



Soarch

Home / Our Business / Operating Mines / Kansanshi

Operating Mines

Ravensthorpe

Kancanchi

Production Stats

Reserves & Resources

Guelb Moghrein

Kevitsa

Caveli

Las Cruces

Pyhäsalmi

Development Projects

Our Products



The mine has undergone several expansions since it began operating in 2005. From an initial production capacity of 110,000 tonnes of copper, Kansanshi is now capable of producing 340,000 tonnes of copper and more than 120,000 ounces of gold per year. A multi-stage expansion project aims to increase copper output capacity to approximately 400,000 tonnes by 2015.

Mining is carried out in two open pits, Main and Northwest using conventional open pit methods and employing hydraulic excavators and a fleet of haul trucks. Ore treatment is flexible to allow for variation in ore type either through an oxide circuit, a sulphide circuit and a transitional ore "mixed float" circuit with facilities to beneficiate flotation concentrate to final cathode via the HPL circuit.

Sulphide ore is treated via crushing, milling and flotation to produce copper in concentrate. The expansion of the sulphide milling circuit was commissioned in Q4, 2008, to maintain finished copper production as oxide ore is depleted and sulphide ore grades begin to fall as the mining horizon deepens.

Oxide ore is treated via crushing, milling, flotation, leaching and the SX/EW process to produce a sulphidic and gold bearing flotation concentrate as well as electro-won cathode copper.

Gold recovery by gravity was expanded by the addition of four new gravity concentrators in April 2010, thus providing two concentrators per milling train, and increasing gold recovery from all ore types. Gemini tables were installed to treat the gravity concentrates and produce a high-grade concentrate for direct smelting to gold bullion.

2013 Facts and Stats:

Total copper production (tonnes): 270,724

Gold produced (ounces): 167,395

Type of mine: open pit

Current estimated mine life: 17

Employees: 1,700

Multi-Phase Expansion:

Expansion in production capacity from 2012 to 2017 includes:

2012 - 2015 60% increase in overall production capacity

2012 - 2014 130% increase in oxide production capacity

2014 - 2017 90% increase in sulphide production capacity

Exploration:

More than 120,000 metres of resource development drilling has been completed

Updated minerals resource estimate shows increases of 121% in the resource tonnage and 74% in total contained copper metal

Targeted in-fill drilling in 2013 will focus on adjacent areas of inferred mineral resources

Outlook:

Production in 2014 is expected to be between 255,000 and 270,000

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