



121 MINING
INVESTMENT
9-10 MAY 2023 **LONDON**

David Casey
Managing Director & CEO

May 2023

ASX: GLL



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Forward Looking Statements

This Presentation may contain certain "forward-looking statements" with respect to the financial condition, results of operations and business of the Company and certain plans and objectives of the management of the Company. Forward looking statements can generally be identified by words such as 'may', 'could', 'believes', 'plan', 'will', 'likely', 'estimates', 'targets', 'expects', or 'intends' and other similar words that involve risks and uncertainties, which may include, but are not limited to, the outcome and effects of the subject matter of this Presentation. Indications of, and guidance on, future exchange rates, capital expenditure, earnings and financial position and performance are also forward-looking statements.

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++ Competent Person Statement

The estimate of Contingent Resources for the Glenaras Gas Project which may be provided in this Presentation, is based on, and fairly represents, information and supporting documentation determined by Mr Timothy L Hower of Sproule International (in accordance with Petroleum Resource Management System guidelines Mr Hower is a full time employee of Sproule, and is a qualified person as defined under the ASX Listing Rule 5.42 Mr Hower is a Licensed Professional Engineer in the States of Colorado and Wyoming as well as being a member of The Society of Petroleum Engineers Mr Hower has consented to the publication of the Reserve and Contingent Resource estimates for the Glenaras Gas Pilot Project in the form and context in which they appear in this Presentation.

The Contingent Resource estimates for Galilee Energy's current 100 interest in the Glenaras Gas Pilot Project located in ATP 2019 provided in this Presentation, were released to the Market in the Company's ASX announcement of 1 September 2015 and were estimated using the deterministic method and not having been adjusted for commercial risk

Galilee Energy confirms that it is not aware of any new information or data that has not already been released to the market, that materially affects the information included in this Presentation relating to the Glenaras Gas Pilot Project in ATP 2019 and that all of the material assumptions and technical parameters underpinning the estimates in the announcements continue to apply and have not materially changed.

ASX Releases

Investors are advised that by their nature as visual aids, presentations provide information in a summary form. The key information on detailed matters such as Resource statements can be found with the Company's ASX releases.



Corporate structure (ASX: GLL)

as at 2nd May 2023

339m Shares on issue	\$0.14 Share price (2 nd May 2023)
\$47m Market Cap	\$11m Cash (31 March 2023 & FY22 R&D receipt)

No debt

Board & Management

Ray Shorrocks | Non-Executive Chairman

David Casey | Managing Director & CEO

Stephen Kelemen | Non-Executive Director

Gordon Grieve | Non-Executive Director

Greg Columbus | Non-Executive Director

Experienced Team with Proven Track Record

Share Price & Volume

12 months



Projects

- **ATP 2019 - Glenaras Coal Seam Gas & Carbon Offsets**
- **ATP 2050 - Springsure Conventional & CCUS Potential**
- **ATP 2043 - Kumbarilla Conventional & CCUS Potential**



The Prize...

Building a Multi-TCF Fully
Integrated Energy Company



The size of the prize, its location and gas market thematics make GLL a compelling investment opportunity



Pathway to Multi-TCF Gas Development

Updated strategy to facilitate transformational value uplift and progress Galilee towards becoming a multi-TCF gas development company.

Completion of 6-well drilling programme to accelerate de-pressurisation and initiate gas desorption at Glenaras to achieve commercial gas production in support of a material maiden reserve booking.



Massive Resource

One of the largest uncontracted resource positions on the east coast of Australia ** (1C: 308 PJ, 2C: 2,508 PJ, 3C: 5,314 PJ).

Operatorship and 100% ownership enables full control and no JV mis-alignment.



Significant Structural Tailwinds

Domestic east coast contract gas prices averaged \$17.78/GJ in Q4 2022, up by 68.8% qoq from an average \$10.53/GJ in Q4 2021. (Source: EnergyQuest, Mar 2023 Report).

Increasing demand for gas as the world transitions to renewable and low carbon footprint energy alternatives.



Number of Upside Opportunities

Low salinity water, produced as a bi-product of gas production, to be used for irrigation, delivering high value crop yields and increasing land value.

Well positioned for the transition to lower carbon future with multiple initiatives currently being assessed, including solar power, hydrogen, carbon capture and storage technology.



