



Professional Resumé of Geoffrey Hokin

Personal Details

Name: Geoffrey Hokin MSc (Hons.) Geology
Location: Toowoomba, QLD
Occupation: Geologist, Exploration Manager

Career Summary

In my Geology career I have worked extensively in production and exploration geology in coal, coal seam gas, and conventional and shale gas exploration. In addition to formal qualifications in Geology I hold qualifications in Business Management and a Diploma in Workplace Training & Assessment. My Masters Degree in Geology was awarded in 1984 from the University of Wollongong and my Masters Honours degree in 1990.

As the Manager Exploration & Operations for Armour Energy I was heavily and directly involved in the successful identification of two new gas fields in the Proterozoic sediments of the McArthur Basin with these finds reported to the ASX in August 2012.

I have experience in green and brown field exploration, data acquisition and validation, project management, team development, leadership and training, personnel management, statutory reporting, contract negotiation, WHS, OHS&E, Environmental Management, and coordination of contractors.

Within my geology roles I have been responsible for exploration and project management, cultural heritage, local aboriginal group liaison, land & stake holder liaison, team management, planning, coordination and logistics, rig supervision, camp establishment and management, rehab coordination, Coal, and Gas well geology supervision, geophysics interpretation, local and regional seam correlation. I have managed teams of geologists and technical specialists providing a wide range of services and been involved in general resource delineation and exploration activities and managed various scientific investigations and coal and gas sampling projects.

I understand the on ground issues associated with project development on exploration and production across various operations throughout the Northern Territory, Queensland and New South Wales.

My corporate career has spanned over 20 years with positions from National Manager, General Manager, and Group General Manager to Company Director. I have held positions of responsibility that include accountability for mergers and acquisitions and I have negotiated multi-million dollar contracts across South Korea, mainland China,



Northern America, Northern Europe, the Pacific Forum countries and throughout Australia.

I have been responsible for the establishment of strategic direction and business development involving complex communication across a number of organizations and committees. I have had bottom line budget responsibility of a portfolio in excess of \$250 million and managed staff and resources to support this portfolio. I have submitted analysis reports upon request to the Australian Securities Investment Commission on the commercial impact of proposed take over's and mergers of major organizations within Australia and I have been an active member of State and Federal Government committees.

Work Experience

Principal Consultant at KAG Enterprises Pty Ltd January 2002 - Present

As the Principal Consultant for KAG Enterprises my experience includes project and site exploration management for small and major mining and exploration companies, drill program planning and supervision in green and brown field operations, resource evaluation and business development. My duties have included planning, scheduling and logistics; statutory reporting including daily, monthly & quarterly drilling and geology reports as well as daily activity reports, contract and contractor management, team leadership and mentoring, camp supervision, team management, and coordinating drill crews, drill rig supervision, scheduling and logistics and contractor coordination, data management, land access, OHS&E, site safety management and operating as the Site Safety Representative as well as camp supervisor. I have been responsible for obtaining regulatory approvals for cultural heritage, seismic and drilling programs as well as the development and approvals of well designs. I have trained and managed teams of geologists and technical specialists providing a wide range of geological services to production and exploration operations and been involved in resource delineation.

My contracts have been as Exploration Manager, Site Supervising Senior Field Geologist; Senior Site Geologist; Senior Well Site Geologist,; and Rig Geologist on various projects.

My geology duties have included tenement evaluation, exploration & production drilling with different rig types, sizes and drilling methods including SIS, directional, under and over balance drilling, under-reaming and eccentric bit drilling, down hole testing, sampling, coal quality sampling, Australian standard compliant gas desorption testing (Q1, Q2 in field), data acquisition, micro density bore hole logging, supervision of Drill Stem Testing, well and casing design, data interpretation; proving and logging of 4, 6" and 8" bore and core hole samples, chip and mud sample lithology logging, geophysical data-log interpretation, seam correlation and land holder contact. I am experienced in constructing drill and casing tallys, and supervising BOP pressure casing integrity tests.

Exploration Manager at Armour Energy April 2011 - Present

As the exploration manager I am responsible for green field exploration program development and project management/supervision for conventional and unconventional gas within the companies extensive tenements.

