

Mark Bobeldyk

SENIOR MINING ENGINEER

Qualifications:

- Master of Mining Engineering (Mine Management) - UNSW
- Graduate Diploma (Mine Ventilation)
- Bachelor of Surveying

Professional Memberships:

- Member of the Australasian Institute of Mining & Metallurgy (AusIMM)



Senior Mining Engineer LDO GROUP

- Technical reporting and pre-feasibility assessment for a number of external clients.
- Involvement with investor funding and due diligence assessment.
- Tendering and contract management, as client and contractor.
- Development and implementation of Hazard Management plans and associated systems for green-field and operating sites.
- Statutory Ventilation Officer's roles at numerous sites.

Project Coordinator HEAVENER UNDERGROUND - USA

- Mine design and technical reporting.
- Gas drainage designs (SIS & UIS) and contract development.
- Project establishment planning and progressive start up budgets.
- Major mining equipment/plant specification and tendering process.
- Due diligence responses.

Exploration Manager GLOUCESTER RESOURCES LIMITED - NSW

- Client appointed statutory representative with regulating authorities, relevant to all exploration functions.
- Exploration Licence operational approvals (REF/SDN's), annual reporting, renewals, relinquishment.
- Development of exploration programs and budgets for tenement progression.
- Management of sub-consultants for EIS baseline technical studies.
- Land access agreements and community consultation.

Project Manager (Ventilation works) LAKECOAL - CHAIN VALLEY COLLIERY

- Life of mine ventilation planning.
- Short term network design prior to upgrade.
- Single Entry high risk activity approval.
- Project manager for installation of primary ventilation fans, high voltage upgrade and services borehole at Lake Macquarie.
- Fan performance testing.
- Hazard management plan reviews.
- NGER reporting.

PREVIOUS EXPERIENCE

Prior to commencement with LDO Mark obtained invaluable experience in previous employment (both underground and open cut) as set out below:

- Vale Integra Coal (Glennies Creek) - Mining Engineer and Ventilation Officer2006-2009
- Billiton Mitsubishi Alliance Saraji - Open Cut Surveyor2005-2006
- Xstrata Newland Southern and Northern- Underground surveyor2003-2005

Mick Callan

SENIOR MINING ENGINEER

Qualifications:

- Bachelor of Mining Engineering (Hons I)
- PhD Mining Engineering
- Graduate Diploma (Coal Mine Strata Control)
- 3rd Class Certificate of Competency (Deputy)
- Ventilation Officer Competency

Professional Memberships:

- Member of the Australasian Institute of Mining & Metallurgy (AusIMM)



Mick has approximately 12 years' experience in the Coal Mining Industry both in Queensland and New South Wales.

Since Mick's commencement with the company three years ago, he has managed the projects set out below on behalf of the LDO Group in the following capacities:

Site Secondment - Technical Services Manager LAKECOAL - CHAIN VALLEY COLLIERY

Works undertaken included:

Life of mine planning, short and long term scheduling, tenement management, mining approval applications, geotechnical mine design, strata control management, risk management, contractor/consultant management, budgeting and financial management, production reporting, mine expansion projects.

Project Engineer VASSE COAL PROJECT - WA

Work undertaken for the project included mine design, financial modelling, scheduling, ventilation modelling, geotechnical design, mining equipment specification, surface infrastructure layout, mine approval application, tenement management, contractor/consultant management, liaising with community and departmental stakeholders and preparation of EPA referral documentation.

Senior Mining Engineer LDO GROUP

Works undertaken on behalf of LDO are:

Prefeasibility studies for various underground projects, project engineer Chain Valley Colliery, project engineer Gloucester Resources, tender applications, project approvals, tenement management, project budgeting and scheduling, risk management, contractor/consultant management.

