Senex Energy Limited

Corporate Presentation

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1 June 2011

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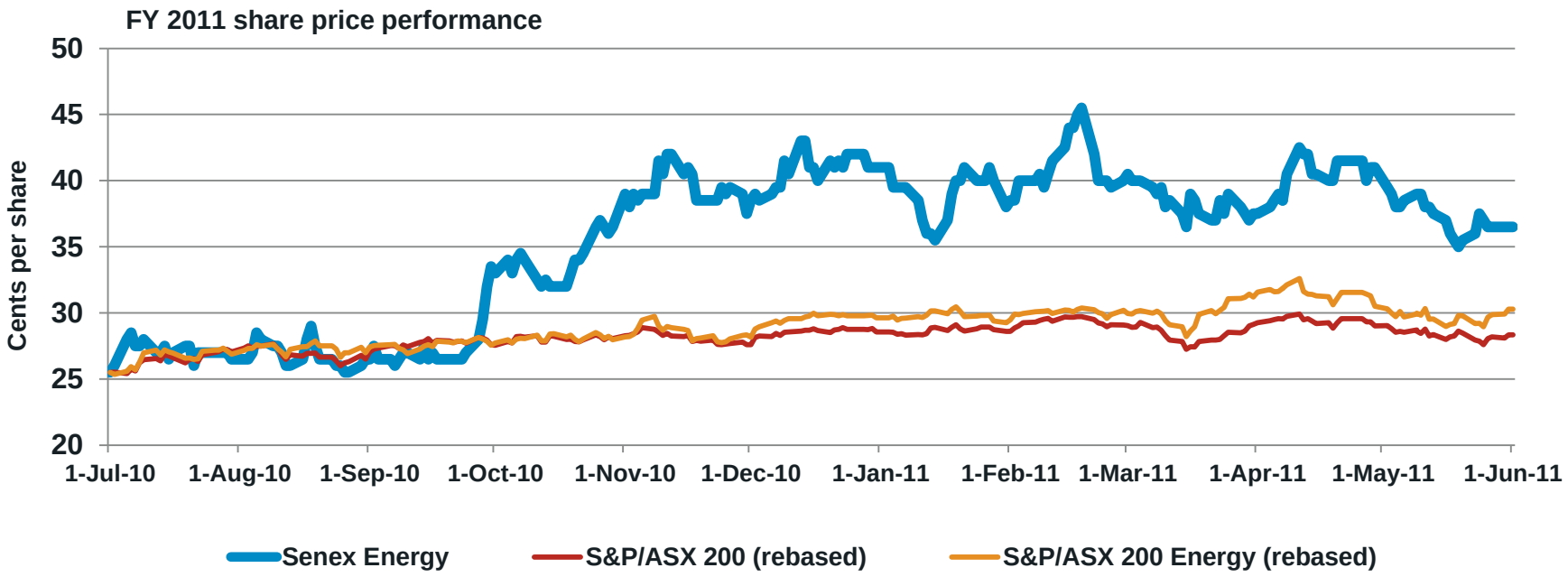
Overview of Senex Energy

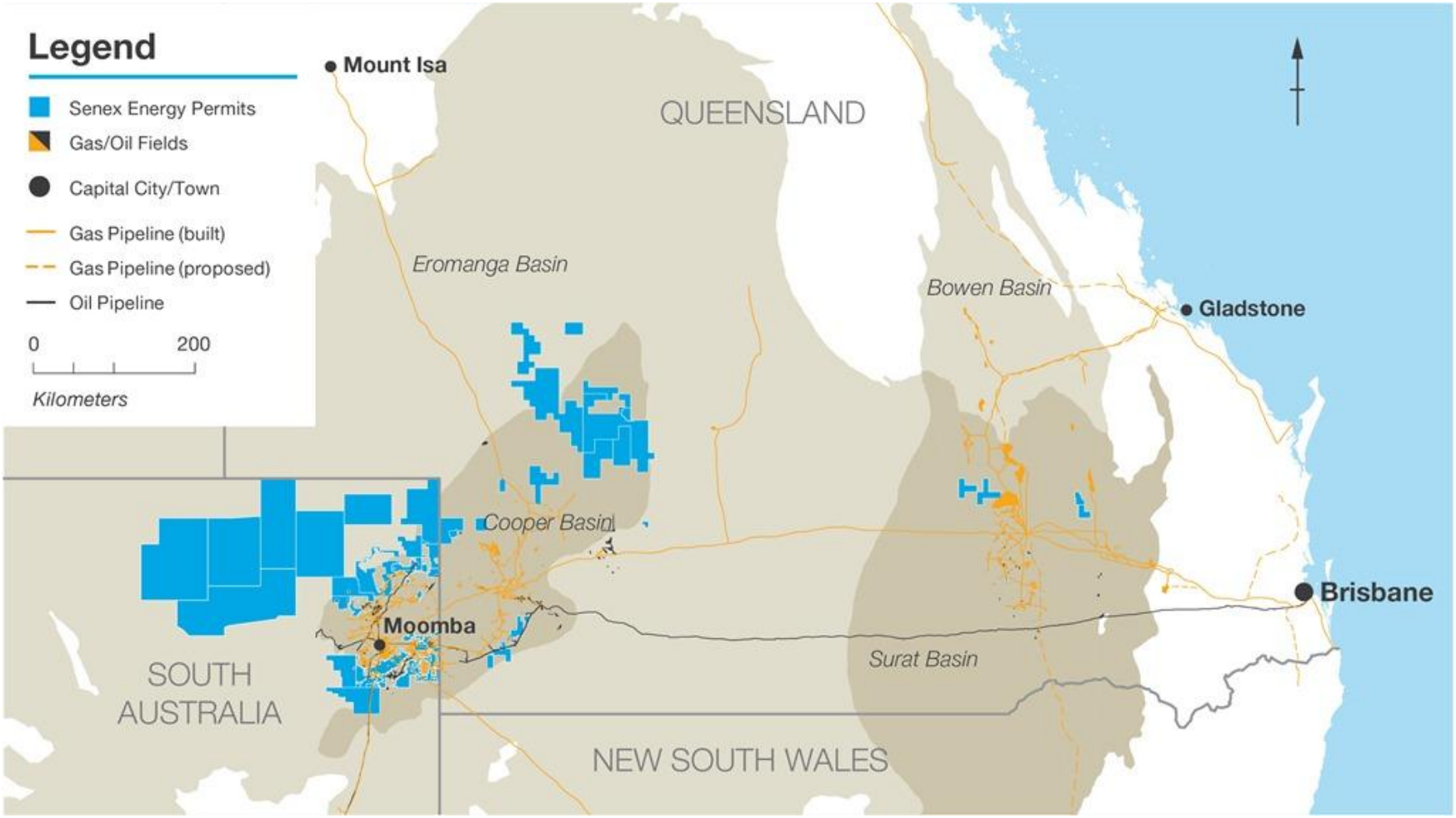
- Dual focus: oil exploration and production, and unconventional gas exploration and appraisal
- Significant independent oil producer in the Cooper Basin with large acreage position in the lucrative western flank
- Strong cash position with growing revenue and reserves base
- Stuart Petroleum acquisition adds scale, reserves, production, with major unconventional gas exploration acreage
- Aggressive integrated energy company growth strategy – oil and gas focus

FY 2011: Share price outperformance



- $26 million placement completed in November 2010 at 37 cents per share – institutional investor focus
- Off-market, all-scrip takeover offer for Stuart Petroleum announced on 21 February 2011, 100% now successfully acquired

Significant Surat & Cooper Basin acreage position



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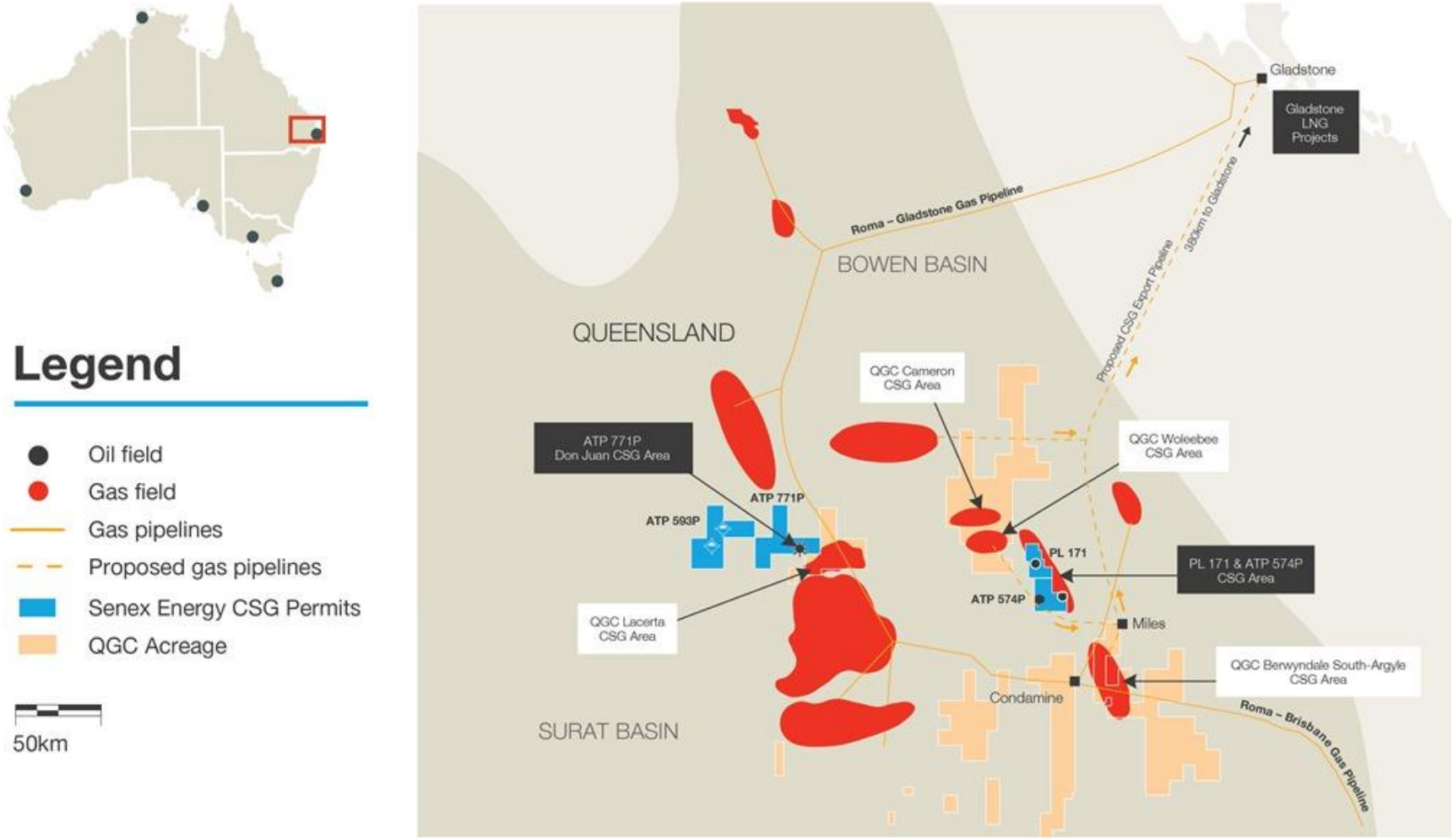
Senex strategy to monetise asset base

