

Volume 63 Issue 1 2023

CONTENTS

BUSINESS, ENVIRONMENT, SAFETY AND GOVERNANCE

ESG: To sound good, or to be good?

Ashley Starr

1–10

EFFICIENT MARKETS

The Walloon Coal Measures resource density: how low can we go?

Brent Glassborow, Michael Scott and Steven Scott

11–24

Australian winter 2022: how did we get here? Assessing the energy market conditions in Australia

Joshua Stabler

25–36

ENGINEERING

Quantitative self-verification, a breakthrough in ultrasonic metering technology

Gregor J. Brown and Ross Johnston

37–46

Modelling and 3D printing of a random porous media using iterative function system fractals

Nhan Thanh Nguyen Kenny Cao, Chan Mayol, Alireza Salmachi and Agatha Labrinidis

47–55

Mercury in natural gas: delivering accurate reservoir sampling and analysis

Janelle Lawer, John Babadimas, John Bretherton, Bernardus van Deijl, Jack Harfoushian, Damien Gerard, Brian Toole and Mark Anderson

56–67

Electrodialysis Membrane Technology applied to MEG reclamation – a case study

Ben Leiting, Trina Dreher, Michael Cavill and Kobe Thys

68–82

Designing out fabric maintenance on a new offshore development using safety principles

James McKechnie

83–89

Technology review of the Northern Bowen and Galilee basins

Michael P. Scott, Raymond Johnson Jr, Janny Spilsbury-Schakel and Andrew Garnett

90–109

GEOSCIENCE

An automated and universal approach for characterising cored formation intervals: gaining more insight from comparing zonation results – according to geological facie, rock type and hydraulic units

Peter Behrenbruch, Trevor Doan, Phil Dohuu, Hussam Goda, and Spencer Quam

110–126

The complexity of identifying and quantifying natural and anthropogenic influences on surface movement in coal seam gas producing regions within the Surat Basin, Queensland

Sarah Brennand, Phil Hayes and Christopher Leonardi

127–143

Maximising gas production from late-life assets: a case study from the Snapper Field, Gippsland Basin

Hugo B. Burgin, Mohammad Bagheri, Melanie Ryan, Stewart Anderson, Jianlin Wang, and Kieran Trump

144–156

The Permian gas potential of the Taroom Trough, Queensland: new ideas to unlock a multi-TCF play

Gareth Cooper, Greg Channon, Pete Bekkers and Neil Young

157–172

What lies beneath – a review of frontier exploration for deep plays in the Bowen Basin

Raymond L. Johnson Jr and Nathan Parker

173–189

Re-discovering the Gummy gas field – Gippsland Basin

Eamonn Montague, Brendan Frears, Mark Browne, Peter Strauss, Stephen Adams and Jeremy Prosser

190–206

(Continued)

Application of elemental chemostratigraphy to refine the stratigraphy of the Adavale Basin, Queensland <i>David Riley, Tim Pearce, Morven Davidson, Eva Sirantoine, Chris Lewis and Carmine Wainman</i>	207–219
Analytical approach for multivariate exploration planning via secondary migration modelling <i>Amin Shokrollahi, Sara Borazjani, Syeda Sara Mobasher, Ulrike Schacht, Khalid Amrouch and Pavel Bedrikovetsky</i>	220–229
Petrophysical interpretation and reservoir characterisation on Proterozoic shales in National Drilling Initiative Carrara 1, Northern Territory <i>Liuqi Wang, Adam H. E. Bailey, Emmanuelle Grosjean, Chris Carson, Lidena K. Carr, Grace Butcher, Christopher J. Boreham, Dave Dewhurst, Lionel Esteban, Chris Southby and Paul A. Henson</i>	230–246
The other Erregulla discovery, Wagina Sandstone, north Perth Basin <i>Matthew Wright, Anthony Cortis, Aisling Sloan and Andrew Farley</i>	247–263
HEALTH, SAFETY, ENVIRONMENT AND PERFORMANCE	
Evolution of process safety performance measurement, reporting and management <i>Binu Baby, Chris Sproston, Huw Jones and Marc Ocampo Ramos</i>	264–272
Mercury management during decommissioning: predicting accumulation and mitigating risk of release <i>Luke Ellery, Peter Crafts, Andrew Sturgeon and Amit Rajani</i>	273–284
LOW EMISSIONS ENERGY AND TECHNOLOGY	
Australian salt basins – options for underground hydrogen storage <i>Marita Bradshaw, Stephanie Rees, Liuqi Wang, Mike Szczepaniak, Wayne Cook, Sam Voegeli, Christopher Boreham, Carmine Wainman, Sebastian Wong, Chris Southby and Andrew Feitz</i>	285–304
Preliminary investigation of the hydrogen storage potential in the Port Campbell Embayment, Otway Basin, Victoria, Australia <i>Rami Eid and Louise Goldie Divko</i>	305–320
Optimising the transition from CO ₂ EOR-EGR towards CCS for a mature oil and gas reservoir <i>Ilaina H. Rakotondrazaka, Raymond L. Johnson Jr, Xiaoling Li and Andres Bracho</i>	321–335
Assessment of CO ₂ storage capability in Denison Trough, Bowen Basin <i>Xingjin Wang, Chris Holmes, Ahmad Dehghan Khalili and Joan Esterle</i>	336–348