PREVIOUS EXPERIENCE

Prior to commencement with LDO Mick obtained invaluable experience in previous employment as set out below:

- Underground Mining Engineer
- Mine planning and scheduling
- Risk management facilitation
- Underground Geotechnical Engineer
- Contractor Management
- Senior Consultant - Geotechnical Engineer
- Strata control design and implementation at various sites in both NSW and QLD
- Geotechnical mine design and management
- Geotechnical reporting and pre-feasibility studies
- Research and Development

Chris Ellis

ENVIRONMENTAL SPECIALIST

Qualifications:

- Bachelor of Environmental Science (Management Major)
- Graduate Certificate in Mineral Resources
- RABQSA – HSE Lead Auditor trained
- Training and Assessment
- Dams Safety Management for Ash, Tailings and Mining Dams (NSW Dams Safety Committee)
- Master of Business Administration (currently studying)

Chris has approximately seven years' experience in both the underground and open cut coal mining industry in New South Wales. Since Chris' commencement with the company in 2011, he has undertaken the following roles on behalf of the LDO Group:

Site Secondment – Environmental Officer LAKECOAL - CHAIN VALLEY COLLIERY

Some of the primary works undertaken to date for the project have included:

- Project approvals; under Part 3A and Part 4, along with successful modification of project approval obtained;
- NGER reporting, at both facility and controlling corporation level;
- Development of environmental management system in line with ISO14001;
- Project management for major capital expenditure / environmental projects;
- Securing federal government funding under the coal sector jobs package;
- Establishing and operating a community consultative committee;
- Upgrading environmental monitoring equipment and developing monitoring programs to meet current environmental standards;
- Government consultation and reporting;
- Obtaining water licences and modifying the site Environment Protection Licence; and
- Managing contaminated site investigation programs.

Site Secondment – Environmental Officer VALE AUSTRALIA – INTEGRA COAL OPERATIONS

Some of the primary works undertaken included:

- Day to day environmental management tasks, such as; monitoring, reporting, auditing, EMS development, rehabilitation planning and coordination, development and implementation of training packages;
- Contractor management, such as; work permits, plant introduction to site, tendering work, contract development and ongoing contractor management and review; and
- Training and development of environmental professionals, environmental due diligence, capital reforecasting, and SAP Environmental Compliance module development and training.

Environmental Support GLOUSTER RESOURCES

Works undertaken on behalf of the LDO Group included:

- Development of an environmental risk assessment template
- Involvement in planning focus meeting and EIS review, and
- Undertaking environmental risk assessments for the project

Prior to commencement with LDO, Chris obtained invaluable experience in previous employment (both underground and open cut) including the following areas:

Recruitment for environmental professionals, short listing and interviewing; Training and development of environmental professionals, Development of PDs and graduate training program; Implementation of real time monitoring systems; Project management; Developing, reforecasting and tracking capital and operational budgets; Feasibility studies; Risk assessment facilitation; Website redesign; Completing statements of environmental effects; and Utilising various ERP platforms.

Anthony McDonald

MINING ENGINEER

Qualifications:

- Graduate Diploma
(Coal Mine Strata Control)
- Bachelor of Science
(Geology Major)



Anthony has approximately 10 years' experience in the Coal Mining Industry both in Queensland and New South Wales.

Since Anthony's commencement with the company two years ago, he has been in the following roles set out below on behalf of the LDO Group in the following capacities:

Geotechnical Engineer LDO GROUP

External consulting work to the Australian coal industry; specialities include: CMRR, hazard plans, TARPs, strata management training, ground support audits, mapping, borescoping and analysis of monitoring data.

Site Secondment - Geologist LAKECOAL - CHAIN VALLEY COLLIERY

Work undertaken to date for the project has included underground geotechnical work and geotechnical design.

Geologist/Mining Engineer LDO GROUP

Technical reporting, data assessment, risk management and pre-feasibility assessments.

Prior to commencement with LDO Anthony obtained invaluable experience in previous employment (both underground and exploration) as set out below:

- Contractor management and task planning
- Risk Management
- Data collection, processing and management
- Data interpretation, reporting and presentation

Brendan Newham

SENIOR MINING ENGINEER

Qualifications:

- Bachelor of Engineering (Mining)
- Graduate Diploma (Mine Ventilation)
- Second Class Certificate of Competency (Undermanager)
- G3 – Minerals Industry Risk Management (MINE7033)
- RABQSA-OH – Auditing OHS Management Systems
- RABQSA-TL – OHS Auditing as audit team leader
- Licensed for auditing ventilation arrangements (Coal Mine Health and Safety Regulation 2006)

Professional Memberships:

- Member of the Australasian Institute of Mining & Metallurgy (AusIMM)



Brendan has approximately 17 years' experience in the coal mining industry both in Queensland and New South Wales. Brendan oversees a wide variety of mining engineering projects from pre-execution studies through to project implementation. Brendan commenced with the Company in April 2013.