The responsibilities include tenement evaluation, project development, planning and operational management of an un/conventional gas exploration program including cultural heritage approvals and local Aboriginal group liaison, contract management, exploration scheduling & planning, team development and supervision, resource evaluation, statutory reporting, budgeting and account management as well as geophysical and seismic acquisition and data interpretation. Within the role I am responsible for WOHS&E and environmental policy development and implementation across the tenements.

My experience includes the tenement evaluation, design and development of the exploration and drilling programs (including directed (MWD) and vertical exploration and pilot production wells) in conventional targets and tight shales.

As the exploration manager I was heavily involved in the successful identification of two new gas fields in the proterozoic sediments of the McArthur Basin in the NT for the company.

Senior Geologist at Metgasco Ltd June 2010 - March 2011

In this role I was responsible for exploration project management and providing input to the geological and technical planning of exploration, appraisal and production wells and assisting with the long-term planning of drilling. In addition I was responsible for well site geological services including logging, sampling and mud logger supervision, Interpretation and analysis of sample and wire line results and the maintenance of geological databases.

I had the responsibility for obtaining drilling and other permits from the DII-MR, reporting of geological information as required to management and the Department; as well as the development and maintenance of the Clarence Moreton Basin geological model. I liaised with the key operational personnel to ensure safe and successful drilling operations and with the geophysical consultant to develop and refine the prospect and lead inventory for the basin. I was responsible for ensuring that environmental aspects of the program were outlined and adhered to and conducted to comply with the statutory requirements. And, I worked closely with the OH&S/SHE Officer to develop safe working programs for all field personnel.

Senior Production Geologist (Contract) at Arrow Energy Ltd July 2008 - March 2010

In this role I was responsible for the operations and management support to the companies drilling activities in the Surat, Clarence Morton and Coastal Basins. My key responsibilities were to advise and assist the company engineering, drilling and

operations personnel in the effective planning, supervision and execution of production drilling programs and to facilitate the successful execution of the exploration program within this region. This included effective planning, scheduling and logistics for the drilling programs.

I managed a team of geologists and technical specialists providing a wide range of geological services to the company production and exploration operations and managed daily drilling activities and 15 direct report personnel.

A significant part of the key duties were to supervise, train and mentor exploration and production geologists (both domestic and international), Technical Assistants (Science Officers) and rig supervisors and to coordinate production geology operations with relevant drilling, site operations and contract personnel; plan, organize and conduct annual reviews of production drilling performance and to identify opportunities for improvement in safety, productivity and cost. I also was responsible for coordinating support of the TA team to the exploration rigs across the region and for facilitating the well testing programs (including DST and wire line) and other third party contractors to support the geology program. I was also a member of the company supervisors' safety committee, and supervisors' management committee.

**Senior Well Site Geologist (contract) at Qld. Gas Company
April 2008 - June 2008**

My role was to supervise the operations of an exploration coal seam gas rig for the company in the Surat Basin of Queensland and to coordinate the third party contractors associated with the drilling operations. I worked closely with the site Company Man and drilling contractors and provided interpretation of down hole geophysical logging data to determine case points and pick total depth of the hole as well as to supervise DST and other required on site gas flow, permeability and porosity testing. In addition to well site duties I provided guidance, training and mentoring to company junior field staff.

**Senior Well Site Geologist (Contract) at Blue Energy Ltd
March 2008 - April 2008**

My role was to supervise the operations of an exploration coal seam gas rig for the company in the Injune/Mt Moffat region of the Surat Basin of Queensland and to coordinate the third party contractors associated with the drilling operations. I worked closely with the site Company Man and drilling contractors and provided interpretation of down hole geophysical logging data to determine case points and pick total depth of the hole as well as to supervise DST and other required on site gas testing. I also undertook on site gas desorption testing to Q1 standard. Part of this role was to mentor and train junior well site geologists for the company.

**Senior Field Exploration Geologist at Xstrata Coal
December 2006 - March 2008**

My role was to coordinate and supervise the field operations for the exploration of the JV tenements of Xstrata in the Wandoan/Taroom region of the Surat Basin. I managed a team of geologists and technical specialists providing a wide range of geological services to the company exploration operations.

