



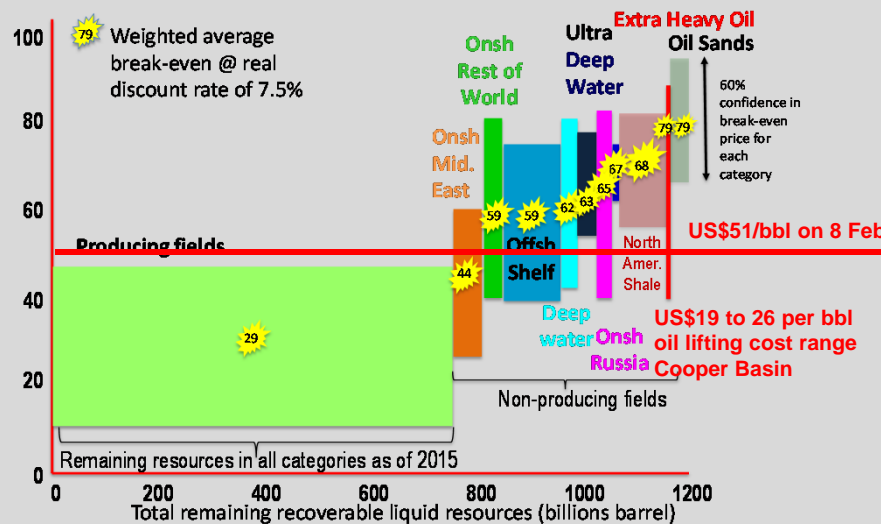
Australia PETROLEUM



Setting the Scene

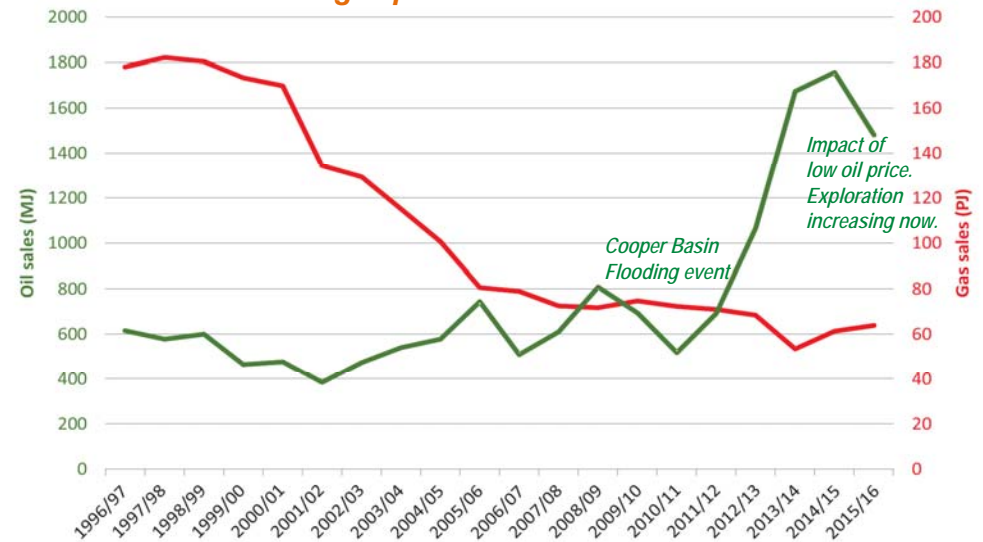
- The long-term outlook remains very positive for SA's minerals and petroleum sectors – SA has a rich mineral and petroleum resource endowment and long-life resources.
- SA offers a supportive investment framework, trusted regulation, infrastructure and easy access to data.