1. Enhance existing oil production from Cooper Basin permits (1,500 net barrels of oil per day[1] and increasing)
   - Increasing cash flow from high margin oil business
2. Focused oil exploration program in Senex's valuable Cooper Basin western flank position
   - Low risk exploration drilling (on 3D seismic) in PEL 104 and PEL 111
   - New 3D seismic program in other Senex western flank permits
3. Appraisal and development of Surat Basin coal seam gas acreage
   - Material 2P reserves additions and testing of gas deliverability
4. Conversion of Cooper Basin unconventional gas prospective resource into contingent resource
   - Demonstration of technical feasibility of Cooper Basin unconventional gas production
   - Establishment of large scale, cost competitive resource base

[1] **Normalised basis: actual production from the Growler oil field prior to flood interruption and current production from other Cooper Basin oil fields**

Surat Basin coal seam gas portfolio

Four CSG joint venture permits in the Surat Basin



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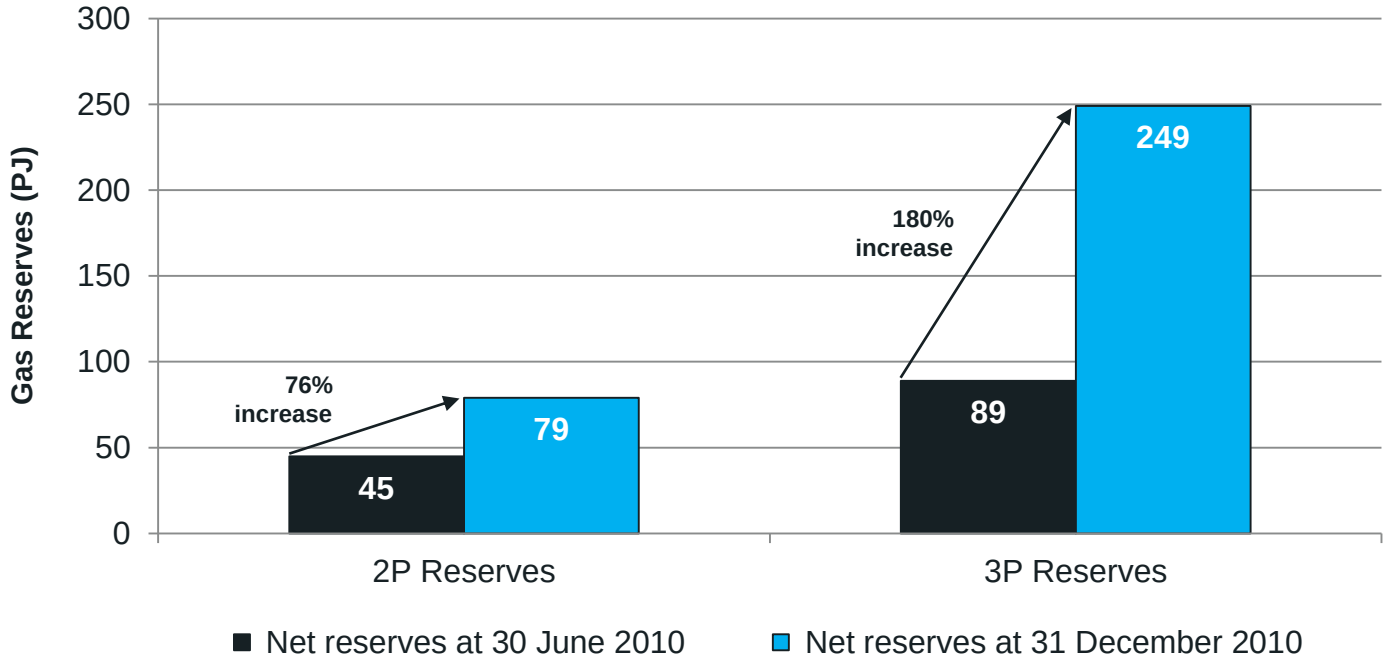
Established and successful Qld CSG projects

- ATP 574P (Senex 30%) and PL 171 (Senex 20%) with QGC:
  - Operated by QGC as part of the broader QGC asset portfolio
  - Strong overlap of technical skills between Senex and QGC in relation to permits allows for productive interaction on work programs and budgets
- ATP 593P and ATP 771P (Senex 45%) with Bow Energy:
  - Operatorship by Senex
  - Plans agreed to aggressively pursue growth in certified reserves
- Aggressive exploration and appraisal programs in place to test production and materially increase 2P and 3P reserves during 2011

Certified reserves across all CSG permits

- Senex and its joint venture partners have certified reserves across all permits following certification of gas reserves in ATP 574P and PL 171 by NSAI in January 2011



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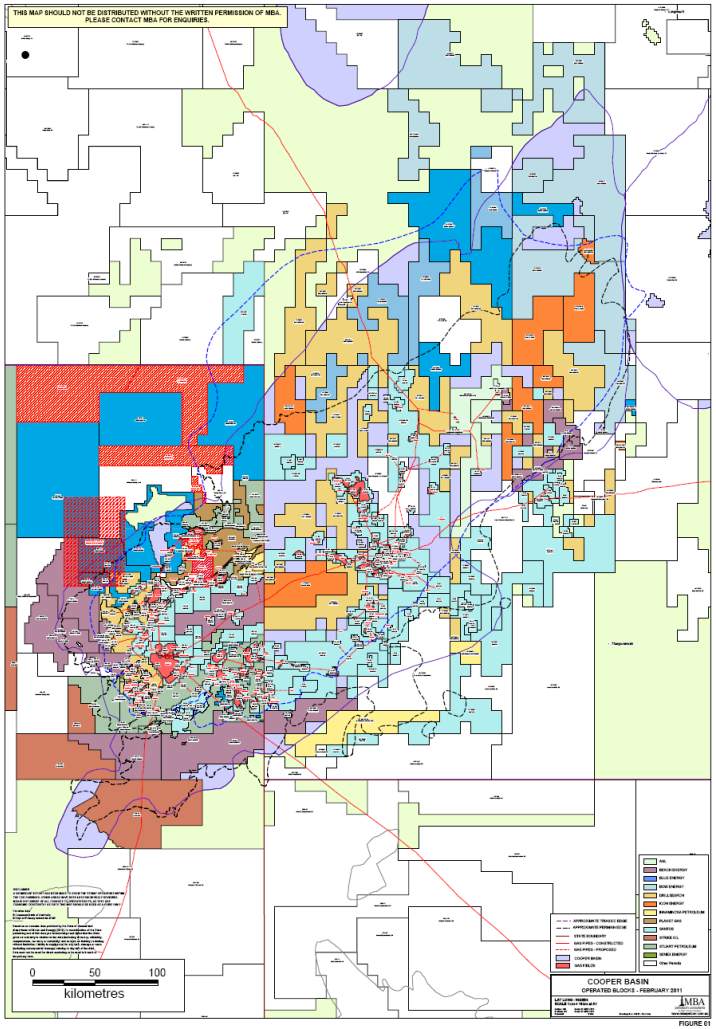
Significant CSG reserves growth in 2011

- Initial CSG reserves certified in PL 171 and ATP 574P in January 2011
  - Net proved and probable (2P) reserves of 34 PJ
  - Net proved, probable and possible (3P) reserves of 160 PJ
  - Net Gas in Place of over 600 PJ
- $71 million appraisal program ($17 million net) for CY 2011
  - 13 well campaign in PL 171 and a nine well campaign in ATP 574P, with production pilots in each permit to test gas deliverability
  - Completion of an additional 10 wells drilled as part of the 2010 work program
  - Material additional 2P reserve coverage expected following 2011 work program
  - Program delayed by Queensland floods, with discussions continuing with QGC to improve program efficiency and cost
- Don Juan CSG project (ATP 593P and ATP 771P)
  - Net 2P reserves of 45 PJ and net 3P reserves of 89 PJ
  - Two core wells to be drilled in ATP 593P to increase reserves position
  - Comprehensive appraisal program to follow positive results

Cooper Basin conventional oil portfolio

History of the SA Cooper / Eromanga Basin

- The largest onshore oil and gas province in Australia
- Long production history commencing in the 1960's
- Gas:
  - c. 190 producing fields
  - c. 820 producing wells
- Oil:
  - c. 115 producing fields
  - c. 400 producing wells



