

# Portal / Box Cut Design



## Operational Experience & Projects by Mining One Personnel

- A1 gold mine (VIC) - Review of existing portal site and recommendation to relocate following geotechnical site assessment. Produced subsequent reports outlining ground support design and methodologies for portal and initial decline development and review of ground support systems.
- Fosterville gold mine (VIC) - Portal entrance and upper decline ground support designs.
- Hera gold project (NSW) - Geotechnical assessment and ground support design recommendations for boxcut and portal.
- Mt Wright gold project (QLD) - Review of box cut and portal design, including appraisal of empirical and structural analysis methodologies applied.
- Peak gold mine (NSW) - Geotechnical assessment and ground support design recommendations for boxcut, side batters and portal face. Assessment based on site observations, structural/kinematic analysis (DIPS) and empirical ground support assessment (Grimstad and Barton).
- Mt Morgan mines (WA) - Preliminary guide to ground support requirements and site suitability for planned portal location, including recommendation for further geotechnical work.
- Walhalla mine (VIC) - Specified the portal and portal face ground support design for the stripped Eureka Western Adit.
- Cibaliung gold project (Indonesia) - Geotechnical assessment and ground support design recommendations for boxcut, portal and slope stability analysis.
- Avebury nickel mine (TAS)
- New Cobar mine (NSW)
- Ballarat goldfields (VIC)
- Pajingo gold mine (QLD)
- Union Hill Decline, Maldon (VIC)
- Dargues gold mine (NSW)



## Specific Mine Experience

- Cibaliung Project (Java, Indonesia) - Feasibility study and ongoing operational assistance.
- Mt Wright Gold Project (QLD) - Pre-feasibility study including ground support and stope design.
- Tritton Underground Copper Project (NSW) - Ground support and room and pillar designs.
- Victor South, Longshaft (WA) - Numerical modelling, including room and pillar design, stoping guidelines and sequencing, and ongoing assistance.
- Plutonic gold mine (WA) - Operational senior Sally Malay nickel mine (WA) - Numerical modelling, stope design and sequencing.
- Ballarat Goldfields (VIC) - Bankable feasibility study for an underground extension.
- Alliance Resources, Maldon gold mine (VIC) - Ground support reviews and ongoing geotechnical advice.
- Lepanto (Philippines) - Assessment of shaft instability including 3D stress modelling.
- CSA Cobar mine (NSW) - Stope design and sequencing, including 3D stress modelling.

## ABOUT US

Mining One is an exciting team of highly experienced and professional mining, geotechnical geological and hydrogeological consultants offering excellence in service and commitment to their clients with high level strategic, hands on practical design and implementation.

Our well respected team has extensive industry knowledge and experience in a diverse range of disciplines.

With our engineering knowledge and skills using a variety of software packages we are able to provide safe, cost-effective and problem solving solutions which reduce mine operating costs, increase productivity and maximise economic extraction.

For more information on any of our services please visit at:

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