

Cooper Basin gas plays update

Chad Wilson, General Manager Upstream Cooper Operations

November 30th, 2017

Santos



The Cooper Basin is one of Santos' five core, long life gas assets

The Cooper Basin is Santos' original asset and still has a significant role in the company's future

| Delivering Australia's lowest cost onshore operations | | Conventional assets | | |
|---|-------------|---------------------|---------------------------|---------------|
| Cooper Basin | GLNG | PNG | Northern Australia | WA Gas |
| | | | | |

| | |
|---------------------|---|
| Production: | 14-15 mmboe/yr (~25% of STO production) |
| 2P Reserves: | ~150 mmboe |
| Products: | Sales gas, ethane, LPG, condensate, crude |
| Customers: | Domestic gas & ethane, LNG and oil for export |
| Offices: | Adelaide (HQ) |

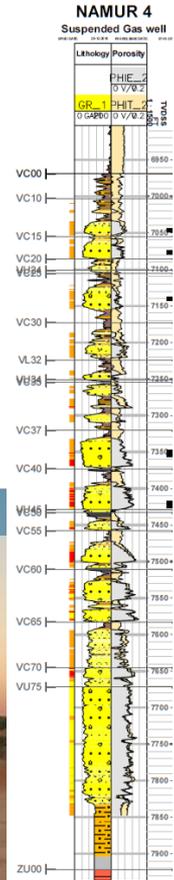
Cooper Basin Continues to Deliver After 50 Years of Development

Appraisal drilling in the Namur Field proved a significant gas resource in previously unproven Patchawarra sands

- + Namur field discovered 1976, originally produced from Namur sandstone. Ceased production in 1984.
- + Re-mapping of 3D seismic and review of historic DST's combined with new thinking/technology high-graded the field potential
- + Namur 4 Appraisal well drilled & stimulated in the Patchawarra, proving deliverability of **> 10 MMscf/d** @ ~500psi drawdown
- + Additional hydrocarbon reservoirs have been identified within the field; Mackunda Oil, Coorikiana Gas & Murta Gas
- + Appraisal of the Coorikiana has commenced and commercial flow rates have been achieved.