Source: Santos

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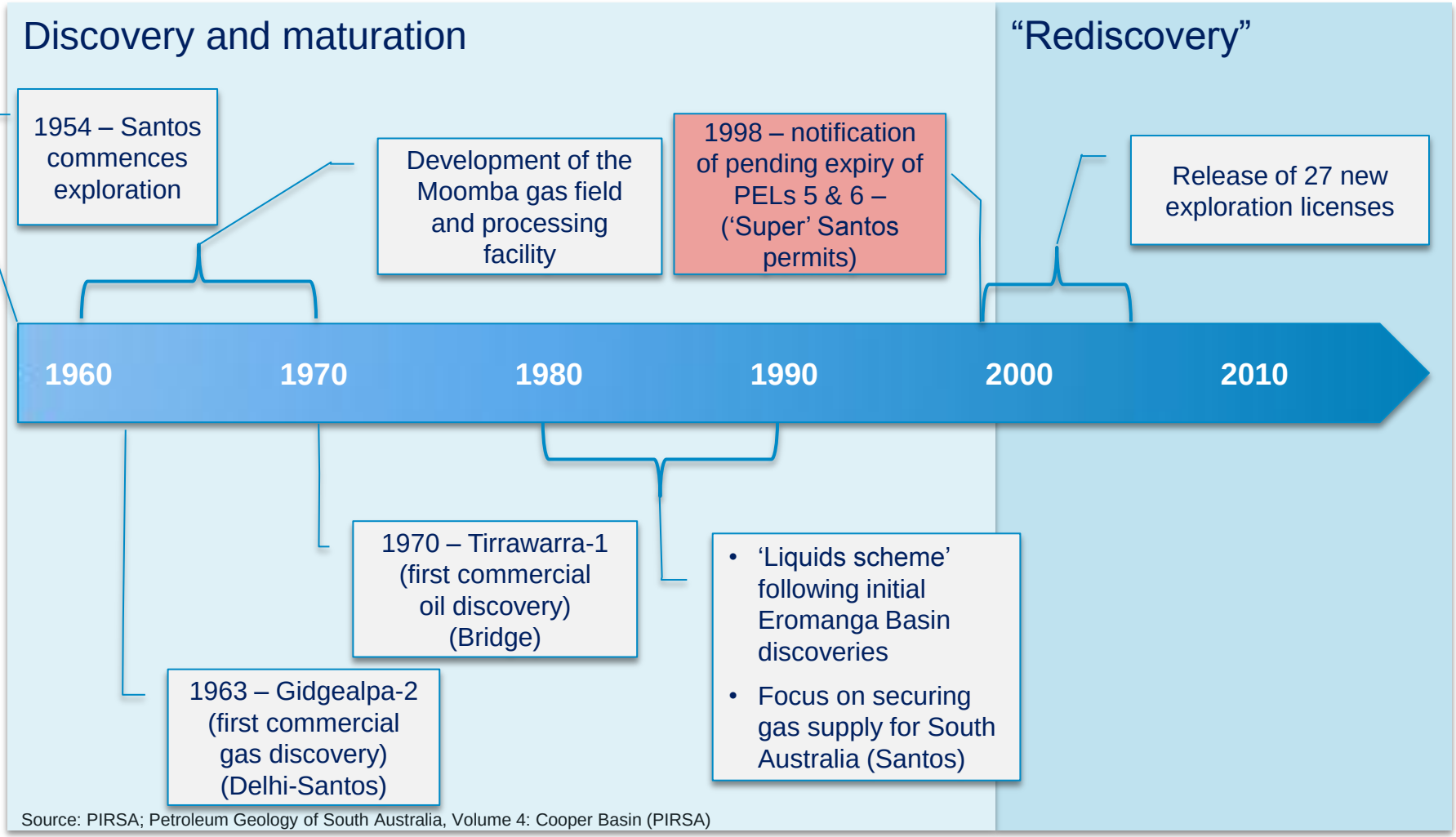
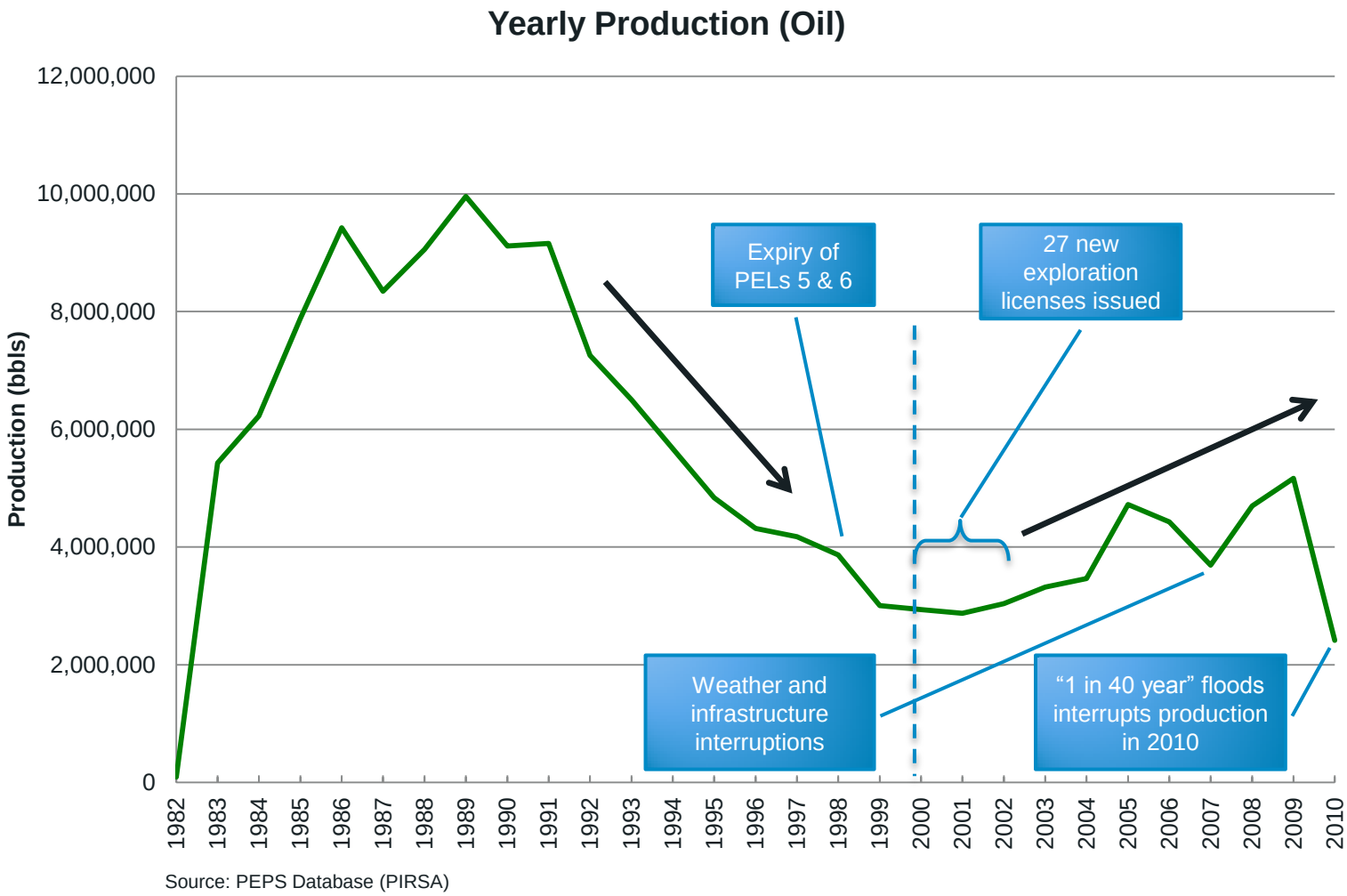
Chronology of the Cooper / Eromanga Basin



Source: PIRSA; Petroleum Geology of South Australia, Volume 4: Cooper Basin (PIRSA)

Increasing oil production with new exploration…



Source: PEPS Database (PIRSA)

