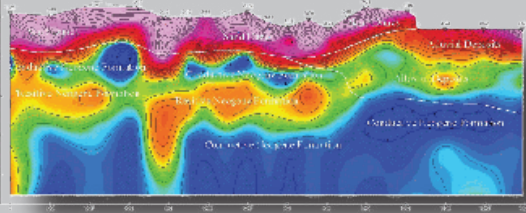


Surface Geophysics



Conductivity Depth Section. High Resolution, Off Loop, Time Domain Soundings.

The section maps out a complex geology consisting of sand dunes over alluvial and Neogene Formation layering.

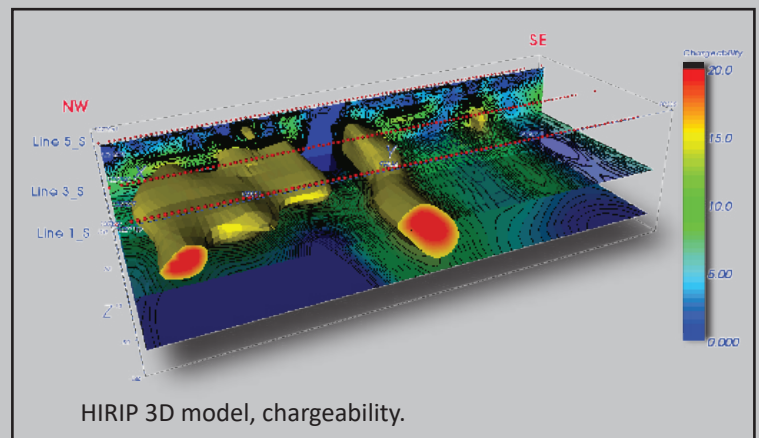
Time Domain EM (TDEM)

- Multiple Zonge GDPII receivers with up to 16 channels
- Multiple Zonge GGT transmitters and generators
- Protem EM47, EM37 and EM57 transmitter with Analog Protem Receiver
- Downhole Surveying using Protem downhole probes: BH43-1D, BH43-3D, BH43-3B
- Specializing in Large Loop surveys for massive sulphide mineralization
- B field fluxgate surface and downhole measurement
- Modelling using Maxwell and Interpex software
- Geologically relevant interpretation of TDEM data

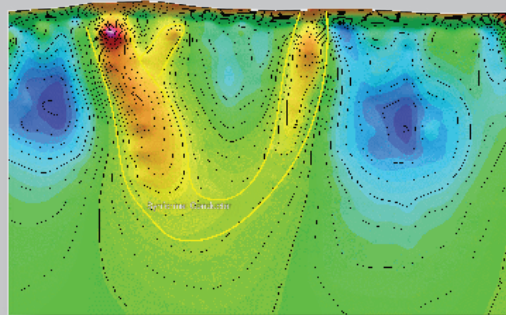
HIRIP - High resolution IP

HIRIP – High Resolution Resistivity and Induced Polarisation is a new methodology combining classic Pole-Dipole and advanced multi-electrode measurements

- 10 times higher data density compared with Pole-Dipole resulting in better modelling of the data
- 1000 m profile with 10 m Electrode spacing per day
- Advanced 3D modelling and visualisation of HIRIP profiles including drillholes
- Output to mine planning software packages



HIRIP 3D model, chargeability.



NSAMT 2D smooth model inversion

NSAMT and CSAMT

This hybrid EM resistivity technique is effective in delineating targets ranging from super-conductive Ni sulphides to poorly conductive (100-1000 Ohm.m) sulphide or pregnant/target lithologies. Depths of penetration are in the range from 300-500 m. The method is especially effective in delineating 2-2.5 dimensional targets or structures. The combination with standard Pole-Dipole or HIRIP survey gives a distinct exploration advantage in terms of resolution, depth of penetration. This combination of techniques works especially well in brown field exploration.

Ground Gravity, Magnetics, DGPS and Radiometrics



Ground Gravity

- Gravity surveying throughout Africa (DRC, Mali, Tunisia, Mauretania, Namibia, Angola, etc)
- Scintrex CG3-M gravity meter, accuracy 0.02 - 0.05 mGal
- In-field processing to terrain corrected Bouguer values using Oasys Montaj
- Kimberlite, Base Metal and Engineering/Environmental applications

Magnetics and Radiometrics

- Walking ground magnetics with GEM GSM19 Walk-Mag linked to Garmin handheld GPS
- Walking spectrometer reading using Pico Envirotec GRS-2 Spectrometer
- Up to 30 km per day of surveying in desert environment
- High definition ground grids for the Uranium Industry



DGPS Surveying

- Trimble RTK equipment with high power base station and booster
- Accuracy 1 - 2 cm
- Tied in seamlessly with gravity surveying
- In forest areas augmented by Trimble DiNi Digital Level
- Measurement of DTM's and Borehole coordinates

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