



## RESUMÉ

# Dr Peter Boult

## Senior Geophysicist/Interpreter

### OVERVIEW

- Over 31 years experience across many sectors
- Extensive experience during the last 13 years as a geophysicist/interpreter on passive margins and interior basins
- Base Adelaide

### EMPLOYMENT HISTORY

<u>Company</u>	<u>Position / Role</u>	<u>Dates</u>
Badley Geoscience UK	Australian Representative	May 2008 - present
Ginkgo ENPGNG	Independent Consultant	May 2008 - present
Australian School of Petroleum Primary Industries SA	Visiting Researcher	2001 - present
Origin Energy	Chief Petroleum Geoscientist	2001 - May 2008
University of South Australia	Staff Geoscientist	1997 - 2001
BP UK	Geoscience Lecturer	1987 - 1997
Gearhart Industries	Contract Operations Geologist	1984 - 1986
York (UK)	Wellsite Geologist	1981 - 1984
Zambia	Computer Programmer	1980 - 1981
	Structural Copper Geologist	1977 - 1979

### TECHNICAL EXPERIENCE AND SKILLS

#### Basin Familiarity

All South Australian & Victorian basins, Georgina, NW Shelf, PNG, Bass, Gippsland, Georgina, North Sea, Onshore UK, East NZ, Southern Atlantic, Putmayo Columbia.

#### Structural Geology

Passive margin kinematics, seismic interpretation incorporating depth conversion, fault plane attributes, potential field data, image log analysis, 2D and 3D seismic manipulation, stress / elastic dislocation modelling & fracture prediction.

#### Seismic Interpretation

Conventional picking, open GL 3D immersion, miss-pick analysis, synthetics, velocity analysis and depth conversion, conventional/porosity inversion and more.



### **Promotion / Play Development**

Responsible for developing new plays and investment in SA & NT. Successful in gaining funds for: Officer Basin pre-salt (>\$150 mil), Georgina Basin hot shale (> \$150 mil), Morum sub-basin lowstand fans (>\$10mil), Onshore Otway oil play (~\$7mil), Arrowie Basin geothermal (\$2 mil), Western Eromanga oil (~\$10mil) over 5 years.

### **Petroleum Systems**

Critical uncertainty analysis, well audits, fault seal, top seal, basin modelling, migration pathways, maturation kinetics.

### **Geothermal**

Exploration management - heat flow & thermal conductivity mapping, exploration for geothermal leads.

### **CO2 Sequestration**

Supervision of PhDs and Hons projects - exploration for CO2 leads.

### **Mapping**

Depth conversion, structural gridding, volumetrics, reservoir characterisation / geostatistics, field mapping (PNG, onshore & offshore Australia, UK & Alpine).

### **Risking**

Adequacy assessment & portfolio management.

### **Petrophysics**

Conventional, NMR logging, integration of core analysis, J function, net / gross etc.

### **Reservoir Modelling and Upscaling**

Geostatistics, sedimentary and structural scale analysis, reservoir simulation parameter checking and conditioning for history matching.

### **Operations**

6 years wellsite geologist, Australia, Middle East and Europe.

### **Project Management**

Geothermal and Petroleum License applications, study group management, PhD /MSc supervision, research grant applications and reporting.

### **Geoscience Computing**

16 years (expert) TrapTester, IESX, & Petrosys.

Proficient H&R Emerge, WinPICS, Basinmod, Terralog, geoframe/geology office, ARC GIS, Excel/@risk; Working H&R Strata and AVO.

### **Public Presentations / In-house Reports & Presentations**

Regular presenter at AAPG / APPEA, PESA / EABS & ASEG, >70 peer reviewed publications. Narrated Powerpoints.

Many JV/TCM presentations, 10 years lecturing. 3D earth modelling & fault seal Bass & Otway Basins, maturity modelling Vic-Otway, FMS interpretation, petrophysics, special core analysis, volumetrics & portfolio risk management.



### **Editor**

Principal Editor for EABS & AAPG publications, Technical Editor for APPEA, Geological Society London-MPG & EAGE.

### **Seal Integrity**

PhD on capillary seals, wettability & migration pathways Eromanga Basin.