New Experienced Management Team

New Team, New Perspective, New Approach

The History...

A long, well travelled road





Capitalising on around \$150m of previous exploration & appraisal expenditure at Glenaras

- **Over 700km of 2D seismic**
 - Fully reprocessed to contemporary seismic quality standards in late 2021.
- **20 exploration wells**
 - 12 coreholes defining coal and sandstone properties;
 - 8 additional wells with formation testing to confirm coal flow properties.

Category	Contingent Resource (PJ)	Area (km ²)
1C	308	~36
2C	2,508	~1,200
3C	5,314	~2,500

- **3 multi-well production pilots**

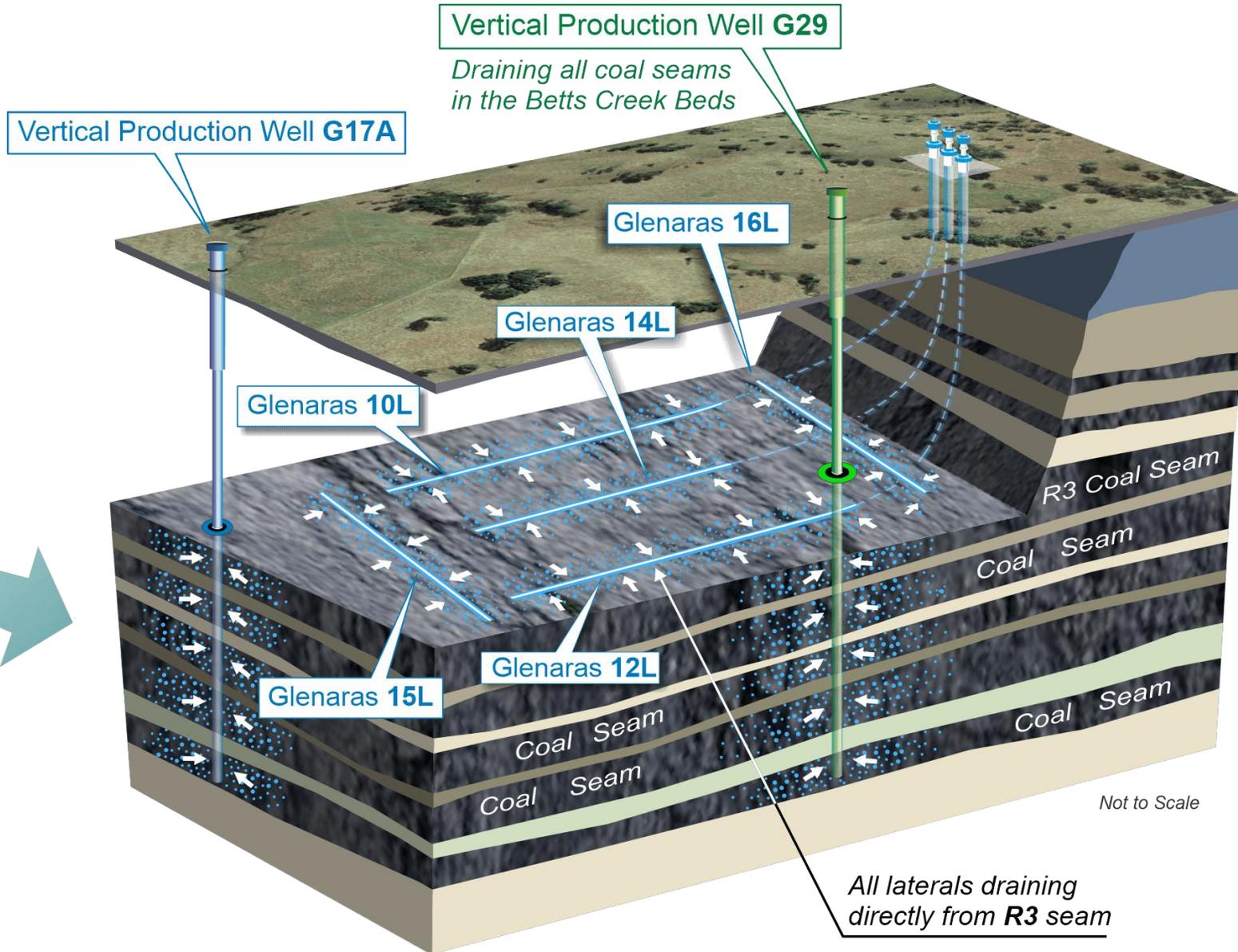
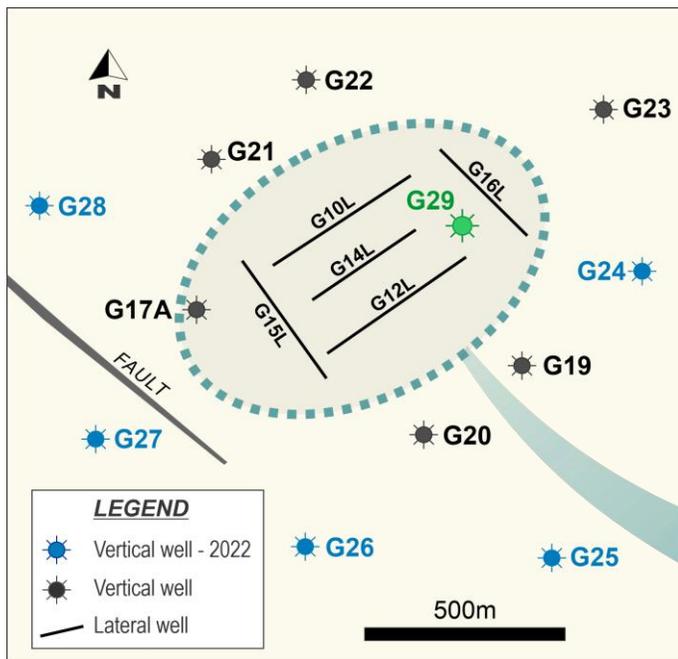
- Rodney Creek vertical 5-spot;
- Glenaras vertical 5-spot;
- Glenaras 17-well pilot (5 lateral wells and 12 vertical wells).



