



## PROJECT PROFILE

Troy Resources NL

Feasibility Study Review & Detailed Engineering

Casposo Gold-Silver Mine in Argentina

This project included Due Diligence and a review of the Feasibility Study. It included metallurgical services and testwork, sourcing suitable second hand equipment and transportation. As well as re-assembly, planning and design for construction of new equipment required for the Merrill Crowe process and preparation and planning for the construction of a power grid on site. CDMS key initiatives also included the cyanide destruction circuit and dry tailings disposal facilities.

### OUTCOME

- Reduced CAPEX delivery
- Faster project timeframe
- Flagship project generating profits
- Excellent long term prospects

### BACKGROUND

Troy Resources NL (Troy) is an Australian based gold producer, with previous operations in Andorinhas (Brazil) and Casposo (Argentina). Troy is currently operating a new gold project in Guyana, further expanding their portfolio of low cost operations. The company has forged a proven record of fast-track mine development, low cost operations, strategic acquisitions and exploration discoveries. The project is high in the Andes and the cold weather proved challenging.

### PROJECT OBJECTIVES

The Casposo Project is the company's newest asset and comprises a system of epithermal veins. The objective in engaging CDMS was to assist in project development to deliver a mineral processing pathway to take the project into operation with a low CAPEX. Troy undertook the project management and subcontractors on site.

### CHALLENGES

As with many resource projects, the Casposo project had capital costs that appeared to be prohibitive. In addition the ore presents with high clay content. The numbers developed by the previous owners assumed a new process plant, designed using the original test results. The challenge for CDMS was to develop an innovative process and re-develop the project with a reduction of CAPEX in mind to improve the project's fundamental economics.

### OUR APPROACH

CDMS managed a detailed test work campaign using all the available samples. The test work interpretation was submitted to Troy. Careful analysis of the capabilities of the existing equipment was performed. New equipment was designed and purchased to fulfil the requirements of the redesigned process. Suitable second hand equipment was used from the Burdekin project and purchased in North America. Other deliverables included process flowsheets, process design criteria, equipment lists, equipment data sheets and sizing, P&IDs, process control philosophy, CAPEX, OPEX and a state of the art Emerson process control system.