## **RECENT CLIENTS AND PROJECTS**

### **Petrofrontier**

Georgina Basin: Key geoscientist involved with seismic interpretation, prospect generation and new seismic survey location design. Analysis of structural control on sedimentology and trap integrity. FMI / dipmeter analysis. Involved with seismic processing control. Key geoscientist promoting the play to incoming potential JV / equity investors. Geomechanical analysis and management of horizontal well geosteering operations.

### **Rodinia Oil Corp**

Officer Basin: Play initiator and key geoscientist involved with seismic interpretation, prospect generation and new seismic survey location design Velocity analysis and up-hole program design.. Portfolio risking. Involved with seismic processing control. Key geoscientist promoting the play to incoming potential JV / equity investors.

### **Bight Petroleum**

Eastern Bight Basin: Play initiator and key geoscientist involved with seismic interpretation, prospect generation and new survey location design. Portfolio risking. Involved with seismic processing control. Key geoscientist promoting the play to incoming potential JV / equity investors. Velocity analysis and depth conversion specialist.

### **Origin Energy**

Bass and southern Otway Basins: Structural QC of seismic interpretation and conditioning of geo- cellular reservoir simulation model for fault transmissibilities.

### **Santos**

Cooper and offshore Victorian Otway Basin: Seismic interpretation, prospect generation and fault seal assessment.

### **Somerton Energy**

Onshore Victorian Otway Basin: Seismic interpretation, prospect evaluation and fault seal assessment.

### **Tap Oil**

Bass Basin and offshore Ghana: Seismic interpretation, prospect evaluation and fault seal assessment.



## **LNBO**

East Midlands Basin UK. Play initiator and key geoscientist involved with seismic interpretation, prospect generation and new survey location design. Involved with seismic processing control. Key geoscientist promoting the play to incoming potential JV / equity investors.

## **President Petroleum**

Onshore South Australia Otway Basin: Play initiator and key geoscientist involved with seismic interpretation, structural QC, prospect generation, trap integrity assessment, portfolio risking, advisor and monitor of well geosteering. Well post-mortem geomechanical analysis.

## **Geothermal Resources**

Onshore South Australia Otway Basin. Seismic interpretation, structural QC and well post mortem analysis.

## **Deep Energy**

Arrowie Basin South Australia Seismic interpretation, heat flow analysis and drilling program design.

## **Grand Tierra**

Putmayo Basin Columbia. Structural QC of seismic interpretation, trap integrity analysis.

## **Essential Petroleum**

Onshore Victorian Otway Basin: Seismic interpretation, prospect evaluation and fault seal assessment.

## **PUBLICATIONS**

- **FREEMAN, BOULT, YIELDING & MENPES. 2010.** Using empirical geological rules to reduce structural uncertainty in seismic interpretation of faults. *Journal of Structural Geology*, 32, 1668-1676
- **BOULT, P.J., FREEMAN, B., YIELDING, G. 2009.** Elastic Dislocation Modelling of Fractures in the Carboniferous Limestone: East Midlands, UK, AAPG Annual Conference, Denver, June 2009.
- **BOULT, P.J., FREEMAN, B., YIELDING, G. 2009.** Fractured Carboniferous Limestone Sealed by a Volcanic Ash - A New Play in the East Midlands UK, AAPG Annual Conference, Denver, June 2009.
- **BOULT, P.J., FREEMAN, B. & YIELDING, G. 2009.** Reducing structural uncertainty in seismic interpretation by mapping wall-rock strains to get a plausible geological model - the strain minimisation approach. CD ASEG Conference, Adelaide, 2009, International AAPG Conference Rio De Janeiro, November 2009 - Extended Abstract
- **BOULT, P.J., BENNETT, P.J. & FREEMAN, A. 2009.** Structural History and the Pre-salt Play of the Officer Basin, South Australia.
- **CAMAC, B.A. & BOULT, P.J. 2008.** Introducing the Jacaranda Ridge Sandstone: A new play in the Penola Trough: Otway Basin, Australia. Proceedings of EABS 3 Conference, Sydney, 2008, p95-107.
- **BOULT, P., LYON, P., CAMAC, B., HUNT, S. & ZWINGMAN, H. 2008.** Unravelling the complex structural history of the Penola Trough – revealing the St George Fault. Proceedings of EABS 3 Conference, Sydney, 2008. p 81-93.
- **BOULT, P.J., FREEMAN, B., YIELDING, G., MENPES, S. & DIEKMAN, L. 2008.** Reducing the structural uncertainty in poor 2D seismic data, Gambier Embayment, Otway Basin,

Australia - a minimum strain approach combined with potential field interpretation. Proceedings of EABS 3 Conference, Sydney, 2008, p109-118.

