

## PROJECT PROFILE

# KESTREL MINE EXTENSION

RIO TINTO COAL PTY LTD

*Mine: Kestrel Mine*

*Location: Queensland, Australia*

*Duration: 2 years*



The Kestrel mine is located 51 kilometres north east of the central Queensland town of Emerald. It currently produces approximately 4 million tonnes of high volatile coking and thermal coal per year for the export market, using the longwall mining method. The Kestrel Mine Extension project (KME) is aimed at replicating the required mine infrastructure on a new part of the mining lease to replace the current Kestrel Mine in 2012/13.

The KME project includes the development at two mine access drifts and the associated in-seam coal development to allow the commencement of longwall mining activities. The first drift is 4.75m high x 6.5m wide and 1,425m long and at a grade of 1 in 6. The second drift is 4.5m high x 6m wide and 1,673m long and at a grade of 1 in 8. The in-seam work includes driveage to establish the primary ventilation circuit, the tailgate drive head area and sufficient pit room for multiple development headings. After the pit bottom is established the contract works will carry on to develop the first longwall block.



## CONSTRUCTION

- Roadheader excavation
- Steel set installation
- Concrete invert
- Rock bolting
- Continuous miner excavation
- Shotcrete application
- Permanent services installation



## RESOURCES

- (2) S200MA Mitsui Miike
- (3) 10T LHD
- (2) 600+/hr conveyor system
- (2) Rockbolting arms
- (2) Shotcrete boom
- (2) Sliding floors (2)
- (2) Sandvik MD650 continuous miners