

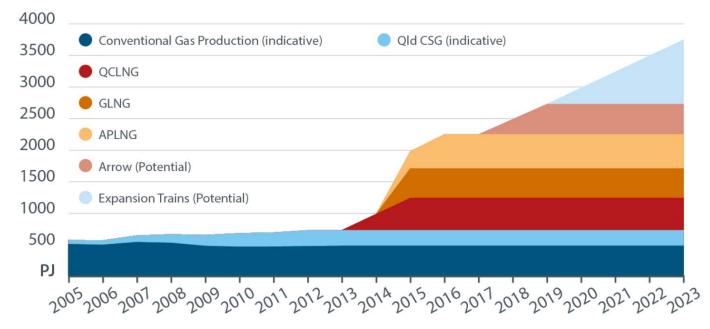
**Comet Ridge Limited** Annual General Meeting - Brisbane Managing Director's Presentation

26 November 2015

www.cometridge.com.au

# **Structural Change in East Coast Gas Market**

- 3 LNG Projects starting in 2015 at Gladstone has caused the biggest shift in the east coast gas market in almost 50 years (since Roma (Qld), Moomba (SA) and Bass Strait (Vic) each came on line)
- 3 Gladstone production trains running now and 3 more starting shortly
- Massive production requirement of approx. 1500 PJ/yr required just for the 3 LNG projects
- Significant challenge for the industry to continue to add reserves as gas is produced



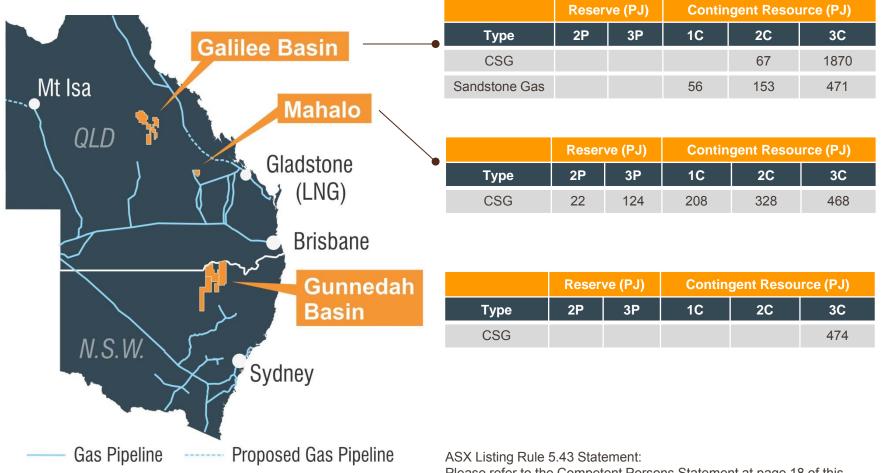
### Potential growth in eastern Australian gas market

Source: BREE, Eastern Australian Domestic Gas Market Study

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## **Comet Ridge - Strategic East Coast Gas Portfolio**

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Please refer to the Competent Persons Statement at page 18 of this presentation for the details of Chapter 5 of the ASX Listing Rules requirements for reporting petroleum reserves and resources



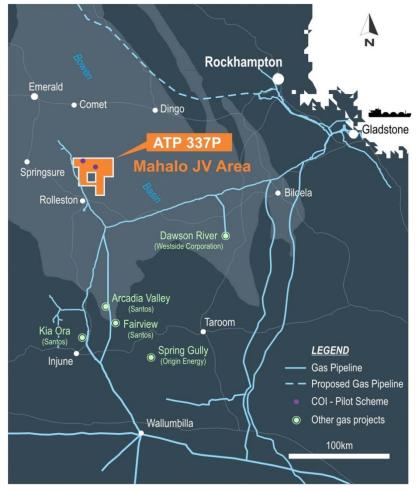
# **Mahalo Project**

## Mahalo Project – Background



- JV partners APLNG and Santos participate in two of the Gladstone LNG projects
- Mahalo pilot 11km from pipeline infrastructure linking to Gladstone LNG and domestic market
- Initial drilling and testing confirmed:
  - 7 to 9 metres of continuous net coal
  - Very good to excellent permeability measured (up to hundreds of mD)
- Two pilot schemes developed Mahalo and Mira Field Pilots
- Initial pilot testing results did not match high productivities measured when wells were drilled
- Mahalo 7 horizontal well drilled in November 2014 to demonstrate significant well productivity under development scenario

