ACREAGE RELEASE
Australian onshore petroleum acreage and releases 2018
E. Alexander
426–436

Petroleum geology of the 2018 offshore acreage release areas
T. Bernecker, G. Bernardel, C. Orlov and N. Rollet
437–461

A new compact for communities, government and the resources sector
J. Purtill
462–464

2018 offshore petroleum exploration acreage release
L. Schofield
465–468

YEAR IN REVIEW
Petroleum production and development across Australia 2017
G. Bethune and S. Bethune
469–478

Australian exploration review 2017
M. Quinn and F. Hulbert
479–487

Digital transformation of the oil, gas and energy value chain
P. Taliangis
488–492

BUSINESS – EXTENDED ABSTRACTS
Reliable cost-efficient distributed energy systems with a high renewable penetration: a techno-economic case study for remote off-grid regional coal seam gas extraction
J. Bamberger, T.-C. Chang, B. Mason, A. Mesanovic, U. Münz, W. Priest, R. Thompson, A. Szabo and X. Wu
493–500

Resolving double taxation in a global environment – when might it impact on deal value?
Consideration of the availability of mutual agreement procedures and arbitration
S. Blakelock and G. Hempenstall
501–504

South Australia’s power sector: renewables, batteries and the future role of gas
N. Browne and B. Pokharel
505–507

Smart upstream to LNG
R. Byfield
508–512

Evolution of the east coast gas market
P. Byrne
513–515

A new approach to value creation – stranded gas resource commercialisation via low-cost small scale floating LNG projects
D. Cha
516–520

A comprehensive approach to safe and successful asset operatorship transition
N. Clegg and S. Heinemann
521–524

Big oil in 2030: thriving (and driving) in a carbon constrained future
B. Cullinane and S. McGill
525–528

From hydrocarbons to electrons: creating new opportunities for the oil and gas sector
B. Cullinane, M. Wood and B. Ladbrook
529–532

‘Zero Routine Flaring by 2030’: a new global industry standard
J. Cutler, B. Hamso and F. Sucre
533–537
Optimising energy sourcing and consumption in the oil and gas sector
D. Danilovich
538–540

The future of safety in the oil and gas industry
S. De Nichilo
541–544

The role of the human in an age of automation
B. Farrell
545–549

Contracting with small businesses: include unfair terms in your standard form contracts at your peril
A. Freeman
550–552

Navigating the Great Australian Bight using system models
E. A. Fulton, C. M. Bulman and S. Goldsworthy
553–556

Accelerating oil and gas investment and reserves by design
B. A. Goldstein
557–561

The role of marine science in managing environmental risk offshore
P. E. Hardisty, M. Dommisse and K. E. Cooper
562–564

Reimagining the future of gas
A. Jaffray
565–568

Australia’s LNG wars – an industry under fire
S. Kavonic
569–570

Cost recovery: when reducing costs for an asset can increase costs for an operator
R. Ludwig
571–573

The prisoner’s dilemma: gaming risk in joint venture gas arrangements
S. A. McAlister-Smiley and J. M. Spanjaard
574–577

Innovation and technology in marine science: AIMS’ North West Shoals to Shore Research Program
M. J. G. Parsons, M. G. Meekan, K. J. Miller, M. Thums and J. P. Gilmour
578–581

Working on the land
M. Paull, N. Patterson, A. Patch and K. How
582–585

Engineering real success using digital technologies
C. Phasey and S. Ashfield
586–588

Leading the WAY: Western Australia is the key to driving LNG as a marine fuel
W. Purio, M. Bowen, A. van der Walt and S. Panizza
589–592

LNG as marine fuel – where technology meets logistics
D. Raitt
593–595

The smart money: driving shareholder value through better capital allocation
S. Reid and F. Decker
596–600

Construction safety case (MAP) – a strategy for successful implementation
R. Selleck
601–605

The future of OHS inspections using intrinsically safe mobile technology
N. Shibi and K. V. Ahlgren
606–608

Earning community trust to operate – Northern Gas Pipeline
J. Spink
609–611

Bursting bubbles: can experiments and analogues help stakeholders and the public visualise risks?
L. Stalker, J. J. Roberts and L. Mabon
612–616
Social media use in the Australian energy and resources sectors
C. A. Styan 617–620

Using risk connectivity and contagion to add value – how analytics are revolutionising the approach to risk
C. Sugars 621–624

An overview of the new Geological and Bioregional Assessments Program
A. Swirepik, A. Stacey and R. Dann 625–629

Radical disruption – renewables, technology and the arrival of ‘peak gas’
G. Thompson 630–632

What comes next: responding to recommendations from the task force on climate-related financial disclosures (TCFD)
S. Tyagi 633–636

BP’s evolution in the face of Australia’s transforming fuel supply chain: ensuring business sustainability as well as security of supply for the nation’s demands
D. Tyzack and L. Sullivan 637–639

Update of the information guidelines to improve scientific information provided to the Independent Expert Scientific Committee on Coal Seam Gas and Large Coal Mining Development

Shining the spotlight on the petroleum resource rent tax
K. Wee 643–646

Repositioning gas in the power generation mix
M. Wilkes 647–650

Implementing process safety critical roles to reduce risk
A. J. Wilson and G. G. Ransom 651–654

Empowering Australia in the global oil and gas standardisation initiative
A. Woodhams, T. Fletcher, M. Weustink and M. Taylor 655–659

ENGINEERING – EXTENDED ABSTRACTS

Low-salinity waterflooding in non-polar oil
A. Al-Sarihi, A. Zeinijahromi and P. Bedrikovetsky 660–663

Coreflood planning criteria for relative permeability computation by Welge-JBN method
A. Al-Sarihi, Z. You, A. Behr, L. Genolet, P. Kowollik, A. Zeinijahromi and P. Bedrikovetsky 664–668

