





September 2019

ASX: GLL

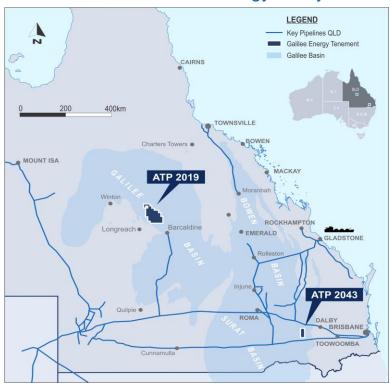


### Company Overview



- Brisbane based gas explorer (ASX:GLL).
- 100% owner of one of the largest Contingent Gas Resources in Queensland (excluding the big 3 LNG exporters).
- Management team has a proven track record of top tier coal seam gas and conventional exploration success.
- MD formerly of Eastern Star Gas which was sold to Santos for \$900m after booking 1,520 PJ 2P Reserves.
- Assets in both the Galilee and Surat Basins.
- Enhanced pilot in the Galilee Basin has commenced testing, with the aim of converting this large Resource into a significant, maiden Reserve position.
- Jemena pipeline option provides clear path to market.
- Surat acreage is within the overlapping, world class Walloon CSG fairway and the oil and gas prone eastern flank of the Taroom Trough.

#### Location of Galilee Energy's Projects



### Corporate snapshot



#### **Financial information**

**Enterprise Value** 

Share price (6 September 19)	A\$1.11
Number of shares	230M
Market capitalisation	A\$255M
Cash (30 June 19)	A\$11.6M
Debt (Current)	No debt



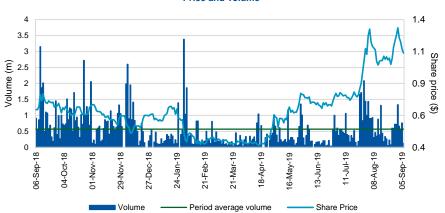
A\$243M



#### **Top 5 shareholders**

(as at 6 September 2019)	
JP Morgan	11.5%
HSBC	9.9%
Ecarlate	8.4%
Carpe Diem	6.5%
Raus Capital Fund	2.4%
Directors and management	4.4%

#### Price and volume

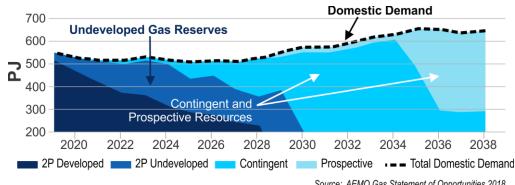


## Australian East Coast Gas Dynamics



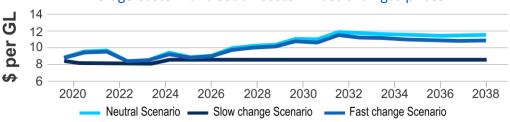
- Australian east coast gas thematic continues to be a powerful story for Galilee.
- East coast gas market was transformed with the advent of the three LNG projects in Queensland which altered the supply and pricing dynamics.
- Convergence between domestic gas prices in the east coast gas market and LNG export prices.
- The long term supply outlook for east coast gas market remains uncertain, exacerbated by southern state imposed moratoria and restrictions on onshore gas exploration activities.
- LNG netback price now published fortnightly by the ACCC is effectively setting a base price for domestic gas users at Wallumbilla (Queensland gas supply hub).