Glenaras Pilot



Glenaras Pilot Field



...and the end result is the largest pilot of its type targeting one of the largest uncontracted gas resources on the east coast

Production History



Phase 1: Multi-Lateral Pilot

- Horizontal Wells in R3 Seam are unable to fully depressurise reservoir.

Phase 2: Vertical Wells

- Testing establishes communication across different coals. Vertical wells added to pilot but still unable to optimise Flowing Bottom Hole Pressure (FBHP).

Phase 3: Production Enhancement & Re-completions

- Alternative artificial lift design. FBHP optimised in wells but limited redundancy, reservoir pressure depleting albeit at modest rates.

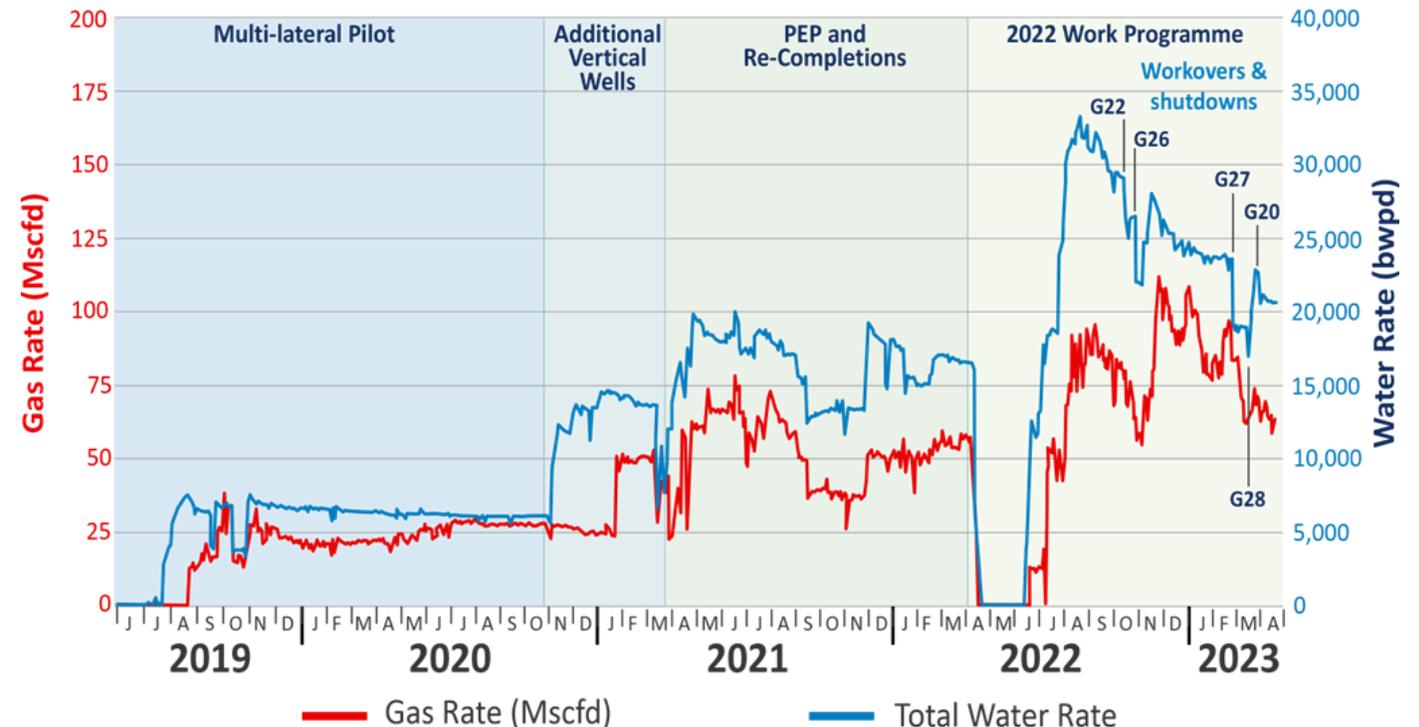
Phase 4: Additional Vertical Wells

- Additional vertical wells added to pilot with dedicated pressure monitoring.
- Genuine well redundancy to accelerate reservoir pressure depletion.

Gas rates have been impacted by necessary and planned workovers but the signs are encouraging

Despite its history, the Glenaras pilot is really only NOW 9 months since the drilling of the new shield wells, exhibiting signs typical of a reservoir in transition

Glenaras Multi Lateral Pilot Production



The Challenge...

With the pilot at the lowest pressures recorded to date, need to maintain the capability and have the patience to wait for the gas!

