# **Vintage Energy**

# Discovering and delivering gas for eastern Australia



PROVEN PROSPECTIVITY



INFRASTRUCTURE IN PLACE



**GAS SUPPLY CONTRACTS** 



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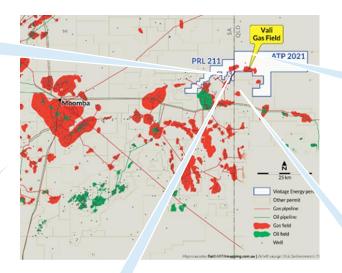


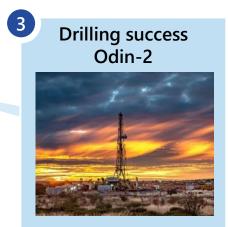
# Since Good Oil last year.....

Established production via pipeline connection to Moomba processing plant

First full year of gas production







Merger Heads of Agreement

GALILEE
ENERGY

VINTAGE ENERGY

Oil opportunity farm out



2 2nd Field brought online: Odin

Vali-Odin work program

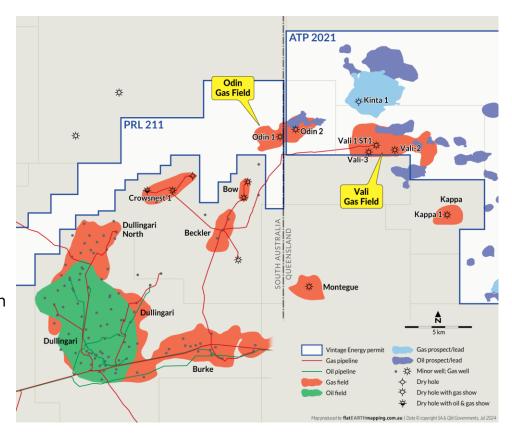




# First full year of gas production

### Appraisal production program. Gas sold under long term contract.

- Production from Vali-1 (commenced Feb. '23) from Patchawarra
   Formation
- Gas processed and sold ex-Moomba
- Supplied to AGL under long term contract
- Vali-1 and facility performing to plan; facility recorded 99.4% availability (excludes 3<sup>rd</sup> party shutdowns)
- Vali-2 shut-in pending actuation of sliding sleeve to add flow from Toolachee to Patchawarra production
- Vali-3 shut-in pending analysis and JV consideration of remedial program



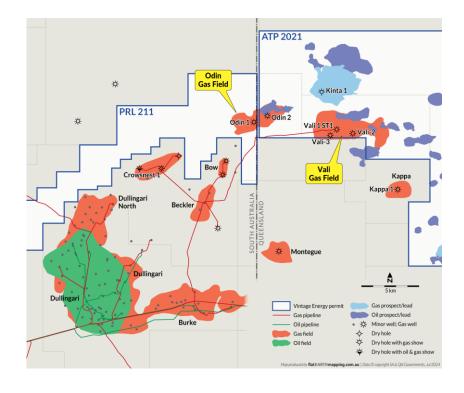




### Second gas field online: Odin

### Connected to Moomba infrastructure, appraisal production supplying Pelican Point Power

- Odin-1 brought online on-schedule September 2023
- Connected to Vali-Beckler pipeline
- Odin-1 commenced production
   September 2023 from Epsilon and
   Toolachee Formations
- Producing at 1.4 MMscf/d raw gas<sup>1</sup>
- Supplying gas to Pelican Point Power Pty Ltd (ENGIE 72%, Mitsui 28%)



