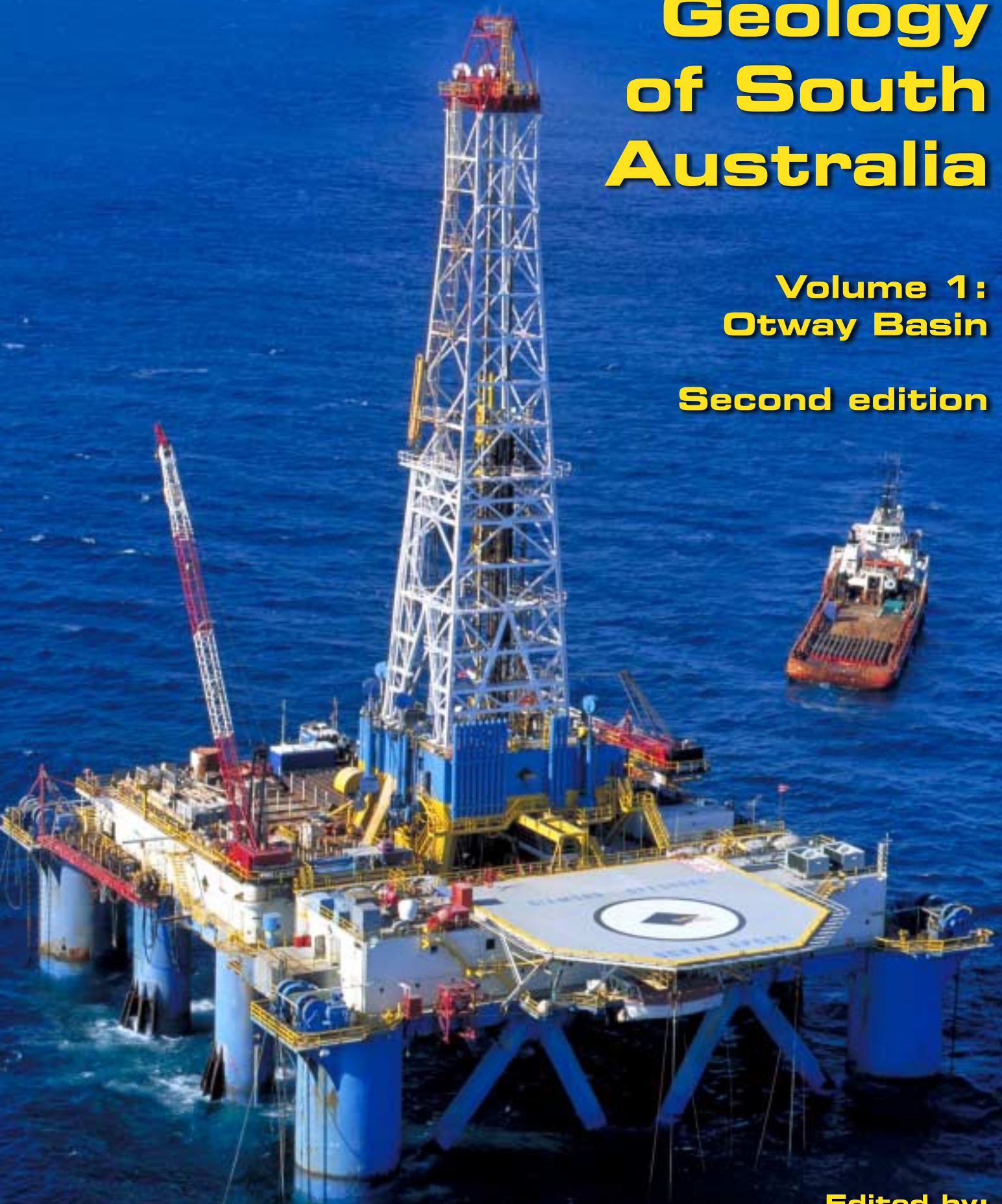


Petroleum Geology of South Australia

**Volume 1:
Otway Basin**

Second edition



The petroleum geology of South Australia

Volume 1: Otway Basin

Edited by
PJ Boulton and JE Hibbert

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**MINERALS
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Preface

This treatise is the second edition of *The petroleum geology of South Australia, Vol. 1: Otway Basin*. The format has been changed from being primarily concerned with producing a hard copy to that of being available and easily upgradeable in digital form. Since research was done for the previous volume 31 wells have been drilled onshore in South Australia and one off shore, 2200 km of 2D seismic and 214 km² of 3D seismic have been shot and 33 scientific, peer reviewed papers published in Australian journals.