Rystad Energy's Global liquid petroleum cost curve US\$/bbl Brent

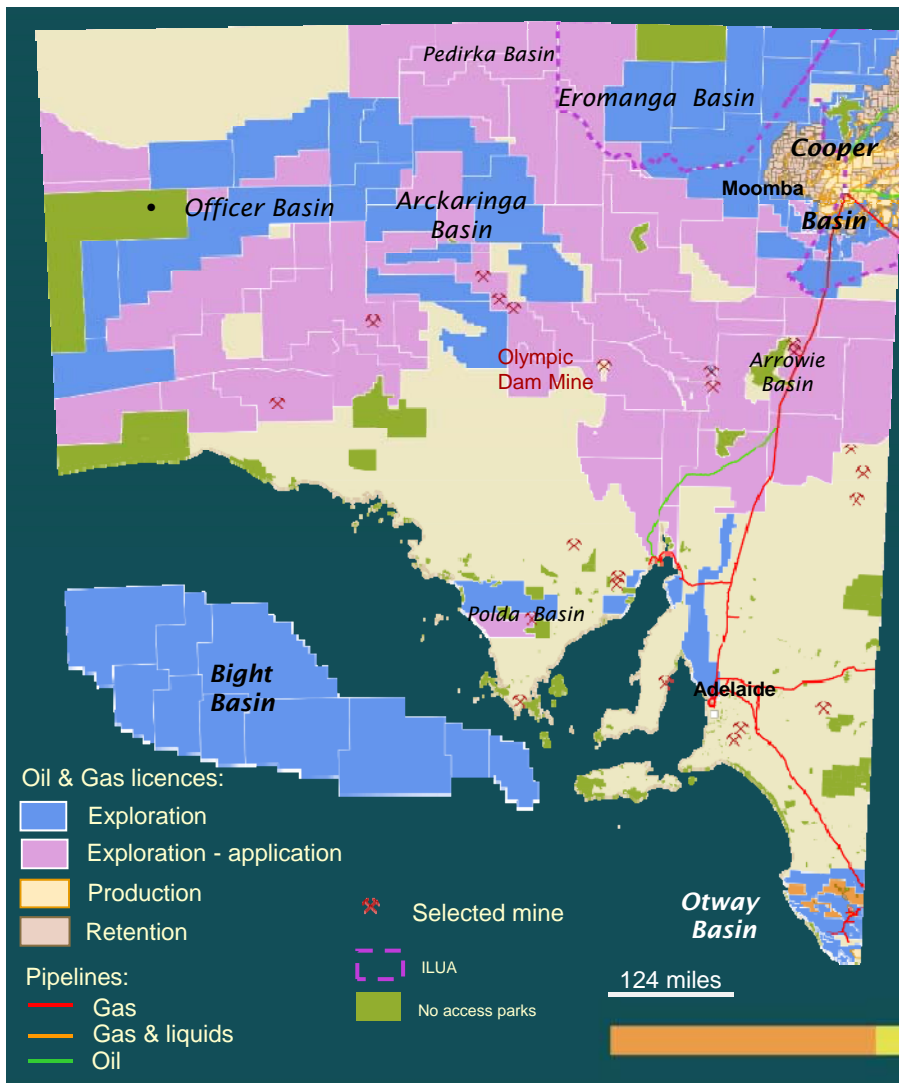


<http://www.rystadenergy.com/AboutUs/NewsCenter/PressReleases/global-liquids-supply-cost-curve>

