

Sean Buxton

Curriculum Vitae

Contact Me

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Qualifications

- RIIRIS601D (G3 + G7) Establish and maintain the risk management system (28 Aug 2020)
- RIIWHS601D (G3 + G7) Establish and maintain the WHS management system (31 Aug 2020)
- Basic First Aid (2017)
- NSW Mining Engineering Manager (UG and Quarry Metalliferous) Practising Certificate (Jul 2018)
- SA Underground Mine and Quarry Manager's Manager's Certificate Mutual Recognition (2009)
- Republic of Ireland Deputy (Shiftboss) Certificate (2001)
- Level 3 Mine Rescue, Institute Emergency Response, WA (2000)
- WA First Class Mine Manager's Certificate - Mutual Recognition (1999)
- Member of The Australian Institute of Mining and Metallurgy (1996)
- NT Unrestricted Mine Manager's Certificate (1995)
- QLD First Class Mine Manager's Certificate of Competency (1993)
- Bachelor of Engineering in Mining Engineering, SAIT (1989)

- Matriculation, Sacred Heart College, Adelaide (1984)
- Winner of the Zinc Corporation Limited Scholarship (1984)

Professional Membership

- Member of AusIMM (Aust. Institute of Mining and Metallurgy) +25 years

Skills

- Basic LEAN principles including site team goal and plan development and associated performance tracking
- "Psychology of Risk" on site programs (2016-17, 2021-22)
- Accounting Management System – JDE, PRONTO (basic user)
- Safety Management Systems – C-Safe, P2B, MYOSH, SKYTRUST
- Participated and facilitated both TAPROOT and ICAM investigations
- Scheduling Software (Basic understanding) - MINEWORKS PLANNER and EPS, MineSched, DESWIK, ALASTRI

- Microsoft Office Software Suite (Proficient)
- Financial Management Unit - Postgrad. Dip. in Management (APESMA)
- Management Skills for Technical Personnel (MTE)
- Planning and Feasibility Studies (MTE)
- Advanced Ventilation Course (M. Howes)
- Ground Control in Underground Mining (WASM)
- Mine Rescue (IERS Level 3 – WA; NSCA - NT)

Strengths

- Forward, insightful and thorough planning
- Adaptability to difficult situations
- Safety and Environmental Awareness and Ethic
- People Management and Communication
- Project Optimization and Efficiency
- Quality Control
- Mine and Construction projects and startup specialist
- Consistent Code of Conduct around honesty and integrity
- Innovation, Ideas and Concepts

Responsibilities

Leadership Roles

- Study Lead - True North Copper's Mount Oxide Project (current)
- Lead Mining Engineer / Resident Manager - Avenira's Wonarah Phosphate Project (current)
- General Manager Operations – Core Lithium (5 yrs and current to Feb 2023)
- Mining Manager – Contract (2020, 4 Months, Evolution's Cowal Gold Operations", NSW)
- Operations Manager - Tomingley Gold Mine (4 yrs 9 mths)
- General Manager - White Dam Gold Mine (3 yrs 2 mths)
- Technical Services Manager – Contract (10 Months, Ernest Henry Mine)
- Technical Services / UG Manager – Contract (10 Months, Granny Smith)
- Feasibility manager – Contract (5 Months, Osborne Mines)
- Project Manager - Contract (+18 Months, Osborne Mines)
- Contracts Manager - Contract (6 Months, Osborne Mines)
- Pre-feasibility Manager - Contract (4 Months, Osborne Mines)
- Underground Manager - Alternate (17 Months, Darlot Gold Mine)

Other Roles

- Inventor, Developer and patent owner of BuxPlug ®
- Senior Mining Engineer (2.5 years, TMJV)
- Registered Mine Manager - Relief (1 Year, MRM and TMJV)
- Mine Foreman and Shift Boss (12 Months, MIM and MRM)
- Section Mine Surveyor (9 months, MIM)