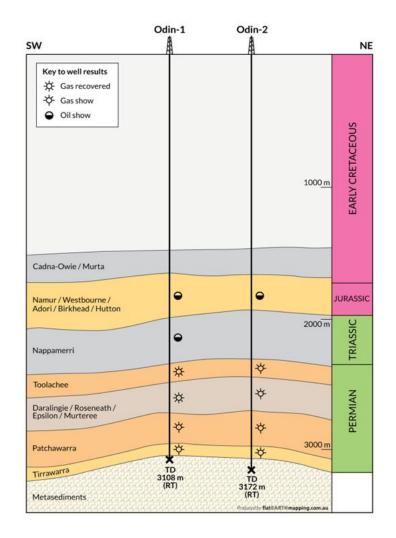


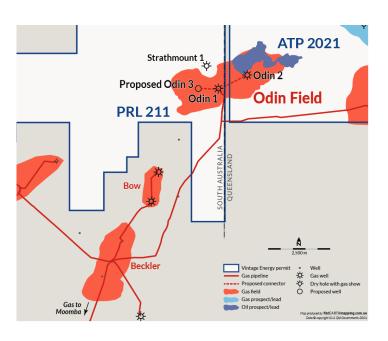


# **Odin appraisal drilling**

### Odin-2 maintained Vintage 100% drilling success rate in southern flank of Nappamerri Trough

- Odin-2 successfully appraised northeastern extent of Odin gas field
- Gas pay in primary targets of Toolachee, Epsilon and Patchawarra Formations
- To be completed and connected for production appraisal
- Odin-3 appraisal opportunity identified



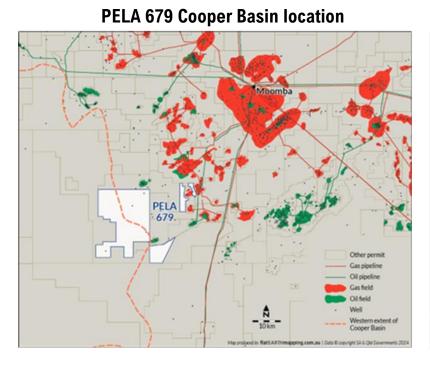


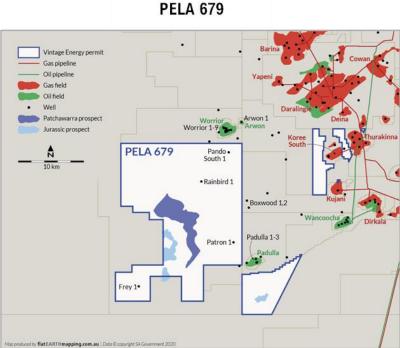


# **Cooper Basin oil exploration farmout**

PELA 679 subject to title award. Farm-down from 100% to 50% agreed.

- Located on Western Flank of Cooper Basin, south-west of producing Worrior oil field
- Vintage awarded 100% with grant contingent on completion of land access agreement
- Agreement with Sabre Energy for 50% farm down in return for funding 100% of 150 km<sup>2</sup> 3D seismic and sharing of costs till grant
- Permian and Jurassic oil potential







### **Current Vali and Odin work program**

Production optimisation, additional wells and formations to be brought online

#### Vali gas field

- Vali-2 Sliding sleeve actuation
- Enable production from Toolachee formation

#### Odin-1

- Patchawarra formation production to be initiated
- Production optimisation initiatives on existing Toolachee and Epsilon formations

#### Odin-2

- Well completion and connection
- Scheduled to come online October 2024







# Vintage-Galilee merger proposal

Heads of Agreement on merger to create financially stronger, better resourced gas company for east coast gas opportunity

- Joint announcement 15 August 2024 of signing HoA for merger, subject to conditions and Galilee shareholder approval
- Merger proposed to be effected by all scrip offer for Galilee shares by Vintage
- If approved by shareholders, the merged company will feature:
  - a stronger balance sheet, with greater capacity to advance existing gas projects;
  - a combination of existing gas production from 2P reserves with well-situated contingent resources (2C) exceeding 2,500 PJ; and
  - an acreage portfolio with onshore acreage in most sedimentary basins currently, or expected, to supply gas to eastern Australia.
- The merger proposal is conditional and subject to Galilee shareholder approval



### **Vintage and Galilee assets**

Combined portfolio covers most onshore eastern sedimentary basins supplying gas

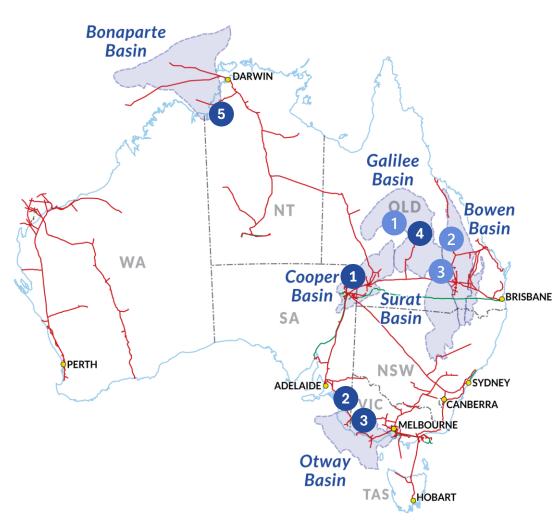


- Cooper Basin
  - Odin & Vali gas fieldsAppraisal production
  - Gas supply contracts
  - Gas and oil exploration





