



STEVEN M. MCINTYRE

Base Adelaide

CAREER SUMMARY

A broadly experienced geoscientist with an established record as an innovative thinker, effective communicator and a facilitator of change. Broadly recognised as an expert in risk analysis and portfolio management with a proven record of designing, implementing and managing all associated systems.

Significant operational expertise in risk analysis and portfolio management

- Recognised champion for rigorous, unbiased technical work and prospect evaluation
- Broad operational experience specialising on evaluation of prospect and play potential
- Responsible for wide adoption of effective probabilistic risk assessment methodologies
- Responsible for design, implementation and ongoing management of the risk assessment process and exploration portfolio
- Responsible for design and ongoing management of peer review process
- Design and implementation of prospect and play assessment software
- Coordination of exploration inventory and portfolio
- Reporting to management and staff on a regular basis in order to ensure buy in and consistent application of systems
- Training of management and staff in order to ensure consistent application of systems
- Conducted systematic reviews of past predictive performance working with operational teams to identify key learnings, potential for further improvement and to implement such change where value could be demonstrated
- Material changes to potential of individual prospects and exploration assets resulted providing a sound foundation for determination of future strategy
- Expertise in value of information and bidding strategy methodologies
- Liaison with staff and management from exploration, drilling, exploitation and planning

Significant expertise in risk analysis and portfolio management as a consultant and trainer

- Evaluation of prospect and play potential
- Testing the integrity of company portfolios in order to advise management on
 - the level of confidence they can have in the portfolio and implications for existing strategy
 - how the integrity of company portfolios can be increased leading to improved development of strategy and business outcomes
- Worked with for more than 40 companies including Shell, Encana, Saudi Aramco, PDO, Unocal, PTTEP, Petronas, Occidental, KMG, OMV, CNOOC, Hardman Resources, EMP, Chevron, JOGMEC, PetroSA, Swift Energy, Woodside, AWE and Santos.



- Worked with geoscientists, engineers and managers from Asia, Middle East, Africa, Europe, North America and South America
- Expertise and personal interaction consistently rated as excellent

Broad operational experience in assets characterised by high levels of activity

- Broad experience as exploration and development geologist, new ventures and planning
- Exploration Team Leader responsible for management of exploration operations
- Development Team Leader responsible for management of development operations
- Exploration Oil Project Leader responsible for managing company oil exploration portfolio
- Planning Team Leader participating in Budget and Five Year Plan preparation and responsible for:
 - Generating and reporting on quarterly production forecasts
 - Generating and reporting on long term capital and production schedule
- As Exploration Quality Control Supervisor responsible for review and standardisation of procedures including
 - Technical work flows
 - Geotechnical tools
 - Predrill and Postdrill documentation
 - Project maturation and delivery
 - Data management
 - Peer review
 - Risk analysis

EMPLOYMENT HISTORY

2007 to present: PetroRA.

Provision of risk assessment training and consulting services.

Key consulting work included:

- Evaluation of prospect and play potential
- Conducting systematic reviews of past predictive performance working with operational teams to identify key learnings, potential for further improvement and assisting in implementing such change where value could be demonstrated
- Testing the integrity of company portfolios in order to advise management on the level of confidence they can have in the portfolio and implications for existing strategy.
- Advising how the integrity of company portfolios can be increased leading to improved strategy and business outcomes.

2003 to 2006: Rose & Associates.

Provision of risk assessment training and consulting services.

Key consulting work included:

- Evaluation of prospect and play potential
- Conducting systematic reviews of past predictive performance working with operational teams to identify key learnings, potential for further improvement and assisting in implementing such change where value could be demonstrated



- Testing the integrity of company portfolios in order to advise management on the level of confidence they can have in the portfolio and implications for existing strategy.
- Advising how the integrity of company portfolios can be increased leading to improved strategy and business outcomes.

1996 to 2003: Santos Ltd.

Exploration and Development Team Leader for active acreage onshore Australia.
Management of operations.

Planning Team Leader for onshore Australia Business Unit. Participating in Budget and Five Year Plan preparation. Responsible for generating and reporting on quarterly production forecasts and long term gas project capital and production schedule

Various Corporate planning roles:

- strategic review of company assets
- feasibility studies for major exploration and development programs.

With the Corporate Review and Audit Team delivered material improvements to the evaluation and peer review process for exploration and development opportunities. Previously the process lacked technical rigour, was reactive and adversarial.

Member of team charged with the responsibility of designing, implementing and managing the portfolio management initiative. Responsible for coordination of exploration input to ongoing Portfolio Management process.

1992 to 1996: Ampolex Ltd.

Evaluation of new venture opportunities in Australia. Involved review of 21 basins and evaluation of in excess of 50 farm in and gazettal opportunities. Developed a probabilistic approach to play evaluation to rank basins.

Designed and implemented a risk management methodology and software for company with extensive international inventory comprising prospects from SE Asia, Australia, New Zealand, Papua New Guinea, North America, South America and North Africa. Developed a training program involving a balance of internal and external resources. Responsible for management of overall risk process. Designed company peer review process and chaired peer review process.

1982 to 1992: Santos Ltd.

Positions ranging from geologist to Team Leader working exploration and development assets in the Otway, Carnarvon, Browse, Bonaparte, Cooper and Eromanga Basins.

Company oil exploration program coordinator.

Member of new ventures team.

Developed model for the origin and migration of oil reservoir within the Eromanga Basin leading to a major modification of proven play extent and character. Resulted in an extended period of successful drilling following an extended period of high failure rates.

Developed model for the origin and migration of oil in the northern Browse Basin leading to a major modification of proven play extent and character. Recommended no further



activity in large areas previously considered highly attractive. High levels of industry activity have delivered no commercial discovery in that area in the subsequent 20 years.

As Exploration Quality Control Supervisor responsible for review and standardisation of exploration procedures following company reorganisation. Major emphasis on evaluation of risk management procedures and exploration performance. Carried out a review of past exploration performance. The results of this review strongly supported probabilistic risk management. Adoption of such procedures was recommended and accepted.

1981 to 1982: Esso Australia

Exploration and development experience in the Gippsland Basin.

PUBLICATIONS

Analysis of Predictive Performance in the Eromanga Basin, APPEA Journal, 2012.

Reliance of Portfolio Management on unbiased project assessment, Schlumberger Executive Forum, 2006

Complex Traps: A method for calculating the chance weighted value outcomes for a prospect with multiple trap styles, AAPG, Calgary, 2005.

Estimating and Appropriate Rigour in the E&P Business, SPE Applied Technology Workshop, Application of Probabilistic Methods to Reserves and Project Economics, Brisbane Gold Coast, Australia 18-21 October, 2000

A Permian Origin for Jurassic Reservoired Oil in the Eromanga Basin. In: O'Neil B.J. (ed), The Cooper and Eromanga Basins, Australia. Proceedings of the Petroleum Exploration Society of Australia, Society of Petroleum Engineers, Australian Society of Exploration Geophysicists (SA Branches), Adelaide, 1989.

The Gidgealpa Oil and Gas Field: A Case History. In: O'Neil B.J. (ed), The Cooper and Eromanga Basins, Australia. Proceedings of the Petroleum Exploration Society of Australia, Society of Petroleum Engineers, Australian Society of Exploration Geophysicists (SA Branches), Adelaide, 1989.

QUALIFICATIONS

1979 The University of Adelaide. Bachelor of Science in Geology

1980 The University of Adelaide. Honours Degree in Geology



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