SA Oil and gas production



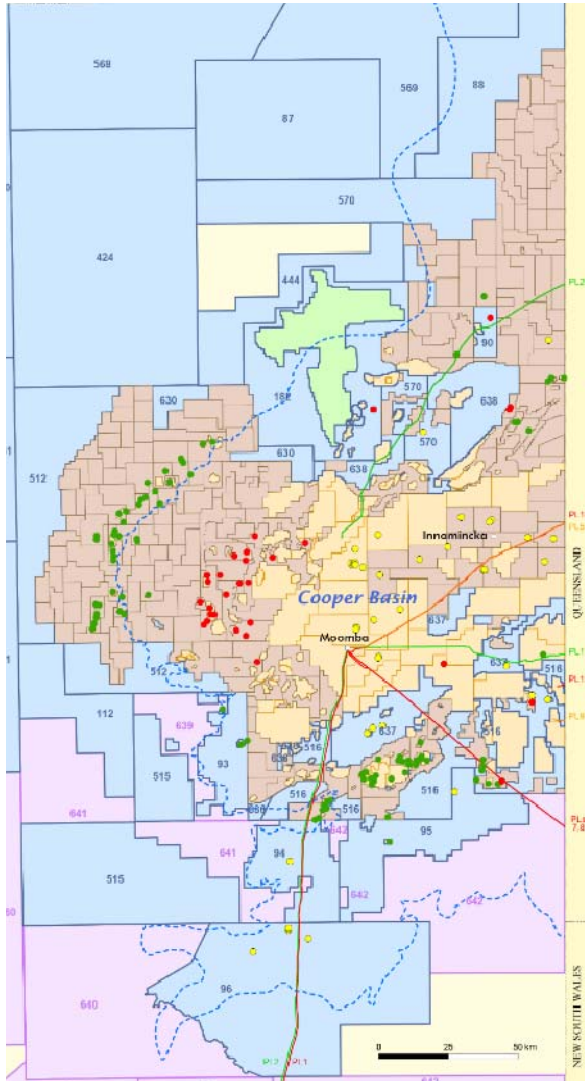
204861-006



State of play for oil & gas in SA

- SA and Qld Cooper-Eromanga remains Australia's largest onshore oil and gas producer
- Huge potential for gas in Cooper Basin unconventional reservoirs, including the world's deepest gas from coal source rocks
- Work program bidding in Cooper & Otway.
- Over-the-counter applications elsewhere - anytime.





Cooper Basin acreage

Cooper Basin vacant acreage is subject to work program bidding:

- 5 year work program – scoring method published,
- Evidence of financial and technical capacity.



Petroleum tenements

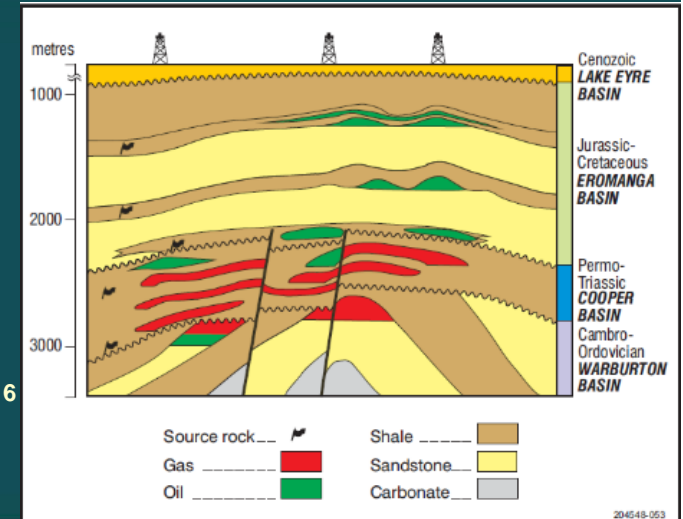
- Exploration
- Exploration application
- Production
- Retention