- 2 Nangwarry CO<sub>2</sub> resource
  - Multi-decade food grade CO<sub>2</sub> resource
- Onshore Otway
  - Gas exploration
- Galilee Basin
  - Gas exploration
- Bonaparte Basin
  - Gas exploration
  - Untested Cullen-1 well





- Glenaras gas project
  - 2,500 PJ 2C CSG resource
  - Transport MOU (non-binding)
  - Investment made in pilot, technical and analytical work to advance commerciality

- Springsure gas project
  - Gas exploration
- Kumbarilla project
  - Oil exploration

### **Current and approaching events**

Production optimisation, new well connection and corporate initiatives

Current

Production optimisation program & Odin-2 completion

- Field work at Odin and Vali gas fields
- Opening new producing zones at both fields
- Seeking to establish gas production from Vali-2

October

Odin-2 connected and brought online

- Expected in October 2024
- Epsilon, Toolachee and Patchawarra production targeted
- Takes Odin to dual-well field

From later Q2\* FY25

Vintage-Galilee Merger\*

- Subject to HoA conditions and Galilee shareholder approval
- Increased financial strength to progress projects including Odin-3



### Wrap up

Exposure to east coast gas with existing supply, uncontracted gas plus running room for value accretion

- Rare small-cap exposure to east coast gas market opportunities with gas supply, uncontracted gas resources and reserves and existing contracts.
- Production expected to increase in coming months as Odin-2 brought online and in-field optimisation activities completed
- Vintage Galilee merger proposal potential to upscale financial strength for progression of gas projects
- Running room for value creation exists in:
  - further appraisal and expansion at Odin/Vali;
  - gas and oil prospects in the Cooper/Eromanga Basins; and
  - a portfolio with well-located gas acreage in the onshore Otway, Galilee, and Bonaparte Basins and the Nangwarry CO<sub>2</sub> resource.



# Appendices

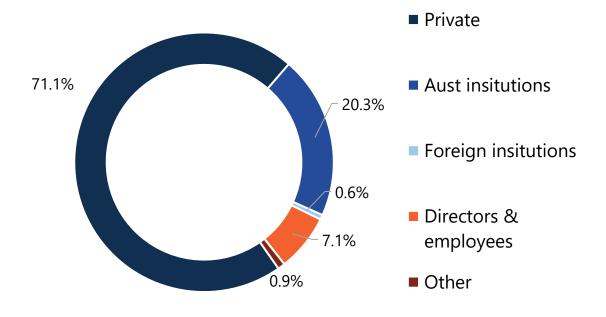


# **Corporate overview**

### Key figures

Shares on issue <sup>1</sup>	million	1,669.5	
Market capitalisation <sup>1</sup>	\$ million	15	
Cash <sup>2</sup>	\$ million	7.7	
Borrowings – loans <sup>3</sup>	\$ million	8.4	
12 month high <sup>1</sup>	cents per share	4.0	
12 month low <sup>1</sup>	cents per share	0.7	

# Shareholders by type As at 28 June 2024





<sup>&</sup>lt;sup>1</sup> as at 10 September 2024

<sup>&</sup>lt;sup>2</sup> as at 30 June 2024

<sup>&</sup>lt;sup>3</sup> as at 31 December 2023

# Vintage portfolio

Onshore gas projects. Exploration acreage offering high chance of technical and commercial success.

underpinning the estimates in the announcements continue to apply and have not materially changed.