The focus of this role involved general resource delineation and exploration. I was responsible for managing various scientific investigations and coal sampling projects while coordinating the site preparation; rig auditing, drill site surveying and rehab, daily drilling program operation and supervision of the team of site geologists, geophysical loggers, drill contractors and associated personnel. In addition I prepared the daily geological and field progress reports. I undertook the scheduling, field logistics and data management for the field operation as well as operated as team leader and camp manager. Part of these duties was to operate as the Senior Site Safety Representative and to conduct the toolbox communication meetings and undertake the site inductions required of the Safety Management Plan while maintaining the necessary records and data. While performing these duties I also directly supervised the operations of a chip and core rig while overseeing the operations through the team of a number of other exploration rigs.

Supervising Senior Site Geologist at New Hope Coal Australia November 2005 - December 2006

Initially my role here was as rig geologist. I then took on the responsibility to coordinate the daily drilling activities for the exploration program in the Acland area and to manage the data from the field to the head office including data input to Prolog®. Part of these duties was the scheduling of the daily drill program, coaching and mentoring of the team of geologists and to oversee the coordination of site preparation, cultural heritage and site rehab. While in the role I undertook the correlation of the Wipanna seams of the Pittsworth/Felton area for the company and confirmed sequence stratigraphy while naming the seams for the company based on the down hole geophysical logs.

Exploration Geologist Thiess Dampier Mitsui November 1980 - December 1982

My role was to explore and develop the coal reserves of the Bowen Basin on the Red Hill lease of Central Queensland (now known as the Riverside Mine) with responsibility for the daily management of a drill rig and crew and surveying staff as well as the proving and logging of bore & core hole samples, and coal quality seam samples.

Education

University of Wollongong
University of Wollongong
Macquarie University
Australian National University
Adelaide Institute of TAFE

Master of Science (Hons), Geology, 1990
Master of Science (M.Sc.), Geology, 1984
BSc, Archaeology & Soils, 1980
BSc, Geology, 1978
Cert IV, Business Management, 2001

Southern Cross Institute of Learning Diploma, Training and Assessment, 2010
Southern Cross Institute of Learning Certificate IV Workplace Training & Assessment, 2009

Publications

- ◆ Sulphur in Coals of the Bowen Basin. 1984 Research thesis MSc (Hons).
- ◆ A guide to the interpretation of soil and plant tissue analysis (Soils of the Northern NSW Western plains) 1988.
- ◆ East to West: An Introduction to commerce between Chinese and Western Business - A Resource Manual. 2005.

Other Training

Industry specific

- ◆ MNCG1001A Apply Risk Management Processes, 2007 - Axial Training P/L
- ◆ MNCG1002A Implement and Apply Risk Management Processes, 2007 - Axial Training
- ◆ MNCG1008A Conduct Safety and Health Investigations, 2007 - Axial Training P/L
- ◆ MNCG1009A Communicate Information, 2007 - Axial Training P/L

Team leadership, Coaching & Mentoring

- ◆ Role of the Front Line Manager, 2009 - Arrow Energy
- ◆ Leading a work team, 1997 - Australian Institute of Management
- ◆ Conflict Resolution Train the Trainer, 1994- United Nations Assoc. of Australia
- ◆ Resolution and management of Conflict, 1994 - United Nations Assoc. of Australia

Safety

- ◆ Senior First Aid, 2007, 2008, 2009, 2010, 2011, 2012 - St Johns' Service
- ◆ Advanced Safety Auditor, 2009 - SMC (UK) Ltd
- ◆ Hazardous Area Awareness, 2009 - Competency Training Pty Ltd
- ◆ Work Place Health & Safety, 2003 - Qld Government Division of OH&S
- ◆ Work Place Health & Safety for Managers, 2004 - Qld. Dept. Health
- ◆ H₂S Safety Awareness, 2012 - Maersk H₂S Safety Services

Project focus

- ◆ Project Management, 1999 - Australian Institute of Management & Business Success Group
- ◆ Internal Auditing of Quality Systems, 1996 - Quality Assurance Services
- ◆ EMS The environmental Auditor, Best Management practice as a subset of ISO14000, 1997 Quality Assurance Services
- ◆ Australian Trade Practices Act (1974) Rev. 1995, 1997 & 2003