CONTENTS

ACREAGE RELEASE
2017 offshore petroleum exploration acreage release
B. Wilson 301–303

The 2017 offshore acreage release areas: petroleum geological overview

Australian onshore petroleum acreage and releases 2017
J. Haworth 345–352

YEAR IN REVIEW
Australian exploration review 2016
S. Mackie 353–362

Production and development across Australia 2016
F. Cullen 363–371

PESA’s 50 years—the rise and rise of technology
J. Begg 372–373

BUSINESS – EXTENDED ABSTRACTS
Nimrod XV230—reflections on leadership, culture and priorities
M. Anderson 374–376

Stakeholder response to abandonment challenges in Australia
P. Askew and A. Lea-Cox 377–381

Monitoring demersal scalefish populations in the Browse Basin region: accounting for spatial variability and detecting change in key fish populations

Findings from the Great Australian Bight Research Program – an integrated study of environmental, economic and social values
B. Baghurst, R. Lukatelich, D. Smith, G. Begg, R. Lewis and R. Smith 388–392

Creating a resilient management system delivering a flexible foundation for growth in an energy organisation
S. Barlow 393–396

Decommissioning of Australia’s oil and gas facilities in the 21st century
S. Barrymore 397–404

Our focus needs more focus: aligning project risks and expenditure for better environmental outcomes
G. Bartrim and L. Hahn 405–409

A community’s guide to best practice local content solutions
S. Charles 410–412

Carbon capture and storage in the oil and gas industry: 40 years on
C. Consoli, A. Zapantis, P. Grubnic and L. Irlam 413–417

NSW—Strategic release of exploration areas
D. Crosdale 418–420

Decommissioning – the next Australian oil and gas boom?
B. Cullinane and S. Gourvenec 421–425
It’s not easy to collaborate, but it’s essential!
B. Cullinane and P. Harrison  426–429

Process safety management at Woodside – creating a sustainable global approach
R. A. Doyle  430-433

Uncharted waters: LNG as a marine fuel in Australasia
R. Duncanson and W. P. Purio  434–436

Demonstrating good practice in the safe operation of gas assets with predictive analytics
H. Engelbrecht and N. Abbaspour  437–439

Remote Operations Centres – what next?
B. Farrell  440–443

The gas hub in Asia
B. Farrell and A. Sandilya  444–447

Galvanising the opposition: social media campaigns and the new risks for the oil and gas industry
R. Glindemann  448–451

Learnings and best practices for operator and supplier social engagement in regional areas
S. Goldsmith  452–454

Using the ALARP principle to significantly reduce offshore decommissioning costs
M. J. Goodwin, L. D. Muir and F. Piasentin  455–458

The future is not what it used to be: oil and gas strategies for a carbon-conscious world
C. Graham  459–461

Jemena’s perspective on Australian gas market dynamics: a vision of a fiercely competitive market facilitated by an interconnected supply chain
D. Green and T. Allen  462–464

The impact of competition law on destination restrictions in Asia-Pacific LNG contracts
M. Grime, D. Poddar and N. Kalic  465–468

The Internet of Things (IoT) is transforming the oil and gas industry – reducing cost, improving operational efficiency, increasing safety and helping tap into new markets
P. Hogarth-Scott  469–472

Natural catastrophe risk modelling for northwest Australia offshore installations
T. Inamura, F. Lobo, R. Hirose and H. Sano  473–476

Curiosity, creativity and collaboration – creating a digitally integrated supply chain
C. Jordan  477–480

The digital workforce – disruptive technologies changing the way work gets done
C. Jordan  481–485

What happens when quantum computing re-defines the assessment of investment risk?
M. Laybourn and J. Pascoe  486–488

Project overruns: why are we still getting it wrong?
G. D. Lee, S. P. Whitaker and M. Wilkes  489–492

Open-access midstream infrastructure and its effects on the Australian gas market
S. Lewis, J. Serfaty, M. Brooks and B. Smith  493–497

Ready to collaborate? Operator and supply chain under the spotlight
M. Lynn and A. Samuel  498–501