#### Structurally short gas market and gas prices aligning with international LNG prices

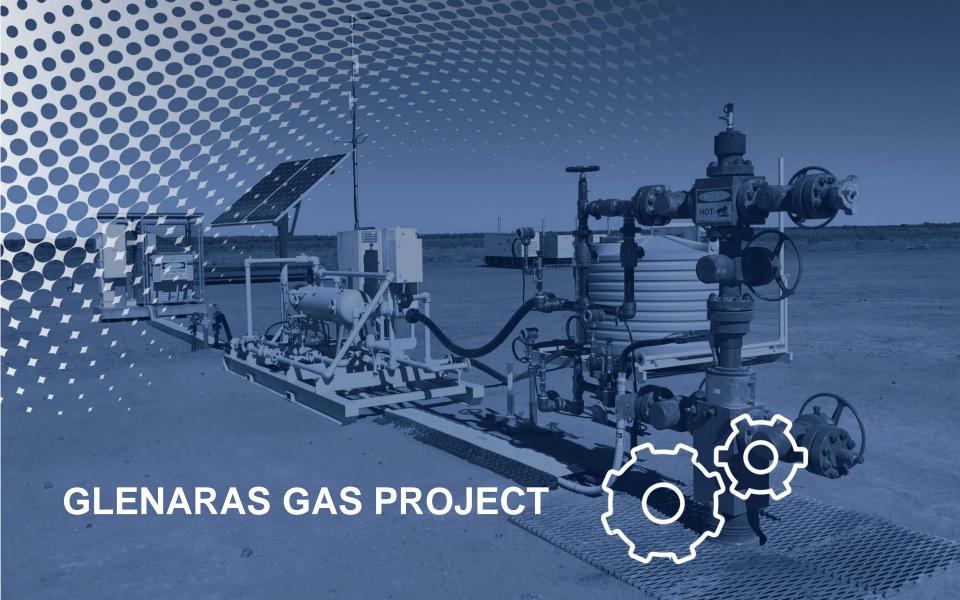


Source: AEMO Gas Statement of Opportunities 2018

#### Average eastern and south-eastern Australian gas prices



Source: AEMO Gas Statement of Opportunities 2019



## Glenaras Gas Project – The Asset

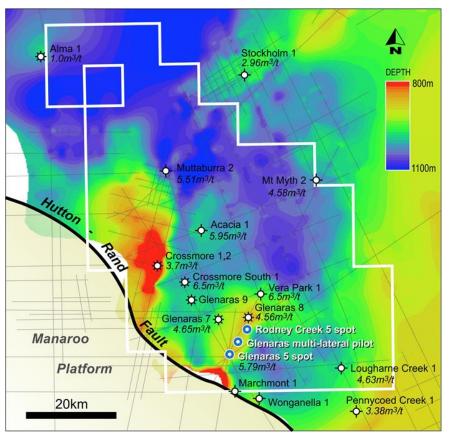


#### Betts Creek Depth Structure Map

- The Glenaras Gas Project is a mature exploration project with over \$90 million spent to date.
- The resource is clearly defined with over 20 exploration wells, 700km of seismic and two multi well pilots.
- Importantly, the existing assets include a large water storage facility (450 ML costing over \$6 million) and existing production gathering and flare facilities.
- This expenditure has advanced the Glenaras Gas Project to its significant current +Contingent Resource position:

<u>Category</u>	Resource Estimate (PJ)	
1C	308	
2C	2,508	
3C	5,314	

 Enhanced multi-lateral pilot program to convert Resources to Reserves is the remaining step for significant value creation.



(Average gas content displayed below well name)

# Glenaras Gas Project - The Asset



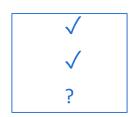
- Flat, open grazing country with large scale holdings of 50,000+ acres.
- Expected low field development cost:
  - No fracture stimulation required.
  - Low salinity water requiring minimal treatment cost.
- Strong stakeholder relationships:
  - Community consultation through industry Operator's forum.
  - Less than 12 landowners within the 2C Contingent Resource area.
- Numerous beneficial use options for the produced water given its excellent qualities.
- Has the ability to assist landowners who have been devastated by recent long term drought.



## Glenaras Gas Project – CSG Properties

GALILEE ENERGY LIMITED

- Successful CSG projects require three key parameters:
  - Resource concentration (thickness, gas content)
  - Productivity (thickness, permeability)
  - Pressure drawdown in the coal (well design)

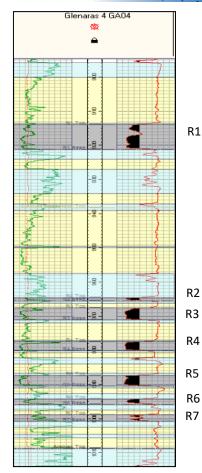


Resource concentration and coal productivity have been proven across the permit

#### Betts Creek Coal – Core area properties

Coal depth (m)	900 - 1,000
Net coal (m)	19
Gas content (m3/t)	5.3
Permeability (md)	45
Resource concentration (bcf/km²)	5.2





