

Volume 58 • Issue 1 • Journal papers • 2018

## CONTENTS

**BUSINESS**

Review and proposed extension of the APPEA Method for estimating levels of financial assurance  
*D. Horn, K. Downey and A. Taylor* 1–10

The east coast gas market explained: analysis of the gas market supply and demand dynamics  
*J. Stabler* 11–24

Working together to reduce land transport safety risk in the CSG sector: can we ever do enough?  
*M. Zaunbrecher, J. King and B. Yeong* 25–31

A new window through which to look at safety culture surveys: a case study at Arrow Energy  
*M. Zaunbrecher and L. Mealiff* 32–43

**ENGINEERING**

Impact of injected water salinity on CO<sub>2</sub> storage efficiency in homogenous reservoirs  
*E. A. Al-Khdheawi, S. Vialle, A. Barifcani, M. Sarmadivaleh and S. Iglaier* 44–50

Impact of clay type and water composition on low salinity water injection – visualisation approach  
*T. Amirian and M. Haghighi* 51–59

Risk-based corrosion assessment and refurbishment of marine structures  
*S. Dickinson, K. Wilson, A. Sarandily, R. van der Werf, S. Sheen and P. Cawley* 60–71

Case study: successful disconnection of a traditional floating production storage and off-loading unit  
*S. Gajula and B. Peuchot* 72–83

Study of phase behaviour and ionic effect of green surfactants in MEOR  
*B. Haq, J. Liu, K. Liu and D. Al Shehri* 84–93

Perspectives on successful coal seam gas well decommissioning  
*C. R. Huddleston-Holmes, T. G. Measham, T. Jeanneret and J. Kear* 94–101

Rock typing and facies identification using fractal theory and conventional petrophysical logs  
*R. Koochak, M. Haghighi, M. Sayyafzadeh and M. Bunch* 102–111

Psyllium husk performance in drilling fluid at elevated temperature and pressure conditions  
*S. Ly, X. Yu, X. Zhang and A. Salmachi* 112–120

Well productivity enhancement by applying nanofluids for wettability alteration  
*S. Naik, G. Malgaresi, Z. You and P. Bedrikovetsky* 121–129

Why are decisions for oil and gas projects not always made the way they 'should' be?  
*D. Newman, S. Begg and M. Welsh* 130–158

Low permeability coal seam gas productivity enhancement by cyclic nitrogen injection technique (an adsorption simulation study)  
*H. T. Nguyen, M. Sayyafzadeh and M. Haghighi* 159–167

Significant reliability improvements in reciprocating gas compressor packages at Arrow Energy  
*P. S. Parulekar, R. Hudson and H. Boyd* 168–181

Laboratory measurement of Biot's coefficient and pore pressure influence on poroelastic rock behaviour  
*H. Salemi, S. Iglaier, A. Rezagholilou and M. Sarmadivaleh* 182–189

**GEOSCIENCE**

Exploration of the south-eastern part of the Frontier Amadeus Basin, Northern Territory, Australia <i>F. Bache, P. Walshe, J. Gusterhuber, S. Menpes, M. Sheridan, S. Vlasov and L. Holmes</i>	190–208
Helium in the Australian liquefied natural gas economy <i>C. J. Boreham, D. S. Edwards, R. J. Poreda, T. H. Darrah, R. Zhu, E. Grosjean, P. Main, K. Waltenberg and P. A. Henson</i>	209–237
Determining paleo-structural environments through natural fracture and calcite twin analyses: a case study in the Otway Basin, Australia <i>H. B. Burgin, K. Amrouch, M. Rajabi, D. Kulikowski and S. P. Holford</i>	238–254
The Halladale–Speculant fields: the first nearshore gas fields to be developed from mainland Australia <i>A. Constantine, G. Morgan, R. O’Leary and S. Smith</i>	255–281
Petroleum source rocks of Western Australia <i>K. A. R. Ghorl</i>	282–310
Petroleum systems of the Proterozoic in northwest Queensland and a description of various play types <i>J. Gorton and A. Troup</i>	311–320
Effects of near surface lithology on velocity modelling and time–depth relationships in the Cooper–Eromanga–Lake Eyre Basin <i>A. Manka, G. Buick, R. Menpes, L. Gardiner, C. Jones and K. Amrouch</i>	321–338
Exploiting the Cooper Basin: conventional lessons and appropriate analogues to guide an unconventional future <i>B. Richards and A. Côté</i>	339–366
Using autonomous underwater gliders for geochemical exploration surveys <i>L. M. Russell-Cargill, B. S. Craddock, R. B. Dinsdale, J. G. Doran, B. N. Hunt and B. Hollings</i>	367–380
Drilling data of deep coal seams of the Cooper Basin: analysis and lessons learned <i>A. Salmachi, E. Dunlop and M. Rajabi</i>	381–394
Pluto 4D—Australia’s first 4D over a gas field is an outstanding success <i>L. Tilbury and A. Gerhardt</i>	395–411
Fully integrated dynamic reservoir and well simulation model: Blacktip gas field case study <i>R. Yokote, M. Albarzanji, Y. Suhardiman, A. Tran, E. D. Putra and N. J. R. Gonzalez</i>	412–425