Enhancing environmental performance during Wheatstone dredging through science and innovation
M. Marnane, T. Elsdon, T. Rouphael, C. Pedersen, K. Peat and C. Morgan  502–505
Not all barrels are created equal: understanding the difference between standards of regulatory disclosure can impact your investment decisions
A. L. McMullen and W. Chung 506–510

Maximising ROI through risk based inspection in the CSG industry
A. Mills, K. Reilly, T. Lim and G. Strike 511–513

Challenges and lessons learned from environmental approvals for drilling in frontier offshore basins, using the Great Australian Bight as an example
G. B. Pinzone 514–518

Determining the impacts of coal seam gas extraction on water resources and water-dependent assets
D. A. Post and P. A. Baker 519–522

Woodside Energy Ltd: pioneer in cognitive computing, artificial intelligence and robotics
R. Potapinski 523–525

A reserves driven view of the eastern Australian gas supply and demand balance through the 2020’s
W. Pulsford 526–531

Quantifying host nation benefit from LNG developments
W. Pulsford and P. Goel 532–535

Tax transparency is not just about tax
J. Rintoul 536–538

A step change in safety performance through critical control management
R. Selleck 539–542

Improving success rates for Indigenous business engagement
M. Saylor and D. Archbold 543–545

Decommissioning and remediation challenges for the petroleum industry
P. F. Shaw 546–548

Can a social licence to operate be regained once lost? A case study of the New South Wales coal seam gas industry
D. Snashall and S. Genter 549–551

Our energy future: the power of collaboration to transform Australia’s energy resources sector
M. Taylor 552–555

Will Australian liquefied natural gas demand soar under the 21st Annual Conference of the Parties (COP21) targets?
F. Tibi, N. Reid, W. Skinner, R. Grosvenor and A. Smith 556–560

New system for detecting, mapping, monitoring, quantifying and reporting fugitive gas emissions
T. R. Tsai, K. Du and B. Stavropoulos 561–566

Postcard from Pennsylvania: lessons learned during successful fight over Marcellus Shale operations that may have applicability to Australian discussion
C. Tucker 567–571

Portfolio analysis of petroleum fields and prospects: a robust statistical method

Achieving tax certainty for oil and gas projects
K. Wee 577–580

Floating liquefied natural gas (FLNG): is it still a nice niche?
M. Wilkes 581–584
# ENGINEERING — EXTENDED ABSTRACTS

