

MINERA ESPERANZA BRINGING HOPE TO A COMMUNITY



www.mineraesperanza.cl

MINERA ESPERANZA

BRINGING HOPE TO A COMMUNITY

Very much a Chilean business in every sense of the word, Minera Esperanza is committed to contributing to both the economic and social futures of local communities

WRITTEN BY: WILL DAYNES RESEARCH BY: ABI ABAGUN





t was during the 1990s that professionals from Antofagasta Minerals Group made the discovery of a new deposit in the Sierra Gorda mining zone. Though it was accepted from the off that developing such an asset, located at the heart of the driest desert in the world, would be a hugely challenging undertaking, the work of thousands of people has contributed to the transformation of a geological resources into a new mining company called Minera Esperanza.

The site of the mine itself is located at an

elevation of 2,300 metres, 180 kilometres to the northeast if Antofagasta City and 30 kilometres from the community of Sierra Gorda. Minera Esperanza is a part of the Antofagasta Minerals Company, the only national private group of its kind in Chile. The group's activities in the country's large copper mining sector extends through its sister operations,

587 **BILLION** TONNES **Estimated total reserves**

of copper concentrate

Michilla and El Tesoro, in the Antofagasta region and its Los Pelambres operation in the Coquimbo region.

Construction of the project began in mid-2008 with its start-up period commencing in November 2011 and the mine now fully into its operation phase. During its first ten years of operations the mine is expected to produce approximately 190,000 tonnes of copper concentrate and 230,000 pounds of gold as its main by-product annually. Total reserves meanwhile are estimated to total

587 million tonnes of copper concentrate with a total grade of 0.53 percent, with more than 0.22 grams of gold retrieved per tonne. Getting the project to the point where it is today has required a total investment of some \$2.7 billion.

Minera Esperanza is a company created and managed by Chileans. As such it has always possessed the core ethics that are shared among Chilean operations within the sector, which sees all of its work based around the principal of creating sustainable value. Sustainability itself has been adopted



as a pillar of the company's operations by its management incorporating team, economic profitability, care for the environment and the progress of communities wherever its operations are sited.

Such principles require the company to not only respect its human and environmental surroundings, but also strive

to enhance them. Indeed with its use of seawater in its process, its integration and use of new technologies that are more environmentally friendly, and its efforts to provide new opportunities to local communities, Minera Esperanza represents a clear example of sustainable mining in action. The exclusive use of seawater in its operations is one of the most significant sustainability aspects of Minera Esperanza, with this water being pumped through a 145 kilometre long pipeline that follows the same alignment of the mine's concentrate pipeline.



Our accuracy reflects in the first impact.

An accurate blast increases productivity and savings in loading, transport, crushing and other stages.

Maptek BlastLogic is a corporate, highly accurate system for the administration of drilling and blasting processes in open pit mines. Greetings for Minera Esperanza

www.maptek.cl

\$2.7 BILLION Total investment in the project to date

It is the pumping system, which includes four pumping stations located in the Esperanza Pier sector located in Caleta Michilla and in the company's deposit at Sierra Gorda that makes this innovation possible. The mine's concentrator plant possesses the highest level of seawater consumption, estimated to be more 600 litres per second. Of course some processes that occur in and around the asset do require fresh water. This is obtained from seawater that is desalinised through a process of reverse osmosis.

In addition to its wishes to adequately accountable for all the possible impacts of its operations in the region, it also strives to assist

MAPTEK

Maptek was founded more than 30 years ago, is a leading provider of innovative software, hardware and services for the global mining industry. Maptek products are in use at more than 1200 sites in more than 60 countries. Products cover the whole mining cycle from exploration to reclamation. Vulcan[™] is one of the world's longest standing 3D mine planning and modelling packages. I-Site[™] is an integrated hardware and software system for 3D laser scanning, surveying and imaging. BlastLogic[™] features intelligent 3D drillhole validation and load design software, and Eureka[™] provides an interactive 3D environment for visualising and interpreting geophysical and seismic data. www.maptek.cl

MINERA ESPERANZA



The hope conveyor

in any way it can with local challenges and with the development of the communities in which it exists. During its very early days the company developed a community relations

> plan. This plan is very much in line with the sustainability principles of Antofagasta Minerals, which is based on a number of values including the ideas of respecting people and the environment, and adhering to all necessary legal regulations.

> The company's social program guidelines meanwhile have been constructed to be fully consistent with those of the World Bank's International





Contact us today and put your company in the spotlight!

vincent@bus-ex.com



The truck workshop and aerial view of Minera Esperanza

Financial Corporation, which themselves include an exhaustive set of social and environmental performance standards that are applied to all sustainability projects.

The company is also guided by the Ecuador Principles, used as a measurement tool by financial institutions that have invested in this mining project, that underline the need to have social management plans, public evaluations, complaints and claims mechanisms, among other recommendations, which have been integrated into Minera Esperanza's daily activities.

As well as being a part of the Antofagasta Minerals Company, Minera Esperanza also belongs to the Antofagasta Industrialists Association (AIA) and to the Mejillones Industrialists Association (AIM). As a member of these institutions in the Antofagasta region, the company has contributed greatly to the development of a number of social responsibility programs that have worked to strength the skills sets of countless local men and women. Furthermore, it has collaborated in the promotion of activities linked to the dissemination of mining activities by means of exhibitions open to the community.

Minera Esperanza has also complemented these activities with its own initiatives that in turn have gained the support and collaboration of the above organisation. An example of this collaboration in action was ont Fo M

MINERA ESPERANZA



its hosting of the first Antofagasta Region Suppliers' Business Round, which was held in December 2009 in the commune of Mejillones. This event provided a forum to gather knowledge shared by the company, and by other small and medium size enterprises from within the region. The aim of this event was to clearly promote local employment and sustainable development in the zone, things that Minera Esperanza continues to care deeply about.

For more information about Minera Esperanza visit: www.mineraesperanza.cl



MINERA ESPERANZA

www.mineraesperanza.cl

Produced by: A CHIEVING BUSINESS EXCELLENCE ONLINE BEBUSINESSEXCELLENCE

www.bus-ex.com