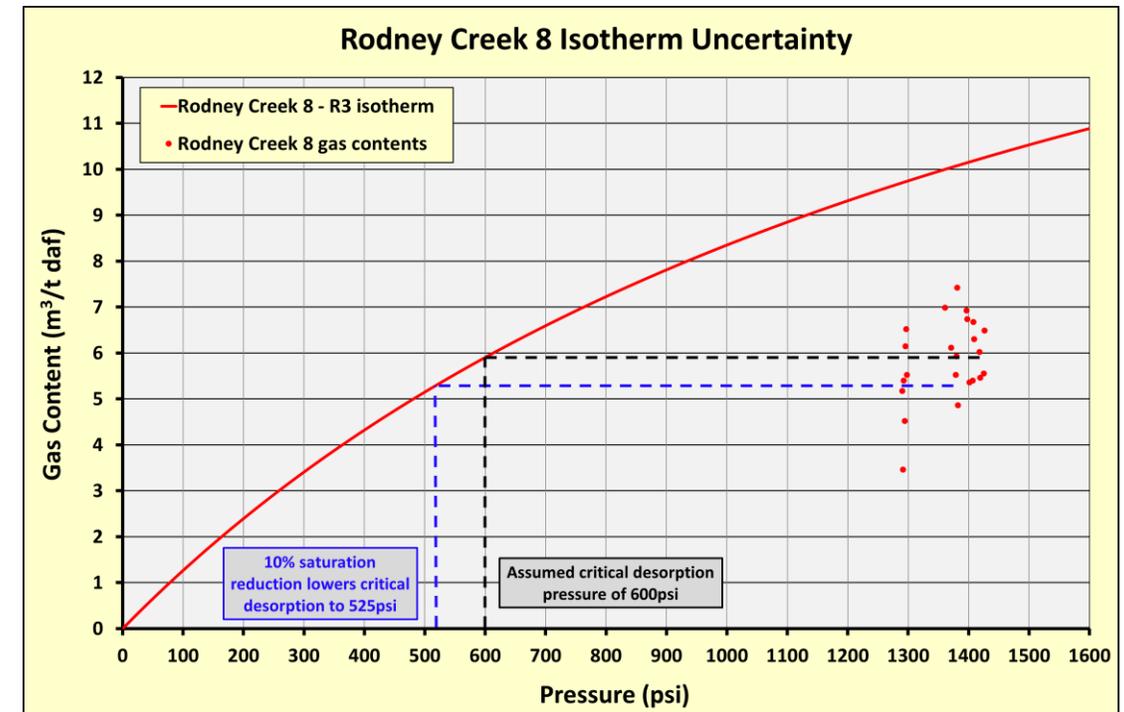


So what's potentially inhibiting the gas?



- Early stage desorbed gas dissolving into dominant water stream
 - Very high water rates are masking actual gas desorption, but continued depressurisation will overcome this.
- Insufficient volume of coal beneath critical desorption pressure to generate material gas rates
 - Inner laterals are depressurising only the single R3 Seam and not the full seven seams.
 - **Notwithstanding seam variability this will be overcome as impact of shield wells increases with time.**