Effect of casing eccentricity on cement sheath integrity
E. Arjomand and T. Bennett 669–673

Esso pipeline replacement project
D. Bapat and D. Standfield 674–678

Streamlining ‘environment in design’ decision-making – from concept to operations in major development projects
J. M. Barrow 679–682

The importance of optimal geological zonation and choice of rock parameters in dynamic reservoir simulation: a case study for the Laminaria field
P. Behrenbruch, T. G. Hoang, K. D. Bui, M. T. Do Huu and T. Kennaird 683–689

Building a world-class Australian decommissioning industry
K. Bills 690–694

Offshore gas field development – the ripple effect
A. Black and G. Saunders 695–699
Injectivity formation damage due to fines migration
L. Chequer, M. Bagheri, A. Zeinijahromi and P. Bedrikovetsky 700–704

The insensitivity of thermal diffusivity of natural sediments to saturation

Free drainage of foam mixed with proppants in the presence of nanoparticles
Y. Fei, M. Gonzalez and M. Haghighi 710–714

Wellsite serviced power model for the CSG industry
G. E. Harris 715–718

Pioneering Li-ion batteries on an offshore platform
L. Jacobs, N. Nguyen and R. Beccarelli 719–722

The effective use of data analytics in an advanced compressor performance and degradation monitoring system
R. Lucas, A. Jones, W. Ford and M. Doyle 723–727

An experimental investigation into surface roughness of a hydraulic fracture
A. Movassagh, M. Haghighi, D. Kasperczyk, M. Sayyafzadeh and X. Zhang 728–732

Using technology and innovation to deliver a step change in CSG workover rig services
T. Phelan 733–735

Reducing rig personnel requirements with standards-based real-time data streaming
R. Philo and J. Hollingsworth 736–738

Decommissioning: taking control of your committed investment
R. Polson 739–742

Effect of kaolinite content on formation damage due to fines migration: systematic laboratory and modelling study

Decommissioning – What’s the fuss about?
P. Saraceni and K. Liddle 748–752

Financing a mega LNG project and ‘raising the bar’ in securing a social licence to operate
Y. Tokunaga 753–755

Evolving Santos’ onshore execution and production business to unlock value and growth through the commodity cycles
B. Woods 756–760

How to monitor your safety instrumented system performance
A. Yam 761–764

Predictions of fracture growth in Walloon coals using a layer fracture model
X. Zhang, B. Wu, L. Connell and Y. Han 765–768

**GEOSCIENCE – EXTENDED ABSTRACTS**

Numerical investigation of dynamic and static properties of reservoir rocks
M. Abdolghafurian, B. Joodi, S. Iglauer and M. Sarmadivaleh 769–772

Innovative high trace density design with broadband seismic data acquisition in the Cooper–Eromanga Basins, Australia
J. Archer, M. Delic and F. Nicholson 773–778

Exploring for stratigraphic traps in the Patchawarra Formation, Cooper Basin: an integrated seismic methodology
A. Bennett 779–783
Composition changes of hydrocarbons during secondary petroleum migration
S. Borazjani, D. Kulikowski, K. Amrouch and P. Bedrikovetsky 784–787

Geomechanical insights in the Bedout Sub-basin: exploiting technologies for understanding reservoir settings

Uncovering the Canning Basin: a new comprehensive SEEBASE® model
K. Connors, C. Jorand, P. Haines, Y. Zhan and L. Pryer 793–798

Australia’s premier shale basin: five plays, 1 000 000 000 years in the making
A. Côté, B. Richards, C. Altmann, E. Baruch and D. Close 799–804

The permeability structure of fault zones in sedimentary basins: a case study at the Castle Cove Fault, Otway Basin
N. Debenham, N. J. C. Farrell, S. P. Holford, R. C. King and D. Healy 805–808

An outcrop analogue for deepwater salt withdrawal mini-basins: lateral and vertical variations in basin-fill

Marine seismic triple source case studies from the Asia-Pacific region
E. Hager 816–820

Mapping geology beneath volcanics using magnetic data
I. Kivior, S. Markham, L. Mellon and D. Boyd 821–824

Play-based exploration in the southern Cooper Basin: a systematic approach to exploration in a mature basin
D. A. Lockhart, E. Riel, M. Sanders, A. Walsh, G. T. Cooper and M. Allder 825–832

Unravelling the Triassic Mungaroo Formation within North Carnarvon Basin using Regional Stratral Slice Volumes
T. Marsh, B. Kowalik, R. Welch, A. Powell, H. Howe and B. Hallager 833–838

Tectonostratigraphic framework of the Lower Keraudren Formation, Bedout Sub-basin: interplay of tectonics and sedimentary systems

Insights into the Great Australian Bight gained through marine geology and benthic ecology studies

Cretaceous to present-day tectonic reconstructions of Zealandia

The stratigraphic architecture, distribution and hydrocarbon potential of the organic-rich Kyalla and Velkerri shales of the Upper Roper Group (McArthur Basin)
M. Sheridan, D. R. Johns, H. D. Johnson and S. Menpes 858–864

Investigating depth structure uncertainty for horizontal well placement, Bauer Field, Cooper-Eromanga Basin
E. Shirley 865–870

Recent exploration results in the Lower Triassic, Bedout Sub-basin: Australia’s next petroleum province?

The Lower Triassic Caley Member: depositional facies, reservoir quality and seismic expression

Full waveform inversion: early start of model building process to resolve the complex near surface model in the Exmouth sub-basin, North West Shelf Australia
L. Zhang, H. Trihutomo, Y. Gong, B. J. Lim and A. Karvelas 884–889