### **Cooper Basin gas operations**

#### **Appraisal production**

- Vali commenced Feb 23
- Odin commenced Sep 23

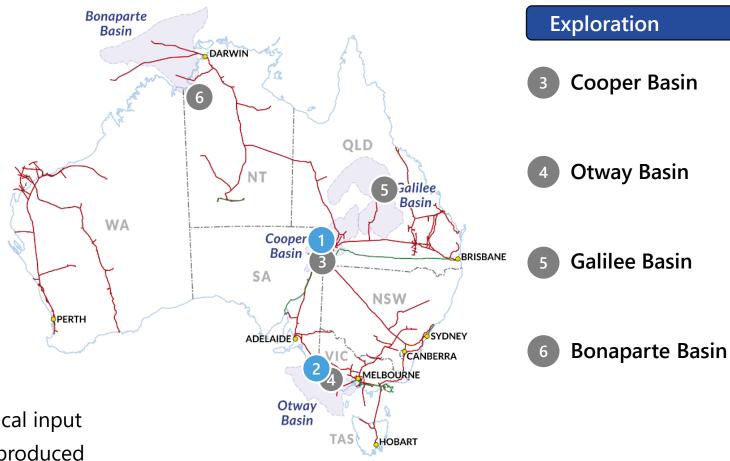
#### Reserves & resources

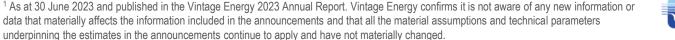
- 49 PJ 2P sales gas and ethane<sup>1</sup>
- 19 PJ 2C Contingent Resource<sup>1</sup>

### Nangwarry gas resource

#### **Engaging with industry players**

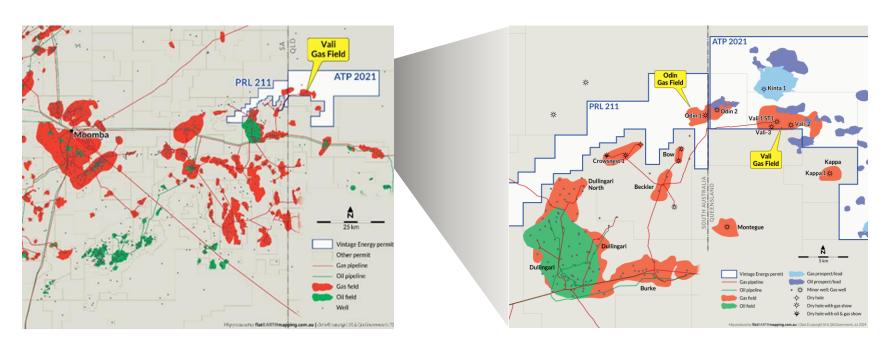
- High quality CO<sub>2</sub> resource
- Emerging market opportunity for critical input
- Analogous to nearby Caroline which produced CO<sub>2</sub> for 49 years





# Vintage operations in the Southern Flank

Established production via pipeline connection to Moomba processing plant



#### **Overview**

- Vintage facilities connected to SACB network and Moomba processing plant
- Vintage-operated gas production from Vali and Odin discoveries processed at Moomba
- Santos-operated gas production from Bow- Beckler
- LTI-free safety performance

#### PRL 211/ ATP 2021 (50% interest and Operator)

- Vali and Odin gas discoveries, 2020 & 2021
- Connected 2023
- Undergoing appraisal via production with long term gas supply contracts

#### **Gas Supply Contracts**

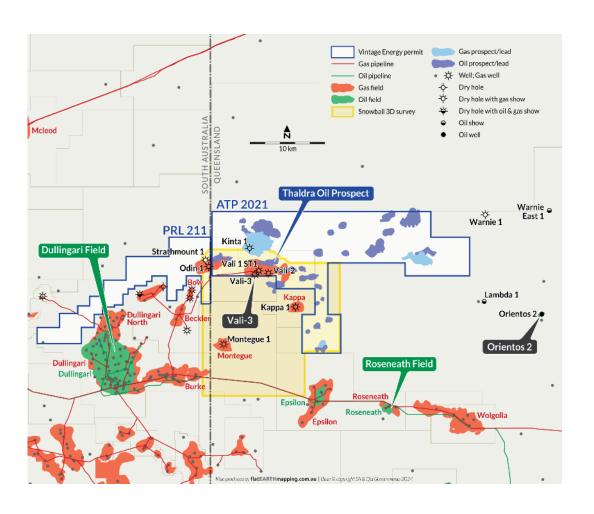






# **Oil opportunity in Southern Flank**

Drill ready targets, good oil shows at Vali and over 20 closures mapped in ATP 2021