Pipeline

- Oil
- Gas
- Gas and liquids

Discoveries 2002–16

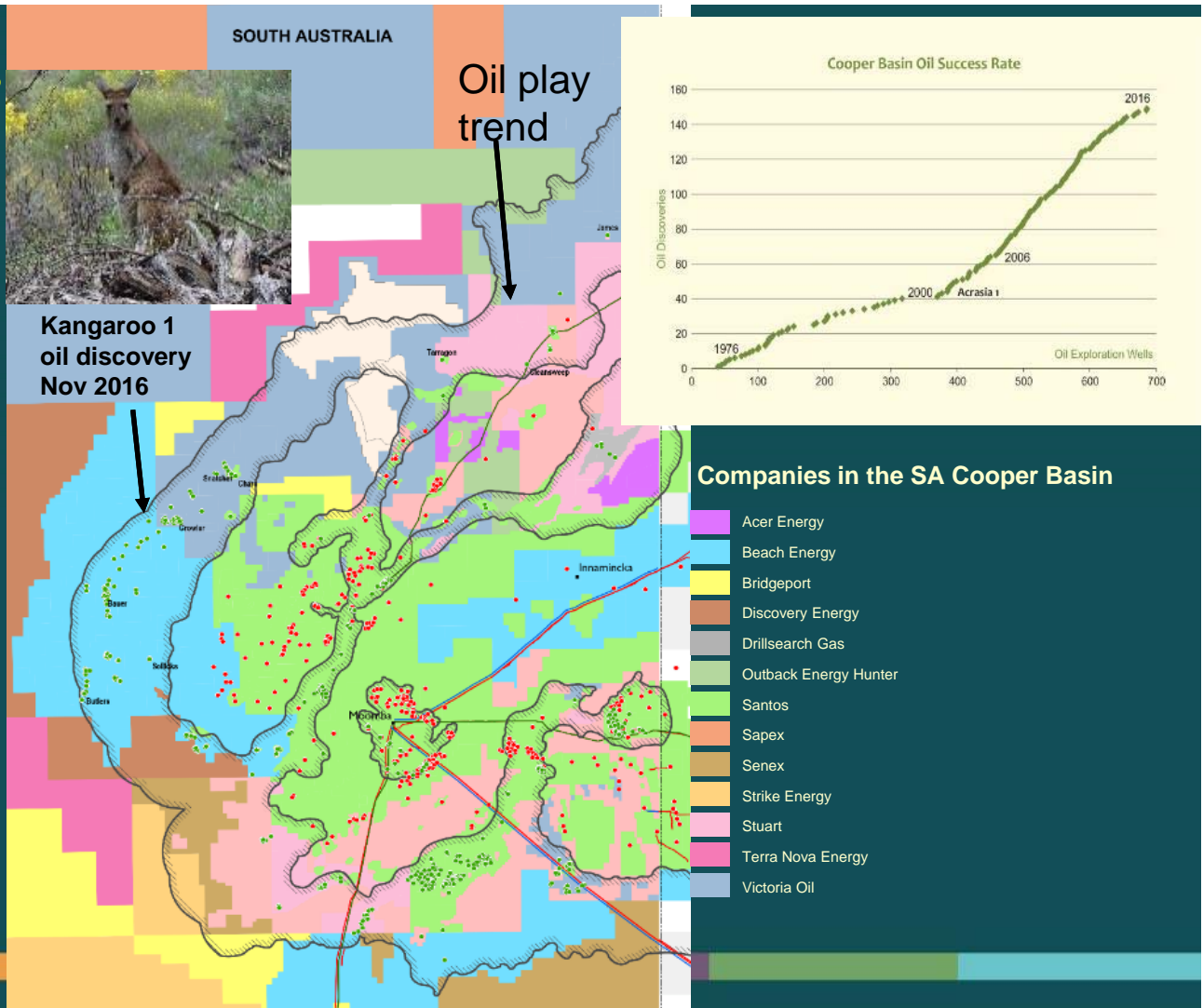
- Oil
- Gas
- Resource play

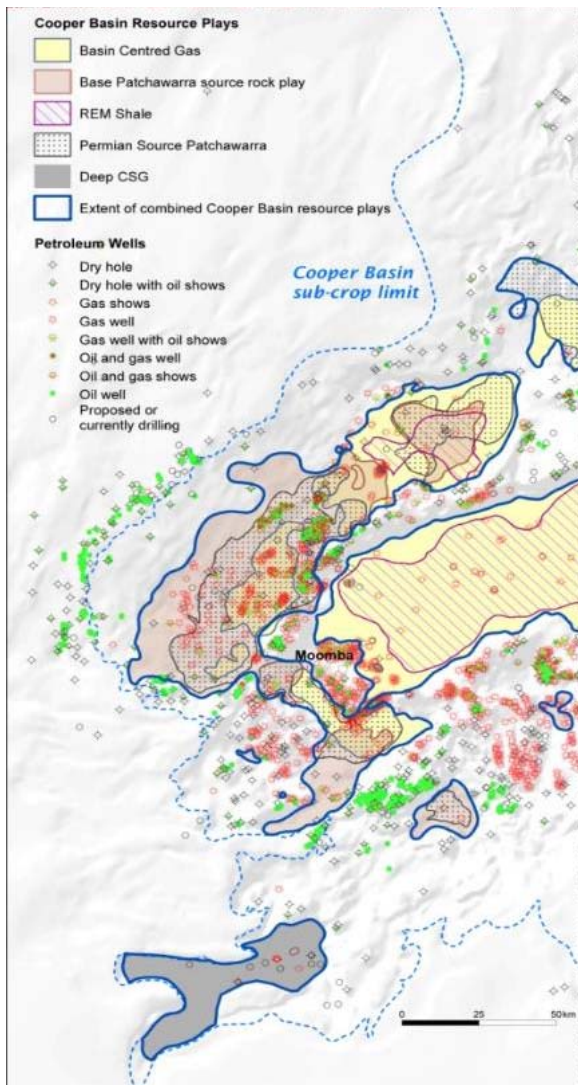


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Cooper Basin Oil plays

- Western flank oil play trend- more recent discoveries
- Structural and structure-stratigraphic traps, excellent sandstone reservoirs.
- ~ 50% success finding average 2.5 mmo recoverable.
- Beach Kangaroo 1 further out from Cooper zero edge. 20m (65ft) gross oil column, stratigraphic trap.
- Beach report their Western Flank operated field costs <\$3.00/boe.





