

PROJECT PROFILE

GORDONSTONE MINE DEVELOPMENT PROJECT

GORDONSTONE COAL MANAGEMENT PTY
LTD

Mine: Gordonstone Mine

Location: Emerald, Queensland, Australia

Duration: 1 year, 8 months

Gordonstone mine is an underground black coal mine situated near the town of Emerald in central Queensland. A remotely controlled surface winder was used to service the works using rail mounted equipment and a sliding floor. All equipment was modified to comply with Queensland Coal Mining flame proof standards. Excavation and support activities conducted in a continuous cycle through very soft wet mudstone, siltstone, clay and inter-bedded coal.

These activities continued with the target coal seam to establish the pit bottom infrastructure and initial roadway driveage for the establishment of the first longwall block.

Additional construction activities included excavation and support for pit bottom and initial coal roadways; roadheader excavation and support with steel sets, fibre reinforced shotcrete and rockbolts; installation of decline concrete floor and permanent rail track; excavation and support decline bottom turnout structure 5.2m wide x 4.15m high for 325m; blind bored shaft from surface and fully fitted out with winder, fixed guides and services, top and bottom man access stations and airlock; and excavation and support overpass stone drives 5m wide x 3m high and totalling 560m in length.



1,000m

5.2m wide x 4.5m high decline at a grade of 1 in 4



225m

2.4m diameter ventilation secondary egress shaft



RESOURCES

AM75 Roadheader
(2) Continuous miners
(4) Diesel RAM cars
(5) Rope hauled muck cars
(2) Rail mounted moran cars
Surface winder
Sliding floor



4,300m

5m wide x 3.2m high excavation and support in-seam coal roadways