

Porgera Gold mine, Flotation, Autoclave and Leaching circuit improvements

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ABSTRACT (USE 'HEADING 1' STYLE)

300 word abstract here...(Use 'Body Text' style)

The Porgera Gold mine in the highlands of PNG, treats 5.5 – 6.0 million tonnes of ore per year with a SAG / Ball Mill grinding circuit. The Anawe processing plant consists of a gold-bearing pyrite flotation circuit, 4 x Autoclaves processing flotation concentrate and a Leach/CIP circuit. This paper describes a range of process improvements in the Anawe processing plant resulting in significant recovery and capacity improvements. Installation of a pyrite concentrate export plant in 2015 to debottleneck autoclave processing capacity. Improvements in Autoclave throughput by +5% through operational control changes to Oxygen addition and feed controls. Benefits from leach circuit control, gold recovery and cyanide code compliance with significant reagent addition savings, including Acacia reactor operational changes.