

Nickel Sulfide Exploration

CHALLENGES:

Traditional geophysical tools have been limited to detecting nickel sulfide ore bodies within 200 - 300 metres. These deposits can occur in clusters of small to large individual lenses which have been difficult to discover and delineate. Exploring by drilling alone can be an expensive and inefficient method. Titan 24 can lead to the discovery of nickel sulfide ore bodies at depths beyond the limit of conventional geophysical methods without the expense of saturation drilling.

RESULTS:

The Titan 24 survey identified several separate DCIP and MT anomalies on the Norman property, some of which were consistent with important sulfide mineralization. The survey also proved useful in discriminating between mineralized and non-mineralized conductive sources. Titan 24 was capable of identifying known mineralized resources as well as detecting additional exploration targets, nearby, in both a 'brown-fields' and culturally-contaminated, mine site environment.

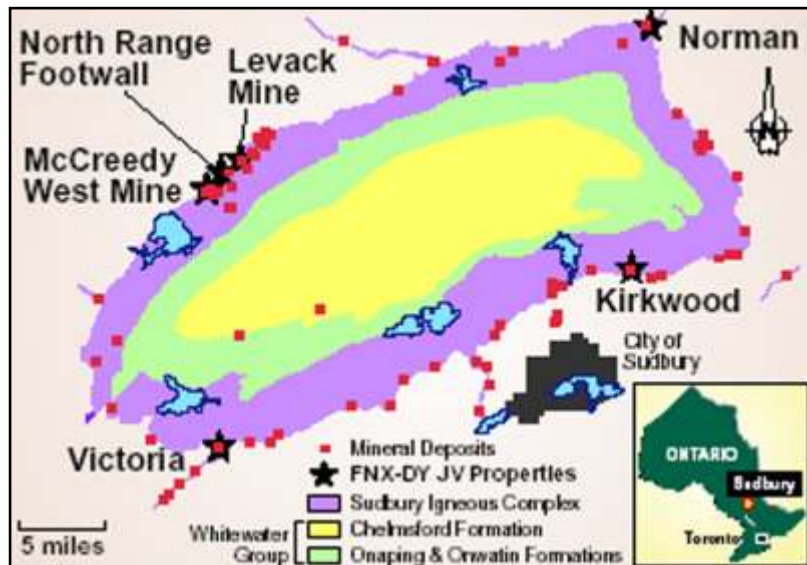
Detect Deposits at Depths of up to 1.5 Kilometres

The Norman and Levack mine site properties are located just outside of Sudbury, Ontario along the known Sudbury contact, footwall and offset Ni-Cu massive sulfide mineralization. The Sudbury structure has been accepted to have been caused by a giant meteorite impact.

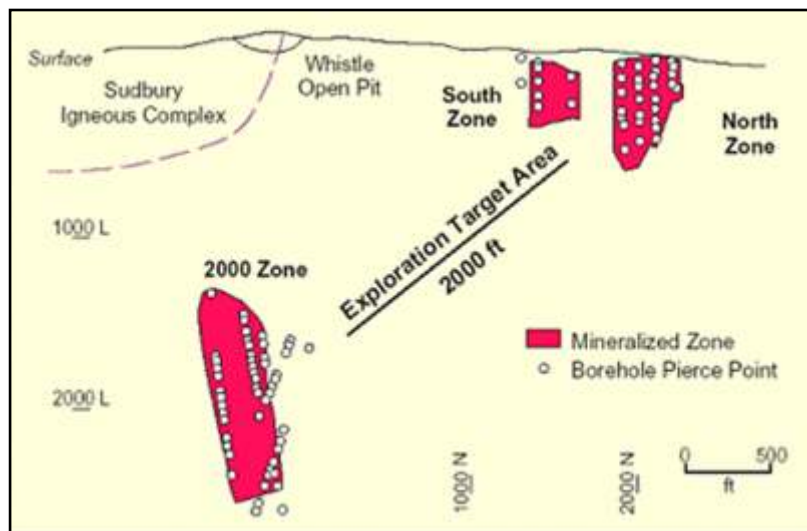
A Titan 24 survey was deployed to explore prospective intrusive terrains to depth and

discover nickel sulfide ore bodies up to 1.5 kilometres below the surface. The goal was to map ore bodies to depth in three dimensions and differentiate large high tonnage potential deposits from small sulfide bodies, demonstrating the Titan 24 system's capability to penetrate deep conductive overburden and to operate in a contaminated mine-site environment.