- **BOULT, P.J. 2008.** A new stratigraphic/structural interpretation helps focus exploration in the Poolowanna Trough, Eromanga Basin, South Australia. Abs, Proceedings of EABS 3 Conference, Sydney, 2008, p512.
- **BOULT, P.J., FREEMAN, B. & YIELDING, G. 2008.** Reducing the structural uncertainty in poor 2D seismic data, Gambier Embayment, Otway Basin, Australia - a minimum strain approach. AAPG Annual Conference, San Antonio, April 2008.
- **BENNETT, P.J., ALLENDER, J. & BOULT, P.J. 2008.** Sub-salt structures in the Officer Basin, South Australia. AAPG Annual Conference, San Antonio, April 2008.
- **BOULT, P.J. & FREEMAN, B. 2007.** Using faults as an aid to horizon mapping in areas of poor 2D seismic: Otway Basin example. MESA – November/December edition.
- **LYON, P.J., BOULT, P.J., HILLIS, R.R. & BIERBRAUER, K. 2007.** Basement controls on fault development in the Penola Trough, Otway Basin, and implications for fault-bounded hydrocarbon traps. Australian Journal of Earth Sciences 54, 675-689.
- **BOULT, P.J., MENPES, S. & WAKELIN-KING, G. 2007.** Fault Plane Attribute Mapping reduces fault seal risk in the Gambier Embayment of the Onshore Otway Basin, South Australia. AAPG annual conference, Long Beach USA, April 1-4<sup>th</sup>.
- **BOULT, P.J., McKIRDY, D.M., BLEVIN, J., HEGGELAND, R., LANG, S. & VINALL, D. 2006.** The oil-prone Morum Sub-basin petroleum system, Otway Basin, South Australia. PESA News, v 80, Feb/Mar, 24–27.
- **CAMAC, B.A., HUNT, S.P., BOULT, P.J. & DILLON, M. 2006.** Unconventional borehole breakout rotation analysis provides a QC tool for stress models. APPEA Journal, v46, p307-327
- **CAMAC, B.A., HUNT, S.P. & BOULT, P.J. 2006.** Local rotations in borehole breakouts – observed and modeled stress field rotations and their implications for the petroleum industry. International Journal of Geomechanics, v.6, p. 399-410.
- **MORELLI, C.P., HUNT, S.P. & BOULT, P.J. 2006.** Calibration of Distinct Element Models for the Cooper Basin, Australia – towards improved hydrocarbon production. The 41st U.S. Symposium on Rock Mechanics (USRMS): "50 Years of Rock Mechanics - Landmarks and Future Challenges." Golden, Colorado, June 17-21, 2006.
- **HUNT, S.P. & BOULT, P.J. 2005.** Discrete element stress modelling in the Penola Trough, Otway Basin, South Australia. In: BOULT, P.J. & KALDI, J. (Eds). *Evaluating fault and caprock seals*. AAPG Hedberg Series, v. 2, 199–214.
- **KOUPRIANTCHIK, D., HUNT, S.P., BOULT, P.J. & MEYERS, A.G. 2005.** Geomechanical modelling of salt diapirs: Generic shapes and a 3D salt structure from the Officer Basin, South Australia. Paper No 355. 11<sup>th</sup> International Conference of the International Association of Computer Methods and Advances in Geomechanics. Turin 2005 June 19-24, 2005. Proceedings March 2005.
- **KOUPRIANTCHIK, D., HUNT, S.P., BOULT, P.J. & MEYERS, A.G. 2005.** Geomechanical modelling of salt diapirs: 3D salt structure from the Officer Basin, South Australia. Abstract, Central Australian Basins Symposium August 2005.
- **LYON, P.J., BOULT, P.J., WATSON M. & HILLIS, R. 2005.** A systematic fault seal evaluation of the Ladbroke Grove and Pyrus traps of the Penola Trough, Otway Basin. APPEA Journal, v 45, 459–476.
- **LYON, P.J., BOULT, P.J., HILLIS, R.R. & MILDREN, S.D. 2005.** Sealing by shale gouge and subsequent seal breach by reactivation: A case study of the Zema Prospect, Otway Basin. In: BOULT, P.J. & KALDI, J. (Eds). *Evaluating fault and caprock seals*. AAPG Hedberg Series, v. 2, 199–214.
- **MILDREN, S.D., HILLIS, R.R., DEWHURST, D.N., LYON, P.J., MEYERS, J.J. & BOULT, P.J. 2005.** FAST (Fault Analysis Seal Technology): A New Technique for Geomechanical Assessment of the Risk of Reactivation-Related Breach of Fault Seals. In: BOULT, P.J. & KALDI, J. (Eds). *Evaluating fault and caprock seals*. AAPG Hedberg Series, v. 2, 73-86.
- **UNDERSCHULTZ, J., JOHNSON, L.C., BOULT, P., LIK, M. & GARTRELL, A. 2005.** Integrated Seals Analysis of the Gidgealpa Oilfield, South Australia. AAPG Annual Meeting Calgary, Alberta, June 19-22, 2005, AAPG Bulletin, Vol. 89 (2005). Program Abstracts (Digital).

