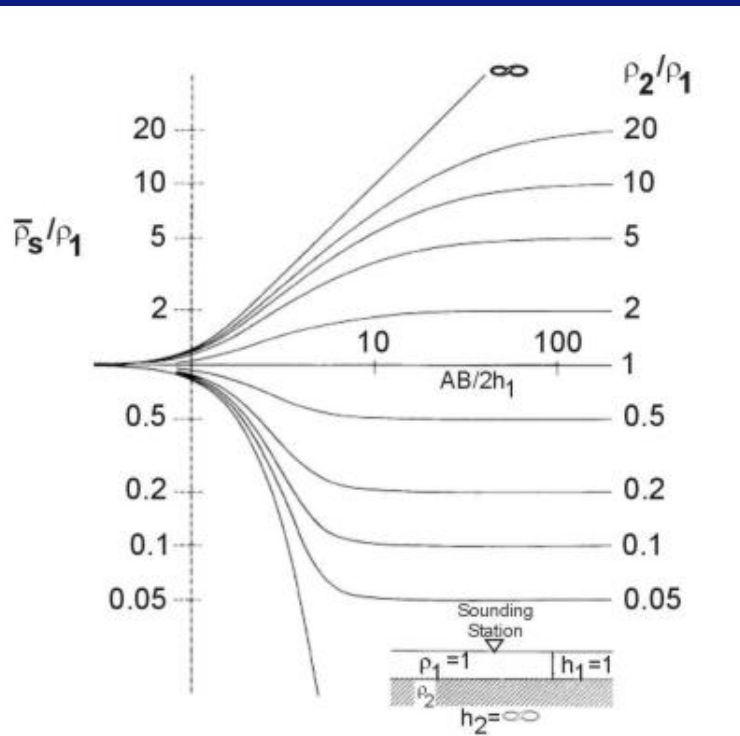
200 kVA, V_{max} 10 kV

State mining acts need attention

Ohm's Law is immutable

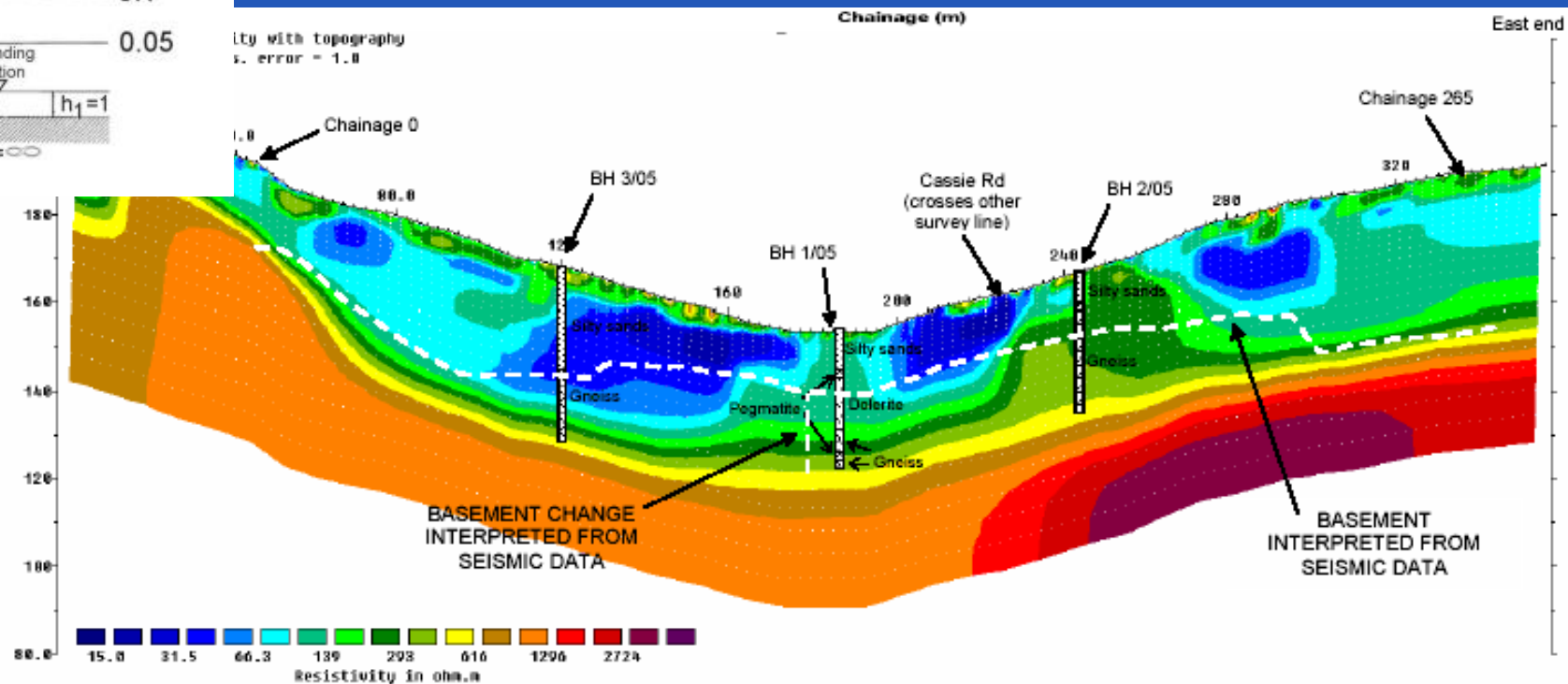


More channels and variable geometry



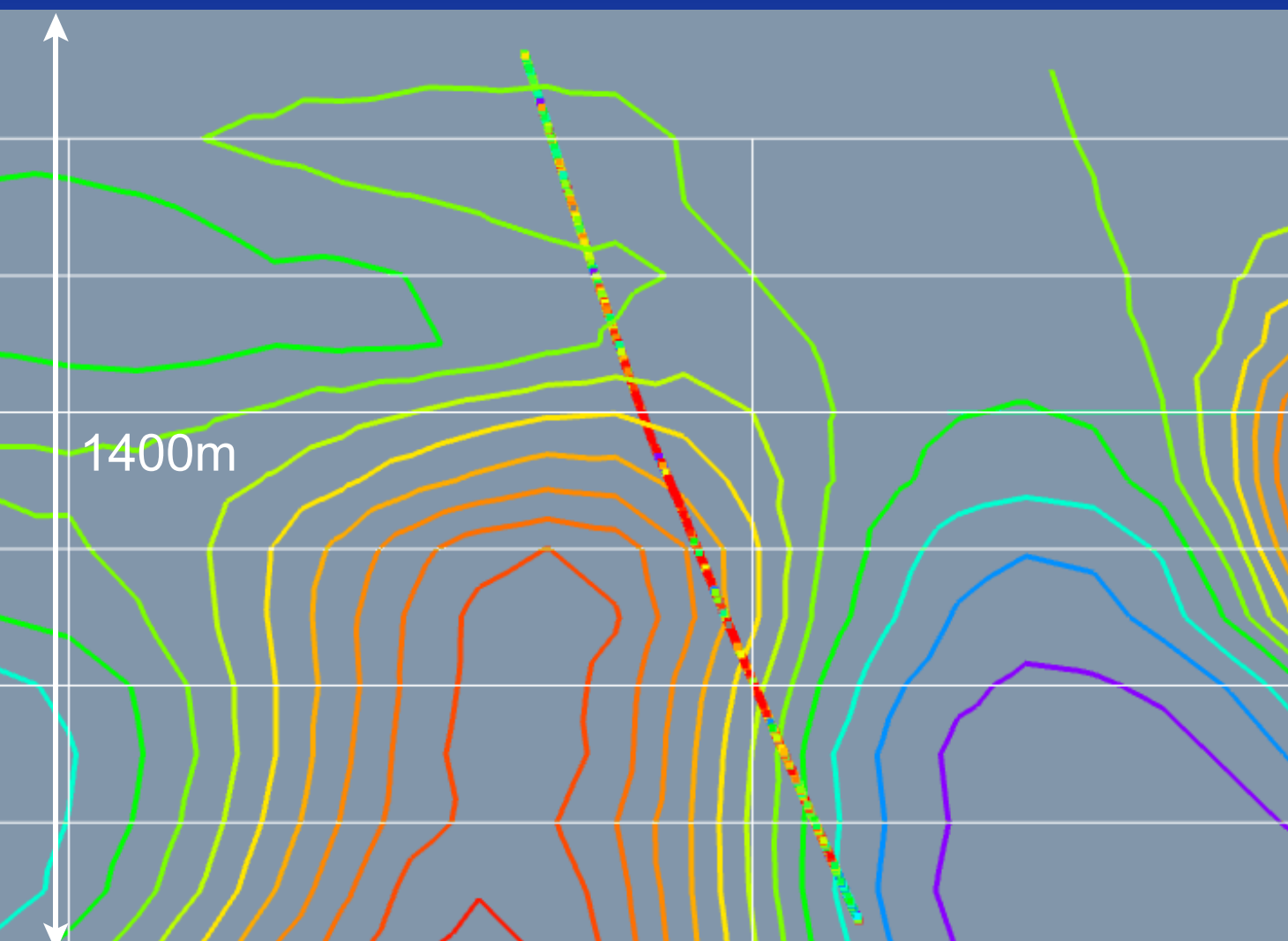
The near surface geophysicists have gone from simple 1D soundings to electrical tomography by using multi-resolution arrays with varying MN, AB and n.

From 10 readings to 10,000 over the same site
The minerals exploration industry can do the same



Case Study

Comparison between IP and Cu grades in the deepest drillhole



2 mV/V contours of chargeability

Cu to 3.3%

Resistivity 100 -1000 Ohm m in this location

Good correlation to at least 1km depth

