



BEN SMEDLEY

Lead Mining Engineer

BEng (Mining) Hons – University of NSW
MAusIMM CP(Min)

Ben has over 26 years' experience in the Mining industry having undertaken geological modelling, mine planning, pit optimisation and scheduling work throughout many of the world's largest coal mines including PT Kaltim Prima Coal in Indonesia, PT Bukit Asam, PT Arutmin, Vale Moatize. Ben has worked in Gold, Coal, Oil Shale, Porphyry Copper, Bauxite, Phosphate, Nickel Laterites, Mineral sands and Explosives sectors. He has also designed and implemented mine planning systems and customised specific software solutions to suit various mine planning and operational complexities in the 24 years he provided high end consulting services globally. Ben's 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.

Ben has established detailed cost models and undertaken Lerch Grossman optimisation studies for many of the largest coal mines in Indonesia and also in 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. Ben 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.

Expertise

- **Pit Optimisation:** Determination of economic pit limits, margin ranking, sensitivity studies
- **Design & Reserves:** ROM Model development
- **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/Medium Term Planning:** Developing schedule strategies to maximise coal recovery and reduce cost
- **Strategic Planning:** LOM strategies to maximise resource recovery and optimise earthmoving fleet performance
- **Landform & Haulage Modelling:** Haulage optimisation to minimise truck hours and achieve landform objectives. Truck fleet selection, Assessment of alternate technologies on truck numbers and hours e.g. high angle conveyors, IPCC
- **Wash optimisation:** Product coal maximisation and blending strategies
- **JORC Resource & Reserve Reporting:** Chartered professional engineer, Reserve Signatory
- **Due Diligence:** Mine engineering review and cost modelling
- **Project Management:** Conceptual, Prefeasibility and Feasibility studies
- **Software:** Deswik, Spry, Minex, XACT.

Career Highlights

- **Xenith Consulting:** 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 and Jellinbah's Lake Vermont project.

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
Senior Mining Engineer	1995 – 2001	ECS International
Project Manager	1994 – 1995	Shaft & Tunnel South Bulli Colliery
Mine Planning Superintendent/Mining Engineer	1993 – 1994	Plutonic Resources – Darlot Gold Mine