



Olsen Consulting Group Pty Ltd

Resumé



Martin Olsen

Martin is a Mining Engineer and Director of Olsen Consulting Group Pty Ltd, and has over 16 years experience in the Mining Industry. This experience includes working as an underground operator, Mining Engineer, Senior Mine Planning Engineer, Ventilation Officer, Senior Compliance Engineer, Underground Projects Co-ordinator, Fire Officer, Deputy, Shift Undermanager and Tech Services Manager. Martin is actively involved in Mines Rescue and has been since 2000 and has competed in numerous mines rescue competitions.

Martin completed an MBA (Technology Management) in 2006 and believes that economic decision making principals are fundamental to the success of any business.

He makes use of his extensive knowledge in mining and ventilation engineering and project management and prior experience to provide clients with practical and cost-effective solutions to problems.

Qualifications

- Bachelor Mining Engineer (Honours) 1999
- 2nd Class Mine Manager's Certificate of Competency (Qld) 2002
- Ventilation Officer's Certificate (MNC.U.109A) 2003
- Master of Business Administration (Technology Management) 2006

Specialist Expertise

- Planning and conducting ventilation surveys. Interpretation of survey data to determine roadway characteristics
- Development and maintenance of ventilation models. This includes including scenario analysis with economic evaluation and recommendations
- Life of mine planning and 5 year planning
- Development and maintenance of project schedules
- Development and review of health and safety management systems
- Development and implementation of standard operating procedures and safe work procedures
- Development of risk management plans
- Facilitation of risk assessments. Competent in the use of WRAC and Fault Tree Analysis
- Continuous improvement of existing operations systems
- Audit of site fire control systems, procedures and practices

Employment History

1 / 2009 – present

Mining Engineer and Director, Olsen Consulting Group Pty Ltd, Wollongong

12 / 2007 – 12 / 2008

Mining Engineer, Olsen Environmental Consulting Pty Ltd, Wollongong

9 / 2007 – 11 / 2007

Deputy, Metropolitan Colliery Helensburgh Coal Pty Ltd, Helensburgh

12 / 2003 – 9 / 2007

Shift Undermanager and Fire Officer, Dendrobium Mine BHP Billiton, Mt Kembla

10 / 2001 – 12 / 2003

Senior Mine Planning Engineer, Senior Compliance Officer and Ventilation Officer, Kestrel Mine Rio Tinto Coal Australia, Emerald

5 / 2000 – 10 / 2001

Mining Engineer, Southern Colliery Capcoal, Middlemount

3 / 1999 – 5 / 2000

Mine Technician, Moranbah North Coal, Moranbah

Employment Responsibilities

Consultant Mining and Ventilation Engineer (12 / 2007 - present)

- Pressure balancing of bord and pillar goaf 20m above a new longwall installation to mitigate gas inrush and spon com risk
 - Contract Technical Services Manager for a mine transitioning from bord and pillar to a longwall operation. Team consisted of Surveyor, Geotechnical Engineer, Ventilation Officer, Environmental Technician and 2 x Mining Engineers. Weekly Tech Services and specialist meetings. Monthly reports and presentations. Establish explosives storage licence on the colliery magazine. Sealing and inerting waste workings
 - Life of mine ventilation assessment for Cook Colliery
 - Assessment of NGER emissions sources at North Goonyella and the systems in place for the monitoring and recording of this data. Development of a project schedule for a central vacuum plant for goaf drainage, SIS and UIS activities
 - Life of mine ventilation assessment for Carborough Downs Coal Mine
 - Life of mine ventilation assessment for Integra Underground Coal Mine
 - Project Management of the installation of gas monitoring systems for ventilation carbon emissions for NGER compliance for Peabody Energy Australia Coal.
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- Ventilation assessment on GLB2 project for Peabody Energy Australia Coal. This involved building ventilation network models, conducting scenario analysis and interpreting the results
- Ventilation assessment of the Isaac Plains train load out tunnel
- Ventilation assessment of the auxiliary ventilation arrangement in gateroad development at Moranbah North Coal as part of the Dev 85 project. Ventilation models were constructed and calibrated to survey results and a scenario analysis conducted. Recommendations were provided taking into account legislated requirements and the mine's Safety and Health Management System
- Contract Ventilation Officer at Carborough Downs Coal Mine August 2009 to June 2010. During this time was actively involved in changes to the mine SHMS with regard to the commencement of longwall production and sealed the first longwall goaf.
- Site co-ordinator of rehabilitation works of spontaneous combustion in old underground workings
- Provision of relief deputy coverage at Metropolitan Colliery in the longwall, development and outbye
- Provision of relief undermanager coverage at Metropolitan Colliery and Berrima Colliery
- Longwall change out shift co-ordinator at Metropolitan Colliery
- Longwall roof fall recovery shift co-ordinator at Metropolitan Colliery
- Review of on shift and shift to shift communication for Metropolitan Colliery. Development of Shift communication standard involving deputy to undermanager communications, deputy to deputy communications and undermanager to undermanager communications. This also included the creation of new production shift reports and handover and prompt sheets for communications.
- Relief coverage for gas drainage co-ordinator at Metropolitan Colliery

