

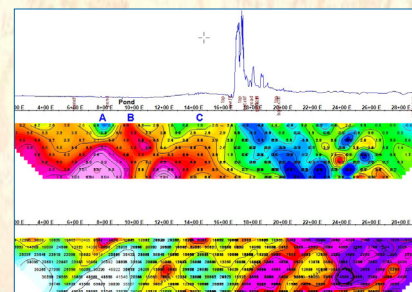
We specialize in ground-based geophysical methods such as:

IP/Resistivity, CSAMT, TDEM, Gravity, Magnetics, EM31/34/38/39/61, VLF, MaxMin, GPR, Seismic/MASW, Radiodection, 4-Pin Wenner & Resistivity Imaging.

Our core surveys for mineral exploration:

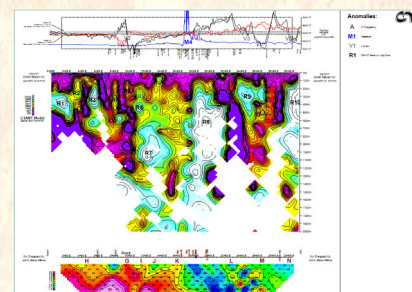
## ⊕ IP/Resistivity (Induced Polarization)

- Spectral parameters are useful for separating fine-grained/disseminated sulphides from coarse-grained/massive sulphides.
- High power *Walcer* transmitters are used for best surface and cross-hole survey results.



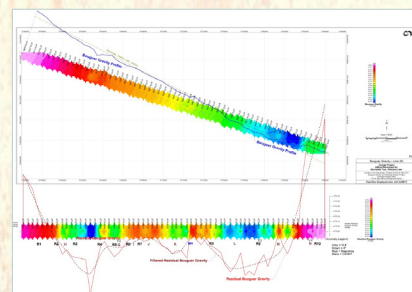
## ⊕ CSAMT (Controlled-source Audio-frequency Magnetotellurics)

- Images ground resistivity by collecting 'soundings' at each location, typically using 50-metre dipoles.
- Results are modeled and displayed as 'depth sections'.
- *Phoenix* transmitter and receivers are used with an AMT magnetics coil.



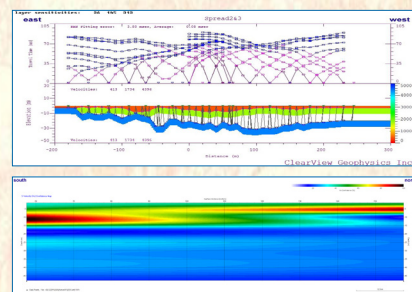
## ⊕ Gravity

- Bouguer Gravity are calculated from RTK GPS positioning and precise height-of-instrument measurements.
- Residual anomalies are defined.
- *Scintrex* CG-6 and *Trimble* R12i units provide exceptionally accurate readings in rough topography & terrain.



## ⊕ Seismic Refraction & MASW (Multi-Channel Analysis of Surface Waves)

- Depth-to-Bedrock is the main refraction application.
- Geotechnical parameters for Poisson's Ratio and  $V_s^{30m}$  come from MASW.
- *Geometrics* Geode seismograph with *Interpretix* and *ParkSEIS* software are used to process and present the results.



continued on other side...

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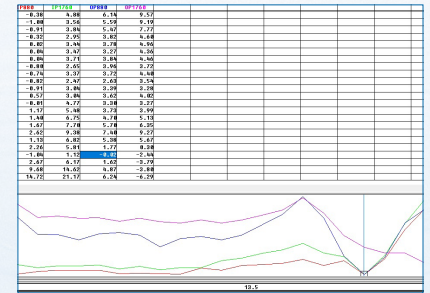




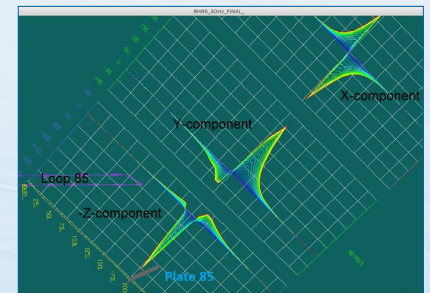
...Core surveys continued from other side:

- Many frequencies and configurations are available with these frequency-domain instruments.

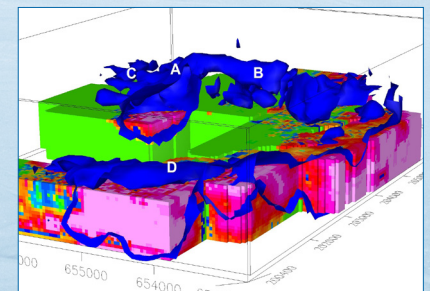
- Post-processing calculations produces depth sections from these data.
- *Apex Parametrics & Geonics* gear help refine airborne anomalies for drilling.



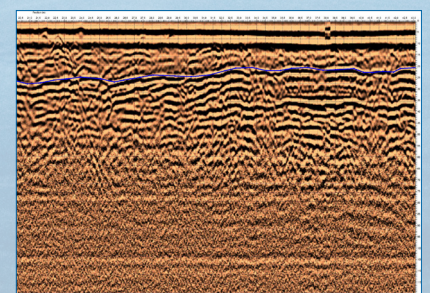
- Surface surveys can be carried out using large fixed loops or smaller moving loops.
- We use *Geonics* 3D coils for surface and borehole surveys.
- *Lamontagne* software is used to model the results.



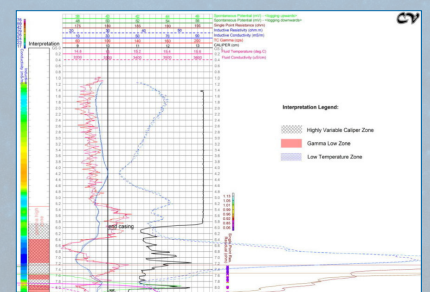
- The highest resolution magnetics data are collected from the ground surface.
- *UBC-GIF* 3D inversion software are used for SUS and MVI models.
- *Scintrex* Cesium magnetometers are used for walking-mode and [snowmobile-mode](#) surveys.



- Radar is useful for many purposes such as mapping stratigraphy, characterizing buried objects and soil properties.
- *Sensors & Software* Noggin, PulseEKKO and Conquest instruments are used for a wide range of frequencies and applications.



- In addition to cross-hole IP/Resistivity and TDEM borehole surveys, borehole physical property and camera logs are excellent for thoroughly characterizing near-hole rock and soil properties.
- *Mount Sopris* and *Geonics* probes are typically used for these surveys.



[www.geophysics.ca](http://www.geophysics.ca)