Norman Case Study



Sudbury ore deposits



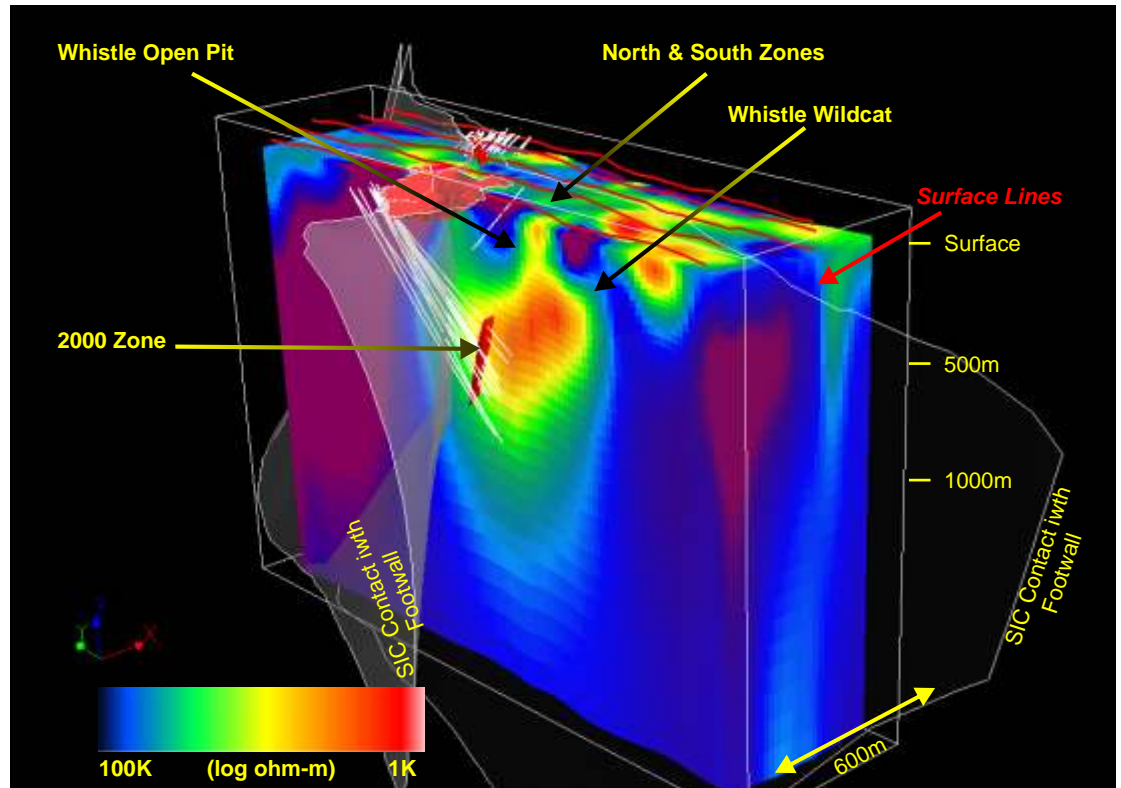
Mineralized zones – Norman Property



Nickel Sulfide Exploration - Sudbury

TITAN 24 SOLUTION:

Titan 24 can explore covered prospective intrusive terrain and discover nickel sulfide ore bodies up to 1.5 kilometres below the surface. By differentiating large sulfide bodies from small sulfide lenses, Titan 24 provides information to focus drilling on targets that have the best tonnage potential. IP and MT data can be presented in 2D inversions, providing advanced imaging of sulfide ore bodies. 2D inversions can be further enhanced through the input of geologic section information, resulting in constrained 2D inversions that provide high definition delineation of undiscovered sulfide ore bodies. IP data can also be presented in 3D inversions where there are three or more lines of IP data, providing the best available IP imaging of sulfide ore bodies.



Norman exploration volume with Titan line locations and topography

Other Nickel Sulfide Camps Explored with Titan 24:

- Voisey's Bay, Voisey's Bay Nickel - 600 metres
- Raglan Project, Xstrata - 600 metres
- Nickel Rim South, Xstrata Nickel - 1000 metres

About Quantec

Quantec Geoscience Ltd. has been helping with discovery for over 20 years.

Our offices throughout the world allow access to a collective knowledge database of thousands of projects with practically all possible geophysical surveys.

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