- Critical desorption pressure may be lower
 - A 10% reduction in gas saturation lowers critical desorption pressure from 600psi to 525psi.
 - **Importantly ultimate gas recovery per well even at lower desorption pressures is still very good.**

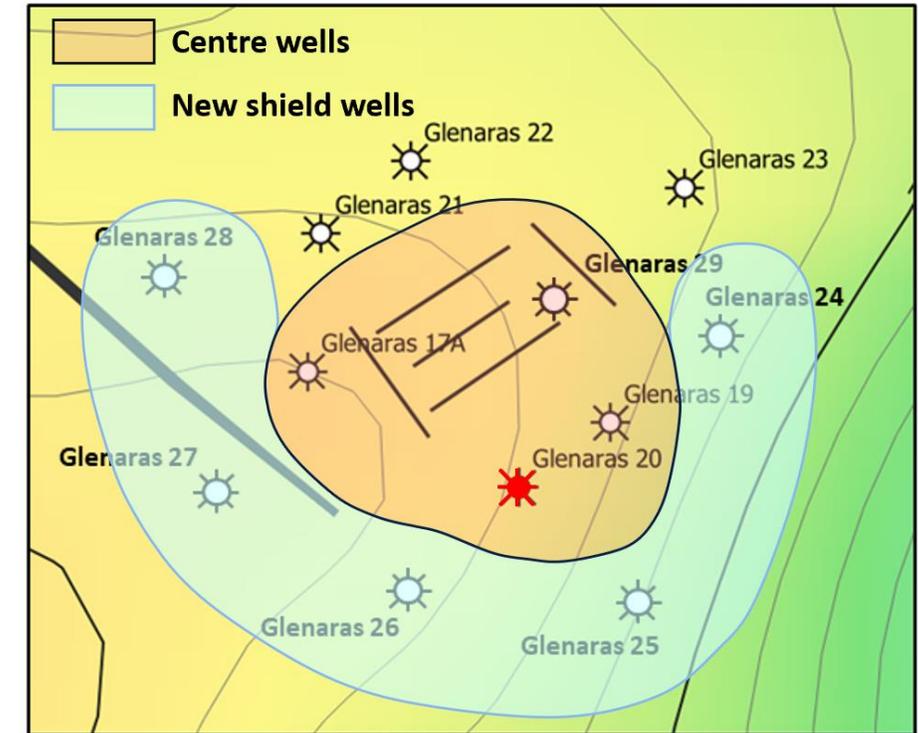
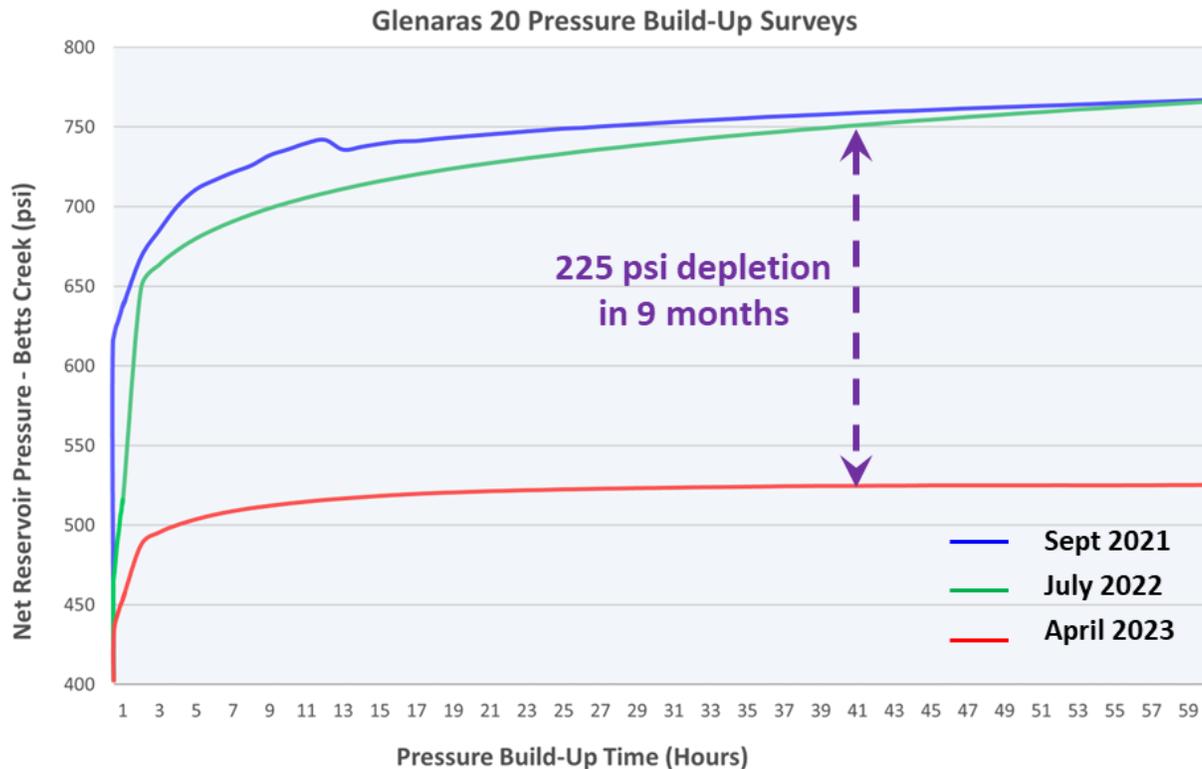
Regardless of the mechanism, there are encouraging signs that significant progress has been made and that the impact of the shield wells on reducing reservoir pressure is only now being realised