<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLNG innovation: discover development hotspots with patent landscaping</td>
<td>R. H. Baddeley</td>
<td>585–588</td>
</tr>
<tr>
<td>Managing integrity of operating FPSOs</td>
<td>A. Barros</td>
<td>589–590</td>
</tr>
<tr>
<td>How to effectively manage production facility low-temperature exposure risk</td>
<td>J. Bonini</td>
<td>591–594</td>
</tr>
<tr>
<td>Turn your workover costs into an investment: a case study in an east coast CSG project</td>
<td>E. Boto, N. Heyes, D. Merritt and N. Saremi</td>
<td>595–598</td>
</tr>
<tr>
<td>Innovative inspection techniques for ultra deepwater drillships and other floating O&amp;G production assets saving costs, enhancing safety, while assuring operational availability and asset integrity</td>
<td>P. Davies and D. Constantinis</td>
<td>599–602</td>
</tr>
<tr>
<td>Casino pipeline: novel pipeline integrity inspection</td>
<td>S. Henzell and F. Read</td>
<td>603–606</td>
</tr>
<tr>
<td>A case study for cost-effective design of relocatable deep dewpoint control gas plant</td>
<td>B. Jung, N. Kritzinger, S. van Wagenveld and J. Mak</td>
<td>607–611</td>
</tr>
<tr>
<td>A practical workflow for performance prediction of low permeability reservoirs</td>
<td>A. L. McMullen and S. J. Golko</td>
<td>612–616</td>
</tr>
<tr>
<td>Application of dynamic simulation to assess the effectiveness of well clean-up in a horizontal gas well</td>
<td>H. Wun Moh, E. D. Putra and R. Yusuf</td>
<td>617–622</td>
</tr>
<tr>
<td>Lloyd’s Register—Cyber CBM (Condition based maintenance)</td>
<td>J. Morelos</td>
<td>623–628</td>
</tr>
<tr>
<td>Case study of the effects on coal seam gas well production with installation of well head compression (oil-flooded rotary screw type): early outcomes of an Australian trial of four wells in the Bowen Basin</td>
<td>T. Presley, E. Kurnia and B. Wronski</td>
<td>629–634</td>
</tr>
<tr>
<td>Lean offshore platform design</td>
<td>D. Sage, M. Bieganski and A. Grant</td>
<td>635–638</td>
</tr>
<tr>
<td>Recirculation to improve progressive cavity pumps (PCPs) run life</td>
<td>J. Martin</td>
<td>639–642</td>
</tr>
<tr>
<td>Ten years of CO\textsubscript{2} storage and operations</td>
<td>R. Singh and M. Chable</td>
<td>643–646</td>
</tr>
<tr>
<td>Integrity inspection planning updated with cost of risk</td>
<td>Y. Sokolov</td>
<td>647–651</td>
</tr>
<tr>
<td>Reservoir to market: generating project value by coupling surface facilities with reservoir data in integrated asset modelling</td>
<td>S. Stokes</td>
<td>652–655</td>
</tr>
<tr>
<td>Gas permeability measurement of shales using the quasi steady-state technique</td>
<td>M. N. Testamanti, R. Rezaee and C. Wong</td>
<td>656–659</td>
</tr>
<tr>
<td>Porosity and pore size distribution of shales: a case study of the Caryningia Formation, Perth Basin, Western Australia</td>
<td>M. N. Testamanti, R. Rezaee and J. Zou</td>
<td>660–663</td>
</tr>
<tr>
<td>Determination of T2 cut-off for shale reservoirs: a case study from the Carynginia formation, Perth Basin, Western Australia</td>
<td>M. N. Testamanti, R. Rezaee, Y. Yuan and D. Pan</td>
<td>664–668</td>
</tr>
<tr>
<td>Title</td>
<td>Authors</td>
<td>Pages</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>Getting it right the first time in the Ceduna Sub-basin: regional and target depth imaging in a frontier setting</td>
<td>W. Koh</td>
<td>767–771</td>
</tr>
<tr>
<td>Anisotropy parameter inversion from sonic and density logs in horizontally transverse isotropic media</td>
<td>J. Kremor and K. Amrouch</td>
<td>772–775</td>
</tr>
<tr>
<td>Polynomial amplitude versus azimuth inversion in horizontally transverse isotropic media, as tested on fractured coal seams in the Surat Basin</td>
<td>J. Kremor, R. Taylor and K. Amrouch</td>
<td>776–780</td>
</tr>
<tr>
<td>Impact of faults and compartmentalisation on geological carbon storage estimates in highly faulted basins</td>
<td>J. W. Poesse, L. P. Ricard and A. Hortle</td>
<td>789–792</td>
</tr>
<tr>
<td>The Great Australian Bight – from AVO prospectivity screening to potentially drillable targets in one of the world’s remaining untapped basins</td>
<td>D. Rajeswaran and M. Przywara</td>
<td>793–797</td>
</tr>
<tr>
<td>Analysis and characterisation of petroleum source rocks in Queensland</td>
<td>A. Troup and J. Gorton</td>
<td>806–809</td>
</tr>
<tr>
<td>Using precise CA-TIMS ages of volcanic air-fall tuff beds in correlating the Walloon Coal Measures of the Surat Basin, Australia</td>
<td>C. Wainman and P. McCabe</td>
<td>810–813</td>
</tr>
<tr>
<td>Where, when and how a field-scale 4D geomechanical model should be built</td>
<td>A. Younessi</td>
<td>814–817</td>
</tr>
<tr>
<td>Enhancing SAR seep interpretation with broadband seismic: a case study from the Timor Trough</td>
<td>R. Edwards, M. Sanderson, P. M. Duran, G. Duval and M. King</td>
<td>818–821</td>
</tr>
</tbody>
</table>