- **AROURI, K.R., McKIRDY, D.M., SCHWARK, L., LEYTHAEUSER, D. & BOULT, P.J. 2004.** Accumulation and mixing of hydrocarbons in oil fields along the Murteree Ridge, Eromanga Basin, South Australia. *Organic Geochemistry*, v. 35, 1597–1618
- **BOULT, P.J. & RANKIN, L. 2004.** Eastern Officer Basin – new play – sleeping giant? *In: BOULT, P.J., JOHNS, D.R. & LANG, S.C. (Eds). Eastern Australasian Basin Symposium II.* Petroleum Exploration Society of Australia, Special Publication, 231–242.
- **BOULT, P.J., LYON, P.J., CAMAC, B., EDWARDS, D. & McKIRDY, D. 2004.** Subsurface Plumbing of the Penola Trough: Otway Basin, *In: BOULT, P.J., JOHNS, D.R. & LANG, S.C. (Eds). Eastern Australasian Basin Symposium II.* Petroleum Exploration Society of Australia, Special Publication, 483–498
- **CAMAC, B.A., HUNT, S.P. & BOULT, P.J. 2004a.** Fault and top seal integrity at relays and intersections using a 3D distinct element code. *APPEA Journal*, v. 44, 481–497.
- **CAMAC, B.A., HUNT, S.P. & BOULT, P.J. 2004b.** From Borehole to Basin - 3D Numerical modelling of the Cap Seal in the Penola Trough, Onshore Otway Basin, South Australia. AAPG Annual Conference, Dallas 2004, presented April.
- **CAMAC, B.A., HUNT, S.P. & BOULT, P.J. 2004c.** Applications of stress field modelling using the distinct element method for petroleum production. Asia Pacific Oil and Gas Conference and Exhibition Perth. SPE Asia Pacific Oil & Gas Conference and Exhibition. 18-20 October 2004, Perth, Australia., SPE paper 88473.
- **DEWHURST, N.D. & BOULT, P.J. 2004.** Influence of Stress and Temperature on Fault Rock Properties in Impure Sandstones. AAPG international conference, Cancun 2004.
- **JOHNSON, L., LISK, M., GARTRELL, A. & BOULT, P.J. 2004.** Calibration of charge and retention models for the Gidgealpa Oilfield: implications for seal potential in the Eromanga Basin. *In: BOULT, P.J., JOHNS, D.R. & LANG, S.C. (Eds). Eastern Australasian Basin Symposium II.* Petroleum Exploration Society of Australia, Special Publication, 461–472.
