AUSTRALIAN ONSHORE ACREAGE RELEASES 2018

Australia

PETROLEUM
Current Australian permits, applications and onshore acreage releases

• Current 2018 acreage releases in Queensland and Victoria.

• NSW – 2 proposed areas, Preliminary Regional Issues Assessment has commenced.

• Tenements via competitive work program bidding in WA, NT, SA, NSW, Qld and Victoria.

• Over the counter applications in selected areas of WA and SA.

• Exploration tenement application fees ~$4-6,000.
Western Australia
Exciting drilling results

Northern Perth Basin
Waitsia - biggest WA onshore gas field and with record flow
• Discovery in 2014 was a new Permian sandstone play
• 2P reserves 811 PJ
• Waitsia 4 flowed 90 MMCFD on a 96/64” choke.

Xanadu - new State Waters oil discovery
• Discovered September 2017 in Permian sandstone
• Similar 34.7° API to producing Cliff Head Field.

Onshore Canning Basin
Ungani oilfield accelerated development currently underway
• Discovery in 2011 was another new play: Devon.- Carboniferous dolomite.
GSWA Basins & Energy Geosciences

Highlights:

**Canning Basin**
- Planned acquisition of a new 2D deep crustal seismic survey (Kidson Sub-basin) (with GA).
- New airborne gravity & seismic reprocessing
- Passive seismic project along Canning Coastal Seismic Survey line & offshore (with GA & Chinese Academy of Sciences)
- Compilation of digital core atlases for Olympic 1, Theia 1, Senagi 1 & other wells
- SEEKBASE update for Canning Basin (undertaken by FrogTech)

**Perth Basin**
- Passive seismic survey along length of Perth Basin (with UWA)
- Core analysis in northern Perth Basin in collaboration with AWE (Waitsia & Drover 1 wells)
- Biostratigraphy, seismic interpretation & structural mapping of southern Perth Basin

**Carnarvon Basin**
- Review & update of Byro Group stratigraphy & source rock potential of the basin
- Seismic reprocessing
Farmin potential
• nominees & applicants maps available from booth 99

Work program bid round
• 2017 release closed February 2018
  - 4 of 5 areas applied for (Canning Basin)

Further information on USB
Northern Territory
Regulatory framework

- **Scientific Inquiry into Hydraulic Fracturing in the Northern Territory** final report delivered on 27 March 2018
- Report detailed 135 recommendations to be adopted and implemented in entirety to ensure minimal to no risk associated with shale gas extraction [https://frackinginquiry.nt.gov.au](https://frackinginquiry.nt.gov.au)
- Northern Territory Government delivered response to inquiry on 17 April 2018: supports or supports in-principle each recommendation
- Implementation plan will be released in July 2018
- Details of Northern Territory Government response can be found at: [https://hydraulicfracturing.nt.gov.au](https://hydraulicfracturing.nt.gov.au)
Onshore exploration, production & infrastructure

Amadeus Basin
- Santos continued exploration in 2017 for sub-salt conventional targets; acquisition of > 900km 2D seismic
- Central Petroleum transitioning Mereenie field to increased gas production; 4.98 bscf onshore production in 2017; 30% increase on 2016

Pipelines
- Construction of the 633 km Northern Gas Pipeline on track for scheduled completion late 2018.
- Commissioning of Ichthys Gas Export Pipeline underway; operation due late 2018
- Approval process underway for construction of 439km pipeline connecting Amadeus Gas Pipeline to Newmont’s Tanami Mine
Geoscientific information

Under the CORE initiative, NT Geological Survey continues to provide new precompetitive geoscientific information on key onshore basins including the release of

- new SEEBASE® study over the greater McArthur Basin
- interpretation ready Kingdom® project of all open file seismic data within the Beetaloo Sub-basin
- redefinition of the boundary of the Beetaloo Sub-basin boundary

Discover and download geoscience information at: www.minerals.nt.gov.au/ntgs
Queensland
Annual Exploration Program

• The AEP provides a release schedule of petroleum acreage for competitive tendering in the financial year

• 12 areas were released in 2017/18, currently the Bowen-Surat Province and Adavale Basin areas are open

• Expressions of Interest for AEP 2018/19 closed on 1 December. Submissions for AEP 2019/20 open in September 2018

• Visit www.dnrm.qld.gov.au/resources-tenders for further information
**Exploring for the Future**

- $100 million Commonwealth Government initiative with state and territory government contributions
- Proterozoic basins in Queensland and Northern Territory
- Improve understanding of energy & minerals potential
- New data acquisition
  - Extensive deep seismic program complete
  - Ongoing field studies and sampling
  - Stratigraphic drilling planned
Strategic Resources Exploration Program

- Investment of $27 million over 4 years
- $3.6 million to drive gas exploration in North West Queensland
- Projects
  - SEEBASE modelling on North West study area complete
    - QDEX report no 106204
    - Report and data available
  - SEEBASE modelling in central Queensland study area underway
  - Planning for Camooweal 2D seismic survey in 2019
New South Wales
Current petroleum titles

22 current onshore petroleum authorities:

- 6 Production Licences
- 1 Assessment Lease
- 15 Exploration Licences
Strategic Release Framework – new exploration areas

December 2015
Strategic Release Framework enacted

June 2017
Two areas were identified for initial assessment by the Advisory body for Strategic Release

January 2018
Preliminary Regional Issues Assessment commenced
NSW Strategic Release Framework – process

1. Resource Assessment (GSNSW)
2. Preliminary Regional Issues Assessment + community engagement
3. Recommendation to government of a proposed release area
4. Auction process - Pre-qualification & bid (reserve price)
5. Government endorsement - Grant of Title
Victoria
Victorian Otway Basin – 5 exploration permits on offer

- Offshore in Victorian State Waters
- Blocks 18-1 (v) to 18-5 (v)
- Blocks 4 and 5 adjacent to existing producing gas fields
- Established infrastructure in Victoria’s south-west
- New airborne gravity data to be acquired this year
- Work program bidding
- Bids close 6pm Friday 15 February 2019
- Visit APPEA booth 185 for more information
South Australia
State of play in SA

• 49 PELs and 54 PELAs current
• Work program bidding in Cooper & Otway
• Over-the-counter applications elsewhere
• No current onshore acreage releases
Upcoming Cooper Basin PEL expiries

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Pipelines
- Western Flank Oil play trend

www.petroleum.dpc.sa.gov.au

Booth number 25
• Business as usual for conventional gas exploration in the Otway Basin in the South East.
• No applications received for OT2017-A release.
• All vacant acreage subject to work program bidding.
• Recent relinquishment of PPL 21 (excluding 1km² at Caroline CO₂ Plant) – potential for Late Cretaceous Waarre Sst oil play. No seismic since 1990.
• Caroline 1 – Air Liquide’s CO₂ well to be decommissioned. Produced up to ~60 bbl heavy oil/yr.
• Beach Haselgrove 3 ST1 gas discovery in 2017/18 a game changer – part funded by $6 million PACE Gas grant
• Beach have been awarded a $6 million Federal GAP Grant to build a new gas plant.
• Please talk to us at Booth 25 if interested.
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