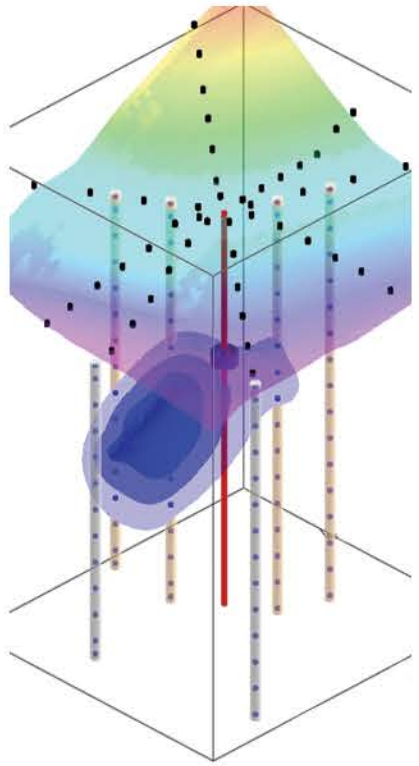


# hydroGEOPHYSICS

Subsurface Imaging and Innovative Solutions shedding light on the earth beneath your feet.



- Leak Location
- Leak Detection & Monitoring
- Environmental
- Mining
- Groundwater
- Site Clearance & Avoidance
- Geotechnical
- Archeological
- Oil & Gas

The image above was produced from data acquired during a pressurized injection monitoring project. The data were inverse modeled to produce volumetric images of solution coverage. This image shows the progression of fluid movement at three different times during the injection at a depth of 110 feet (note 3 blue color changes in plume injection).



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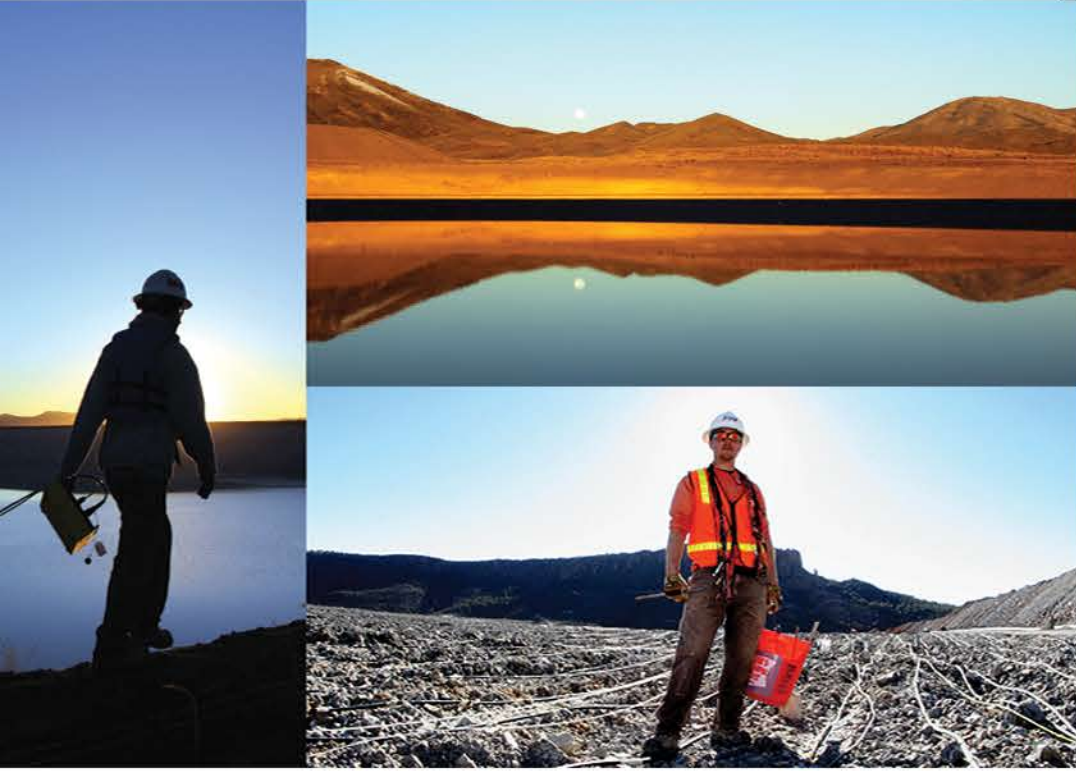


Scan the QR code at left to learn more about geophysics and geophysical services provided by HGI.



## Corporate Profile

For more information [ [HGIworld.com](http://HGIworld.com) ]



## Innovative Geophysics

Innovation, quality, detail, and flexibility are hallmarks of HGI's service. We create custom-fit solutions for individual client needs, making us an industry leader in the field of geophysics and geosciences.

HGI is a solution-oriented geophysical consulting company and service provider to the environmental, engineering, groundwater, mining, oil & gas, and natural resource exploration industries. We specialize in the application of 3D geophysical methods and time lapse subsurface monitoring of fluid flow through geologic materials.



## HGI Services

### Leak Location

- Bare Liner Integrity Testing
- Ponds
- Pipes
- Mining Heaps
- Tailings Piles
- Landfills

### Leak Detection & Monitoring

- Ponds
- Tanks
- Dams
- Mining Covers

### Environmental

- Plume Mapping
- Contaminant Source ID
- Acid Rock Drainage
- Corrective Action Monitoring

### Groundwater

- Basin Delineation
- Fracture Mapping
- Karst Investigation
- Salt Water Intrusion

### Mining

- Heap Characterization
- Exploration
- Liner Integrity
- Acid Rock Drainage
- Covers & Cap Integrity Testing
- Enhanced Metal Recovery

### Site Clearance & Avoidance

- Infrastructure Mapping
- Pipeline Mapping
- Underground Storage Tanks
- Buried Debris

### Geotechnical

- Void Detection
- Depth to Bedrock
- Engineering Construction
- Concrete Inspection

### Oil & Gas

- Exploration
- Subsurface Monitoring

### Archeological

- Site Investigations

## Methods

### Resistivity

- IP
- Induced Polarization

### RPM

- Residual Potential Mapping

### Gravity

- Seismics

### Magnetics

- GPR
- Ground Penetrating Radar

### EM

- Electromagnetics

## Signature Services



HGI created a Leak Detection service to provide solutions for leaking containment systems aimed at industrial-scale problems for mining, nuclear, agricultural, oil&gas, waste, and chemical markets.



After years of applying geophysics on metal mines and gaining a wealth of experience, HGI has created Heap Solutions, a service dedicated to improving metal recovery from ore in heap leach mining operations.

## HGI Safety

Safety matters, and with HGI, safety always comes first! Our employees are certified in First Aid, Life Saving, MSHA, OSHA, and have obtained thousands of hours of job-specific safety training.

