



Internationally Experienced Lead Engineer

Innovation | Leadership | Emerging Technologies

With 26 years of experience in the mining industry Ben has worked with many of the world's largest coal mines. He has provided high end consulting services globally. Ben has worked in Gold, Coal, Oil Shale, Porphyry Copper, Bauxite, Phosphate, Nickel Laterites, Mineral sands and Explosives sectors. This includes PT Kaltim Prima Coal in Indonesia, PT Bukit Asam, PT Arutmin, Vale Moatize. His specialist expertise lies in geological modelling, mine planning, pit optimisation and scheduling. A proven problem solver, during his career he has led the design and implementation of mine planning systems and customised specific software solutions.

Ben is a skilled educator who has delivered training all over the world in various leading mine planning systems. He has undertaken Lerch Grossman optimisation studies for many of the largest coal mines in Indonesia, South America at El Cerrejon mine. He has experience in conceptual, prefeasibility and feasibility level studies and has worked with mining companies to develop study standards appropriate for each level of study. He has been the JORC signatory on a large number of reserve statements in both NSW and Queensland and has also been involved in several large prefeasibility and due diligence studies reporting to the financial sector.

Ben has a mature approach to engaging with different cultures, skill levels and diverse planning teams. His technical specialties include pit optimisation and design, equipment selection and application, productivity improvement studies, ST, MT and LOM scheduling, Landform and haulage modelling as well as JORC resource and reserve reporting.

Expertise

- **Pit Optimisation:** Determination of economic pit limits, margin ranking, sensitivity studies;
- **Design and Reserves:** Complex Pit and Ramp Design, Reserve definition, ROM/Product Model development, testing, reconciliation strategies;
- **Mine Planning:** Application of mine planning systems to solve planning challenges, establishment of best practice mine planning and modelling as well as equipment benchmarking;
- **Short and Medium Term Planning:** Development of schedule strategies to maximise coal recovery and reduce cost;
- **Tactical Planning:** LOM strategies to maximise resource recovery and optimise earthmoving fleet performance;
- **Landform and Haulage Modelling:** Haulage optimisation to minimise truck hours and achieve landform objectives. Truck fleet selection, Dump inventory calculation, Haulage strategies, Reject/Co-Disposal design and placement;
- **Wash Optimisation:** Product coal maximisation, Wash/Bypass strategies and coal blending strategies;
- **JORC Resource & Reserve Reporting:** Chartered professional engineer, Reserve Signatory;
- **Financial:** Development of detailed cost models, Budget schedule generation and reporting;
- **Due Diligence:** Mine engineering review and cost modelling;
- **Project Management:** Software selection, implementation, training, conceptual, prefeasibility and feasibility studies;
- **Technical Expertise:** ROM Model development, Reserve estimation, Spry model development, Communication with operations;
- **Software:** Deswik, Spry, Minex, XACT.

Career Highlights

- **Xenith Consulting:** Led the implementation of Spry at BHP Billiton's Mt Arthur Coal mine and Vales Moatize mine in Mozambique. Development of large LOM Schedule/Haulage Models for Mount Thorley Warkworth mine, Hunter Valley Operations, Peabody Coppabella, U&D Mining's Broughton project and Jellinbah's Lake Vermont project.
- **Gemcom Software:** Led the implementation of Minex at KPC in East Kalimantan in Indonesia where Ben trained 150 engineers and geologists. Ben has industry recognition as being an expert in mine planning systems, with a track record of providing efficient and accurate planning solutions for a wide range of deposits, pit designs and equipment configurations.

Professional Experience

Lead Mining Engineer	2018 – Current	Xenith Consulting Pty Ltd
Principal Mining Engineer	2014 – 2018	
Principal Mining Engineer	2009 – 2013	Palaris
Manager Sales & Support / Principal Mining Engineer	2001 – 2009	Gemcom Software Australia