

QUPEX

8 October 2019

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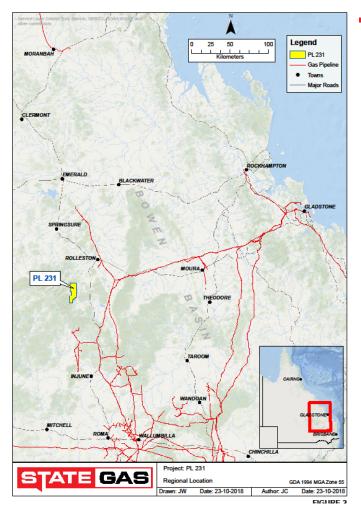
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PL 231

- Petroleum Lease, 30 years to 14/12/2035
- ~50 km south west of Rolleston over the Reid's Dome anticline
- 181 km² covering a classic north-south dome structure
- ~ 50 km from Queensland Gas Pipeline network
- State Gas holds 100%
- Gas first discovered in 1955
- PSL held for route to market







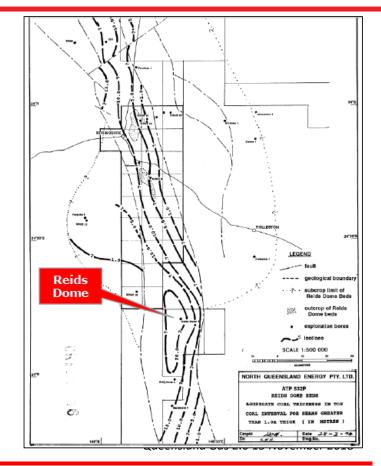
PL 231 Highlights

PROVEN GAS FLOWS	 17 wells drilled 1955 – 2018. Gas flows from sandstone reservoirs in the Cattle Creek Formation and Reid's Dome Beds
NEW PROVINCE - LARGE CSG OPPORTUNITY	 Permian Reid's Dome coal measures are extensive throughout the entire PL-231 with ~60m of net coal between 400m and 1200m. They have never been evaluated for coal seam gas (CSG).
CSG CONFIRMED IN 2018 DRILLING	 Nyanda-4 the first CSG well drilled in Reid's Dome / PL231 Nyanda-4 first modern suite of core and logs over Reid's Dome Beds
CONVENTIONAL/ TIGHT GAS	 Cattle Creek Formation; 3-way dip closed structural traps, over-pressured Reid's Dome Beds: ~1500m thick section with multiple prospective sandstone reservoirs in anticlinal setting. Also over-pressured.

PL 231 Reid's Dome Beds CSG Target



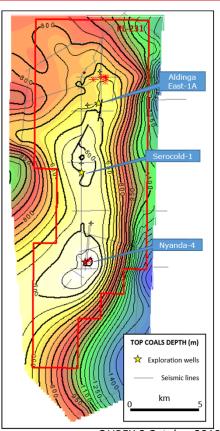
- 1994 North Queensland Energy study:
 - PL 231 coals relatively thick, high quality, low ash
 - 61m net coal above 1200m in Reid's Dome-1
- State Gas prelim assessment (conservatively based on 13m net coal and 8.5m m3/ton) suggests potential for significant gas reserves from CSG
- Interbedded sands with conventional gas provide further potential



PL 231 Anticlinal Structural Setting



- Mapping indicates strike of NNE SSW with trans-tensional offset in the central region
- Sericold Anticline is centred on the permit.
- Several faults are evident at surface but over-pressured gas in conventional reservoirs indicate they are sealing.
- Area of 80 160 km along the axis of the anticline is considered shallow enough to be prospective
- Elsewhere in the Bowen Basin, anticlines have favourable permeability characteristics for CSG

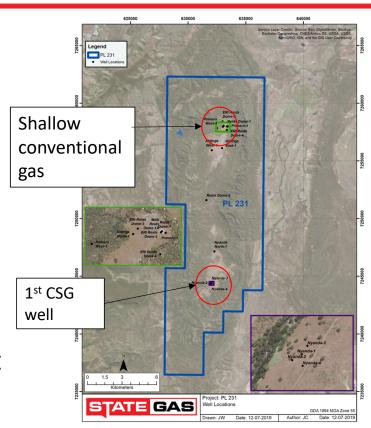


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PL 231 Work to Date



- First wells in 1955 flowed gas to surface
- Conventional gas confirmed in shallow Cattle Creek Formation in north
- State Gas 2018 1st CSG well in south confirmed gas presence & permeability
- established potential for a significant
 CSG project in this area of Bowen