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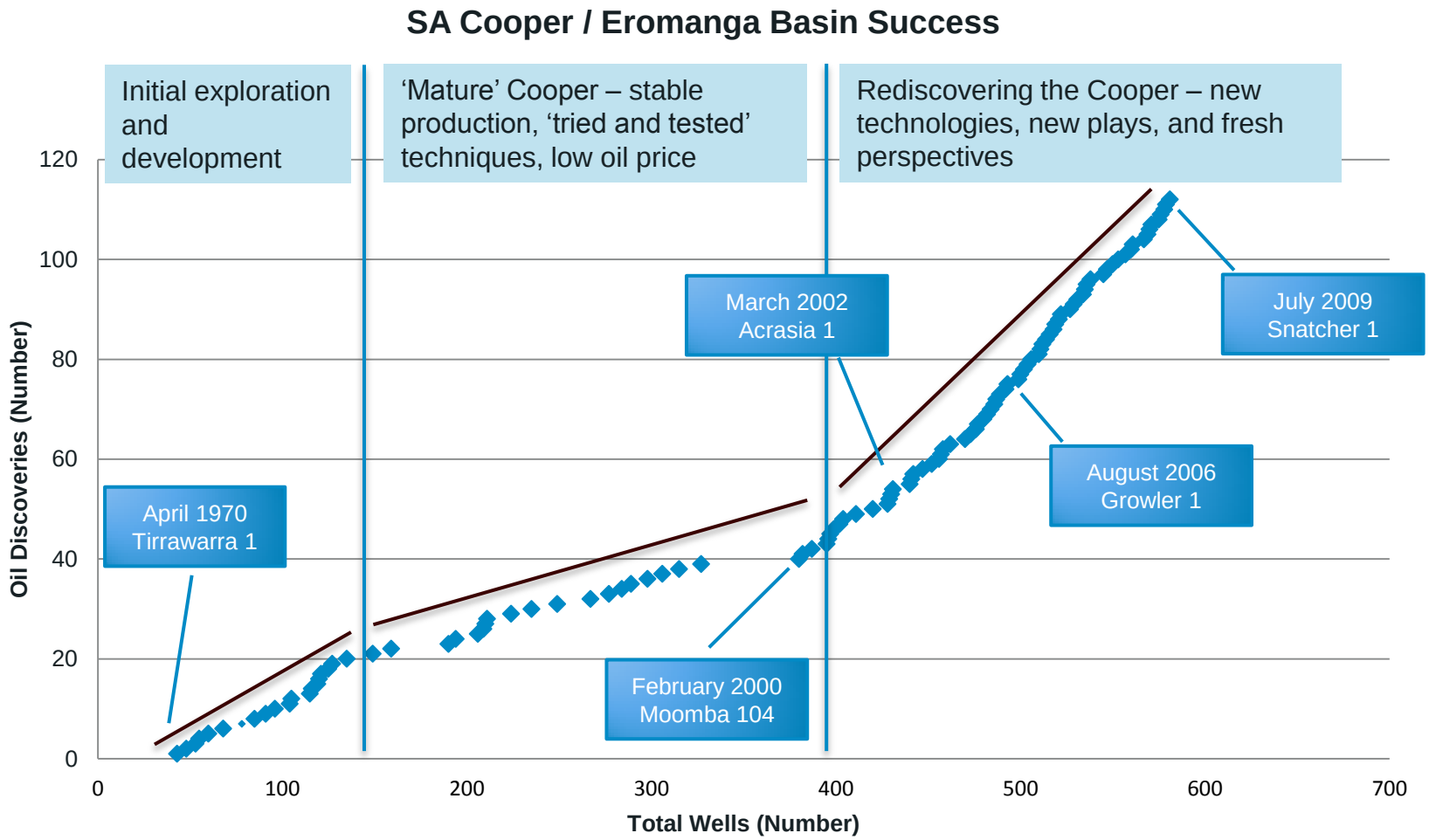
…with a major increase in oil discoveries



Source: PIRSA

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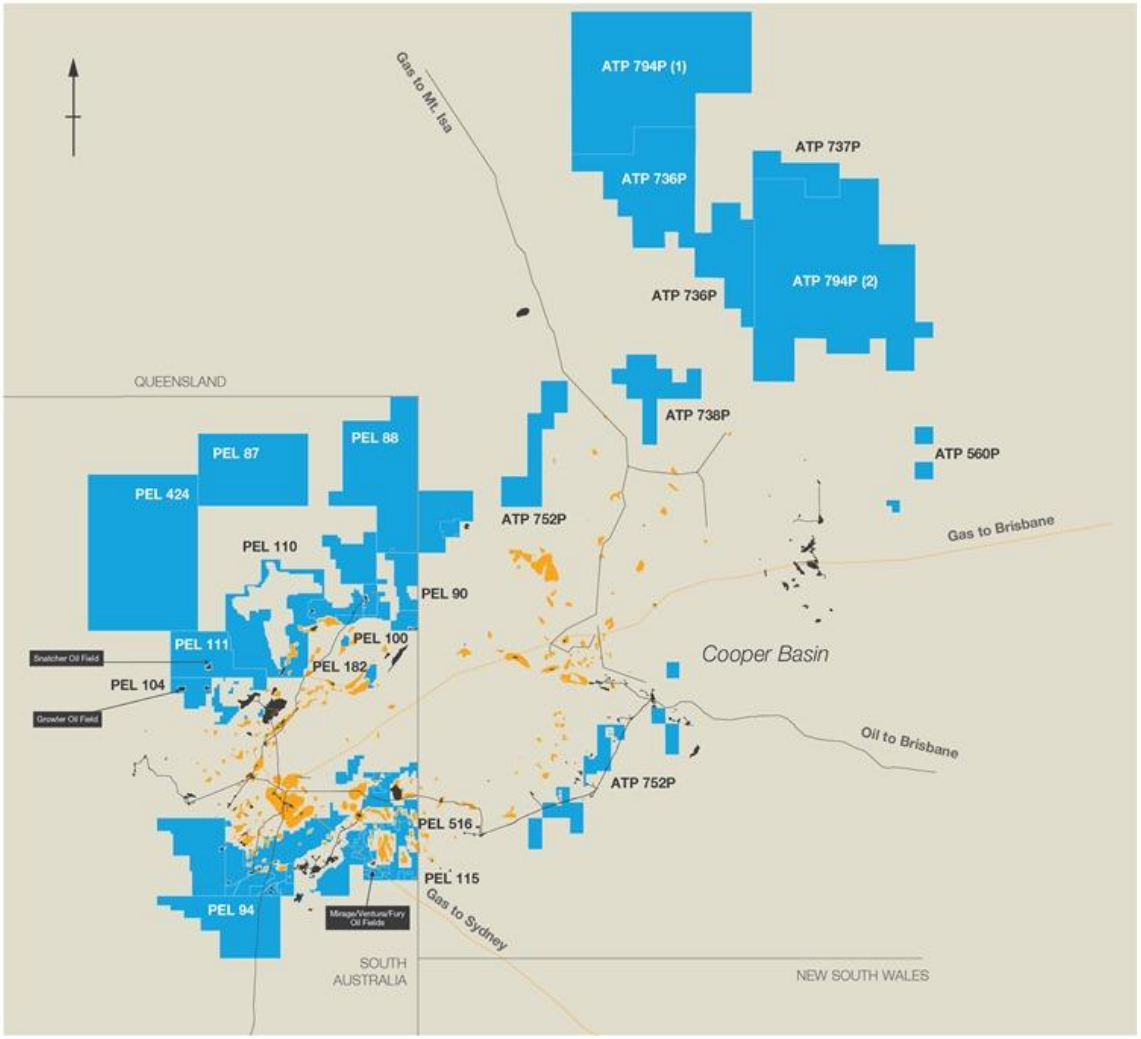
Senex has a major Cooper Basin acreage position



Legend

- Senex Energy Permits
- Gas/Oil Fields
- Capital City/Town
- Gas Pipeline (built)
- Gas Pipeline (proposed)
- Oil Pipeline

0 100

Kilometers

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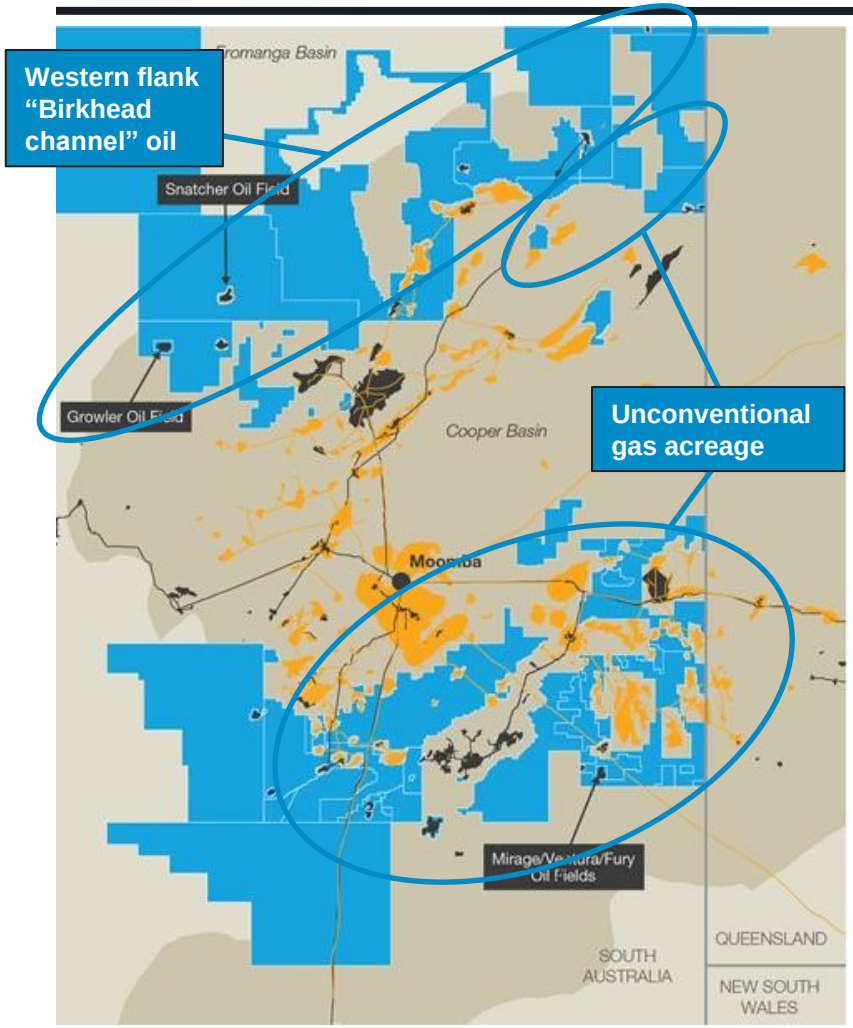
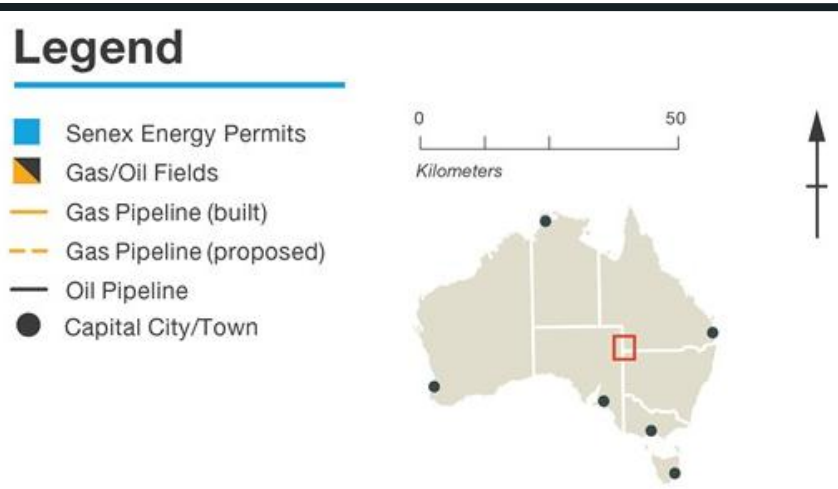
The Stuart acquisition has added significant value

