



GROUND GEOPHYSICS SERVICES WITH AXIOM GROUP

AXIOM GROUP offers a comprehensive suite of ground geophysics services designed to enhance subsurface exploration, optimize resource discovery, and ensure informed decision-making in complex geological environments. Our advanced techniques, including Induced Polarization (IP), Ground Gravity, Ground Electromagnetics (EM), and Borehole EM, provide a complete solution for your exploration needs.

INDUCED POLARIZATION (IP): ENHANCING SUBSURFACE IMAGING

Induced Polarization (IP) is a time-proven geophysical method for identifying areas of subsurface mineralization. This technique measures the ability of rocks and soils to temporarily hold an electric charge, revealing the presence of metallic sulfides, disseminated ore bodies, and other conductive materials. IP surveys are especially effective in identifying disseminated mineral deposits such as gold, silver, and copper.

- **Applications:** IP is commonly used in mineral exploration, particularly for detecting sulfide minerals, disseminated ores, and porphyry systems.
- **Benefits:** IP delivers high-resolution imaging of subsurface structures, aiding in delineating ore bodies and enhancing the accuracy of drill targeting.



GROUND GRAVITY: MEASURING VARIATIONS IN SUBSURFACE DENSITY

Ground gravity surveys provide critical data on variations in subsurface density, which are essential for identifying ore bodies, sedimentary basins, and other geological structures. Ground gravity measures the gravitational pull at different points on the Earth's surface, revealing differences in rock density beneath the surface.

- **Applications:** Ideal for mapping large-scale geological structures such as faults, basins, and ore deposits. It is widely used to explore oil, gas, and mineral resources.
- **Benefits:** Ground gravity surveys are non-invasive and provide broad coverage, offering a cost-effective method for identifying potential resource-rich areas before drilling, saving you time and resources.

AXIOM GROUP'S ground gravity services help clients create detailed models of subsurface geology, enabling more accurate predictions of where valuable resources might be located.





GROUND ELECTROMAGNETICS (EM): EXPLORING CONDUCTIVITY AND RESISTIVITY

Ground Electromagnetic (EM) surveys measure the conductivity and resistivity of subsurface materials, allowing for the detection of conductive ore bodies, groundwater, and other geological structures. This technique is particularly useful for identifying massive sulfide deposits and mapping conductive features at various depths.

- **Applications:** Ground EM is commonly used in mineral exploration, environmental assessments, and groundwater investigations.
- **Benefits:** Ground EM surveys provide detailed data on subsurface conductivity, offering insights into the presence of ore bodies, fault lines, and water-bearing formations.

With AXIOM GROUP'S ground EM services, clients benefit from high-resolution subsurface data that can be used to enhance exploration outcomes and reduce risk in mineral exploration projects.

BOREHOLE ELECTROMAGNETICS (EM): PRECISION DETECTION AT DEPTH

Borehole EM surveys involve placing an EM probe into boreholes to gather detailed data on subsurface conductivity and the location of conductive ore bodies. This method is particularly useful for detecting mineral deposits at depths that surface geophysical methods may miss.

- **Applications:** Borehole EM is widely used in the mining industry to detect conductive ore bodies, such as massive sulfides, and to define ore extensions in underground mines.
- **Benefits:** By using borehole EM, Axiom Group can detect deeper mineralization beyond the reach of surface geophysical surveys, providing precise data to guide deeper drilling efforts.



AXIOM GROUP'S borehole EM services offer unparalleled precision in subsurface exploration. They help clients map conductive zones and reduce exploration uncertainty accurately.

YOUR PARTNER IN GROUND GEOPHYSICS

At AXIOM GROUP, we're not just another geophysics service provider. Our commitment to innovation and precision, coupled with our extensive experience in the field, sets us apart. Whether you're exploring for minerals, oil, gas, or groundwater, our advanced geophysical services deliver the insights needed to make informed exploration decisions and maximize the success of your project.

Ready to take your exploration and discovery efforts to the next level? Contact us today to learn how our ground geophysics services can accelerate your project.

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