



*Add value
to your operation.
Add confidence to
your investment
decision.*




Xenith

OPERATIONS PLANNING, DESIGN AND SCHEDULING



- Project, Concept & Feasibility Studies
- Resource Evaluation & Geological Modelling
- Operations Planning, Design & Scheduling
- Due Diligence & Technical Reviews
- Coal Industry Consulting
- Valuation & Corporate Advisory
- Metals & Minerals Industry Consulting
- Business Optimisation, Financial Modelling & Cost Review
- Infrastructure & Project Management
- Exploration Management
- Land Rehabilitation
- Environment & Approvals

OPERATIONS PLANNING, DESIGN AND SCHEDULING



XENITH PROVIDES A FULL MULTI-DISCIPLINARY CONSULTING SERVICE FROM RESOURCE TARGET GENERATION AND EXPLORATION MANAGEMENT THROUGH TO GEOLOGICAL MODELLING, MINE OPERATIONAL SUPPORT, FEASIBILITY STUDIES AND DETAILED MINE PLANNING, INCLUDING SPECIALIST FINANCIAL ANALYSIS, INFRASTRUCTURE DESIGN AND CORPORATE ADVISORY FUNCTIONS.

Xenith's planning team delivers real value to clients offering mine sites assistance with operations planning, design and scheduling. We have extensive experience in multiple commodities both open cut and underground including coal, base metals and precious metals.

Our dedicated team of engineering professionals have recent site experience drawn from a wide variety of management, technical and operational roles. Latest technologies and new design approaches have been incorporated into industry leading mining solutions.

Projects have been undertaken in Australia, South Africa, Indonesia and the Americas in recent times.

Expertise

Our team offers:

- Detailed Mine Design
- Pit Limit Determination and Optimisation Reserving
- Mining Method and Equipment Selection
- Scheduling Database Builds and Management
- Short to Long Term Scheduling
- Dump Design and Haulage Modelling
- Landform Modelling
- Conceptual through to Bankable Feasibility Studies
- JORC Reserve Estimation and Reporting
- Technical and Operational Mentoring.

Technology

Our team has expertise in, and utilises the following software:

- Deswik (Design, Scheduling, Aggregation, Dragline, Landform) • Spry • Vulcan • Minex
- 3d-DigPlus • Dragsim • Carlson • XPAC

CASE STUDY

Xenith has been engaged by a successful open cut mine in central Queensland producing 3Mtpa ROM coal and 46Mbcm pa total waste to provide mine planning assistance to their operation.

This work includes:

- Mine design and reserving for dig and dump activities
- Dragline system optimisation (Dragsim) and execution planning (3d-Dig)
- Short-Range Forecast scheduling
- Technical mentoring
- Construction of the site budget including setting of production goals based on industry benchmarking.

Xenith's input has ensured the site works to productive mine plans, an achievable budget and has technical mentoring provided to site personnel to improve their skill base. Our assistance has allowed the site to maximise cashflow through a prolonged period of low coal prices.