Construction Projects

- General manager operations and Project Manager (until end Feb 2023) Core Lithium's – NT Finnis Lithium Project (+\$100M CAPEX including site construction and open Pit + UG pre-operations readiness phase)
- Operations Manager during site construction for both White Dam Gold Mine 2009 (\$16M CAPEX) and Tomingley Gold Mine 2013 (\$115M CAPEX)
- Managed shallow dip boxhole drilling and hand-held rise mining projects
- Managed Surface and Underground Raisebore projects
- Project coordinator ventilation change (Plutonic Mine)
- Coordinated design, procurement and construction of Underground MONO Pump Station (<\$1M)
- Assistant Coordinator 2 x 150m Ventilation Shafts using HORIDIAM Methods (+\$2M)
- Supervising Crusher Chamber excavation (+\$2M)
- Part of mine startup team, Macarthur River Mine (1994-96)
- Supervising Suspended Conveyor construction (+\$2M)
- Supervising Portal construction using ARMCO Tunnelling system (<\$1M)
- Tails' dam contract manager (+\$1M)
- Coordinated waste dump rehabilitation (+\$100k)

Mine Planning

- Setup and manage Long, Medium- and Short-Term forecasting and budget planning processes at various mines
- Reviewed LOM Schedule Wallaby UG, Granny Smith Mine, 2007
- Prepared Strategic Business Plan (Mining) for Osborne Mines, 2003
- Setup Pre-feasibility and Life of Mine Plans (2 – 5 Year) for Osborne Mines
- Designed 600 and 1000 orebody development and stoping plan and sequencing strategy
- Prepared Operating and Capital Budget Forecasts Darlot Gold Mine, 1999/2000
- Designed the Macarthur River Mine room and pillar mining plan for both shallow and steep dip mining methods

Employment Chronology

The Journey so far

Underground (15 yrs)

Open Pit (14 yrs)

Project Management (5 yrs)

Mount Oxide Project – True North Copper Ltd

4 Months (Oct 2023 – current)

Study Lead – (4 Months on Contract)

Responsibilities include:

- Set gating decision process for Project Development
- Review of historic database and undertake high level options assessment and setup scoping study parameters
- Coordinate testwork and scopes for various key specialist study areas
- Establish business relationships

Wonarah Project – Avenira Ltd

9 Months (Apr 2023 – current)

Lead Mining Engineer / Resident Manager – (3.5 years on Contract)

Responsibilities include:

- Review and contribute to all Feasibility Study sections including Mining, Safety and Environmental
- Setup the Risk Management System for submission to NT Regulators
- Undertake various pre-construction and operation risk assessments
- Manage pre-construction tender processes including workup of mining and small construction and earthworks, and mine camp scopes
- Establish business relationships

Finniss Lithium Project – Core Lithium Ltd

5 Years (Jan 2018 – Feb 2023)

General Manager Operations and Project Manager – (3.5 years Contract)

Responsibilities include:

- Review and contribute to scoping, pre-feasibility and feasibility studies
- Manage pre-construction tender processes including workup of all site scopes including mining, ore transport, ICT and water supply and storage
- Establish business relationships with NT service providers and suppliers
- Prepare Open Pit sterilisation report for Grant's deposit

- Coordinate scope of work for underground mining study for BP33 and Carlton
- Establish macro framework for pre-operations readiness
- Liaise and engage with NGOs, project and community stakeholders
- PCBU for nominated operator under the HWS Act and Regs (NUL) NT
- Frequent contributing member of Core executive team
- Responsible company representative during pre-strip open pit operations, construction of crushing and screening and DMS plants, all site earthworks infrastructure (dams, roads, drains, bunds etc), temporary and permanent administration office complexes, potable and waste water treatment plants, and start of plant commissioning
- Setup site owner's teams and rostering including complete recruitment and onboarding processes
- Setup and manage site security system and critical procedures
- Setup site safety management system including SMS gap analysis, Critical Hazard Management Plans and corresponding Critical Control Plans
- Setup all safety, production and cost performance database and reporting for open pit pre-strip, CAPEX and OPEX, projects and schedules
- Setup Site Water Management strategy
- Introduced Alastri medium term scheduling for mining team

Employment Chronology...