- Bankable reserves to underwrite the acquisition
- Immediate production and cash flow from both mature and new fields in Acrasia, Worrior, Padulla and others
  - Opportunities to increase existing production through well work-overs
- Scale in the Cooper Basin
- Increased exposure to the western flank (PEL 90, PEL 100)
- Fresh exploration opportunities already identified on 3D seismic in the newly acquired PEL 516
  - Vintage Crop-1 currently being drilled
- Near to medium-term exploration upside in bringing new technologies and insights to more mature permit areas
- Long-term upside potential in unconventional gas acreage, including tight sands, Permian coals and shales

Senex now holds 41% of SA Cooper Basin permits





- Vast acreage position in the Cooper Basin encompassing:
  - Established conventional oil and gas
  - Rapidly growing oil regions in the north and western flanks of the Cooper Basin
  - Emerging large-scale unconventional gas plays in the southern and northern Cooper Basin

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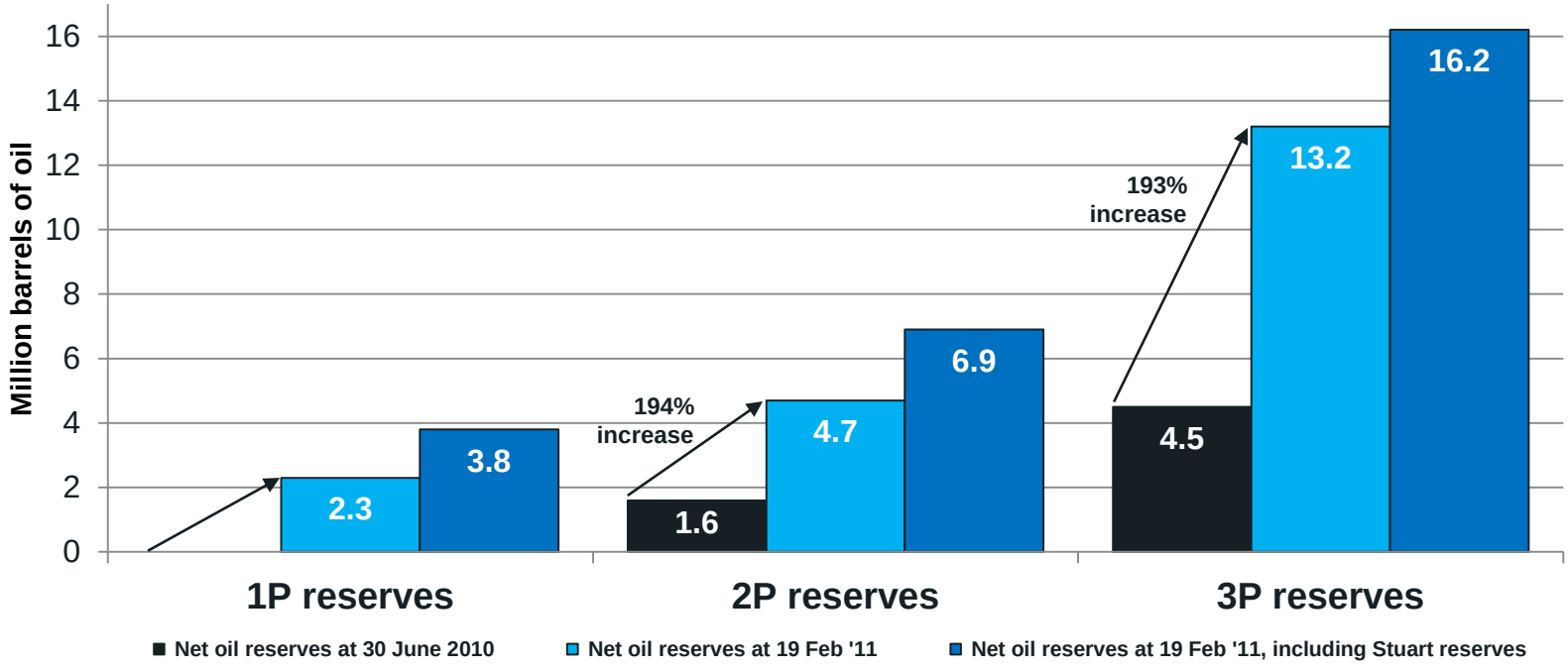
Demonstrated oil reserves growth

- Oil reserves upgraded for the Growler and Snatcher oil fields
- 25 prospects on 3D seismic yet to be drilled in PEL 104 and PEL 111
- The acquisition of Stuart increases Senex 1P reserves by 65% to 3.8 mmbbls, and Senex 2P reserves by 47% to 6.9 mmbbls



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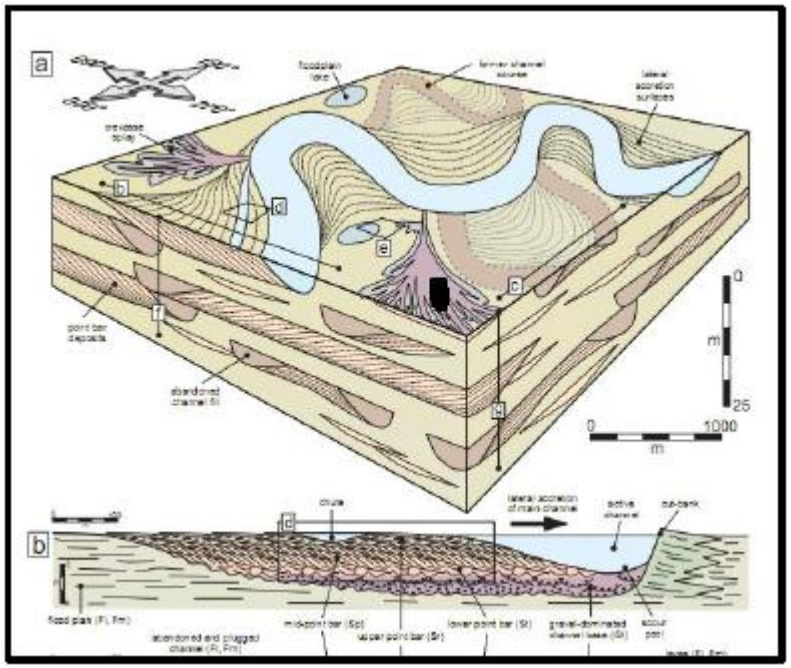
Large equity position in all SA Cooper Basin permits

- Senex operates and holds a 60% interest in producing western flank permits in joint venture with Beach Energy, including PRL 15 (Growler), PEL 111 (Snatcher) and PEL 104
  - Other western flank permits – Senex 50% to 100%
- Large equity positions in all other prospective South Australian Cooper Basin permits, including Senex operatorship
  - Acrasia oil field (PEL 90C) – Senex 75%
  - Worrior oil field (PEL 93) – Senex 70%
  - Padulla oil field (PEL 113) – Senex 100%
  - Mirage and Ventura oil fields (PPL 213 and PPL 214) – Senex 60%
  - PEL 516 – Senex 100%
- Existing reserves and production from Stuart Petroleum acquisition strengthens Cooper Basin portfolio, provides immediate cash flow and provides opportunities for growth in unconventional gas

Senex in the Cooper Basin western flank

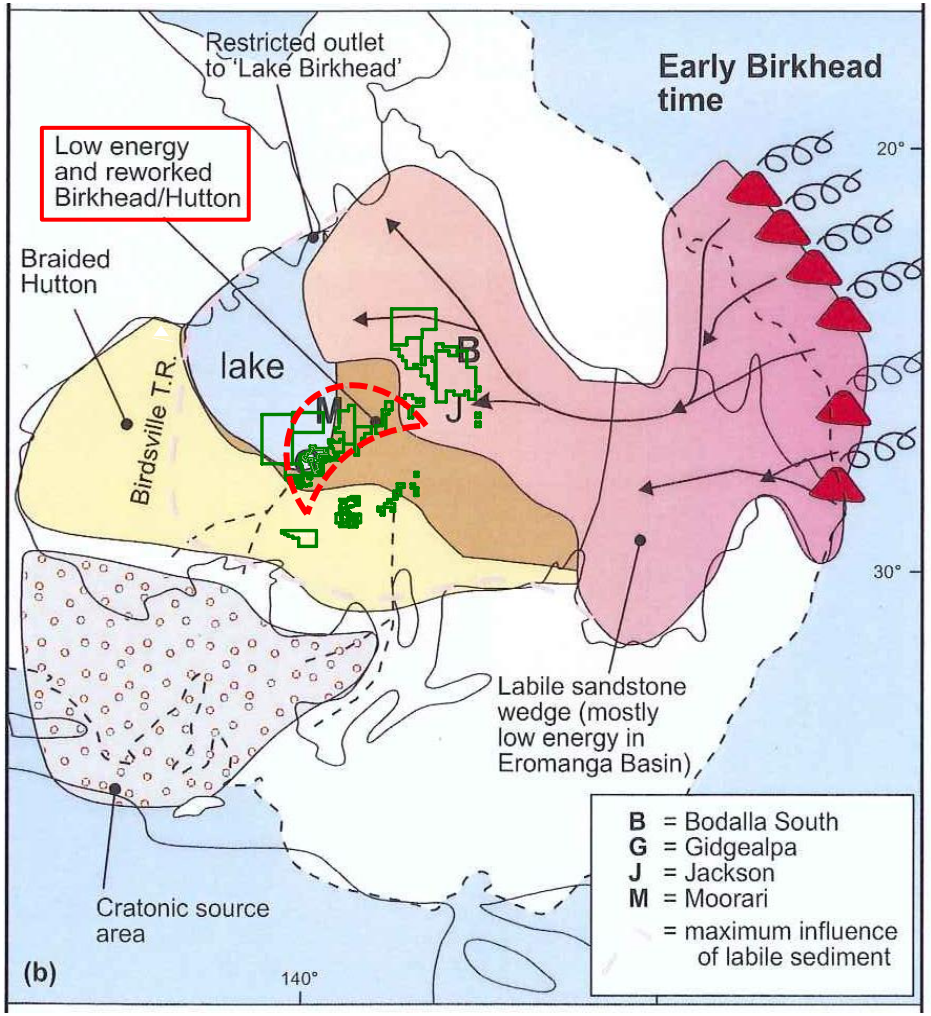
- Focus on stratigraphic plays in the Birkhead Formation
  - Stratigraphic plays largely ignored to date – significant value 'left on the table'
  - Extensive 3D seismic program already acquired, with more planned
  - Investment in interpretation and analysis has yielded success above historic averages
- Exploration upside remains untapped in adjoining permit areas held by Senex
- Budgets being finalised for an aggressive FY 2012 exploration and development program within these western flank permits, and the wider Senex portfolio
- Current exploration and development program delayed by Queensland and Cooper Creek floods – now receding