Senior Mining Engineer LDO GROUP

Primary works undertaken to date include:

- Technical reporting, pre-feasibility and feasibility assessments
- Life of mine design and scheduling for internal and external clients.
- Licensed Ventilation Arrangements statutory auditing for external clients.
- Life of mine ventilation analysis and design for internal & external clients.
- Gas reservoir analysis and gas management planning.
- Inseam drilling contract management.
- Involvement with investor funding and due diligence assessment.
- Tendering and contract management, as client and contractor.
- Development and implementation of OH&S Management Systems for green-field and operating sites, including risk management.
- Statutory Ventilation Officer's role at numerous sites.

Site Secondment - Ventilation Officer LAKECOAL - CHAIN VALLEY COLLIERY and MANNERING COLLIERY

Some of the responsibilities include:

- Manager of the management systems associated with this role, including goaf sealing management plans for miniswall panels.
- Day-to-day, medium and long term ventilation and monitoring arrangements at both operations.
- Contractor management.

Prior to commencement with LDO, Brendan obtained invaluable experience in previous employment as set out below:

- Extensive experience in management of all facets of technical services including ventilation engineering, spontaneous combustion control, gas management, geotechnical engineering and mine planning.
- Technical services roles which have entailed various engineering and estimating project work for a variety of mine sites.
- Familiar with common mining engineering related software; Xpac, Minex, AutoCAD and Ventsim / Ventsim Visual.
- Risk management and has extensive experience in the development and review of management systems.
- Developed a ventilation and gas management related business unit within a large Australian consultancy firm.
- Involved with the senior management of a high production longwall mine with an underground inseam gas drainage system and modern ventilation arrangement.
- Involved with the scoping and design of a gas flaring project.
- Involved with the design of a Ventilation Air Methane Regenerative Afterburner (VAMRAB) demonstration plant and the connection of this to an operating underground mine.
- Statutory Ventilation Officer at numerous underground coal mines, including multi-seam underground coal mines.
- Design, approval and implementation of a pillar extraction mining system under the tidal waters of Lake Macquarie.
- Involved in an underground spontaneous combustion event, and subsequent staged mine recovery process.
- Worked as the statutory Shift Undermanager, supervising all underground personnel and operations.
- Managed a team of people in engineering and estimating for a major Australian contractor.
- Support and training to mine sites in ventilation engineering, short, medium & long term planning & mine budgeting.
- Achieved growth of a contractor business unit through tendering and being awarded new work.

Jacqui Purcell

(nee Monk)

SENIOR GEOTECHNICAL ENGINEER

Qualifications:

- Bachelor of Civil Engineering (Hons II)
- Masters of Mining Geomechanics (Mining Engineering)

Professional Memberships:

- Chartered professional (Geotechnical Engineering, Mining) through the Australasian Institute of Mining & Metallurgy (AusIMM)
- RPEQ (14792)
- Secretary of the Eastern Australian Ground Control Group



Jacqui has approximately eight years' experience in the Hard Rock and Coal Mining Industries both in Queensland and New South Wales.

Jacqui has recently joined the company and is assisting the company in the following capacity:

Senior Geotechnical Engineer LDO GROUP

External consulting work to the Australian Coal Industry; capabilities include: ground support design, pillar design, wide roadway support design and departmental approval, CMRR, pre-feasibility studies, shaft and drift design, geotechnical mine design and planning, longwall geomechanics, seal to strata interaction analysis, strata failure management plans, risk assessments, hazard plans, TARPs, strata management training, incident analysis, ground support audits, mapping, borescoping and analysis of monitoring data.

Prior to commencement with LDO Jacqui obtained invaluable experience in previous employment (both site roles and consulting) as set out below:

- Planning, Implementation, Engineering Design and Report of Geotechnical Issues for Operational Mines
- Ground support design and optimisation
- Monitoring blast vibrations and modelling shotfiring sequences for vibration minimisation
- Shotcrete mix design and QAQC
- Data interpretation, reporting and presentation
- Report on rockfall causes and controls
- Linear modelling of orebody extraction sequences
- Geotechnical mapping ranking systems
- Ground Control / Strata Failure Management Plans and Geotechnical TARPS
- Mine planning and orebody extraction sequencing
- Ground Awareness Training
- Underground inspections and QAQC of ground support installation
- Underground monitoring