Cowal Gold Operations – Evolution Mining

4 Months (Feb 20 – Jun 20)

Open Pit Mining Manager – (Contract)

Responsibilities include:

- Review and contribute to FY21 Budget process
- Annual Critical Control and Safety audit across site
- All Statutory and Regulatory requirements for the NSW Mine Engineering (Quarry) Practising Certificate
- Incident investigation and risk mitigation and control
- Mining department optimisation and restructure including onboarding of senior and critical roles
- Managing fleet of 100t to 350t class excavators (total up to 5) + 150t to 185t class CAT Trucks (total up to 19) in Stage H cutback moving in excess of 20Mtpa total material movement ex-pit
- Part of site leadership team

Tomingley Gold Mine – Alkane Resources Ltd

4 Years 10 Months (Sep 2012 – Aug 2017)

Operations Manager

Responsibilities included:

- Review Pre-project feasibility
- Develop mine pre-operational readiness plan
- Liaise and engage with project and community stakeholders
- Advise on operational issues during plant, leach pad and pit infrastructure construction and plant commissioning
- Setup site management, teams and rostering
- Setup and manage site security system and procedures
- Assist in Mining Contractor Tender process
- Setup site safety management system including Principal Hazard Management Plans and Principal Control Plans
- All safety, production and cost performance for open pit + dump leach + carbon adsorption plant
- Manager Scoping and Pre-feasibility Study for TGO underground
- NSW Quarry Manager Certificate holder
- Compliance to NSW relevant regulations including EPA, DRE, POEO and WHS Acts

Employment Chronology...

White Dam Gold Mine – Polymetals

3 Years 2 Months (Apr 2009 – May 2012)

General Manager

Responsibilities included:

- All safety, environmental, production and cost performance for open pit + dump leach + carbon adsorption plant
- SA First Class Mine Manager Certificate holder
- Setup site safety management system
- Setup site management, teams and rostering
- Setup and manage Mining Contractor Tender process
- Assist Site Construction Manager during plant, leach pad and pit construction
- Assist process Superintendent during plant commissioning
- Community liaison
- WDJV Site Exploration Team overseer

Ernest Henry Mine – Xstrata NQ Copper

11 Months (Jan 2008 – Dec 2008)

Technical Services Manager – (Contract)

Responsibilities included:

- Manage daily running of Technical Services Team of 42 including Survey, Geology, Environmental, Mine Planning and Design, Geotechnical
- Reduce staff turnover from 40% down to a stable level
- Establish new Technical Services team through recruitment of skilled personnel
- Acting Senior Geotechnical Engineer (until replacement found)
- Maintain high standards of safe working for both Technical Services and Mine Operations teams
- Provide mentoring and direction for young Technical Services Team
- Project Manager of Pit Dewatering, Depressurisation, Pit Slip remediation plan, Tails Dam lift
- Setup scope of work for Fibrecrete contract

Employment Chronology...

Gosowong (Kencana UG) Mine – Newcrest

1 Month (Nov 2007)

Project Mining Engineer – (Contract)

Responsibilities included:

- Draft and present a mine Production Plan for Kencana UG using Underhand Cut and Fill

Granny Smith (Wallaby UG) Mine – Barrick

10 Months (Jan 2007 – Oct 2007)

Technical Services Coordinator / UG Manager – (Contract)

Responsibilities included:

- Manage daily running of Technical Services Team
- Manage coordination of daily running of Mine Operations Team
- Deputy underground manager (Statutory, WA)
- Acting Mine Manager (1 month)
- Manage all Wallaby underground major Projects
- Maintain high standards of safe working for both Technical Services and Mine Operations teams
- Provide mentoring and direction for young Technical Services Team
- Project Manager of Raisebore Project – Tender through to completion .
Project Manager Ventilation Fan purchase Project – Tender only

Osborne Mines – Barrick

6 Months (Aug 2006 – Jan 2007)

Feasibility Study Manager – (Contract)

Responsibilities included:

- Undertake and complete Feasibility Study for KULTHOR deposit
- Coordinate feasibility team – both BARRICK and Innicon Team members
- Review medium term stoping sequence 1000 Block
- Carry out review of viability paste fill for the 1000 Block
- Carry out economic evaluation of 1100 1M stoping blocks and redesign as required

Employment Chronology...