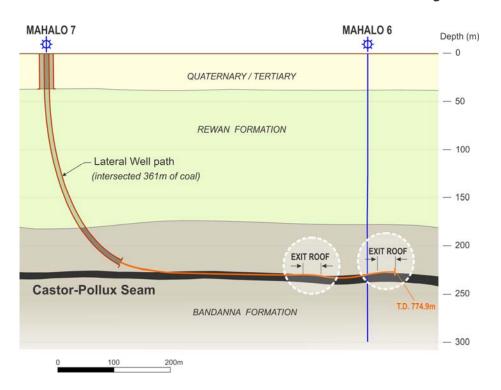
### ATP 337P Mahalo Block (COI 40%, APLNG 30%, Santos 30%)



# Mahalo 7 horizontal well – concept

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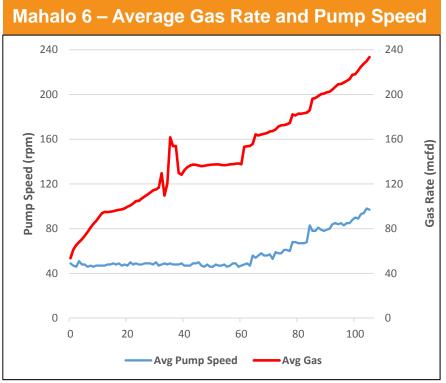
- Mahalo 7 drilled as a short well (361m in coal) to prove concept:
  - Utilised existing land available (well and tank pad) within the pilot area
  - Intersected the existing Mahalo 6 production well to minimise hook up cost and time
  - Gas and water from Mahalo 7 is produced through the Mahalo 6 vertical well
- Typical Bowen Basin horizontal well (eg Moranbah Gas Project) is 1,200m or more long
- Gas flow from longer horizontal development wells expected to be scaleable based on well length



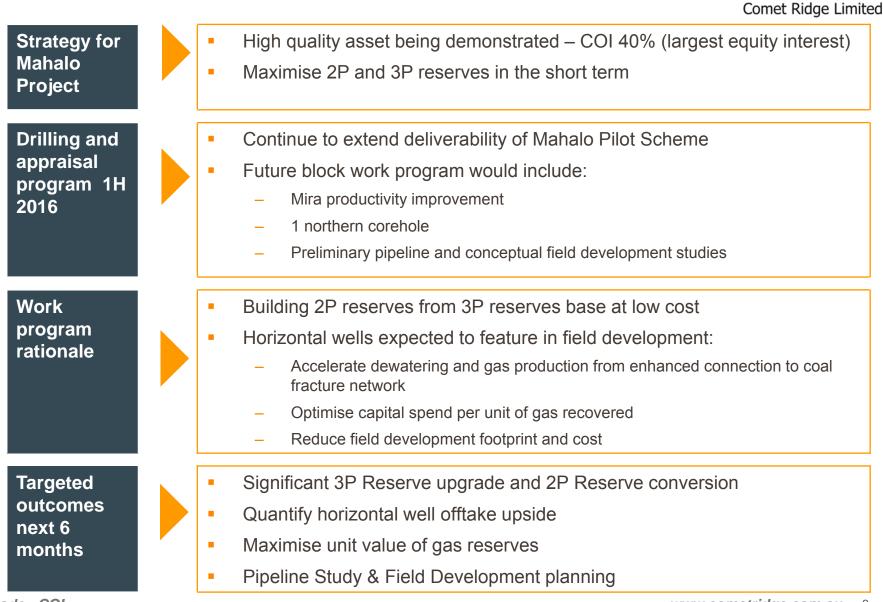
# Mahalo 7 horizontal well – results to date



