



WHITTLE CONSULTING

BUSINESS OPTIMISATION FOR THE MINING INDUSTRY

WHITTLE CONSULTING SIGNS CONTRACT WITH LARGO RESOURCES TO UNDERTAKE ENTERPRISE OPTIMISATION

4TH June 2015

Whittle Consulting signs contract with Largo Resources to undertake Enterprise Optimisation and new Operational Pit design on Largo's Maracas Menchen mine, Bahia State, Brazil.

Whittle Consulting Limited (WCL) is pleased to announce its partnership with Largo Resources (Largo, TSX:V LGO) to apply its Enterprise Optimisation solution on Largo's Maracas Menchen vanadium operation in Bahia, Brazil.

Enterprise Optimisation is unlike other unit focussed optimisation process. It analyses the full business chain simultaneously over life of mine with the focus being on NPV improvement.

WCL achieve these results through collaboration with the client's team, using proprietary 'Prober' software and applying recognised technical and economic maxims such as Ken Lane's variable cut-off grade, theory of constraints and activity based costing. WCL ensure that clients and asset owners like Largo have access to the strategic tool kit that Enterprise Optimisation provides.

The results are greater capital discipline, improved margins and accelerated cash flows, often doubling cash in the first 5 years after application. Enterprise Optimisation has been used on over 100 occasions in both projects and operations globally and has generally improved asset NPV between 5- 35% and significantly more.

The Maracas Mine uses open pit mining techniques from a central open pit deposit, with future satellite pits also planned along a seven kilometer trend. These feed a process plant consisting of crushing, grinding, magnetic separation, concentrate roasting and leaching,

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filtration and precipitation circuits to produce vanadium pentoxide (V₂O₅) flake and by-product of iron ore concentrate at a plant feed rate of 1.4 million tonnes per year. This entire process will be scheduled and modelled within Prober to develop monthly, quarterly and annual LOM schedules

The Maracas Menchen mine has a number of potential value added opportunities which have not been identified using conventional silo based optimisation techniques. We congratulate Largo's adoption of Whittle Best Practices and their team's willingness to apply these to further improve Life of Mine profitability and provide a strategic planning tool.

Whittle expects that through the application of Best Practices and knowledge transfer to the Maracas Menchen team, that these opportunities will be exploited and provide a significant improvement in both cash flow and overall NPV of their operation.

For further information on Whittle Consulting Limited or Enterprise Optimisation solutions for mine operations and projects please see:

www.whittleconsulting.com.au

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