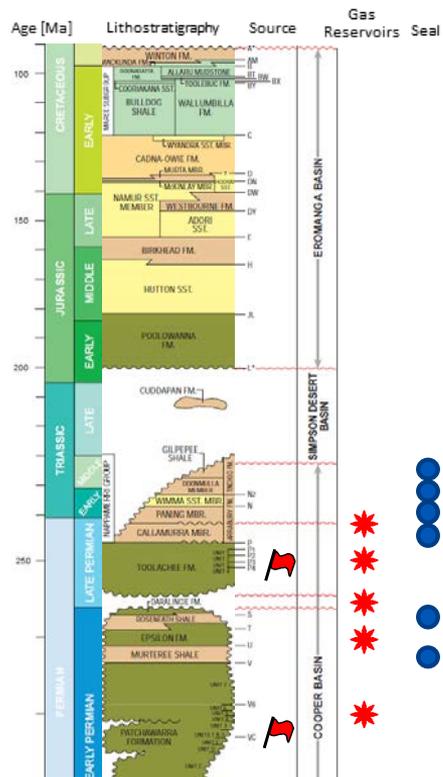


Namur 4 fracture stimulation flowback @ 10.1MMscf/d

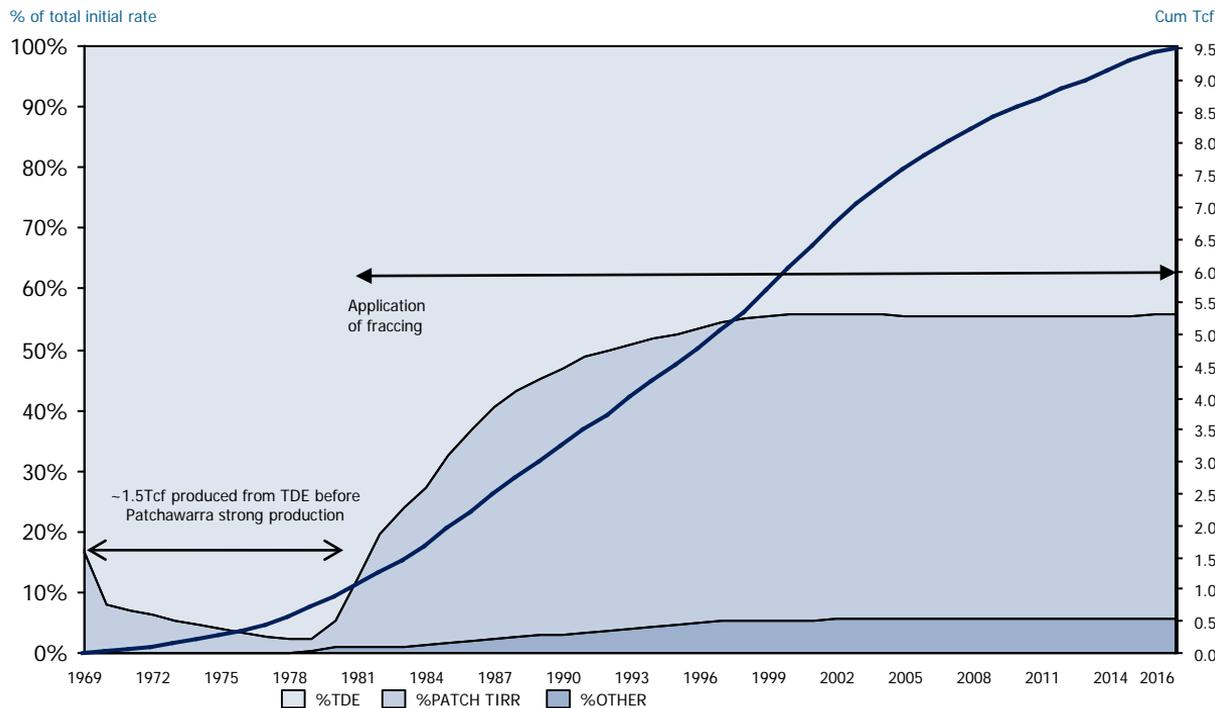


Infield Growth - New technology adds new plays

The Cooper Basin has historically shown that application of new technology allows new plays and reservoirs to be accessed. For example, the application of fracking in the early 1980's unlocked production from the Patchawarra reservoir.