- **LYON, P.J., BOULT, P.J., MITCHELL, A. & HILLIS, R.R. 2004.** Improving fault geometry interpretation through the application of ‘Pseudo depth’ conversion to seismic data in the Penola Trough, Otway Basin, South Australia. *In: BOULT, P.J., JOHNS, D.R. & LANG, S.C. (Eds). Eastern Australasian Basin Symposium II.* Petroleum Exploration Society of Australia, Special Publication, 695–706.
- **SVENDSEN, L., PAYENBERG, T.H.D., BOULT, P.J. & KALDI, J.D. 2004.** Seal evaluation of a fluvio- lacustrine rift to post-rift succession, the Eumeralla Formation, Otway Basin, Australia. *In: BOULT, P.J., JOHNS, D.R. & LANG, S.C. (Eds). Eastern Australasian Basin Symposium II.* Petroleum Exploration Society of Australia, Special Publication, 447–460.
- **UNDERSCHULTZ, J. & BOULT, P.J. 2004.** Top Seal and Reservoir Continuity: Hydrodynamic Evaluation of the Hutton-Birkhead Reservoir, Gidgealpa Oilfield. *In: BOULT, P.J., JOHNS, D.R. & LANG, S.C. (Eds). Eastern Australasian Basin Symposium II.* Petroleum Exploration Society of Australia, Special Publication, 473–482.
- **BOULT, P.J., McKIRDY, D.M. BLEVIN, J., HEGGELAND, R., LANG, S. & VINALL, D. 2005.** The oil-prone Morum Sub-basin petroleum system, Otway Basin, South Australia. *MESA Journal*, v 38, July, 28–33.
- **BOULT, P.J., McKIRDY, D.M. BLEVIN, J., HEGGELAND, R., LANG, S. & VINALL, D. 2005,** The oil-prone Morum Sub-basin petroleum system, Otway Basin, South Australia. *PESA News*, v 80, Oct / Nov, 13–16.
- **DEWHURST, D.N., BOULT, P.J., JONES, R.M. & BARCLAY, S.A. 2005.** Fault healing and fault sealing in impure sandstones. *In: BOULT, P.J. & KALDI, J. (Eds). Evaluating fault and caprock seals.* AAPG Hedberg Series, v. 2, 37–56.
- **HUNT, S.P., BOULT, P. & CAMAC, B. 2004.** "Discrete element stress modelling in the Timor Sea and Otway Basin, Australia". European Association of Geoscientists and Engineers International Conference, Fault and Top Seals: What do we know and where do we go? Proceedings of the EAGE Conference, Montpellier, France. Paper-22.
- **AROURI, K.R., McKIRDY, D.M., SCHWARK, L., LEYTHAEUSER, D. & BOULT, P.J. 2003.** Hydrocarbon fluid flow and mixing in the Murteree Ridge area, Cooper/Eromanga Basin, South Australia. Poster abstract EAOG International Conference of Organic Geochemists, Krakow, Poland.