- Downhole pump failure in Mahalo 6 occurred 1Q 2015
- Pump changeover completed late July 2015
- Testing operations recommenced early August 2015
- Pump operated at very low speed for two months to conservatively bring well online, then small increments in pump speed initiated
- Well response extremely pleasing
  - Continuously increasing gas rate observed
  - Gas rate achieved this week 235 mcfd
- Further pump speed increases expected to correlate with significant increases in gas rate over coming weeks
- Mahalo 3, 4 and 5 wells currently shut-in to monitor pressure; will be progressively brought on line, furthering adding to pilot gas rate



## **Mahalo Project Key Milestones**



ASX Code : COI



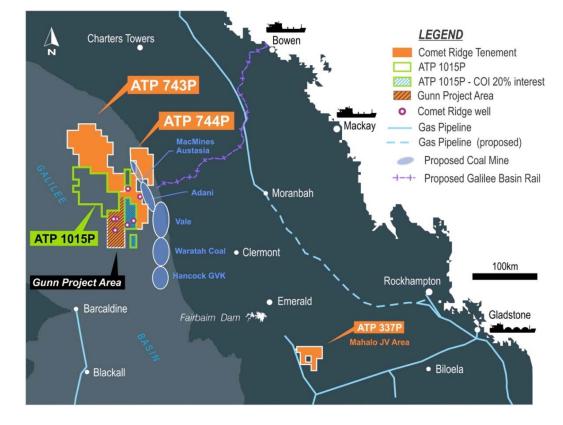
# **Galilee Basin**

## **Galilee Basin Background**



## ATP 743P, ATP 744P and ATP 1015 (CSG)

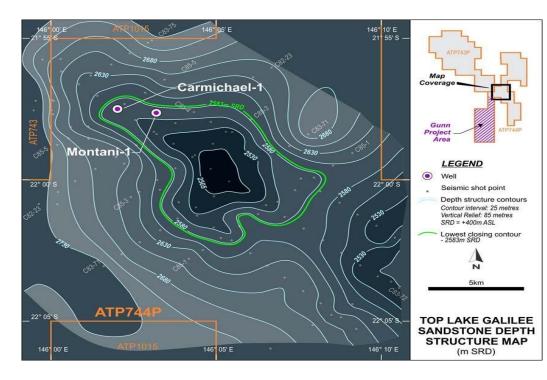
- 100% interest in ~8,500 km<sup>2</sup> operated by COI plus 20% interest in 870 km<sup>2</sup> within ATP 1015P
- CSG 1,870 PJ of 3C Contingent Resource and considerable untested upside
- Conventional significant prospectivity in sandstones confirmed with independent certification of 417 PJ of 3C Contingent Resource
- Easterly basin position closest to coastal and Bowen Basin markets
- 9 wells and 252 km seismic to date leading to significant eastern basin experience and knowledge base



## **Galilee Basin – Sandstone Gas**



Comet Ridge Net Equity Share	OGIP (PJ)			Gas Contingent Resource (PJ)		
Category	1C	2C	3C	1C	2C	3C
100%	130	334	861	56	153	417



ASX Listing Rule 5.43 Statement:

Please refer to the Competent Persons Statement at page 18 of this presentation for the details of Chapter 5 of the ASX Listing Rules requirements for reporting petroleum reserves and resources.

- 3 historic petroleum wells within ATP 743P and ATP 744P recovered oil and/or gas from Lake Galilee Sandstone at the base of the Galilee Basin
- Carmichael 1 flowed gas to surface on three tests from deeper sandstone intervals (2,600m) – another significant interval untested
- Evidence of active petroleum system over the Koburra Trough
- Potential for additional oil and gas traps and resources
- Significant 3C contingent resources independently certified in August 2015
- COI continues to evaluate farm-out options



