

Cristal Mining – Snapper



Client: Cristal Mining
Location: Australia
Commencement: 2007

Capability Groups: Mineral Processing
Completion: 2010

Services Provided

- Metallurgical testing
- Flowsheet development
- Basic and detailed plant design
- Process equipment supply
- Plant commissioning assistance
- Operator training

Highlights

- Mineral Technologies delivered a fully integrated solution
- Plant design utilises latest 3D drafting techniques
- Scale up design from pilot plant testwork to full scale operating plant
- Smart design reduced CAPEX
- Plant performance exceeded expectations



Smart Engineering

Having successfully completed the Ginkgo concentrator plant in 2005, Mineral Technologies was once again engaged at the new Snapper mine to deliver a total technology package.

The engineering team combined detailed plant design experience and expertise with the latest 3D software to deliver a highly specialised plant design for Snapper.

Throughout the process several design innovations delivered cost savings which reduced CAPEX without compromising performance. These included:

- Bolting the pontoon structure to minimise construction time; and
- Utilising 3D design software to identify material cost savings whilst maintaining efficiencies in plant access.

Specific characteristics of the Snapper deposit required utilisation of the latest process technology. A key component was Mineral Technologies' innovative Surge Bin design which delivers a constant flow during process stages. Two mass flow Surge Bins were integrated to provide stable feed to the rougher spirals and reduce the effects of feed grade variability.

The technology package also included the MD MG6.3 Spirals, specifically selected for their superior performance on the Snapper ore body.

