



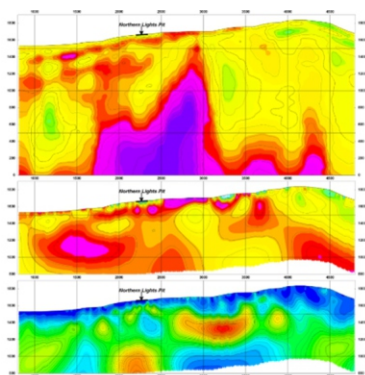
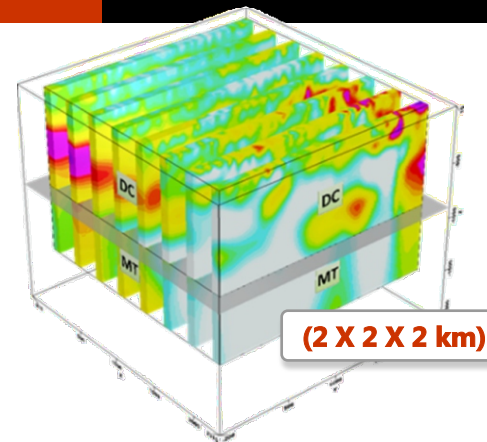
TITAN

2D Distributed Multi-Parameter Imaging

Technology for Discovery

TITAN DCIP & MT array-based system provides the most sophisticated and accurate 2D electrical imaging of the subsurface available. Quantec has performed over 500 TITAN surveys globally. Now providing TITAN 130 and TITAN 160 distributed surveys with more flexibility.

- Ideal for drill planning & accurate high resolution target delineation
- 48-hour inversion results turn around time per line (if requested)
- From surface to depths of 2000 metres (DCIP to 750m, MT to 2000m)
- Property and deposit scale imaging prior to drill programs



Top: MT Resistivity

2D inversion model; typically > 1500m.

Middle: DC Resistivity

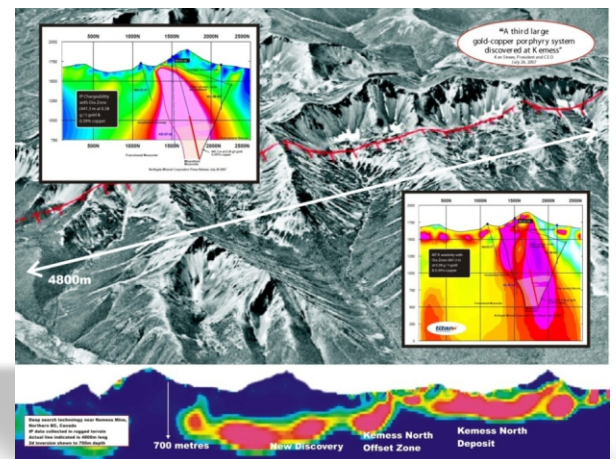
2D inversion model; typically upto 750m.

Bottom: Chargeability

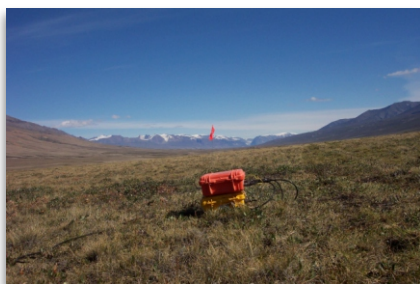
2D inversion model; typically upto 750m.

Overview

The array-based **TITAN 24, 130 & 160** systems provides deeper information to enhance drilling efforts. **TITAN** is a multi-parameter distributed ground geophysical survey system that acquires large volumes of highly accurate subsurface physical property information from surface to great depths.



Contributing to discovery



- Imaging through overburden conditions
- Detection of deep, more subtle geophysical responses
- Delineation and evaluation of ore deposits
- Provide guidance on deeper drilling
- Discovery of new deep targets
- Regional deep earth studies



Over 200 minesite surveys

APPLICATIONS:

- Mineral exploration (massive sulphides, porphyries, IOCG, gold, VMS, SEDEX, uranium, and diamond)
- Minesite investigations • Brownfield exploration • Hydrocarbon exploration • Geothermal exploration



TITAN - Unique characteristics for best possible data

Powering Exploration

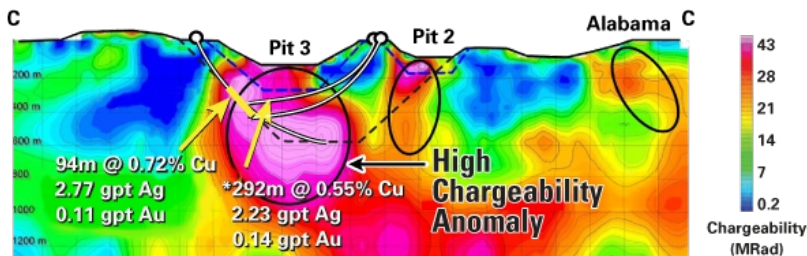


- 100 % duty cycle all the time provides high signal to noise ratio data for better reliability
- All transmitter signal time series is recorded and deconvolved from the recorded data in processing
- Superior signal to noise ratio
- Digital signal processing with optimized noise rejection and reduction strategies
- Power line noise rejection: 60 Hz or 50 Hz • Telluric cancellation option available for IP surveys
- Full-waveform time series data acquisition
- Current monitoring for processing optimization and noise cancellation
- Multi-fold acquisition – pole-leading and pole-lagging – for unbiased 2D high data density
- Scalable, n=1-70* with flexible “a” spacing (25, 50, 100, 150, 200 or 400 metres)

**Options with
TITAN 130 & 160**

- Titan 130 IP mode - very large n available for large scale deep IP (n=70, a=100)
- Titan 160 MT mode - now providing full frequency array MT
- Optimized layouts to achieve desirable depth of investigation over any grid size
- Variable imaging array geometry (detailed in central portion of line)

TITAN : Effective deep imaging at the minesite



Mine Planning

- Map resistivity to depth at the mine planning stage
- Tailings planning mapping
- Locate potential satellite ore
- Map deep structure and potential water
- Increase effectiveness of condemnation drilling

Exploration

- Assist near mine exploration efforts
- Target to 1500 metres
- Extend life of mine



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