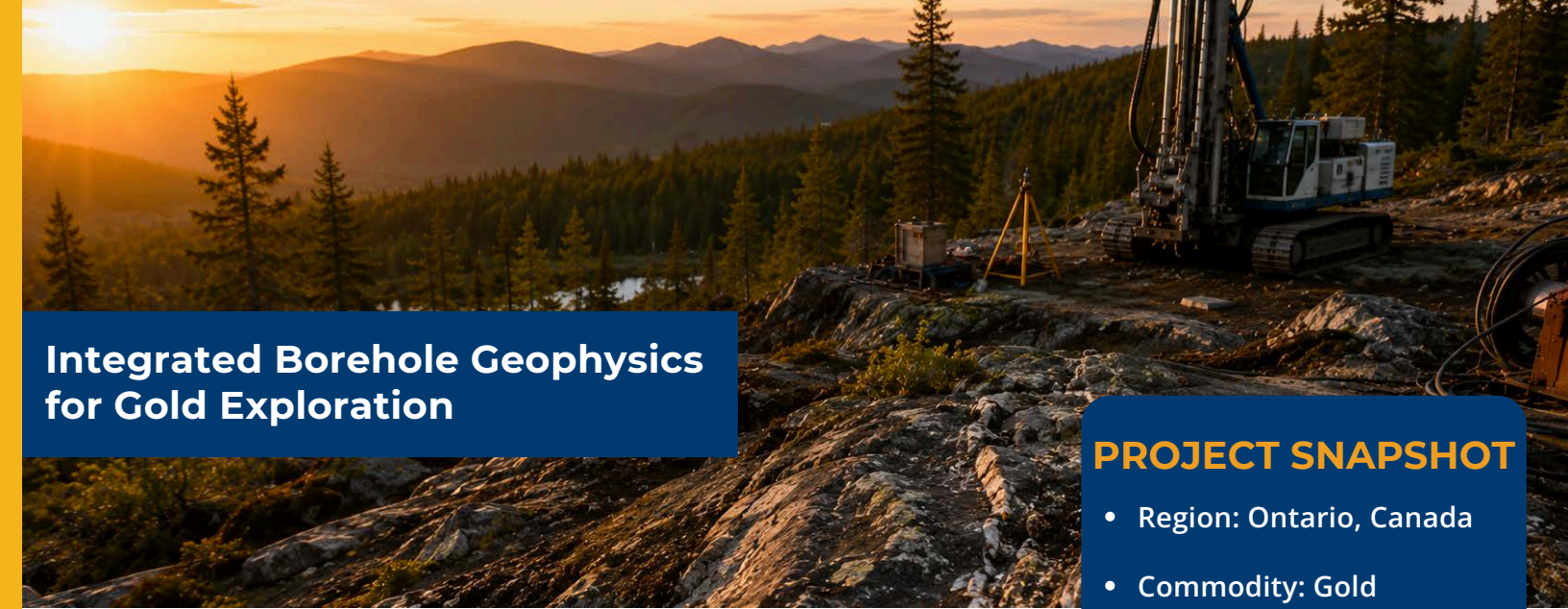




Integrated Borehole Geophysics for Gold Exploration

Project Overview

DGI completed an integrated borehole geophysics program to characterize geology, structures, and rock properties at a gold exploration project in northwestern Ontario. The results supported geological modelling and exploration targeting.

Challenges

- Required detailed structural and lithological characterization across multiple exploration drill holes.
- Needed to correlate geological structures with physical rock properties and mineralization to improve geological models and exploration targeting.
- Required high-resolution borehole imaging and integrated geophysical datasets to supplement core logging.

DGI Approach

- Conducted integrated borehole geophysical surveys across 12 drill holes using Acoustic Televiwer (ATV), Optical Televiwer (OTV), Natural Gamma Ray (GR), Resistivity/Elog, Induced Polarization (IP), and Magnetic Susceptibility (Mag Susc) tools.
- Processed and interpreted structural features alongside physical property data to characterize lithology, alteration, shear zones, fractures, and potential mineralized intervals.
- Integrated all datasets into a unified interpretation to support geological modelling and resource exploration.

Project Outcomes

- Successfully completed a comprehensive multi-tool borehole geophysics program across 12 drill holes.
- Produced high-resolution structural interpretations and physical property datasets that improved understanding of geological controls on mineralization.
- Delivered integrated data to support resource modelling, exploration targeting, and future drilling decisions.

PROJECT SNAPSHOT

- Region: Ontario, Canada
- Commodity: Gold
- Rock Type: Archean volcanic and sedimentary rocks with intermediate intrusions
- Operation Type: Exploration
- DGI Solution: Acoustic Televiwer, Optical Televiwer, Natural Gamma Ray, Resistivity (Elog)& Induced Polarization, Magnetic Susceptibility