Cooper Basin Gas Plays

Gas – Conventional Plays

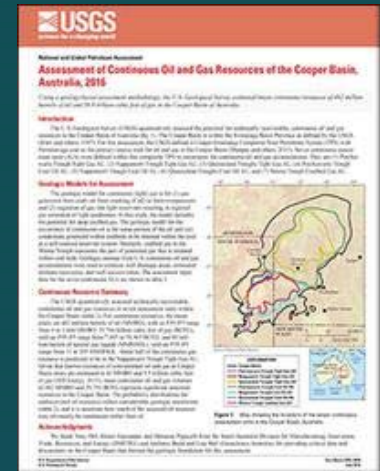
- Structural and structure-stratigraphic traps, sandstone reservoirs, coal and shale source (6.5 TCF produced)

Dry-Wet Gas Unconventional Plays

- Deep self-sourcing coal – world's deepest CSM
- Mixed reservoirs with coal and shale source
- Tight sandstone reservoirs

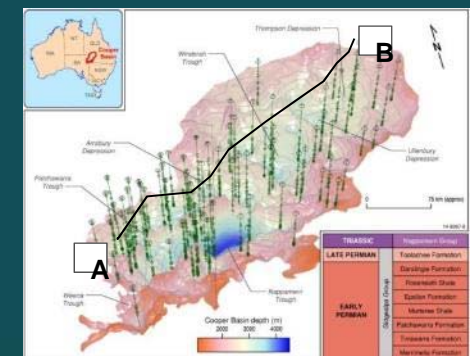
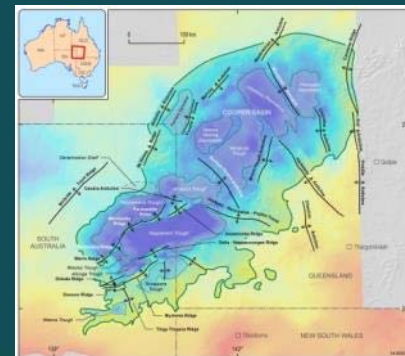
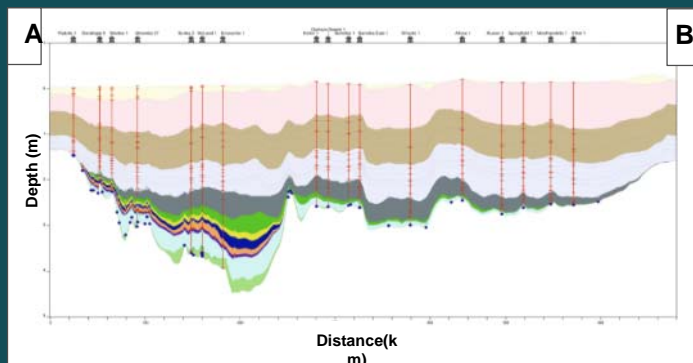
GA and DSD 2016 assessment of in place unconventional reservoirs in the Cooper Basin:

- 669 TCF C1-C5 Sales Gas-in-Place
- 80 billion C6+ Bbls Gas Liquids / Oil-in-Place



Cooper Basin Regional Petroleum Prospectivity Studies

- Prospectivity study workflow:
 - 3D basin architecture and structural evolution
 - Geochemistry: source rock thickness, amount, quality
 - Integrated basin modelling: source rock maturity, hydrocarbon generation
- For more information www.ga.gov.au