Western Flank: Birkhead Formation channel sand



Source: Beach Energy

- Deposited in meandering channels
- Do not necessarily rely on structural traps – can be extensive accumulations
- Can be imaged on seismic data



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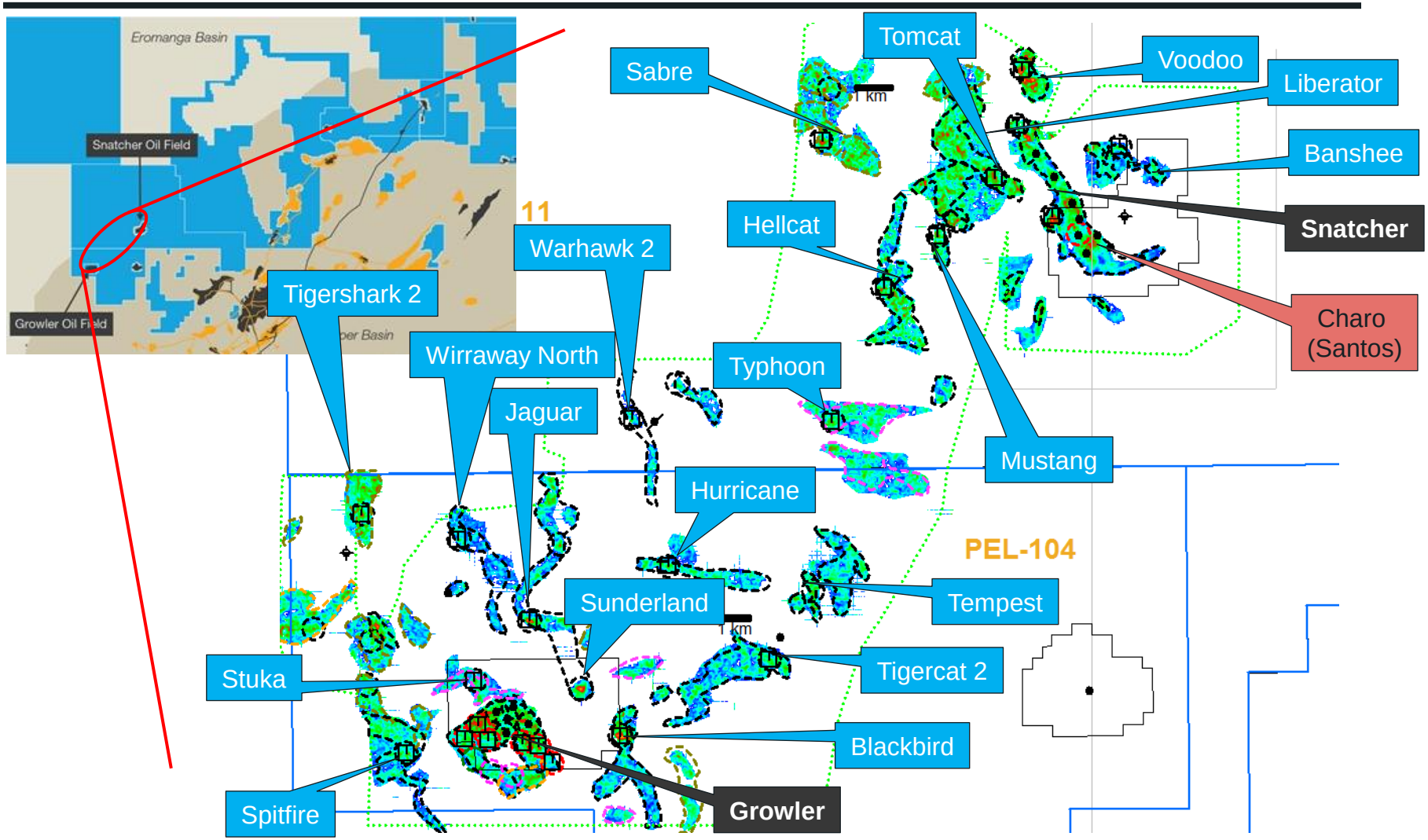
Western flank Birkhead formation – selected prospects



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Cooper Basin unconventional gas portfolio

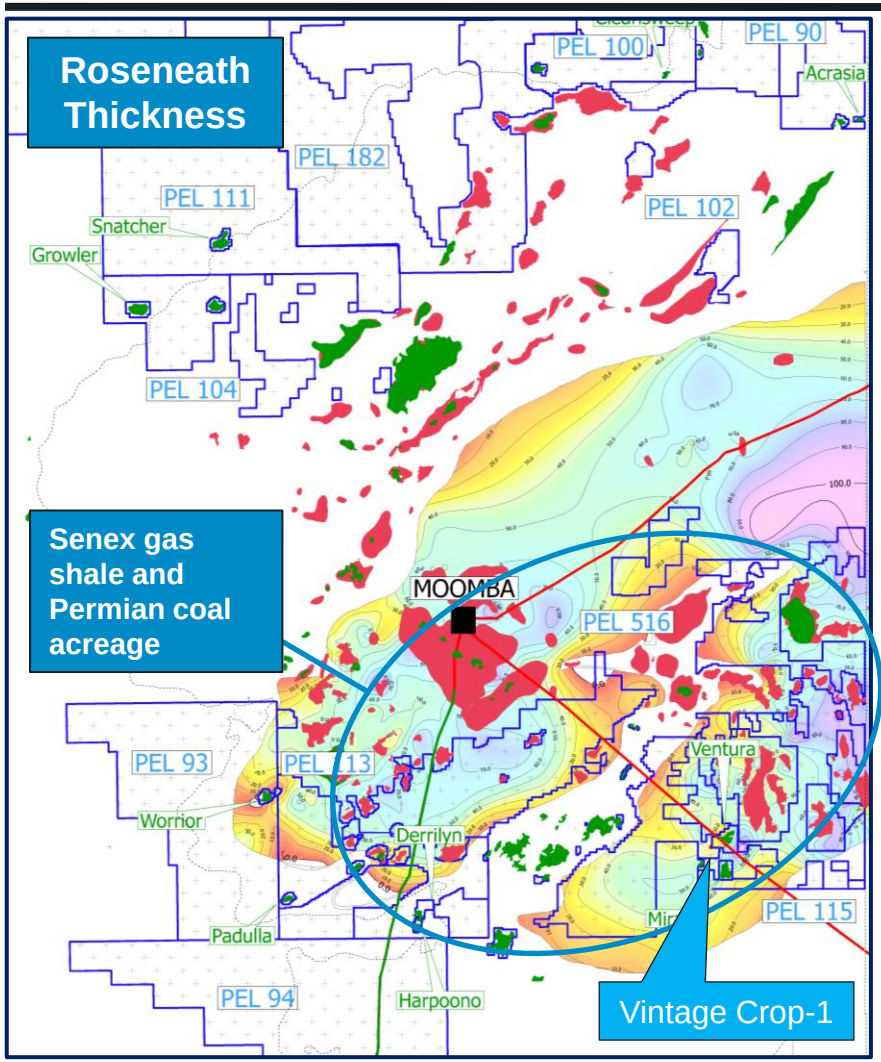
Senex Cooper Basin unconventional gas portfolio