- Highly prospective area for oil
- ~11 MMbbls of oil production at Dullingari
- Oil production from the Roseneath field to the south
- Oil recovery from well to east (Orientos-2 C&S), drilled on 2D seismic
- Vali-3 had good oil shows with associated background gas despite lack of closure at Jurassic/Cretaceous level
- Over 20 closures in ATP 2021
- The Thaldra Prospect is mapped on Snowball 3D seismic, drill-ready and economically attractive



# **Odin gas field**

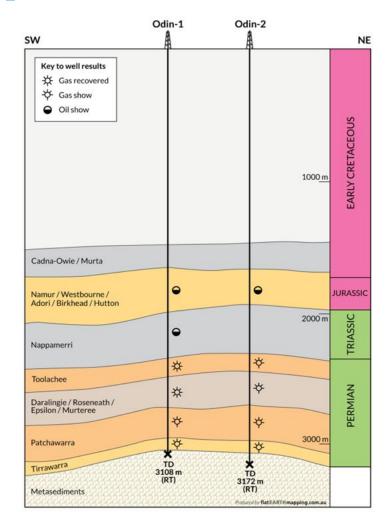
### Connected to Moomba infrastructure, appraisal production supplying Pelican Point Power

#### **Overview**

- 2C gas: 39 PJ (gross; Vintage share ~19 PJ) <sup>1</sup>
- Connected to Moomba via Vali-Beckler pipeline
- Contracted to supply gas to Pelican Point Power from start-up to Dec 2026
- Odin-1 commenced production September 2023 from Epsilon and Toolachee Formations
- Odin-2 successful appraisal well June 2024

#### Status & outlook

- Odin –1
  - producing at 1.4 MMscf/d raw gas<sup>2</sup>
  - subsequently offline pending restoration of road access following rainfall
  - Patchawarra section to be opened and production optimisation work undertaken
- Odin-2 to be brought online Q3 CY 2024
- Odin-2 to produce from Toolachee, Epsilon and Patchawarra formations







# Vali gas field

### Vintage operated. Appraisal by production. Supplying gas to AGL.

#### Overview

- Total 2P sales gas and ethane reserves 97.4 PJ<sup>1</sup> (gross; Vintage share 48.7 PJ)
- 3 wells completed, connected to Moomba gathering system at Beckler
- Commenced supply from Vali-1 in Feb 2023
- Gas processed and sold ex-Moomba
- Contracted to supply all production to AGL in period to Dec 2026 (buyer can extend 12 months)
- Appraisal production guiding preparation of full field development plan

#### Status & outlook

- Latest production of 1.1 MMscf/d<sup>2</sup> raw gas
- Vali-1 and facility performing to plan; facility recorded 99.4% availability (excludes 3<sup>rd</sup> party shutdowns)<sup>3</sup>
- Vali-2 shut-in pending opening of actuation of sliding sleeve to add flow from Toolachee, Epsilon to Patchawarra production
- Vali-3 shut-in pending analysis and JV consideration of remedial program