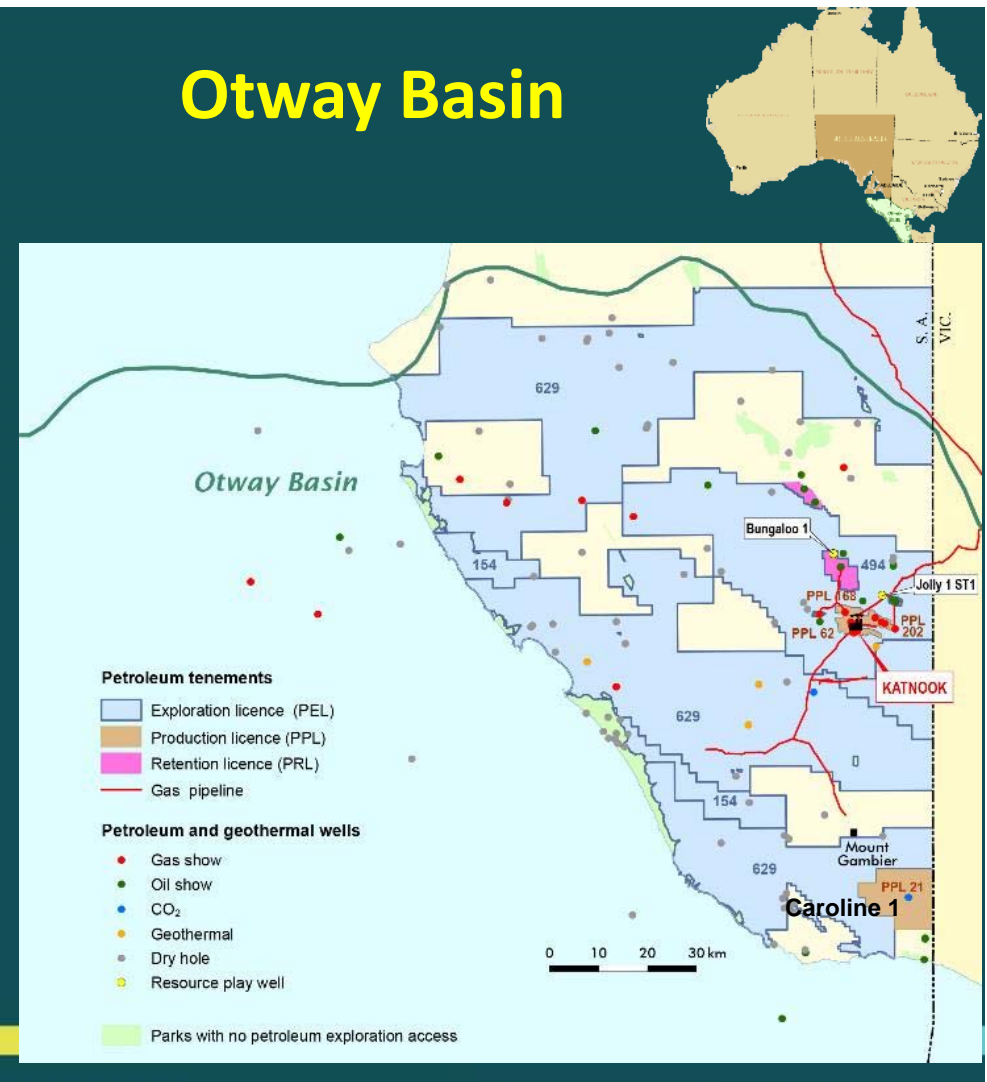
Otway Basin vacant acreage is subject to work program bidding. Conventional and unconventional oil and gas plays.

PEL 629 granted to Ouro Preto Resources Pty Ltd in March 2014. Comprehensive G&G review - seeking farminees.

PELs 494 and 495 - Beach Energy Jolly 1 and Bungaloo 1 drilled in 2014. Identified conventional reservoirs + deeper unconventional targets – seeking farminees.