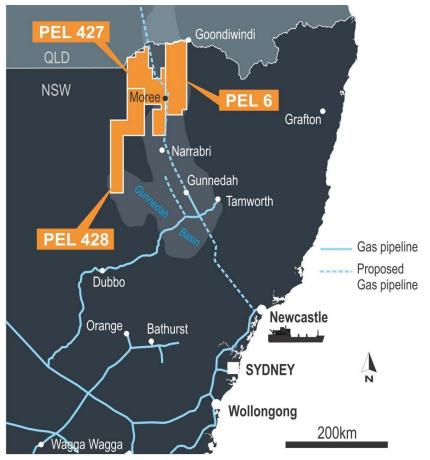
# **Gunnedah Basin**

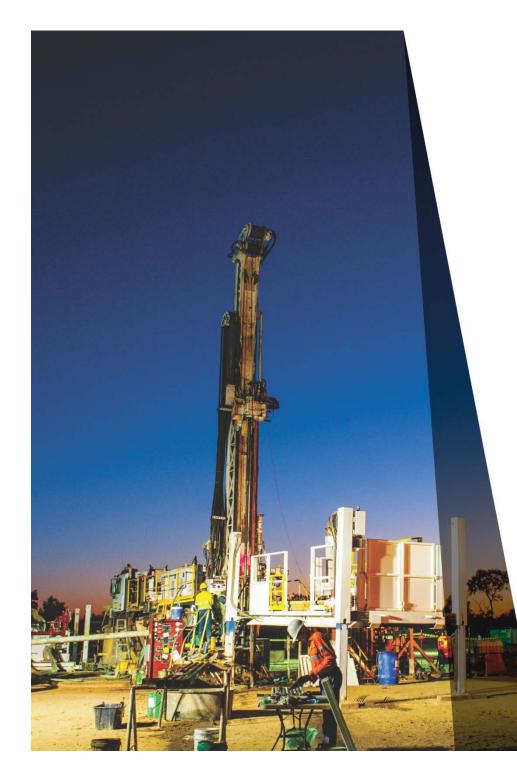
## Gunnedah Basin – NSW



- Significant investment has been made in the basin (ESG, Santos, EnergyAustralia) and material Reserves delineated ~ 1,600 PJ 2P
- Santos holds 55,000 km<sup>2</sup> in NSW COI in JV over 18,000 km<sup>2</sup> at 22.5%, 50% and 60% equity in CSG and COI holds almost 100% conventional equity
- Significant gas supply crunch coming in NSW, which will require Gunnedah Basin production to mitigate consumer and manufacturing industry impact
- Despite various government reviews and studies, any real exploration and appraisal activity has not been possible in NSW for several years
- COI believes it is critical for NSW gas resources to be developed to mitigate the coming supply crunch
- Currently adopting a low cost, wait-and-see approach

### PEL 6, PEL 427, PEL 428 (CSG & Conventional)

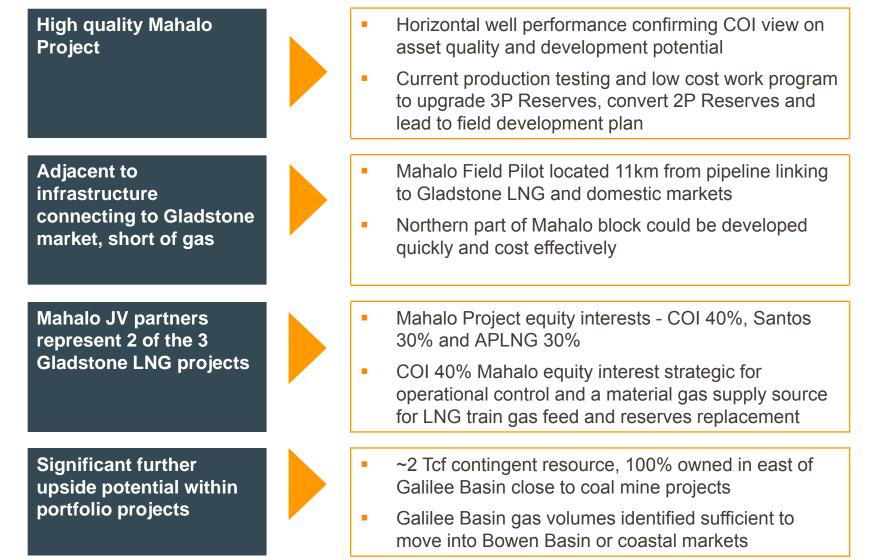




# Summary

## **Comet Ridge Limited**







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#### Competent Person Statement and ASX Listing Rules Chapter 5 - Reporting on Oil and Gas Activities