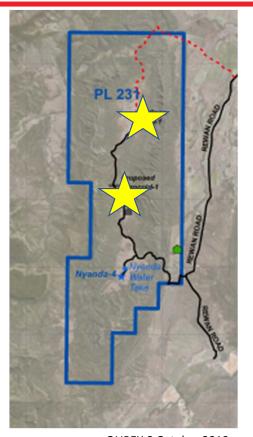
ASX code Basin

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PL 231 Forward Program



- Phase 1 Prove the potential
 - Seismic reprocessing (done)
 - Corehole in north & well in centre of permit to prove gas presence, coal thickness & permeability
 - Production tests to prove production
- Phase 2 Confirm scope, permitting
 - Production pilot (s)
 - Route permitting & EA
- Phase 3 Development



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Market Analysis



- Traditionally Domestic Market supplied primarily from Cooper Basin ('70s) & Bass Strait (602's)
- Cooper Basin new supply barely arresting depletion
- Bass Strait arresting decline through enhanced production techniques
 not new supply

Major issues:

- 1. When Bass Strait hits the wall
- 2. How much role will gas play for reliable generation highly influenced by this summer's Victorian electricity experience

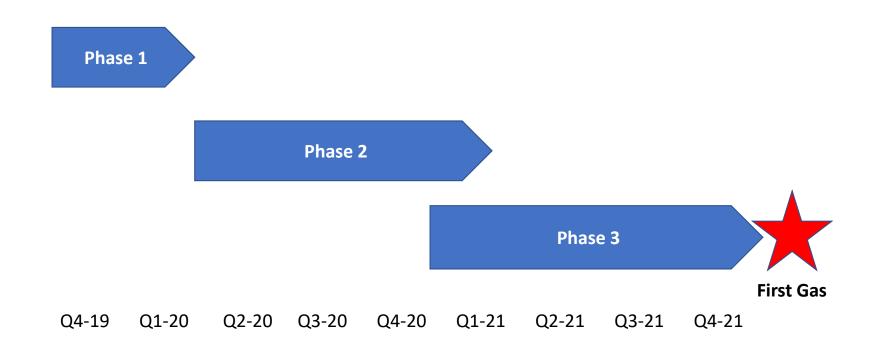
Price



- Have always said pricing will remain in A\$8-10/GJ (2018\$) with excursions either site
- Demand appears the prime determinate
- "Demand Management" a euphemism for industrial job destruction
 - >A\$10-12/GJ (2018\$, but indexed more to Henry Hub prices than inflation) will see gradual demand destruction
- New supply urgently needed to cap prices at LNG netback
- Qld has net 2 trains exposed to spot LNG pricing
- Spot LNG pricing is a bet on the stability of the Straits of Hormuz.

Indicative Timeline



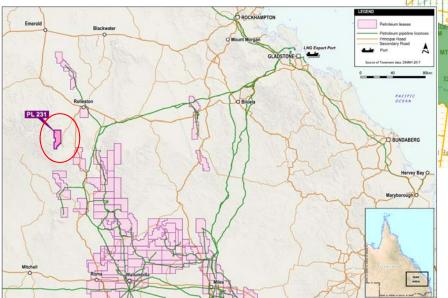


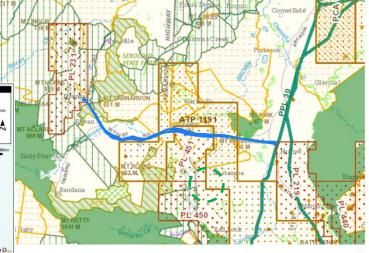


Route to market

Pipeline Survey Licence 2028 in place

 ~50 km to Queensland Gas Pipeline network connection options to the north-east and south-east





Possible route to market

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Questions?



At PL 231

LS1 Lucy Snelling, 9/11/2018