



A company of the
LA.TE. ANDES GROUP

Mining Services

PROFILE

**Technology-Based
Company in Energy
and Applied Science**

DATE OF FOUNDATION
YEAR 2003

APPLICATION

- Ore deposits
- Evaporite deposits and hypersaline systems

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and hydrogeology of
hypersaline systems**

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GEOMAP S.A.

GEOMAP is an international reference company in oil and gas exploration and development services in South America. Today, it is diversifying and expanding its services to the Mining sector, reconvertng and enhancing its expertise and know-how.

Applied Solutions for MINING

GEOMAP offers Integral Services for the various stages of Mining Exploration: Prospecting, Advanced Exploration, Office Work, Logistics and Infrastructure, and professional training.

Ore deposits

● Prospecting:

- Multivariate data compilation and analysis.
- Surface sampling (rocks, stream sediments, soils, etc.), trenches, mine workings, etc.
- Geological mapping at different scales.
- Geophysical survey: (gravimetry, magnetotellurics, etc.) technical-logistic support, design and supervision of data collection campaigns. Interpretation of results.

● Exploration (and Advanced Exploration) at Project Scale:

- Generation of drilling targets.
- Geological mapping at detail and semi-detail scale. Microtectonic mapping, veins, joints, fractures, faults; determination of principal stresses.
- Basin studies (structure, stratigraphy, chemostratigraphy, facies).
- Data compilation and analysis.
- Geostatistics.
- Generation of digital elevation models (DEM, DTM and DSM), precision topography by drones or UAVs, using RGB photogrammetry and generation of RGB georeferenced orthophotomosaics.

● Drilling stage

- Supervision of RC and DDH drillholes, geological logging of cores, chip logging, sampling for different purposes: rock geochemistry, petrology, mineralogy, etc.
- Supervision of geophysical profiling.

● Office work:

- Thematic mapping (lithology, geochemical anomalies, mineral anomaly, etc.).
- Georeferencing and digitizing of maps of different themes.
- Generation and administration of geographic information systems (GIS) and databases (compilation and integration of surface and subsurface geological information, various remote sensing, etc.).
- Design of sampling programs.
- Analysis of geological/geophysical information, generation of prospectivity maps using hybrid methods (data driven/knowledge driven).
- Stratigraphic/chemostratigraphic analysis.

● Satellite image processing:

- Landsat, Aster, Sentinel, etc. Combination of bands, mosaic assembly, georeferencing.
- Generation of Digital Elevation Models (DEM) and precision topography by means of Drone surveys.
- Determination of indexes of iron, carbonates, mafic minerals, silicates and silica, and classification by SAM (Spectral Angle Method)



• Logistics

Field support and general logistics for geological and geophysical exploration surveys, hydrological and hydrogeological measurements, water balance studies.

• Professional training

On-site and virtual courses on general or specific topics in the mining field, requested on demand by companies or multi-companies.



• Infrastructure

- Own building with offices and meeting room for more than 20 people for work meetings, workshops and training courses.
- State-of-the-art hardware and software applied to the mining industry, internet connection, plotter and printers.
- Own Toyota Hilux 4X4 pick-ups available for various field tasks.
- All geological equipment for the development of field tasks.

We integrate our services to increase knowledge. We increase knowledge to reduce the risk in projects or areas of interest.