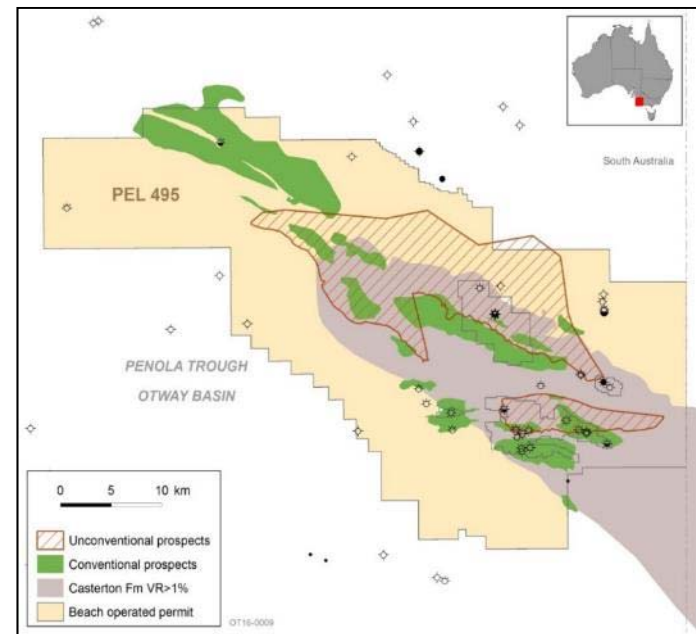
Caroline PPL 21 – Air Liquide CO₂ well has produced up to ~60 bbl heavy oil per year.

Otway Basin



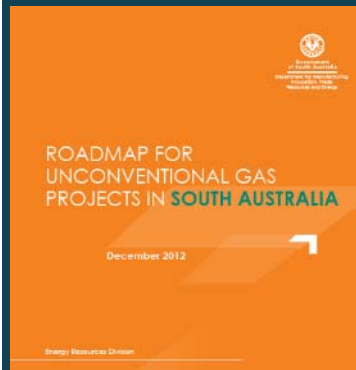
Penola Trough Farmin Opportunity

- Recent drilling results have increased the prospectivity of the Penola Trough
- A number of conventional prospects and leads subsequently identified
- Potentially large gas filled stratigraphic play intersected
- Beach Energy invite participation in exploring a material acreage position in a proven hydrocarbon producing province
- Equity is also available in existing infrastructure that has potential access to the eastern Australia gas market

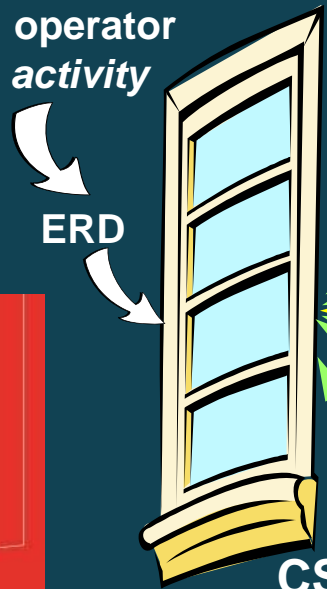


Schematic of prospects and leads in relation to mature Casterton Formation sediments in the SA Penola Trough

SA offers best practice regulation, PACE Gas grants, 1 window into Government, Roundtable for Oil & Gas, Retention Licences...



Licence operator activity



ERD

Health

EPA

National Parks

Native veg

Water

Safework

Planning

CSO for native title

MOU

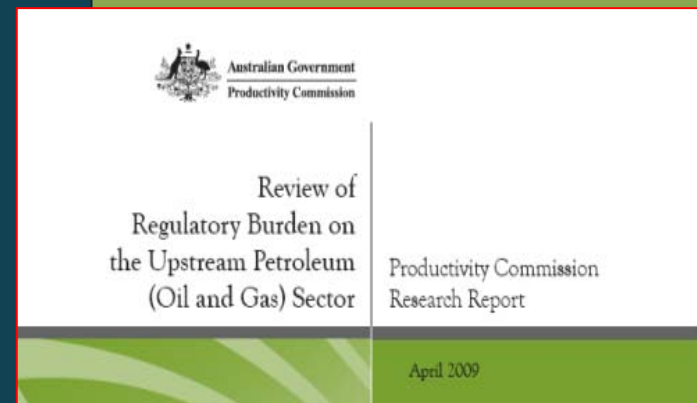
* Legal delegation



South Australia

Petroleum and Geothermal Energy Act 2000

An Act to regulate exploration for, and the recovery or commercial utilisation of,