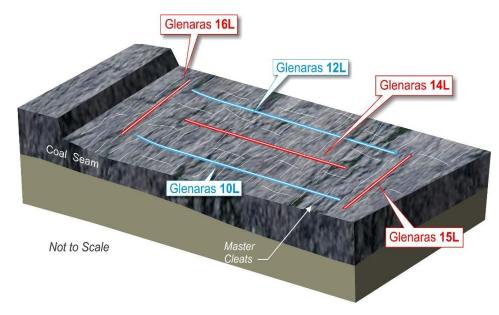
THE BETTS CREEK COAL SEQUENCE EXHIBITS EXCELLENT QUALITIES FOR GAS PRODUCTION

### Glenaras Gas Project – Enhanced Pilot



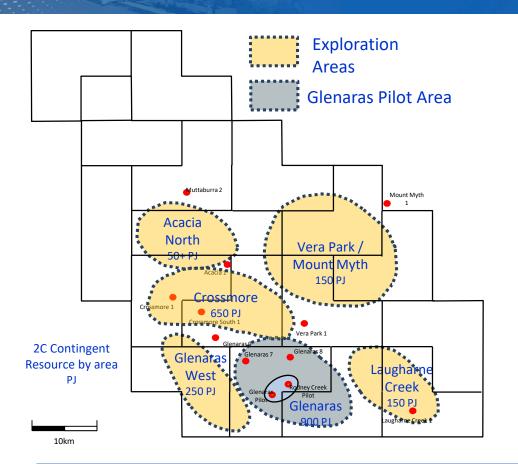
# HIGH PRODUCTIVITY AND PRESSURE DRAWDOWN A STRONG INDICATOR FOR ROBUST FIELD DEVELOPMENT ECONOMICS

- Outstanding delivery of the three lateral well programme, delivered safely, on schedule and within budget.
- New design is aimed to greatly improve both well density and shielding to accelerate coal desorption, gas production and proof of commerciality.
- Now have a well designed, shielded, five well lateral pilot in excellent coal, providing a strong platform to draw down a large area of coal below critical desorption pressure.
- All 5 wells on continuous production and performing strongly. A successful result should see material gas flow within 3 months.
- The programme was within budget of \$8 million leaving the Company in a strong financial position.



## Future exploration potential



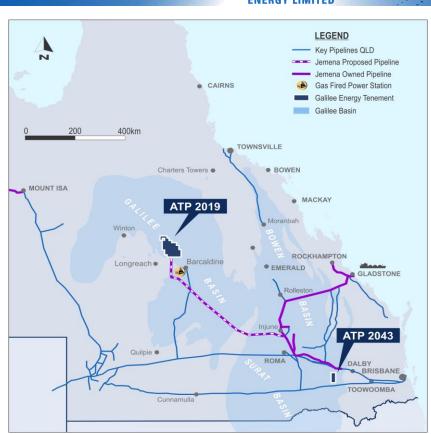


- Important to appreciate the scale of the permit area, over 80 km north to south and 70km east to west.
- The majority of the permit area has Contingent Resources coverage. More than 16 Petroleum Lease applications, depicted on the left, would be required to cover the current Resource booking.
- Acreage area is similar in size to the respective Spring Gully/Fairview and Undulla nose developments.
- Currently, the only production testing in the permit has been in a 5km band within the Glenaras Gas Project area.
- Primary focus areas for future exploration activities will be at Glenaras, Crossmore and Glenaras West where greater subsurface data control exists.

### Jemena MOU - Clear Path to Market



- Jemena and Galilee have signed a binding MOU to fasttrack a pipeline from Glenaras to the east coast market.
  This provides a clearly defined, large scale path to market.
- Jemena have conducted various environmental, cultural heritage and native title assessments of the pipeline route corridor.
- Aerial surveys over preferred pipeline route have been conducted and ecological surveys have commenced.
- Formal lodgement of Voluntary EIS Application and EPBC Act referral completed by Jemena.
- Galilee are in discussion with a number of gas customers:
  - Domestic and export.
  - Significant interest in Galilee Basin as new source of supply by both government and gas buyers.
- Early stage commercialisation option via onsite gas fired electricity generation (MoU with Clarke Energy).



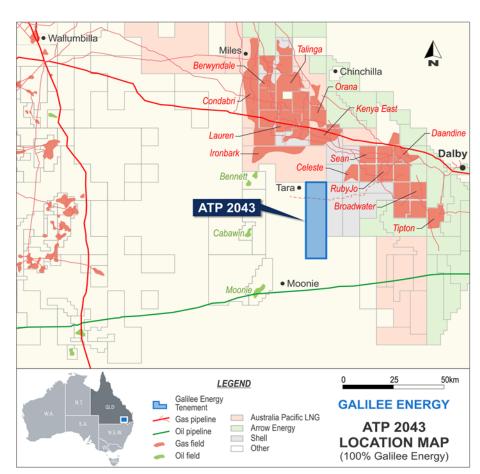


#### Surat Basin – ATP 2043



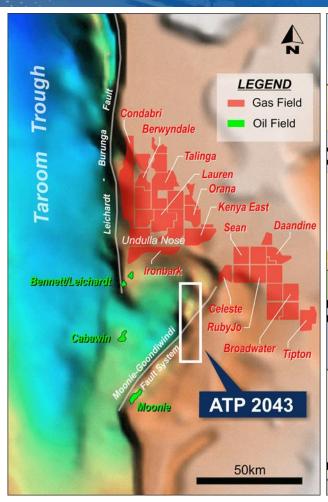
- 384km<sup>2</sup> of high-value exploration acreage, strategically located over the Surat and Bowen basins.
- Close proximity to top tier production assets including:
  - Adjacent to Undulla Nose and eastern Surat Walloon CSG fields.
  - On trend with the Moonie oil field.
- Existing pipeline tie-ins less than 10km, accelerating access to market.
- The nearby Ironbark CSG field was purchased by APLNG in February 2019 for \$231 million.

