LA.TE. ANDES

Mining Services

PROFILE

Productive Technology Center
Innovation + Development
in Energy and Applied Science

DATE OF FOUNDATION

Year 2014

TECHNOLOGIES

CRON.AR
Geochronology
Thermochronology

ANDINO 3D
Structural Modeling
Software

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LA.TE. ANDES S.A.

Productive Technology Center R&D

LA.TE. ANDES is a company of international reference in geochronology and thermochronology studies, applied to the solution of geological-analytical problems in the Oil & Gas and Mining fields.

Applied Solutions for MINING

LA.TE. ANDES offers state-of-the-art technology and highly trained professionals to provide the following services and products:

Cron.Ar

• Geochronology

U/Pb analysis on zircons and apatites to determine:

- Crystallization age
- Maximum Depositional Age (MDA)
- Provenance. Source-to-sink analysis

• Compositional analysis

Analysis by laser ablation and mass spectrometry (LA-ICP-MS) on different minerals, including zircons, apatites, epidote, chlorites, among others, obtaining in a standard way Rare Earth (LREE-HREE) and trace element content. These data can then be used for petrogenetic interpretations, as well as a guide for exploration of ore deposits (pophyries, epithermal, skarn, etc.).

• Thermochronology

Fission tracks analysis on apatites and zircons to determine:

Age and cooling rate (100-300 ºC) of the geological system. Allows to assess the magnitude and extension of mineralized systems. Hydrothermal system age and duration, system evolution. Uplift rate history

Analysis by (U-Th-Sm)/He in apatites and zircons to determine:

Age and cooling rate (70-185 ºC) of the geological system. Allows to evaluate magnitude and extension of mineralized systems. Hydrothermal system age and duration, system evolution. Uplift rate history

• Raman microspectrometry

Analysis developed for:

Characterization, identification and compositional mapping of minerals, fluid inclusions and materials in general. Identification of contaminant phases in lithium salts.

Andino 3D

Structural Modeling Software

Integration of geological and geophysical information in a three-dimensional environment in a simple way. Andino 3D 2.0 Thermal and Structural Modeling + 3D Kinematic Models + Tectonic Geomorphology Analysis.

- License sales and renewals
- Project development and data loading
- Structural analysis and Interpretation

www.andino3d.com.ar/en

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

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