

# Nick Lyons

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**Date of Birth:** 10/06/1987 (27)

**Driver's License:** Full C class

**Residential Location:** 10/37-39 Sir Thomas Mitchell Rd, Bondi beach, NSW 2026

**Citizenship:** Australian / Irish

**Completed Study:** B.Sc. (Hons) Geology, Geophysics and Environmental Geoscience (The University of Adelaide).

## Industry Experience / Employment History

**2014 – Present (1.5 years) - underground mine geologist** – *Prominent Hill Copper Mine, Oz Minerals underground operations.*

During my time in the Prominent Hill underground mine I was part of an underground copper/gold operation that produces 10,000 tonnes of copper and 15,000 ounces of gold per annum. The method of mining was long-hole open stoping. My role in the geology department was a production role in which I was responsible for both the day to day running of the mine as well as long term project work and assistance to the resource geologists. Tasks included:

- Grade control, including sampling and mapping of headings fired daily, monitoring daily material movement, stockpile management and daily reconciliations.
- QAQC including end of month reports.
- Core logging for production and resource drilling
- Structural and lithological modelling and wire framing for mid-year resource release.
- Generation of stope designs and geological models including simulations and grade estimations for stopes.
- Co-ordination of diamond drill rigs, including drill hole design, Diamond drill crew management and grout/ backfill programs.
- Extensive use of Vulcan, Datamine software.

**2013 - 2014 - Graduate mine geologist (1 year)** – *Prominent Hill Copper Mine, Oz Minerals open cut operations.*

During my time in the Prominent Hill open-cut mine, I was part of an open-cut copper/gold operation that produces 75,000 tonnes of copper and 125,000 ounces of gold per annum. The open-cut operation included a fleet of five Liebherr 996 excavators, two 9350 Liebherr excavators and fifty-three 973 CAT dump trucks. My role in the geology department was a production role in which I was responsible for all parts of the day to day running of the mine which included:

- Responsibility of 2 RC grade control rigs, and all drill hole design and coordination associated with grade control.
- QAQC including end of month reports.
- Generation of ore designs and geological models including simulations and grade estimations.
- Day to day liaising with survey and mining departments ensure safe, efficient and productive mining in relation to all geological interest within the open-cut pit.
- Extensive use of Vulcan, Datamine and OBO ore modelling software.
- Geological mapping, RC chip logging and general geological data collection from the open pit.
- Geotechnical mapping and modelling in Vulcan

**July 2012 - December 2012 (6 months) - Graduate mine geologist - *Kanmantoo Copper Mine, Hillgrove Resources.***

Kanmantoo copper mine is a small copper/gold mine in the Adelaide Hills, South Australia. Mineralisation is present in small stringer like veins and is commonly associated with sed-ex style mineralisation. The deposit produces 20,000 tonnes of copper and 7,000 ounces of gold annually. During my time at Hillgrove Resources I developed an understanding of open pit mining, the mining and geological procedures involved and the safe working manner which needs to be undertaken in mining and exploration operations. The specific skills I learnt were;

- Face mapping.
- RC chip and blast hole logging.
- Involvement in grade control drilling programs,
- Ore block design and modelling
- SG density modelling program for a resource upgrade.
- Extensive use of geology software including Dips program, logchief and Surpac use
- Ore mark-ups
- Day to day stockpile management and reconciliation of material movement.
- Structural and lithological modelling and wire-framing which included many hours studying and interpreting structural measurements taken from historic diamond drill logs.

➤ **2010 - 2012** Kanmantoo Copper Mine, Hillgrove Resources – Student geologist, Pit Tech

Tasks involved:

Face mapping, floor mapping, ore spotting, RC chip logging and involvement in grade control drilling programs, blast hole marking and logging, ore block mark-ups, some use of geology software including Dips program, logchief and Surpac. I also spent many hours studying and interpreting historical drilling and mapping. During my time at Hillgrove I developed an early understanding of open pit mining specifically the importance of accurate and timely sampling.

➤ **2010 – 2008 Uranium SA – Junior Geologist**

Undertook an array of different duties including data entry, logging of drill samples, assistance in classification of samples, extensive field work, rehabilitation of drill sites, safe operation of heavy drilling equipment, ability to work alone and safely in very remote parts of outback Australia. The field work was done in my university holidays of 2008-2009. These drill samples are from a rotary mud drill rig and I am familiar with the drilling process of one of these rigs along with the samples produced by a rotary mud rig.

**Demonstrated skills and abilities:**

- Use of mining software including Surpac, Vulcan, Datamine and Microsoft access
- Ability to deliver projects on time and to a high standard
- To work in a high pressure production role co-ordinating a team of pit technicians and samplers.
- Liaising with different departments and companies within a mining operation
- Ability to use multiple computer applications including AutoCAD and excel and word
- Able to follow instructions adeptly
- Fast learner coupled with eagerness to improve skills
- Able to work individually or in a team
- Excellent communication skills in both written and verbal (English)
- Ability to carry out and complete task independently and thoroughly

**Education:**

- **2012** - Completion of **Honours (Geology)** at the University of Adelaide. Thesis title : *Evidence of magmatic hydrothermal mineralisation at Kanmantoo copper mine, South Australia*
- **2011** – Completed a **B.Sc. Geology, Geophysics and Environmental Geosciences** at the University of Adelaide.
- **2006** – Successfully completed the 1<sup>st</sup> year of a degree in psychology at the University of South Australia with GPA Credit average
- **2005** – Successfully completed year 12 studies at Rostrevor College with a TER of 85.3

**Interests:**

I enjoy anything to do with or involve sports and outdoor activities. Through my degree in geology I have developed a passion for this field of science and for travelling. I love getting out in the field and having a hands on approach. I also love music and play the guitar.

**References:**

Chris Cox: Mine geologist, Oz minerals +61 417 879 003

Tim Neale: Senior mine geologist, Oz minerals +61 417 702 217