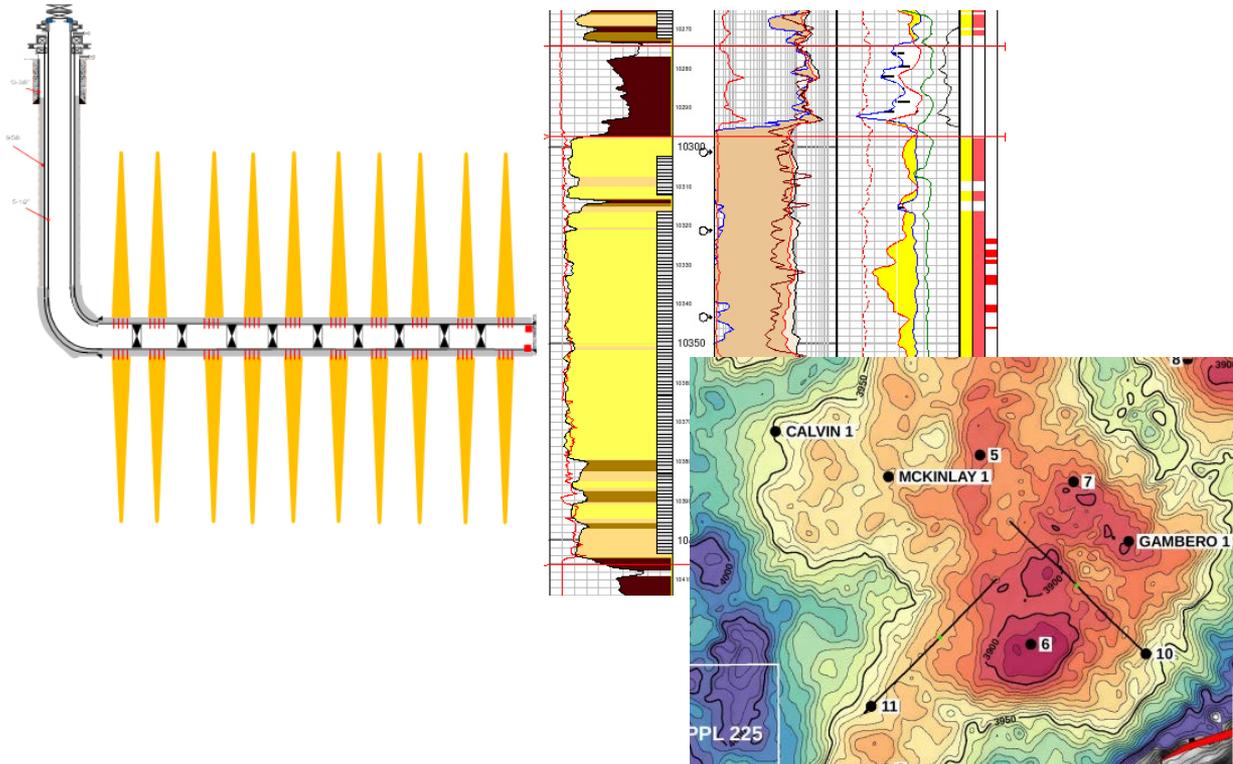


Permian Gas Production From TDE and Patchawarra Reservoirs Over Time



Step change through horizontals

Developing greater volumes at lower unit cost: leveraging learnings from overseas to access tight or compartmentalised reservoirs

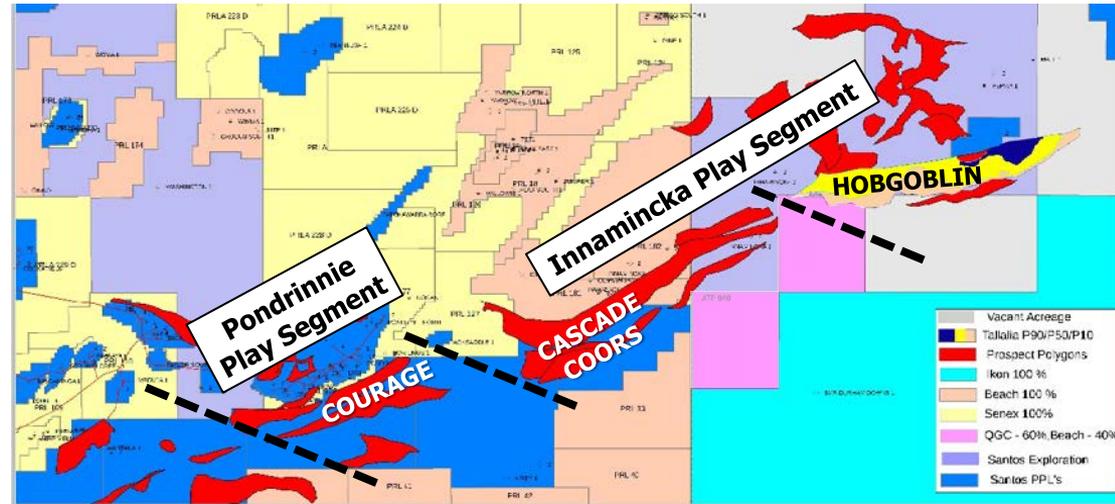
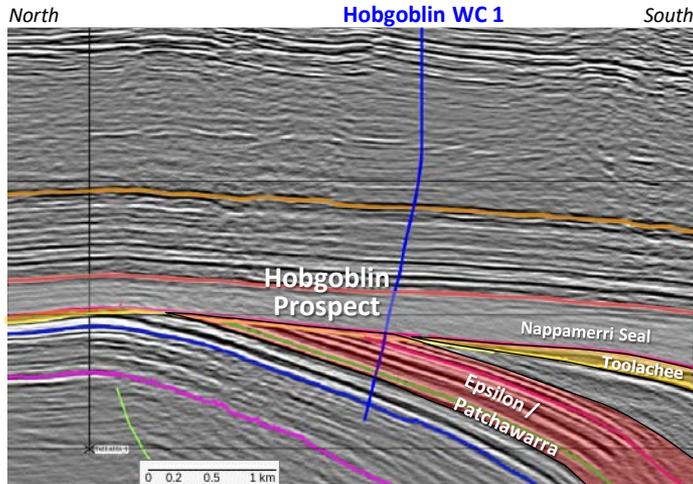


- + Material success with horizontals in Jurassic oil reservoirs
- + Big prize in Permian oil and gas formations
- + Upcoming pilots in Tirrawarra and Balcaminga fields

Resurgent exploration effort ...