Impact of shield wells has been significant!



- Pressure depletion in centre wells such as G20 has been significantly enhanced over the 9 months since latest shield wells drilled
 - **Essentially no pressure depletion prior to new shield wells (Sept 2021 to July 2022).**
 - Significant depletion following new shield wells (July 2022 to April 2023).



The success of the new shield wells cannot be underestimated and the impact on G20 clearly shows that progress has been made and that the pressure within the Betts Creek coals can effectively be drawn down below critical desorption pressure

The Reward...

Developing an energy company that contributes to local and regional communities, while being able to supply gas to a tightening east coast gas market

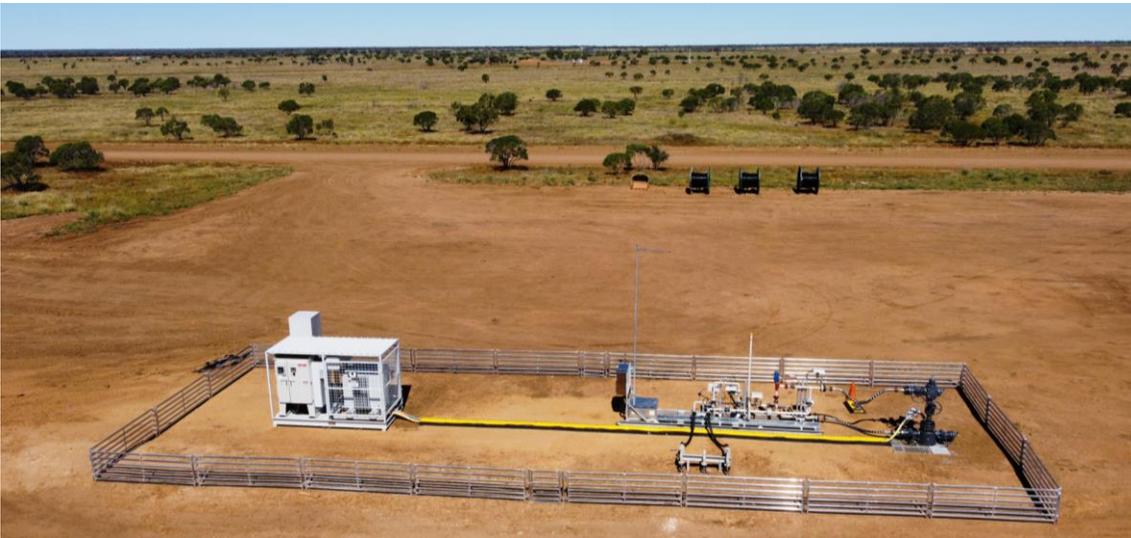


The water conundrum...



While water production has historically been a challenge it now represents a valuable commodity in its own right!

- Produced water is high quality compared to other Qld CSG plays and can be used for irrigation.
- All water produced by the Glenaras Pilot is beneficially used on site.
- Beneficial re-use of produced water is an obvious value add for the local community and project economics.
- Significant crop trials and R&D efforts are ongoing to de-risk future development and maximise value and optionality – CO₂ Sequestration.
- **Genuine scalable Agri business exists alongside gas production operations.**



Green “DOING” not Green Washing!



The Market...

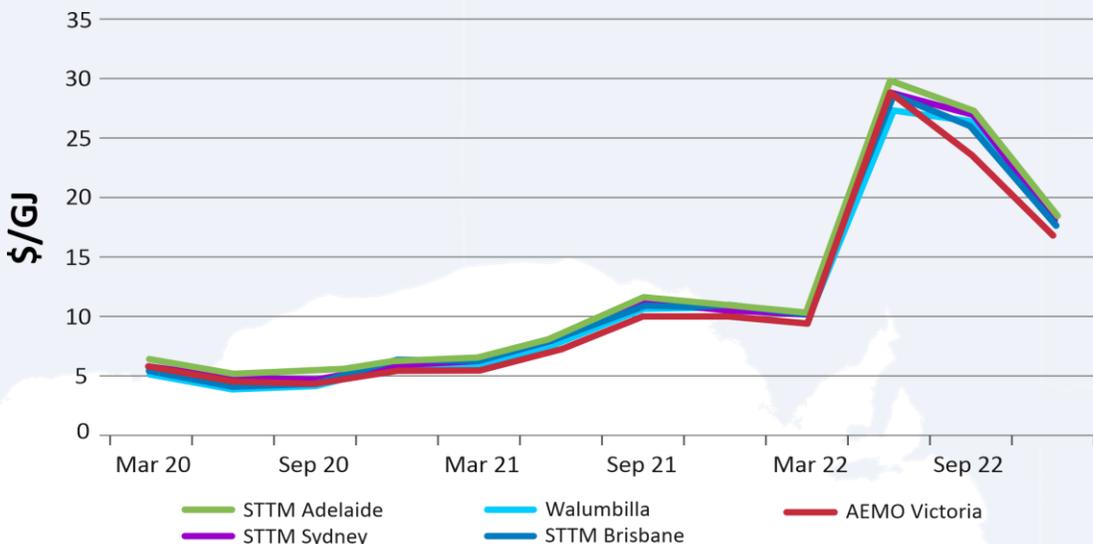
Gas is the transition fuel of choice

East Coast Gas Supply Challenges...