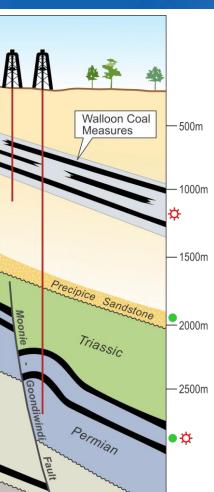
Contingent Gas Resource (PJ)		
1C	2C	3C
266	504	895



### Surat Basin – ATP 2043







- Highly prospective for both unconventional coal seam gas and conventional oil and gas.
  - Firmly located within the world-class Walloon coal seam gas fairway of the Surat Basin.
  - Prominently positioned on the oil and gas prone eastern flank of the Taroom Trough.
- Proven hydrocarbon province with multiple, highvalue production assets in close proximity.
- Positive subsurface impacts from regionally extensive Moonie-Goondiwindi Fault System.
  - Fracture-enhanced permeability in the Walloon coals.
  - Trap formation for conventional oil and gas prospects along trend from the Moonie Field.
- Significant opportunity to apply contemporary exploration methods to unlock material resources.

# Summary



- Galilee focusing on high growth east coast gas business:
  - Glenaras Gas Project substantially de-risked with completion of recent drilling programme.
  - Strong water rates and drawdown augur well for project development economics.
  - One of the largest Contingent Gas Resources in Queensland.
  - Pilot performing strongly and targeting maiden Reserve booking by year end.
  - Expansion of asset portfolio with recent Surat acreage award.
- Material exposure to structurally short east coast gas market and higher gas prices.
- Jemena MOU and milestones achieved demonstrates a clear, large scale pathway to market.
- Recent award of new Surat Basin acreage, close to infrastructure and with dual prospectivity within both the world class Walloon CSG fairway and the oil and gas prone eastern flank of the Taroom Trough.
- Experienced management team with a proven track record of successfully exploring, appraising and developing CSG tenures across multiple basins.
- Ability to move nimbly and achieve innovative outcomes as evidenced by recent Surat Basin tender award.
- Strong financial position with sound cash position and no debt.

### Disclaimer



This presentation may contain forward looking statements that are subject to risk factors associated with oil and gas businesses. It is believed that the expectations reflected in these statements are reasonable but they may be affected by a variety of variables and changes in underlying assumptions which could cause actual results or trends to differ materially, including but not limited to: price fluctuations, actual demand, currency fluctuations, drilling and production results, reserve estimates, loss of market, industry competition, environmental risks, physical risks, legislative, fiscal and regulatory developments, economic and financial market conditions in various countries and regions, political risks, project delay or advancement, approvals and cost estimates. Investors should undertake their own analysis and obtain independent advice before investing in GLL shares. All references to dollars, cents or \$ in this presentation are to Australian currency, unless otherwise stated.

\*Competent Persons Statement & Listing Rule 5 Additional Reporting on Oil & Gas Activities

The estimates of contingent resources for both ATP 2043 and ATP 2019 as they appear in this presentation, are based on, and fairly represents, information and supporting documentation determined by Mr Timothy L. Hower of MHA Petroleum Consultants LLC Inc Denver, Colorado, USA, an independent petroleum reserve and resource evaluation company, 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 5.41. His career spans over 30 years petroleum engineering evaluations experience including field development planning, unconventional reservoir assessment and reserves, reservoir simulation, enhanced recovery, and industry training courses. His qualifications and experience meet the requirements to act as a Competent Person 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 of the PRMS approved by the SPE. Mr Hower has consented to the publication of the contingent resource estimates for Galilee Energy's 100% interest in ATP 2043 and ATP 2019 in the form and context in which they appear in this presentation. The contingent gas resource estimates for ATP 2019 provided in this presentation were originally released to the market in the Company's announcement of 1 September 2015, and were estimated using the Deterministic Method with the estimate of contingent resources for ATP2043 not having been adjusted for commercial risk. The contingent gas resource estimates for ATP 2043 provided in this presentation were originally released to the market in the Company's announcement of 1 August 2019 and were estimated using the Deterministic Method with the estimate of contingent resources for ATP2043 not having been adjusted for commercial risk. Galilee Energy confirms that it is not aware of any new information or data that materially affects the information included

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