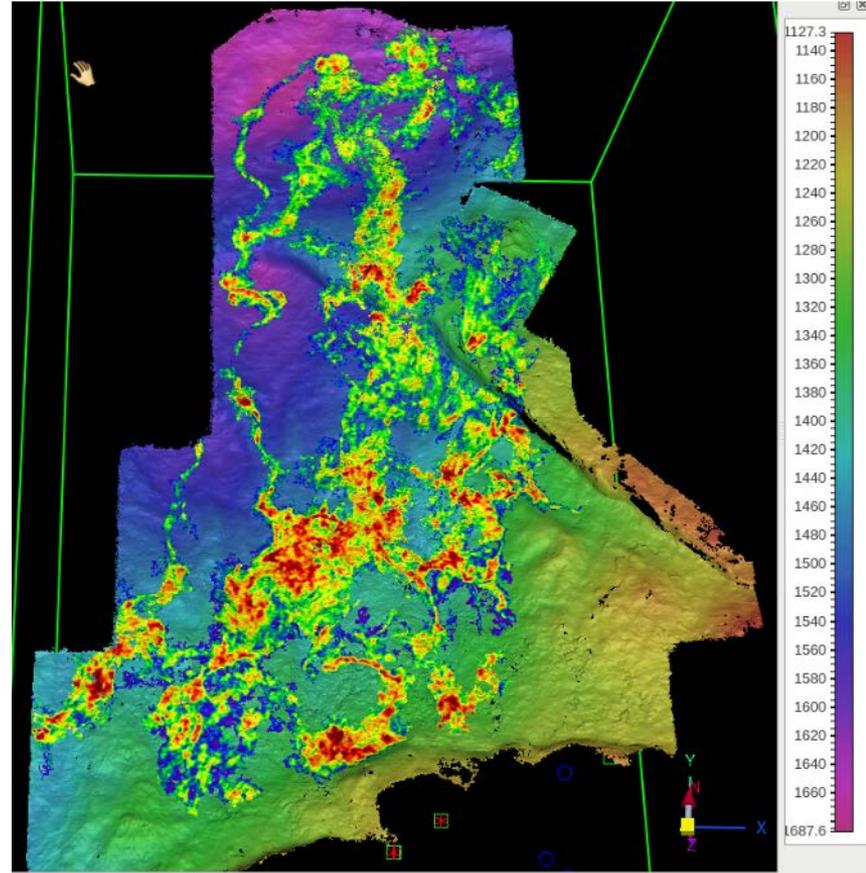
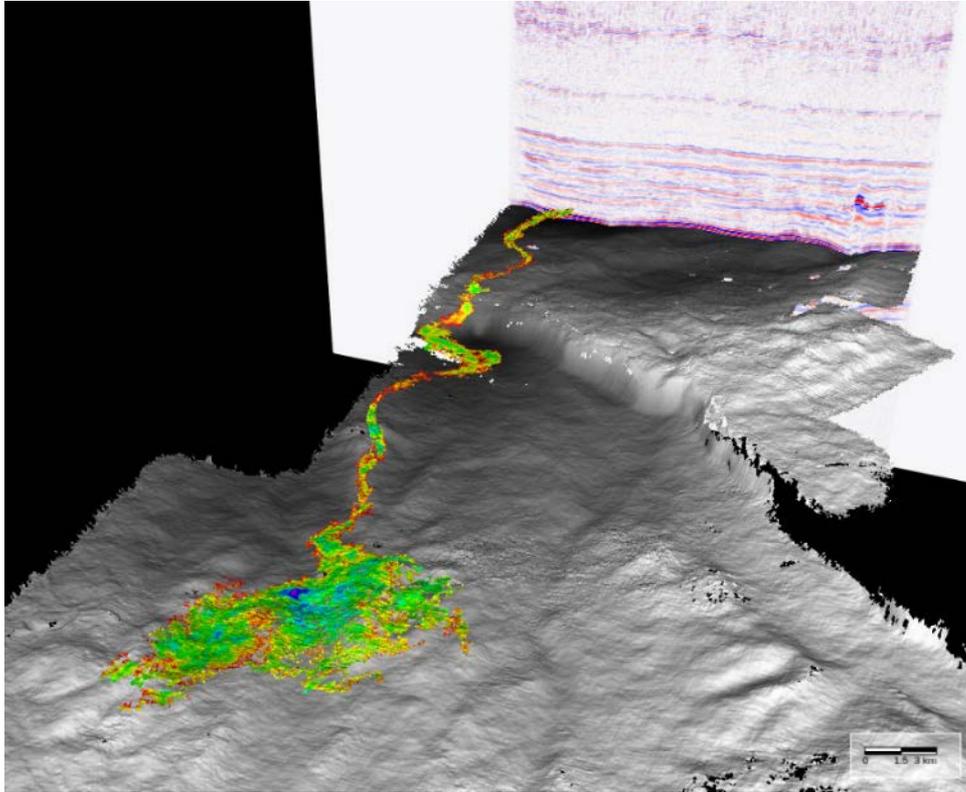
... Targeting wildcats within underexplored play segments to arrest basin creaming

- + Complexity of fluvial systems = complex basin creaming curve = exploration opportunities in 'mature' phase
- + Emerging high impact gas wildcat prospect inventory targeting material play segments
- + Leverage deep basin knowledge and drill-complete-connect cost out



Exploration: have we really creamed the basin?

