



ARDMORE PHOSPHATE PROJECT

SCOPE OF WORK - FEASIBILITY STUDY

Centrex Metals Limited (Centrex) is developing the Ardmore phosphate rock deposit which is located in North West Queensland, approximately 120 km south of Mount Isa.

The Ardmore deposit is one of the few remaining undeveloped high-grade phosphate rock deposits in the world. Centrex intends to develop Ardmore into a mining operation producing approximately 800 wet ktpa of phosphate rock concentrate at an average grade of 34 to 35% P₂O₅ for domestic consumption and export throughout Asia-Pacific.

Centrex engaged GR Engineering to undertake a Feasibility Study for the design and construction of a processing facility and associated infrastructure for the Project.

The Process Plant at Ardmore has been designed to beneficiate the ROM ore to remove deleterious minerals and materials. These contaminants are typically very fine and as such, the principle method of beneficiation employed is particle separation and desliming. Some of the material is attached to the phosphorite pellet surface and requires energy to be removed. This is achieved using attrition cells. Rejected material from the beneficiation plant will be directed to a tails thickener and disposed of to the Tails Storage Facility (TSF), while the beneficiated concentrate will be dewatered and washed and stored in intermediate stockpiles. The concentrate will be reclaimed from the stockpiles with an FEL and fed to a rotary dryer to reduce the contained moisture prior to bulk transport and shipping.

Commodity: Phosphate
Region: Australasia
Location: North West Queensland
Project type: Greenfields, definitive feasibility study

Client: Centrex Metals Limited (ASX: CXM)
Completion date: April 2019
Project manager: Tony Mathwin
Process manager: Stan Kagiannis