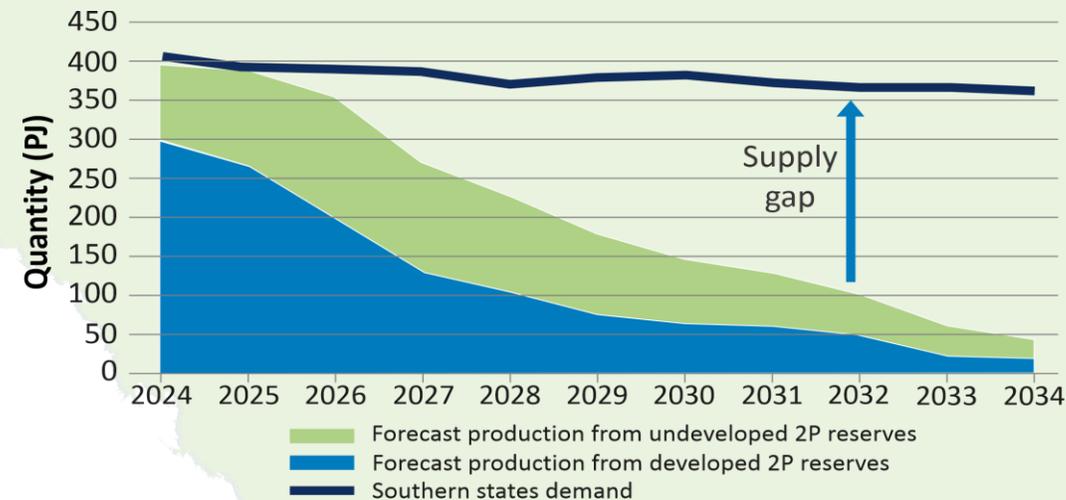
- ACCC forecast growing **supply shortfall through to end 2030**
- Added uncertainty surrounding the supply assumptions, given 40% is assumed from undeveloped reserves
- EnergyQuest term contract gas price outlook to 2030 of ~A\$14/GJ to ~A\$15.50/GJ
- The international market for gas has transformed from 12 months ago, propelled higher by shortages in Europe, exacerbated by efforts to switch away from Russian gas

Average quarterly east coast short term gas prices \$/GJ



Source: Energy Quest March 2023 Report (AEMO data)

Forecast supply and demand in the southern states, 2024-2034



Source: ACCC January 2023 Interim Report.

- Squeeze on east coast domestic gas supplies as LNG exporters have sought to maximise export revenues
- Given the value delta between global LNG prices and domestic gas prices, local uncontracted gas reserves are becoming increasingly more valuable

The tightening east coast gas thematic is real & will be long lasting...



The way forward...

Ideally placed to address any future emission challenges with proactive genuine alternatives

Multiple emission management strategies...



GLL is ideally placed to transition to and thrive as an integrated and diversified energy company in an ever increasing carbon constrained economy...

SOLAR



Finalising design and sizing of initial solar system to current activities

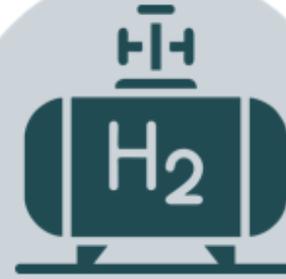
Identification of specific species best suited for

- plantation biomass
- CO₂ sequestration



SILVICULTURAL TRIAL

HYDROGEN



Undertaking studies to look at a combination of CSG water and generation of hydrogen

Assessment underway of future potential credits

Global carbon credits traded in 2021 was ~US\$850 billion

- 1 year growth **164%**



CARBON CREDITS

An aerial photograph of a solar farm in a dry, arid landscape. On the left, there is a large, circular solar tower (CSP) with a vibrant green receiver. To its right, a large rectangular solar pond is visible, also containing green liquid. The surrounding terrain is brown and sandy with sparse vegetation. A large, semi-transparent water drop graphic is overlaid on the right side of the image.

So why GLL?

Galilee Energy has never been cheaper and the Glenaras pilot so advanced...

Significant share price upside...



Glenaras Multi Lateral Pilot Production



While share price performance is understandable given past expectations, there is nonetheless a genuine opportunity for a significant uplift on success at Glenaras



- ✓ Strong leadership and management team that have had prior success
- ✓ 100% ownership of one of the largest uncontracted multi TCF gas resources on the east coast
- ✓ Funded to achieve a result at Glenaras
- ✓ Reservoir never been better understood and closer to gas desorption
- ✓ Very favourable east coast gas thematic with strong projected demand and prices into the future
- ✓ Multiple strategies to mitigate and manage future emissions

GLL ticks all the boxes...



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