- **BOULT, P.J., FISHER, Q., CLINCH, S.R.J., LOVIBOND, R. & COCKSHELL, C.D. 2003.** Geomechanical, microstructural, and petrophysical evolution in experimentally reactivated cataclases: applications to fault seal prediction: Discussion. AAPG Bulletin, v. 87, 1,681–1,683.
- **DEWHURST, D.N., MILDRED, S.D., CAMAC, B.A., BOULT, P.J. & HENNIG, A. 2003.** Top Seal Fracturing in the Carnarvon and Otway Basins, Australia. Poster abstract AAPG International Conference, Barcelona.
- **DUDDY, I.R., EROUT, B., GREEN, P.F., CROWHURST, P.V. & BOULT, P.J. 2003.** Timing constraints on the structural history of the Otway Basin and Implications for hydrocarbon prospectivity around the Morum High, South Australia. APPEA Journal, v. 43 (1), 59–84.
- **HUNT, S.P., BOULT, P.J. & CAMAC, B.A. 2003a.** 2D and 3D discrete element stress modelling in the Otway Basin, Australia. AAPG International Conference and Exhibition in Barcelona, Spain (Sept 21–24) ‘Why do traps fail?’ Poster session.
- **HUNT, S.P., BOULT, P.J. & CAMAC, B.A. 2003b.** Discrete element stress modelling in the Timor Sea and Otway Basin, Australia. EAGE International Conference and Field Trip. Fault and Top Seal: What do we know and where do we go? Poster and extended abstract.
- **BOULT, P.J., CAMAC, B.A. & DAVIDS, A.W. 2002.** 3D Fault modelling and assessment of top seal structural permeability – Penola Trough, onshore Otway Basin. APPEA Journal, v. 42(1), 151–166.
- **BOULT, P.J. 2002.** New play in the offshore Otway Basin SA – Humpback lead. MESA Journal, v. 25, p. 15.
- **HUNT, S.P. & BOULT, P.J. 2002.** Discrete element stress modelling in the Otway Basin, Australia. AAPG Hedburg Research Conference "Evaluating the Hydrocarbon Sealing Potential of Faults and Caprocks" December 2-5, 2002, Barossa Valley, South Australia Extended abstract volume, 95–96.
- **MILDREN, S.D., BOULT, P.J. & CAMAC, B. 2002.** Risking Brittle Failure of Caprocks in the Otway Basin, Australia. AAPG Hedburg Research Conference "Evaluating the Hydrocarbon Sealing Potential of Faults and Caprocks" December 2-5, 2002, Barossa Valley, South Australia, Extended abstract volume, 108–110.
- **BOULT, P.J. & DONLEY, 2001.** Volumetric calculations using 3D seismic inversion from porosity logs for the Pretty Hill Formation reservoirs, onshore Otway Basin. In: HILL, K.C. & BERNECKER, T. (Eds). *Eastern Australia Basins Symposium*. Petroleum Exploration Society of Australia, Special Publication, 425–434.
- **ABURAS, A. & BOULT, P.J. 2001.** New Insights into the Structural Development of the Onshore Otway Basin. In: HILL, K.C. & BERNECKER, T. (Eds). *Eastern Australia Basins Symposium*. Petroleum Exploration Society of Australia, Special Publication, 447–454.
- **RAMAMOORTHY, R., BOULT, P.J. & NEVILLE, T.J. 2000.** A novel application of nuclear magnetic resonance and formation tester data for the determination of gas saturation in the Pretty Hill Sandstone reservoirs, onshore, Otway Basin. Abs., AAPG international conference Bali October 2000, AAPG Bulletin, v. 84, 1,395–1,518.
- **RYAN, L., BOULT, P.J., JONES, R.M. & KALDI, J. 2000.** Assessing fault seal risk for the Wild Dog Road prospect, Otway Basin, Australia. Abs., AAPG international conference Bali October 2000, AAPG Bulletin, v. 84, 1,395–1,518.
- **BOULT, P.J. & JONES, R.M. 2000.** Fault geometry and seal attribute mapping in the Bass and Otway basins, Australia. Abs., AAPG international conference Bali October 2000, AAPG Bulletin, v. 84, 1,406.
- **JONES, R.M., BOULT, P.J., HILLIS, R.R., MILDREN, S.D. & KALDI, J. 2000.** Integrated hydrocarbon seal evaluation in the Penola Trough, Otway Basin. APPEA Journal, v. 40 (1), 194–214.
- **THEOULOUGOU, P.N., CURTIS, A.A., BOULT, P.J., EAST, R.D., DRAKE, A.M. & DOUGLAS, J.H. 1999.** Effective Integration of the Core Analysis and Wireline Datasets. SPE Paper 53887.
- **BOULT, P.J., RAMAMOORTHY, R., THEOULOUGOU, P.N., EAST, R.D., DRAKE, A.M. & NEVILLE, T. 1999.** Use of nuclear magnetic resonance and new core analysis technology for determination of gas saturation in Pretty Hill Sandstone reservoirs, onshore Otway Basin. APPEA Journal, v. 39 (1), 437–450.