The Petroleum Geology of South Australia Series commenced in 1995 with *Volume 1: Otway Basin*. This second edition of the Otway Basin includes significant updates to the structural understanding of the basin as well as recent exploration and production data. Other volumes in the series are *Vol. 2: Eromanga Basin* (1996), *Vol. 3: Officer Basin* (1997) and *Vol. 4: Cooper Basin* (1998). The Bight and Duntroon Basins volume is scheduled for release in late 2002, and the Stansbury, Arrowie and Warburton Basins for 2003.

It is intended that the volumes be 'fit for purpose' and for the first time the series is being released as CD only and has been designed to be screen friendly. This approach will enable this volume to be updated and republished quickly as significant new data come to hand. Seismic contour maps and image-processed data which include the latest open file interpretations are continuously available on request from PIRSA's seismic interpretation digital database.

Any comments on this volume are welcome and will assist us in improving future publications. Please address correspondence to the Director, Petroleum Group, PIRSA <pirsa.petroleum@sa.gov.au>

Further information is available through the petroleum channel of the PIRSA website <<http://www.petroleum.pir.sa.gov.au>>.

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Much of the work has relied on data acquired by exploration companies over many years.

This volume contains the contributions of a number of organisations and individuals who have willingly assisted the authors. We especially wish to thank Geoscience Australia, Fugro Australia, Origin Energy, Santos and many individuals authors for permission to produce certain illustrations.

Many of the ideas were generated for the first edition during discussions with Richard Hillis, David McKirdy, Dianne Edwards, Rod Lovibond, Patrick McCarthy, Tim Scholefield, Rob Willink, Andy McGee, Bridget Little, Dogan Perincek and Geoff O'Brien. Additional discussions that have contributed to the second edition have been contributed by Mike Hall, Christian Noll, Stephen Gallagher, Guy Holdgate, Ian Duddy, Andrew Krassay, Ken McClay, Martin Norvik, Alan Partridge, Roger Morgan, Roger Blake, Chris Boreham, Marita Bradshaw, Leigh Brooks, Royd Bussell, Bronwyn Camac, Andrew Constantine, Andrew Davids, David Dewhurst, James Donley, Ric Jason, Richard Jones, Nick Lemon, Lisa Ryan, Sally Phillips, Peter Straus, Richard Suttill, John Teasdale, Rob Weedon, Alan Waldron and Ahsan Aburas. Brent Jensen-Schmidt compiled the offshore seismic mapping and merged this with the onshore mapping, which was done by Bruce Finlayson. Both were under contract to MESA.

The first edition was written by Elinor Alexander, Neville Alley, Terry Aust, Dave Cockshell, Bob Frears, Tony Hill, Roger Morgan, John Morton, Andrew Rowett, Alan Sansome, Marigold White and Tim Wilson. This edition was updated by Peter Boulton, John Morton, Bernie O'Neil, Rosalie Pollock, Marigold White and Terry Aust. Don Vinall assisted in compiling figures.

Peter Hough and Dragan Ivic assisted with sourcing seismic data, and Rob Langley with environmental data. Dom Calandro of Mineral Resources Group sourced aeromagnetic data. Design and drafting services were provided by PIRSA Publishing Services — Chris Badenoch, Gayle Bruggemann, Vanessa Darling, Rachel Froud, Danni Fulcher, Jacque Hibbert, Michael Ross, Jeff Weber, Jamie Williams and Annemarie Williamson. John Drexel provided assistance with editing and Adam Doyle with reference compilation.