The Contingent Resource for the Carmichael Structure referred to at pages 11 and 12 of this presentation are taken from an independent report by Dr Bruce McConachie of SRK Consulting (Australasia) Pty Ltd, an independent petroleum reserve and resource evaluation company, the details of which were originally released to the Market in the Company's announcement of 5 August 2015. The Contingent Resources information has been issued with the prior written consent of Dr McConachie in the form and context in which it appears. His qualifications and experience meet the requirements to act as a Competent Person as defined under the ASX Listing Rule 5.42 to report petroleum reserves in accordance with the Society of Petroleum Engineers ("SPE") 2007 Petroleum Resource Management System ("PRMS") Guidelines as well as the 2011 Guidelines for Application. COI confirms that it is not aware of any new information or data that materially affects the information included in the market announcements referred to above and that all of the material assumptions and technical parameters underpinning the estimates in the announcements continue to apply and have not materially changed.

The estimate of Reserves and Contingent Resources for the Mahalo Gas Project as part of ATP 337P provided in this presentation, is based on, and fairly represents, information and supporting documentation determined by Mr Timothy L. Hower of MHA Petroleum Consultants LLC Inc in accordance with Petroleum Resource Management System guidelines. Mr Hower is a full-time employee of MHA, and is a qualified person as defined under the ASX Listing Rule 5.42. Mr Hower has consented to the publication of the Reserve and Contingent Resource estimates for the MGP in the form and context in which they appear in this presentation. The reserve and contingent gas resource estimates for ATP 337P provided in this presentation were originally released to the Market in the Company's announcement of 28 August 2014, and were estimated using the deterministic method with the estimate of contingent resources for ATP 337P not having been adjusted for commercial risk.

The contingent resource estimates for ATP 744P and PMP 50100 provided in this presentation are based on and fairly represent, information and supporting documentation determined by Mr John Hattner of Netherland, Sewell and Associates Inc, Dallas, Texas, USA, in accordance with Petroleum Resource Management System guidelines. Mr Hattner is a full-time employee of NSAI, and is considered to be a qualified person as defined under the ASX Listing Rule 5.42 and has given his consent to the use of the resource figures in the form and context in which they appear in this presentation.

The contingent gas resource estimates for ATP 744P provided in this statement were originally released to the Market in the Company's announcement of 25 November 2010, and were estimated using the deterministic method with the estimate of contingent resources for ATP 744P not having been adjusted for commercial risk.

The contingent gas resource estimates for PMP 50100 provided in this statement were originally released to the Market in the Company's announcement of 26 September 2011 and were estimated using a combination of the deterministic and probabilistic methods with the estimate of contingent resources for PMP 50100 not having been adjusted for commercial risk.

COI confirms that it is not aware of any new information or data that materially affects the information included in the two announcements referred to above and that all of the material assumptions and technical parameters underpinning the estimates in the announcements continue to apply and have not materially changed.

The contingent resource estimates for PEL 6, PEL 427 and PEL 428 referred to in this presentation were determined by Mr Timothy L. Hower of MHA Petroleum Consultants LLC in accordance with Petroleum Resource Management System guidelines. Mr Hower is a full-time employee of MHA, and is a qualified person as defined under the ASX Listing Rule 5.42. Mr Hower consented to the publication of the resource figures which appeared in the announcement of 7 March 2011 made by Eastern Star Gas Limited (ASX:ESG) and any reference and reliance on the resource figures for PEL 6, PEL 427 & PEL 428 in this presentation is only a restatement of the information contained in the ESG announcement.

The contingent resource estimates for PEL 6, PEL 427 and PEL 428 were estimated using the deterministic method with the estimate of contingent resources for PEL 6, PEL 427 and PEL 428 not having been adjusted for commercial risk.

COI confirms that it is not aware of any new information or data that materially affects the information included in the ESG announcement of 7 March 2011 and that all of the material assumptions and technical parameters underpinning the estimates in the announcements continue to apply and have not materially changed.