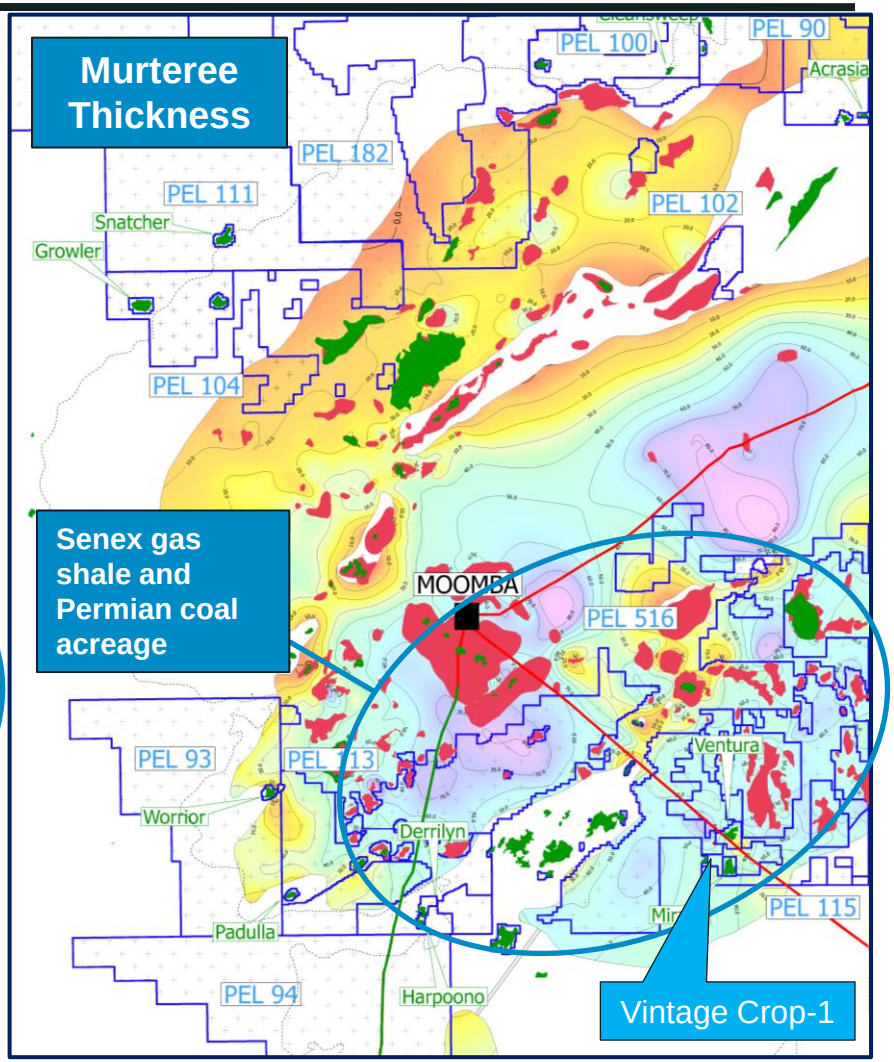
- The acquisition of Stuart Petroleum significantly boosted Senex's Cooper Basin unconventional gas potential:
  - **Shales**: Thick, mature Roseneath and Murteree shales within PEL 516 (Senex 100%) in the southern South Australian Cooper Basin
  - **Coals**: Thick, mature Toolachee coals in the north east of the South Australian Cooper Basin within PEL 90 (Senex 100%) and within PEL 516 (Senex 100%), and thick Patchawarra coals within PEL 516
  - **Tight sand / coal sequences**: Thick Toolachee sand / coal sequences within PEL 90 and PEL 516, similar to the Piceance Basin in the USA

Massive Gas-in-Place resource estimate: 87–123 Tcf

- MHA Petroleum Consultants (**MHA**) estimates **38 to 60 Tcf** Gas-in-Place in the Allunga Trough and the Mettika Embayment within PEL 516 shales
  - MHA estimates an additional **25 to 39 Tcf** Gas-in-Place in other areas of PEL 516 shales
  - PEL 516 is thermally mature for liquids-rich, low carbon dioxide natural gas, therefore if proven will be significantly lower on the cost curve
- MHA estimates in excess of **17 Tcf** Gas-in-Place (Senex share) in the Toolachee Formation coals in Senex's permits
  - Senex's northern permits contain the highest ranked volatile bituminous coals in the Cooper Basin, with methane storage capacity almost double that of coals in the southern and western sectors of the basin
- Additional **7 Tcf** Gas-in-Place estimated by MHA in Patchawarra coals in PEL 516

Significant gas shale position in PEL 516





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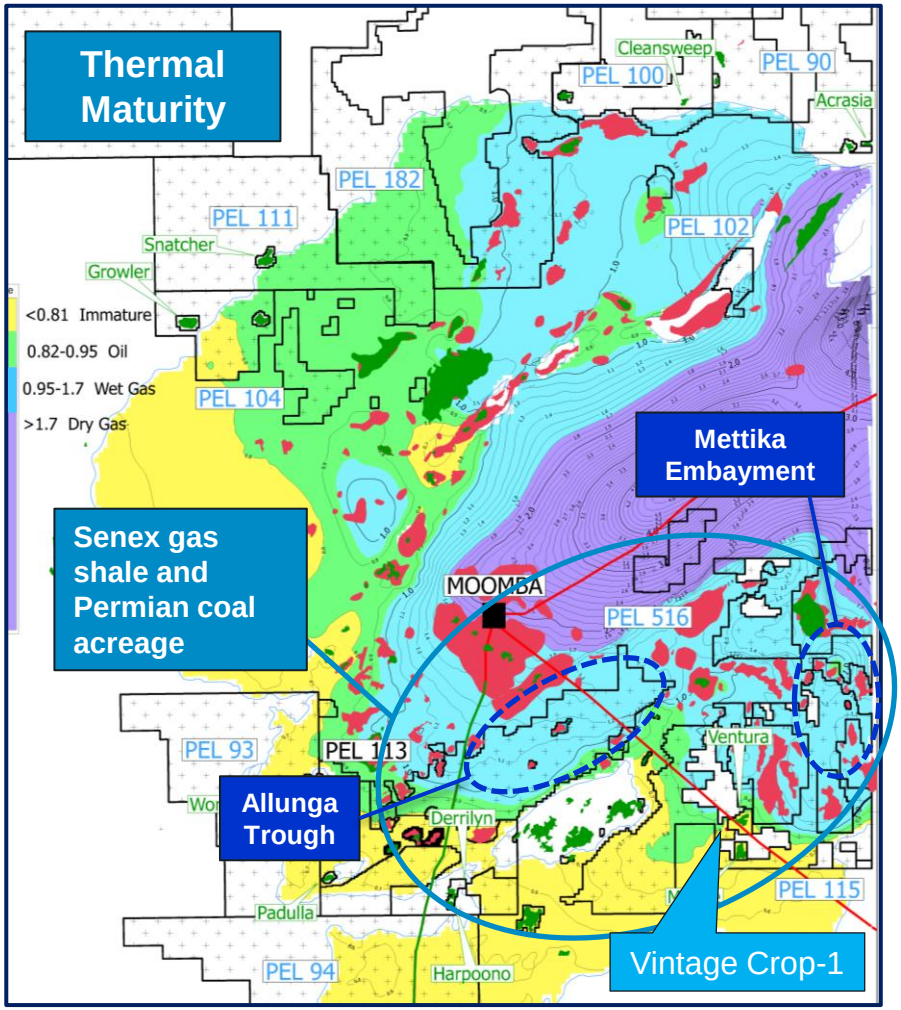
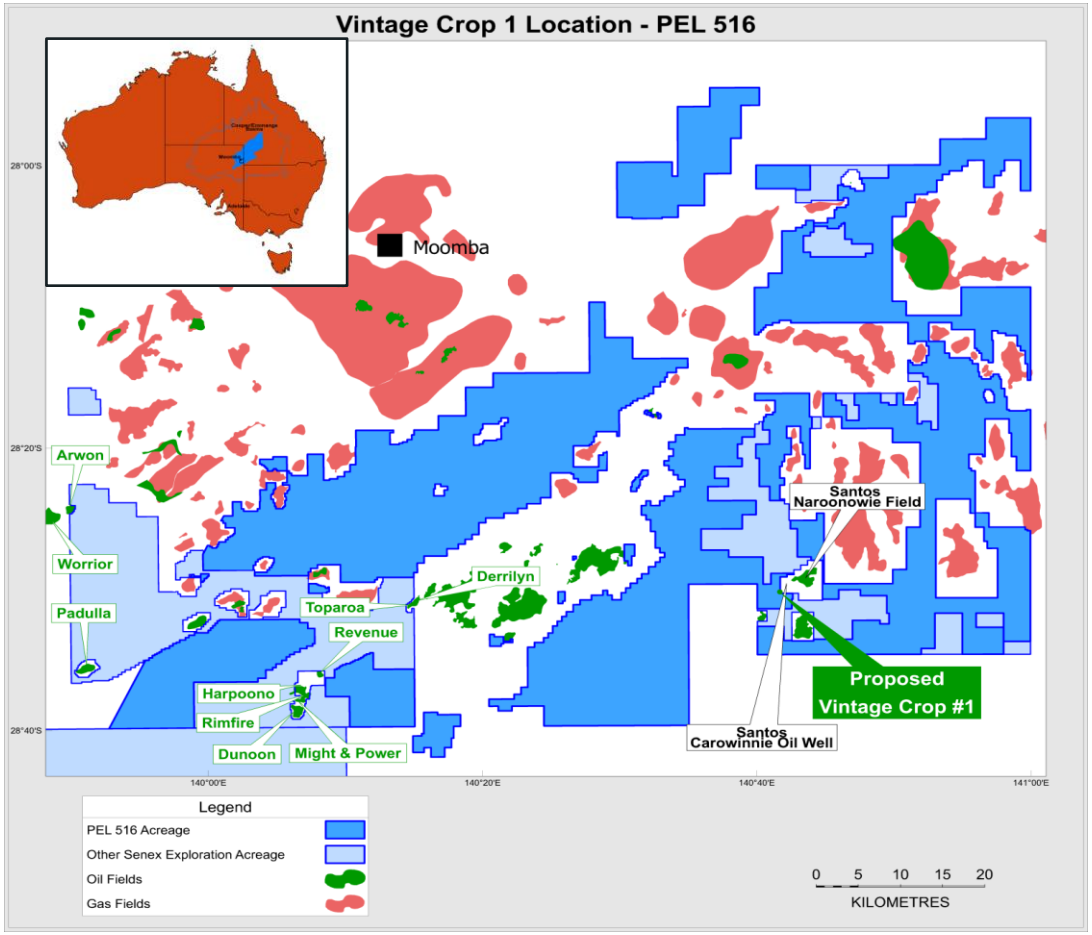
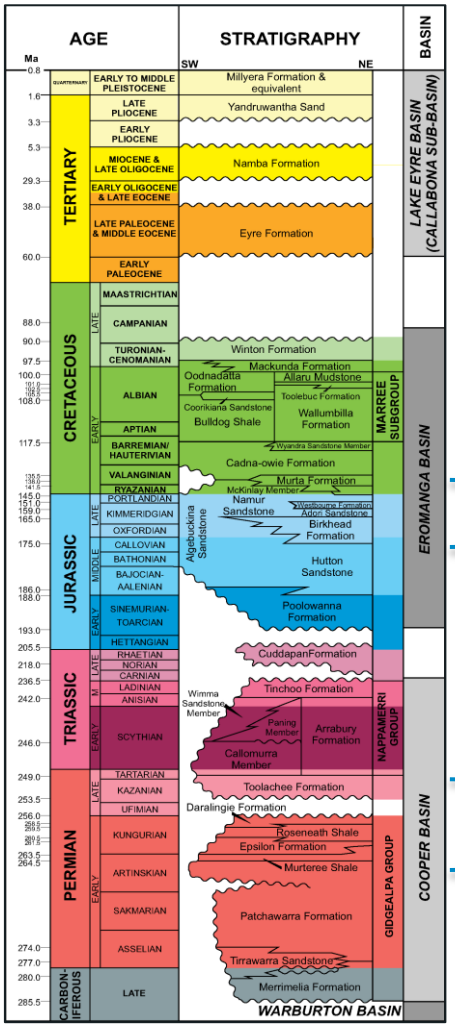
PEL 516 thermally mature for liquids-rich natural gas



