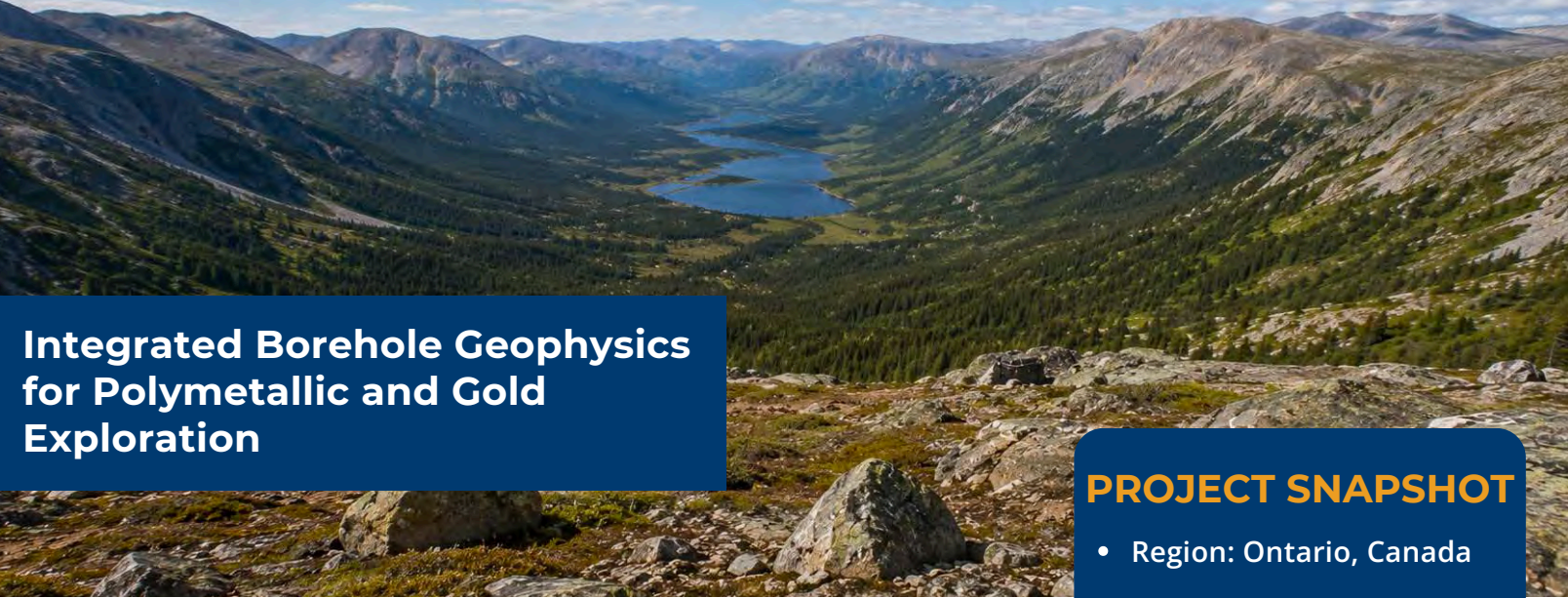




Integrated Borehole Geophysics for Polymetallic and Gold Exploration

Project Overview

DGI completed an integrated borehole geophysics program at a polymetallic and gold exploration project in northwestern Ontario. Optical Televiwer (OTV) imaging and physical rock property surveys provided structural, lithological, and geophysical data to support geological interpretation and exploration modelling.

Challenges

- Required detailed structural and lithological characterization across six drill holes.
- Needed continuous physical property data to support interpretation of alteration, mineralization and contrasting rock units.
- Variable water clarity and borehole conditions affected survey coverage in some intervals.

DGI Approach

DGI completed Optical Televiwer (OTV) and physical rock property surveys across six drill holes. High-resolution borehole imagery was interpreted to map veins, fractures, faults, foliation and lithological contacts, while Resistivity (Elog), Induced Polarization (IP) and Magnetic Susceptibility (Mag Susc) measurements provided continuous information on rock properties and potential mineralization. The datasets were processed, depth aligned and integrated to support structural and geological interpretation.

Project Outcomes

The program produced detailed structural and physical property datasets that improved understanding of the project's complex geology, including key vein systems, structural trends and contrasting lithologies. The integrated results provided a stronger foundation for geological and geophysical modelling, correlation between drill holes and ongoing exploration targeting.

PROJECT SNAPSHOT

- Region: Ontario, Canada
- Commodity: Gold and polymetallic mineralization
- Rock Type: Archean volcanic and volcanoclastic rocks with felsic to intermediate intrusions
- Operation Type: Exploration
- DGI Solution: Optical Televiwer, Resistivity, Induced Polarization and Magnetic Susceptibility