**Shift Undermanager – Fire Officer – Underground Projects Co-ordinator, Dendrobium Mine
BHP Billiton Illawarra Coal (12/ 2003 – 9 / 2007)**

- Shift undermanager from project stage to full scale LW production. Including LW, 4 development units and up to 130 people underground on shift
- Statutory fire officer for the mine
- 2 – yearly reviews of the Fire and Explosion Management Plan
- Development of associated procedures and standards that make up the Fire and Explosion Management Plan
- Annual change out of all underground fire hoses to be sent away for pressure testing
- Monthly inspections of all underground fire fighting equipment
- Management of the fire fighting budget and scheduling of fire fighting costs for business planning purposes
- 2 – monthly training for service and underground fire teams

- Management of outbye services including:
 - Contract secondary support – megabolt and flexi bolt installation
 - Outbye services and general underground crew
 - Maintenance of sumps and pumps
 - Contract road works crew

Senior Mine Planning Engineer - Senior Compliance Officer and Ventilation Officer, Kestrel Mine Rio Tinto Coal Australia (10 / 2001 – 12 / 2003)

- Life of mine and 5 yearly planning using XPAC underground module. Producing budget metres, tonnes and coal quality profiles for the operation.
- Usage schedules for conveyor belt, belt structure and ventilation appliances based on mine plan outputs
- Chairing the weekly planning meeting, resolving conflicts and allocation of resources. Creating a weekly plan sheet for use in the operation of the mine
- Facilitation of the monthly mine planning meeting. Resolving conflicts in planning and producing a Gantt chart for the 12 month plan for the mine
- Mine ventilation planning using Ventsim
- Supervisor for control room and outbye deputies
- Responsible for the use and maintenance of the gas chromatograph, tube bundle and real time monitoring for the mine
- Dealing with the operational issues of working in a high CO₂ gas regime
- Management of ventilation control device contractors
- Review of Ventilation Management Plan and Gas Management Plan

Mining Engineer, Southern Colliery Capcoal Anglo Coal Australia 5 / 2000 – 10 / 2001

- Business Plan schedules using ECS Ellipse
- Daily production information collected and reported
- Weekly production reports produced
- New Ventsim model created for the mine

- Flow testing conducted on surface fans and auxiliary fans
- Maintenance of the tube bundle system
- Maintenance and use of the 4 coil SIMTARS EZGas gas chromatograph
- Measurement and interpretation of borehole data for estimation of the quantity of water stored in goaf areas
- Tender preparation for ventilation control device contract and concreting of LW706 face line contract. Including the subsequent management of these contracts

Mine Technician, Moranbah North Coal Shell Coal 3 / 1999 – 5 / 2000

- Underground operator in cut and flit gate road development. Operated the following equipment:
 - Eimco 130
 - Jeffrey Ram car
 - Joy Quad Bolter
 - Longwall support crew:
 - Setting cans in MG cut throughs
 - Advancing transformers and pump stations
 - Stone dusting
 - Pumping
 - Rib bolting
 - Pipe installations
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