- **BOULT, P.J., LANZILLI, E., MICHAELSON, B.H., McKIRDY, D.M. & RYAN, M.J. 1998.** A new model for the Hutton/Birkhead reservoir seal couplet and the associated Birkhead-Hutton petroleum system. *APPEA Journal*, v. 38 (1), 724–744.
- **BOULT, P.J. 1997.** A review of the petroleum potential of Papua New Guinea with a focus on the eastern Papuan Basin and the Pale Sandstone as a potential reservoir fairway. *In: FRASER, A.J., MATTHEWS, S.J. & MURPHY, R.W. (Eds). Petroleum Geology of Southeast Asia.* Geological Society Special Publication 126, 281–291.
- **BOULT, P.J., RYAN, M.J., MICHAELSEN, B.H., McKIRDBY, D.M. TINGATE, P.R., LANZILLI, E. & KAGYA, M.L.N. 1997b.** The Birkhead-Hutton petroleum system of the Gidgealpa area, Eromanga basin, Australia. *In: HOWES, J.V.C. & NOBLE, R.A. (Eds). Proceedings of an international conference on Petroleum Systems of South East Asia and Australia.* 213-235.
- **BOULT, P.J., THEOLOUGOU, P.N. & FODEN, J. 1997.** Capillary Seals within the Eromanga Basin, Australia, : Implications for Exploration and Production. *In: SURDAM, R.C. (Ed). Seals, traps and the petroleum system.* Chapter 10, AAPG Memoir 67, 143-167
- **LANZILLI, E. & BOULT, P.J. 1996.** The Hutton Sandstone to Birkhead Formation Transition, Gidgealpa. Showing an associated unconformity and provenance change from craton-derived to volcanic-arc-derived sediment. Extended abstract, Mesozoic geology of the eastern Australian plate conference, Brisbane, GSA, 23– 26 September 1996.
- **LIU, K., BOULT, P.J., PAINTER, S. & PATTERSON, L. 1996.** Outcrop Analogue for Sandy Braided Stream Reservoirs, Permeability Patterns of the Triassic Hawkesbury Sandstone, Sydney Basin, Australia. *AAPG Bulletin*, v. 80, No. 12, 1,850–1,866.
- **BOULT, P.J., THEOLOUGOU, P.N., JOHNSON, G.A. & CARBONE, M. 1995.** Probe permeability studies for better reservoir unit evaluation with examples from the Tirrawarra Sandstone, Cooper Basin, and the Murta and McKinlay Members, Eromanga Basin. *APEA Journal*, v. 35, 132–142.
- **CLINCH, S.R.J., BOULT, P.J. & HAYES, R.A. 1995.** The importance of wettability and wettability testing methods used in the oil industry. *APEA Journal*, v. 35, 143–151.
- **PAINTER, S., PATERSON, L.P. & BOULT, P.J. 1995.** Improved Technique for Stochastic Interpolation of Reservoir Properties. *SPE Paper* 30599.
- **WILLIAMS, N.V., THEOLOUGOU, P.N., BOULT, P.J., ZWIGULIS, M., SCHLICHTING, R.P. & PRICE, R.A. 1994.** Unusual lacustrine reservoirs and seals of the Murteree Horst area, Eromanga Basin, South Australia. *SPE paper* no. 28751, presented at the Asia Pacific Oil & Gas Conference, Melbourne, Australia.
- **BOULT, P.J. 1993a.** Membrane seal and tertiary migration pathways in the Bodalla South oilfield, Eromanga Basin, Australia. *Marine and Petroleum Geology*, v. 10 (1), 3–13.
- **BOULT, P.J. 1993b.** The reservoir potential of the Imburu, Toro and Ieru Formations in the OK Mengaarea PNG. *In: CARMEN, G.J., & Z. (Eds). Petroleum Exploration in Papua New Guinea.* Proceedings of the Second PNG Petroleum Convention, Port Moresby, 31st May–2nd June 1993, 191–200.
- **BOULT, P.J. & THEOLOUGOU, P.N. 1993.** Capillary seals, weak links, tertiary migration and seal bites within the Eromanga Basin, Australia. Abs., AAPG Hedberg Research Conference, “seals and traps a multidisciplinary approach”, Crested Butte, Colorado, June 21-23.
- **BOULT, P.J. & CARMEN, G. 1993.** The sedimentology, reservoir potential and seal integrity of the Pale Sandstone at the Aure Scarp, Papua New Guinea, *In: C ARMEN, G.J., & Z. (Eds). Petroleum Exploration in Papua New Guinea.* Proceedings of the Second PNG Petroleum Convention, Port Moresby, 31st May–2nd June 1993, 125–137.
- **BOULT, P.J., CARMEN, G.J. & PHILLIPS, S. 1992.** Sedimentology, Reservoir Potential, and Seal Integrity of the Pale Sandstone, Eastern Papuan Basin, Papua New Guinea. *AAPG International Conference*, Sydney, N.S.W., August 2-5.
- **BOULT, P.J. & EAST, R. 1992.** Laboratory Techniques for Migration Studies. *AAPG International Conference*, Sydney, N.S.W., August 2-5.



## EDUCATIONAL QUALIFICATIONS

**B.Sc. 1974**

**Ph.D. 1977** Capillary seals, wettability & migration pathways Eromanga Basin.