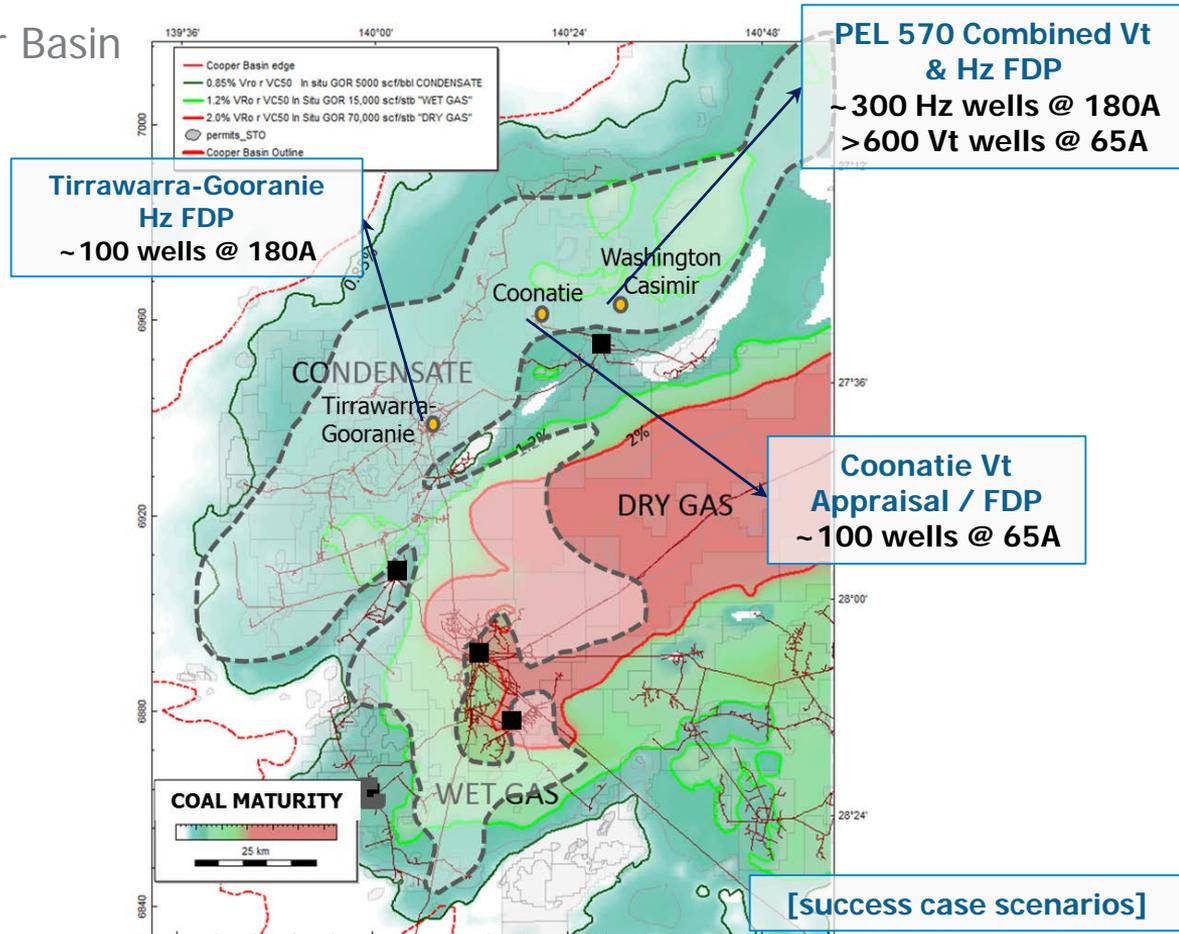
Using 3D and advanced seismic to find new stratigraphic accumulations



Cooper deep coal play update

Success would redefine the Cooper Basin

- + The Deep Coal Play refers to gas & gas liquids retained in coals >2,500m
- + Unlike shallow CBM coals, deep Cooper Basin coals contain no mobile water
- + Fracture stimulation of the coals is required to produce free gas stored in matrix and fracture porosity
- + Two sub-plays are developed (1) liquid rich and (2) dry gas



Thank You / Questions?

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