

# **THE APPEA JOURNAL**

## **2000**

VOLUME 40 PART I  
Technical and Commercial Papers



**The APPEA Journal**  
**40th anniversary edition**

2000 APPEA Conference  
Brisbane, 7-10 May 2000

**ISSN 1326-4966**

**Front cover:** This year's cover is by Philippe Vipathkun (Santos Ltd). It symbolises the development of the oil exploration and production industry in Australia. The horseman represents the pioneering spirit of the industry at its first commercial production centre in eastern Queensland in the 1960s. The other images—the rigworkers, the 3D seismic display and the beam pump—show the operations, science and technology and production facilities embraced by the E&P industry in the last 40 years.

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VOLUME 40 PART I

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Appreciation is extended to all external reviewers, too numerous to mention, who kindly provided comments on papers. Particular acknowledgement is due to the late David Gravestock (PIRSA) for conducting a review of Apak and Moors' 'A sequence stratigraphic depositional model of Neoproterozoic strata, Yowalga area, Officer Basin, Western Australia' while in ill health.

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**ISSN 1326-4966**

Published by the:  
Australian Petroleum Production and  
Exploration Association Limited.



**Production editing, co-ordination and publishing agent**  
Christopher Beck Books

6/156-178 Albion Road, Windsor, Queensland, 4030.

PO Box 719, Hamilton Central, Queensland, 4007.

Phone: (07) 3857 4944. Facsimile: (07) 3857 4966.

e-mail: [appeajournal@mediadynamics.com.au](mailto:appeajournal@mediadynamics.com.au)

Publisher: Christopher Beck.

Head of Publications: Nikki Schultz. Operations Manager: Glyn Thomas. Production editing: Melissa Humphris, Cait Tatters, B.J. Fensom. Art director: Lincoln Kilworth.

Christopher Beck Books is a division of Media Dynamics Pty Ltd. ACN 010 793 352

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## ABBREVIATIONS AND ACRONYMS

**AAPG**—American Association of Petroleum Geologists.  
**AmCS**—American Chemical Society.  
**AGI**—American Geological Institute.  
**AGU**—American Geophysical Union.  
**ASLO**—American Society for Limnology and Oceanography.  
**API**—American Petroleum Institute.  
**AAP**—Association of Australasian Palaeontologists.  
**AICD**—Australian Institute of Company Directors.  
**AusIMM**—Australasian Institute of Mining and Metallurgy.  
**ABARE**—Australian Bureau of Agricultural and Resource Economics.  
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**CSIRO**—Commonwealth Scientific and Industrial Research Organisation.  
**EIA**—Environment Institute of Australia.  
**EAOG**—European Association of Organic Geochemists.  
**FESWA**—Formation Evaluation Society of Western Australia.  
**GBRMPA**—Great Barrier Reef Marine Park Authority.  
**GSC**—Geological Society of Canada.  
**GSPNG**—Geological Survey of Papua New Guinea.  
**GSAm**—Geological Society of America.  
**GSA**—Geological Society of Australia.  
**GSL**—Geological Society of London.  
**GSNSW**—Geological Survey of New South Wales.

**GST**—Geological Survey of Tasmania.  
**GSNZ**—Geological Society of New Zealand.  
**GSSA**—Geological Survey of South Australia.  
**GSV**—Geological Survey of Victoria.  
**GSWA**—Geological Survey of Western Australia.  
**ICA**—Institute of Chartered Accountants.  
**IEA**—Institute of Engineers Australia.  
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**PESGB**—Petroleum Exploration Society of Great Britain.  
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**QGS**—Queensland Geological Survey.  
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**RSSA**—Royal Society of South Australia.  
**RST**—Royal Society of Tasmania.  
**RSV**—Royal Society of Victoria.  
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**SAA**—Standards Association of Australia.  
**SIA**—Securities Institute of Australia.  
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## **The APPEA Journal 40th anniversary edition**

The APPEA Conference celebrates its 40th anniversary with the Brisbane conference in May 2000. To mark the occasion a series of special section dividers have been used in this APPEA Journal. They are historic photographs from a range of sources. The photographs and illustrations reflect the remarkable past of the exploration and production industry in Australia. The Journal Papers Committee thanks Rick Wilkinson and The Courier-Mail for their assistance by providing photographs from their archives.

## Petroleum frontiers, systems and plays



Rough Range-1 struck oil in Western Australia in late 1953. Unfortunately the drilling appraisal failed to convert the find to a viable development project.

