

18 February, 2013

ASX ANNOUNCEMENT

San Francisco Gold - Silver Project

Sampling of multiple quartz reef system delivers visible gold in hand specimen

Phase 4 sampling of Las Leñas quartz reef continues to indicate large-scale, high-grade epithermal gold mineralization potential

HIGHLIGHTS

- Argentina Mining completes Phase 4 sampling & mapping along 1,000m of Las Leñas Au-Ag quartz reef system
- 91 rock channel samples taken from cross-cuts of the main reef, at 10m strike intervals
- Visible gold noted in hand specimen, 25m north of previous 36m @ 1.23g/t Au sample run
- IP Pole/Dipole array Geophysical survey scheduled to define reef depth extent & orientation
- Sample results expected from laboratory before end of February 2013

Argentina Mining Limited (**Argentina Mining** or the **Company**)(ASX: AVK) is pleased to announce the completion of a fourth phase of mapping and systematic sampling of the Las Leñas epithermal quartz-goethite reef in the south-eastern part of the Company's San Francisco gold-silver project in San Juan Province in Argentina.

The most recent announcement on 16 January 2012 referred to a continuous sample run of **36m @ 1.23g/t Au & 4.85g/t Ag** being obtained at San Francisco, and the Company's intent to further sample the reef structure at regular intervals over a longer strike distance to define the continuity of gold-silver responses.

Accordingly, a fourth phase of sampling undertaken during January and early February 2013 has resulted in a total of 91 samples being taken from cross-cuts excavated to a vertical depth of up to 1m, at regular 10m intervals along the strike of a 1,000m long section of the central reef.

Up to four mineralising events are recognised, with a variety of quartz textures observed which are consistent with proximity to the epithermal boiling zone. Observed minerals include pyrite, chalcopyrite and sulphides. **Specks of visible gold have been observed and described in one sample taken 25m north from the 36m intercept reported to ASX on 16 January 2013.**

Sampling was accompanied by detailed geological mapping which will be compiled by the time analytical results are available from this program. The integration of all data from work to date will assist in the design of an IP Pole/Dipole array geophysical survey to determine the depth extent, morphology and orientation of the reef system. The survey has been scheduled for March 2013.

Results from the laboratory are expected before end of February 2013.

Drilling will be required to evaluate high grade areas related to the boiling zone at depth.

Specimens for petrography and optical mineralogical analysis were also taken.

The central reef of the Las Leñas reef forms the principal component of a 3,700 metre long, NNW-trending, epithermal quartz-goethite multiple-reef system which, when the various sub-parallel quartz reefs and intervening country rock are taken into account, attains widths of up to 100m in some areas.

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About Argentina Mining Limited

Argentina Mining Limited is exploring a suite of five gold and base metal projects in San Juan Province, Argentina. These projects range from the established porphyry copper-gold-molybdenum project at Cerro Blanco, epithermal vein gold and copper mineralisation at Amiches, San Francisco and Tres Amigos and regional exploration projects near Barrick Gold Corporation’s major Veladero (Reserves 12Moz Au) and Pascua-Lama (Reserves 17.8Moz) gold operations.

The Company’s first 5 diamond core-holes drilled in two phases in 2011 at the Copper Hill Prospect at Cerro Blanco intersected broad zones of porphyry copper-gold-molybdenum mineralisation which, supported by results from geophysical Ground IP-Res and Magnetics surveys, confirm the presence of a large mineralised porphyry sulphide and oxide system. Follow-up drilling is planned in 2013.

In late 2012, the Tres Amigos Projects was optioned to Canadian explorer New Destiny Mining Corp (TSX.V:NED). A Memorandum of Understanding (MOU) has been signed between AVK and NED for the Cerro Blanco project. NED is currently undertaking due diligence on the Cerro Blanco project with the aim of signing a Heads of Agreement with AVK in the First Quarter of 2013.

Competent Person Statement

The information in this report relating to Exploration Results is based on information compiled by Mr Doug Bright, a Member of the Australasian Institute of Mining and Metallurgy and a Director of and geological consultant to Argentina Mining Limited. Mr Bright has sufficient experience relevant to the style of mineralisation and type of deposits under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2004 Edition of the ‘Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves.’ Mr Bright consents to the inclusion in this report of the matters based on his information in the form and context in which it appears.



Plate1 – The Las Leñas Reef system, view to north



Plate 2 - Drilling cross-cut blast-holes on the central reef to obtain fresh samples



Plate 3 - The Las Leñas reef system northern extension, view to north



Plate 4 - Hand Specimen of the quartz reef showing typical epithermal-style characteristics