Cadia East Mine – Newcrest

1.5 Months (May 2006 – Jun 2006)

Senior Project Engineer – (Contract)

Responsibilities included:

- Assist coordinate commissioning of new ATLAS 6.0m long-round Jumbo
- Collate and process performance data
- Design development face patterns for new ATLAS software

Plutonic Gold Mine – Barrick

4 Months (Nov 2005 – end of Mar 2006)

Senior Project Engineer – (Contract)

Responsibilities included:

- Prepare Capital AFE's for 2005 / 06 including scopes and cost estimates
- Prepare Baltic / Central Major Vent Upgrade Schedule of works
- Project Manager for new underground cribroom and 134 Pump Station
- Prepare overview, scope of work and AFE for Plutonic Gold Mine Optimisation Study · Prepare AFE and start underground CO Monitor / CITECT project

Osborne Mines – Placer Dome Asia Pacific

33 Months (Feb 2003 – Oct 2005)

Senior Mining Engineer and Project Manager (Contract)

Responsibilities included:

- Review mine reserves 2003
- Prepare Life of Mine Schedule
- Prepare Strategic Business Plan for Mining Department
- Prepare Long Term / Life of Mine Designs
- Undertake Backfill and Pillar Recovery Analysis
- Pre-feasibility Study on Underground KULTHOR resource
- Prepare Tender Document for 1000 Block Underground Development, Raisebore and Boxhole Programmes and Production Drilling Programmes
- Project Manager Underground, Production Drilling and Raisebore

Employment Chronology...

Darlot Gold Mine – Barrick

4 Months (Sep 2002 – Dec 2002)

Mining Engineer – Production (Contract)

Responsibilities included:

- Ring and Blast Design LHOS, SLOS and narrow vein
- All daily Production Engineering tasks
- Pre-feasibility study open pit
- Mine Reserve reconciliation
- Primary and Secondary vent surveys

McArthur River Mine – MIM

6 Months (Feb 2002 – Jul 2002)

Mining Engineer – Planning (Contract)

Responsibilities included:

- Short term Planning and Design of Room and Pillar development and Production areas
- LHOS and Bench Stope Design and Drill and Blast Design

TARA Mines, Navan, Rep. of Ireland – Outokumpu

12 Months (Dec 2000 - Nov 2001)

Project Mining Engineer for Thyssen Mining International

Production Responsibilities:

- Daily, Weekly and Monthly Mine scheduling
- Daily, Weekly and Monthly Mine Production KPIs and database management
- Cablebolt drilling design
- Input into all design and production aspects of the mine
- Daily and EOM reporting process
- Prepare Contractor Claim (+800k EURO / mth)
- Relief OH&S Manager for contractor

Employment Chronology...

Darlot Gold Mine – Homestake Gold Australia

23 Months (Jan 1999 – Nov 2000)

Alternate Underground Manager / Senior Mining Engineer

Production Responsibilities

- Daily, Weekly and Monthly Mine scheduling
- Drill and blast design
- Monitor all physicals and mine database
- Input into all design aspects of the mine
- Stope design critique including SLOS, LHOS, Uphole Retreat
- EOM reporting process

Leadership Roles

- Underground Manager – Alternate
- Management of underground contractor
- Underground Foreman – Alternate
- Relief Mine Rescue Coordinator

Financial

- Preparation of Contractor Claim Approvals (> \$2M per month)
- Assist with Annual Budget Forecast – Capital and Operating
- Preparation of Monthly Mining Accrual

Other

- Design and coordinate construction of underground pump station
- Set up training program and implement VULCAN mine software
- Responsible for production targets of 680,000 t/yr @ 5.3 g/t

Employment Chronology...

Tanami Mine Joint Venture – Otter Gold / Acacia JV

31 Months (Jun 1996 – Dec 1998)

Alternate Mine Superintendent / Senior Mining

Engineer

Scheduling responsibilities included:

- Life of Mine Budget Schedule
- Daily, Weekly and Monthly Mine Planning and Scheduling

Planning and design “Multiple Open Pit” Mining:

- Open pit optimisation, design and cessation
- Implemented planning procedures and standards
- Implemented geotechnical standard operating procedures
- Geotechnical monitoring of pit wall slopes
- Design of Mine Site Garbage Waste Disposal Area

Drill and Blast

- Implemented Standard Operating Procedures
- Optimise Blast Design

Leadership Roles

- Acting Mine Superintendent
- Deputy to Registered Mine Manager
- Emergency Response Group Coordinator

Financial

- Preparation of Contractor Claim Approvals
- Assist with Annual Budget Forecast - Capital and Operating
- Preparation of Monthly Mining Accrual
- R & D Proposal Submissions to Australian Taxation Office

Employment Chronology...