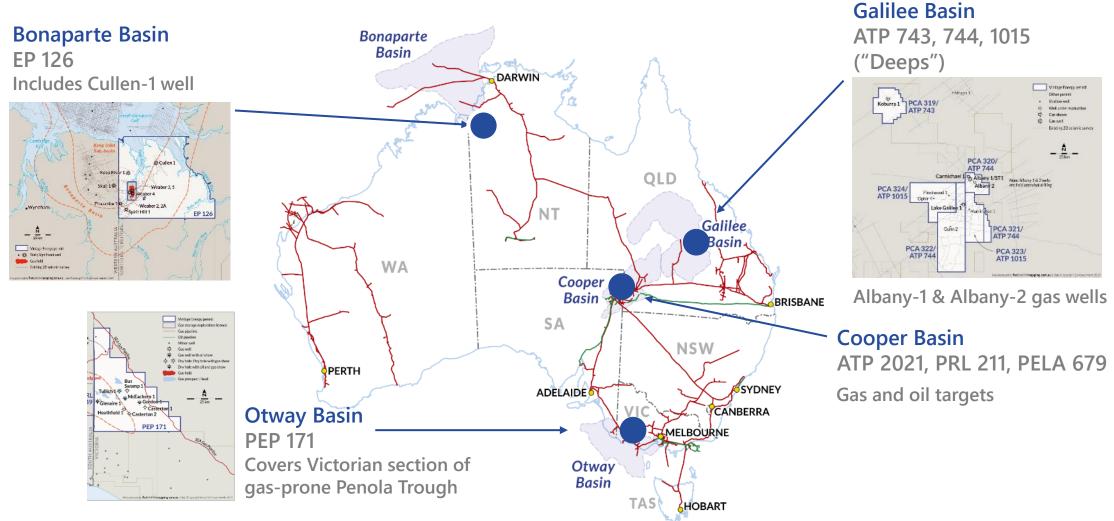




<sup>1</sup> As reported in the Vintage Energy 2023 Annual Report. Vintage Energy confirms it is not aware of any new information or data that materially affects the information included in the announcements and that all the material assumptions and technical parameters underpinning the estimates in the announcements continue to apply and have not materially changed.

# **Exploration**

Portfolio features a mix of proven gas producing provinces with high potential frontier acreage



# **Nangwarry CO<sub>2</sub>**

### Resource size and quality capable of supporting multi-decade commercial CO<sub>2</sub> supply

# Nangwarry (Vintage 50%, Lakes Blue Energy 50% and operator)

- CO<sub>2</sub> resource independently assessed as 25.9 Bcf (gross joint venture; Vintage share 12.9 Bcf)
- Successful well test<sup>1</sup> flowed CO<sub>2</sub> at stabilised rate of 10.5-10.8 MMscfd over a 36-hour period through a 48/64" choke with double that rate measured over shorter periods
- High quality composition (~93% CO<sub>2</sub> ~6% methane) makes excellent feedstock for food-grade CO<sub>2</sub> plant
- Analogous to nearby Caroline-1 well which produced CO<sub>2</sub> for ~50 years



	Nang	warry CO	<sub>2</sub> discovery	(Gross joint	venture )²	
	CO <sub>2</sub> Sales Gas (Bcf)			Unrisked hydrocarbon Contingent Resources (Bcf)		
	Low	Best	High	1C	2C	3C
Pretty Hill Sandstone	9.0	25.9	64.4	0.5	1.6	4.1
	Na	ingwarry	CO <sub>2</sub> discov	ery (net to V	intage) <sup>2</sup>	
	CO <sub>2</sub> Sales Gas (Bcf)			Unrisked hydrocarbon Contingent Resources (Bcf)		
	Low	Best	High	1C	2C	3C
Pretty Hill Sandstone	4.5	12.9	32.2	0.3	0.8	2.0



<sup>1</sup> Refer ASX release dated 12 July 2021

<sup>2</sup> Refer ASX release dated 31 August 2020

# Food-grade carbon dioxide market

An essential input where supply is structurally challenged

#### The market

- Food-grade and industrial-grade CO<sub>2</sub> is a broadly- sought essential input
  - food and beverage manufacture
  - chemical manufacturing
  - medical equipment
  - healthcare
  - transport
  - horticulture
  - fire suppression
- Australian consumption est 320K 500k tonne pa
- Impact of shortages apparent in other economies including UK and New Zealand



















#### Supply

- Natural supply accounts for less than 10% of Australian CO<sub>2</sub> production capacity
- Chem, industrial, refinery and power gen account for ~ 70% of production
- Diminishing carbon intensity is reducing availability of food grade CO<sub>2</sub>
- Looming shortage in South Australia with retirement of gas fired power generation units in 2025

#### Nangwarry suitability

- Nangwarry CO<sub>2</sub> resource represents supply of > 1.4 million tonnes of CO<sub>2</sub>
- Flow rates comfortably accommodate a 180t/day plant
- High quality/low impurity levels
- Potential field life exceeding 20 years