- PEL 516 contains the Allunga Trough and Mettika Embayment areas within the “wet gas” window
  - Depth of ~2,400 to ~2,600 metres
- Vintage Crop-1 exploration well in PEL 516 is currently being drilled
  - Jurrasic oil is primary target with producing fields nearby, with a secondary objective of evaluation of coals and shales
  - 45 meters of core to be cut in Toolachee Formation coals sequences and Roseneath and Murteree shales
  - Greater than 200 meters total thickness across coals and shales

Vintage Crop-1 exploration well in PEL 516





Oil targets ~1,900m

Coal and shale targets ~2,100m

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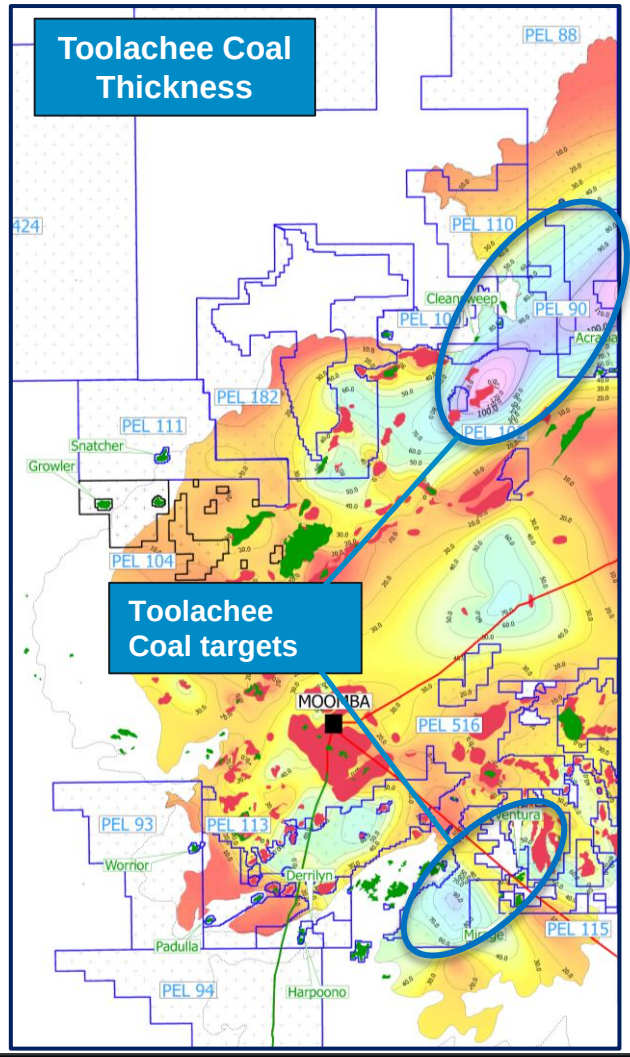
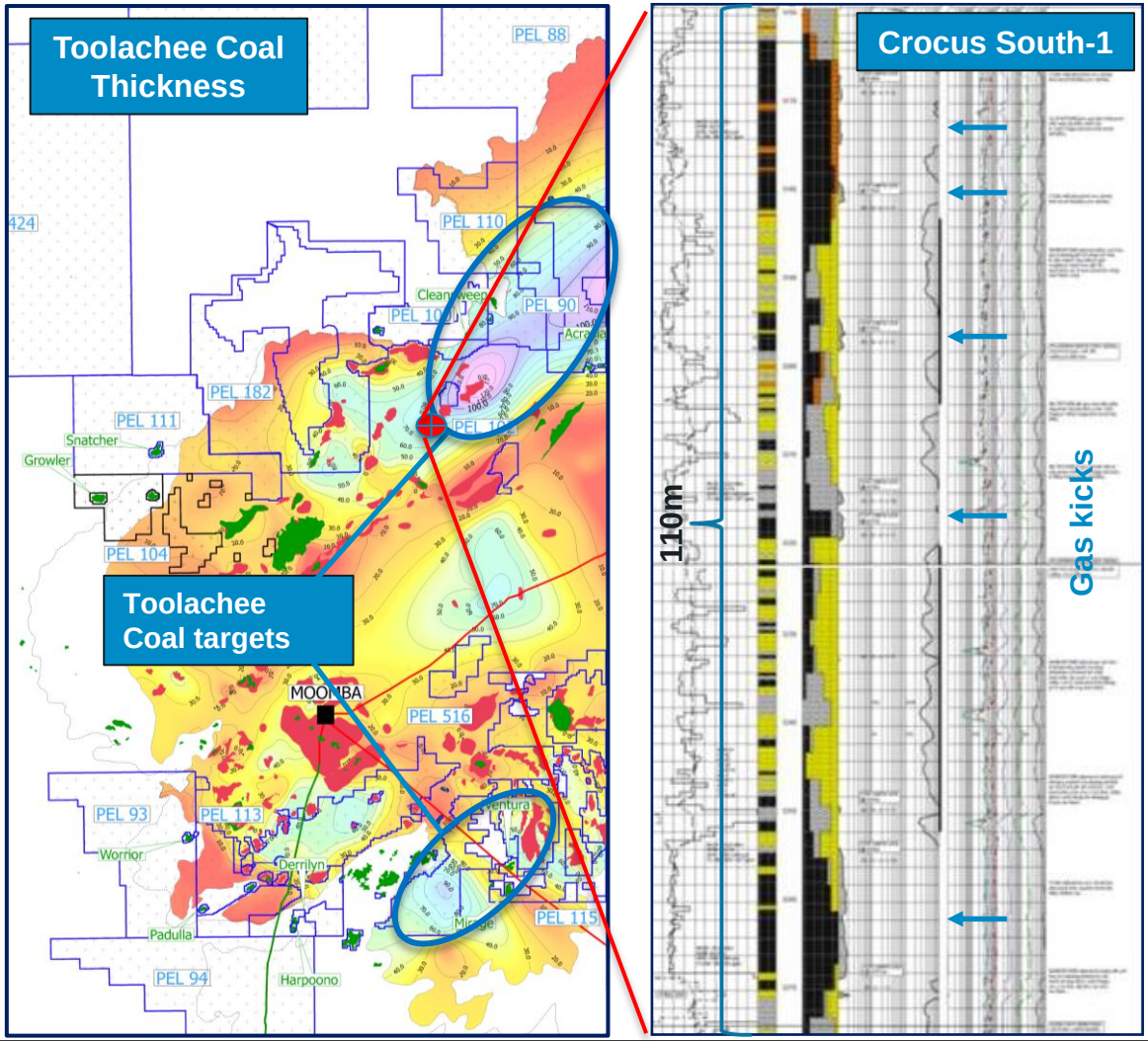
Significant CBM potential in Toolachee coals



- MHA estimates in excess of 17 Tcf Gas-in-Place (Senex share) in the Toolachee Formation coals in Senex's permits
  - Senex's northern permits contain the highest ranked volatile bituminous coals in the Cooper Basin
  - Methane storage capacity almost double that of coals in the southern and western sectors of the basin
  - Coals are at a depth of ~2,400 to ~2,900 metres
- Additional 7 Tcf Gas-in-Place estimated by MHA in Patchawarra coals in PEL 516

Toolachee CBM-tight gas sand sequences



- Sequences ~110 meters thick
- Thick coal seams up to 8 metres, net total coal of over 23 metres
- Thin clay beds at top of formation, mostly sandstone interbedded with coal in middle and lower sections
- Gas kicks peaking at near 2,000 units (40%) associated with coal seams
- US Piceance Basin analogue

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Definitions

1P: Proved Reserves. **2P**: Proved and Probable Reserves. **3P**: Proved, Probable and Possible Reserves. **mmbbl**: millions of barrels of oil. **mmboe**: millions of barrels of oil equivalent.

Reserves

Unless otherwise indicated, the statements contained in this presentation about Senex's reserves estimates have been prepared by Dr Steven Scott BSc (Hons), PhD, who is General Manager – Exploration, a full time employee of Senex, in accordance with the definitions and guidelines in the 2007 Petroleum Resources Management System approved by the Society of Petroleum Engineers (**SPE PRMS**). Dr Scott consents to the inclusion of the reserves estimates in the form and context in which they appear. Senex's reserves are consistent with the SPE PRMS.