Easy access to data

PEPS online

Downloadable WCRs - including scanned mudlogs, composite logs

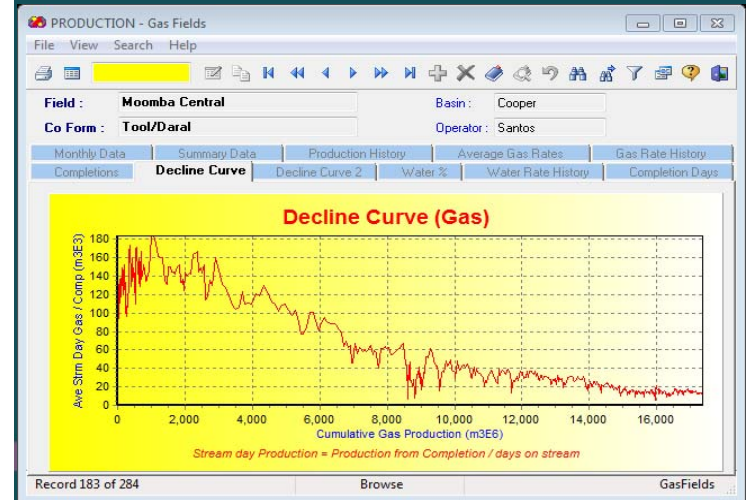
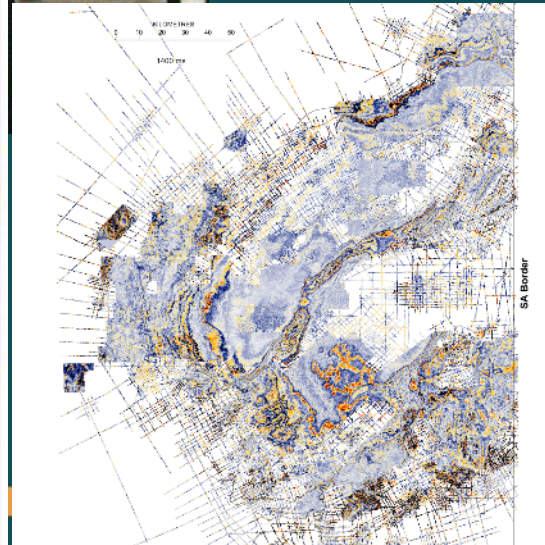
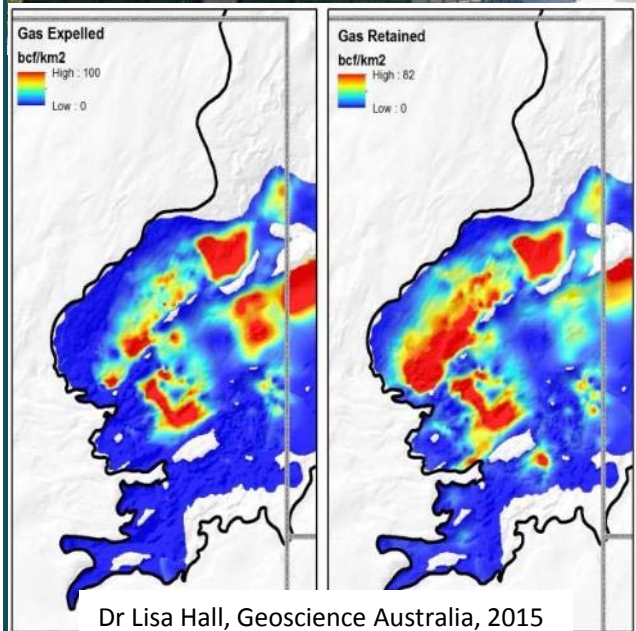
Digital well logs (field, edit tapes, cased hole), Digital mudlogs, Image logs – free web access to logs via PEPS online in future

Maps, GIS - Cooper isolith, isopach, gas wetness etc.

Cores & cuttings available - viewing & sampling (**new Core Library**)

Core & thin section photo databases via free downloads

Balanced & tied 3D volumes for open file 3D seismic surveys



South Australia's door is open.

Rated most attractive petroleum jurisdiction in Australia by Fraser Institute

Bight Basin attracting billions in exploration investment

Cooper Basin remains Australia's largest onshore oil and gas province

A framework placing local companies into a global supply chain

Australia's first roadmap for unconventional gas projects

Oil and gas roundtable with hundreds of members working to address priorities



www.petroleum.statedevelopment.sa.gov.au