McArthur River Mine – MIM / Marubeni / Mitsui / Mitsubishi JV

26 Months (Apr 1994 - May 1996)

Production / Project Mining Engineer/Mine Startup Team

Scheduling responsibilities included:

- 18 Month rolling Forecast and Budget Production Schedule
- Development of weekly target schedule
- Capital Forecast Schedule
- Stockpile growth forecast

Projects included:

- Assist JV Senior Mining Engineer in Vent Shaft sink project
- Research into new methods of taking survey line and grade using lasers

Planning and design Room and Pillar Mining

- Long and short term mine conceptual to final design
- Implemented planning procedures and standards
- Training others on ENVISAGE / VULCAN
- Design options for underground truck-loading bays
- Mine ventilation conceptual flow diagrams
- Prepared "Ground support standards" document
- Prepared "Services installation standards" document
- Redesigned and installed dewatering, pumping and drainage

Drill and Blast

- Electrical Firing System, Procedures and Commissioning
- LHW Design
- Face Blasting Pattern Standards for Development Drives

Leadership Roles

- Deputy to Mine Manager (fortnightly basis)
- Acting Underground Mine Foreman

Financial

- Processing of contractor period claims
- Calculate unit costs and show capital cash flow status/forecast
- Budget Appropriation Requests / Capital Work Orders

Employment Chronology...

Procurement, supply and equipment selection included:

- All drilling, ground support and ventilation consumables
- Provide technical support for the selection of underground LHDs, trucks, service platforms, charging vehicles and integrated tool carriers

Mount Isa Lead Mine - MIM

17 months (Nov 1992 – Mar 1994)

Planning Mining Engineer

Mount Isa Lead Mine Development Engineer Sub-level Benching:

- 12 Month Development Budget
- Weekly, monthly, and yearly forecast and budget schedules
- Setting up and monitoring of key performance indicators
- Research and implementation of both short- and long-term development strategies
- Orebody markups and face pictures
- Setting up of monitoring and testing programme for “Lead in Blood Levels” of all mining personnel
- Rationalisation of Lead Mine drainage system
- Ground support standards for development mining
- Research and implementation of new aggregate filling system for benches
- Technical support for Planning and Production sections
- Setting up of self-managed development mining teams

Employment Chronology...

Mount Isa Hilton Mine – MIM

Ten months (1992)

Underground Shift Boss

- Underground shift coordinator in haulage, development and production
 - Responsible for co-ordination of development mining, ground support, services and production in Racecourse Benches, Lead Mine
- Coaching and training teams and individual team members in:
 - safety
 - production targets
 - technical areas
 - team concepts

Mount Isa Lead Mine - MIM

Ten months (1991)

Underground Surveyor on secondment

- Responsible for line and grade control of development headings
- Ring markups for stope and bench production drilling rigs
- Calculation of pay measurements
- Input and processing of peg station information
- Input of survey pickups using Microstation

Mount Isa Hilton and Lead Mines - MIM

6 months (1991-93)

Mine Projects Engineer

- Evaluating performance of TAMROCK DATA SOLO
- Procurement, tendering and capital work orders
- Drilling consumables testing and monitoring
- Comparison testing and recommendations on
 - hollow groutable bolts
 - Split-Set and Cotter Pin friction rockbolts
 - continuous grouting pumps
- Research and recommendations on face charging techniques and efficiency
- Research and recommendations on eyebolt design standards

Employment Chronology...

- Acting supervisor of wetfill plant
- Setting up of short- and long-term plant maintenance programme

Mount Isa and Hilton Mines – MIM

Two months (1990)

Ventilation Engineer

- Monitoring and research of underground pyrite explosions
- Evaluating fan performance
- Providing technical support for planning teams
- Daily monitoring of underground ventilation conditions
- Planning and installation of ventilation controls

Mount Isa Lead and Hilton Mines - MIM

Nine months (1990)

Graduate Training Underground

- Underground award experience in the following:
 - mining school
 - ring firing benches and stopes
 - secondary blasting
 - hand-held and mechanised cut and fill mining
 - production ring drilling
 - core drilling and grouting
 - shafts, crushers and haulage

The Good Word...

Please contact me if you require a referee