Refer to ASX release dated 31 August 2020

### **Gas and contracts**

### Revenue generation in appraisal production through long term contracts

Vintage share

19.15

Proved and probable <sup>1</sup> gas: Vali			
Sales gas <sup>2</sup> PJ	Joint venture	Vintage share	
Contracted: base	9	4.5	
Contracted: upside	7	3.5	
Uncontracted <sup>3</sup>	81	41	
Total <sup>3</sup> 97 49			
Contingent Resource <sup>1:</sup> Odin 2C			

Joint venture

39.7

Vali GSA with AGL (negotiated 2021)		
Term:	Feb 23 – Dec 26	
Estimated Volume:	9 – 16 PJ (gross) 4.5 – 8 PJ (Vintage share)	
Features:	Multi tranche price including CPI indexation \$15m pre-payment to JV	

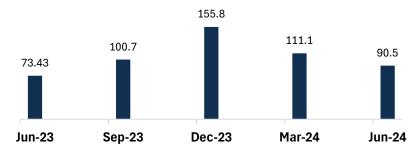
Odin GSA with Engie/Pelican Point Power (negotiated 2023)		
Term:	Sept 23 to Dec 26	
Volume:	As produced	
Features:		

#### **Quarterly gas production**

TJ, Vintage share

Sales gas PJ

Sales gas PJ





<sup>&</sup>lt;sup>1</sup> Reported in the Vintage Energy 2023 Annual Report





<sup>&</sup>lt;sup>2</sup> Includes ethane

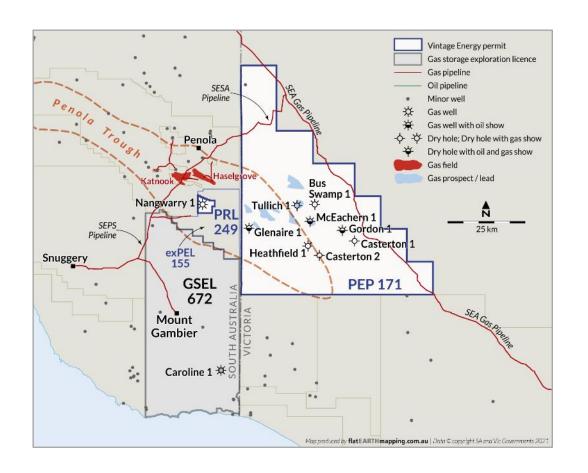
<sup>&</sup>lt;sup>3</sup> Rounded. As a result, totals displayed may differ from arithmetic calculation of figures displayed

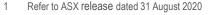
# **Otway Basin**

### Nangwarry-1 CO<sub>2</sub> discovery and lightly explored gas prospective acreage in the Penola Trough

#### **PEP 171**

- Victorian flank of Penola Trough, reopened for exploration July 2021
- 5-year permit term
- Prospective for gas, as shown by South Australian Penola Trough production
- Preparing for 3D seismic acquisition in the future



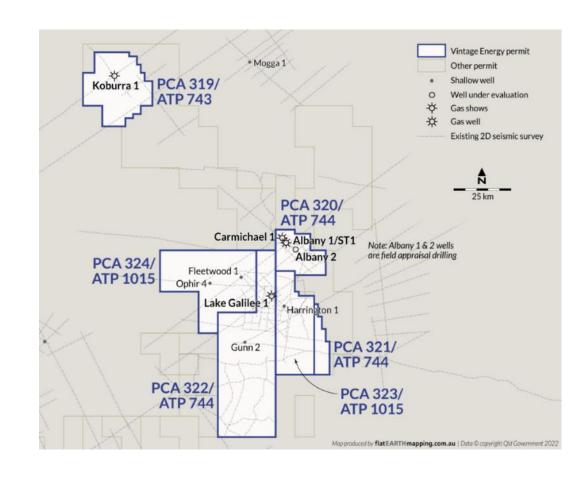




### **Galilee Basin**

PCA's 319 – 324 ("Deeps") (Vintage 30%, Comet Ridge Ltd ("Comet") 70% and operator)

- 15-year Potential Commercial Areas (PCA's) awarded Sept '22 in lightly explored gas province, in proximity to market and proposed Galilee-Moranbah pipeline
- Vintage farmed-in to the 'Deeps' sandstone reservoir sequence of ATP 744, ATP 743 & ATP 1015 (all strata commencing underneath the Permian coals (Betts Creek Beds or Aramac coals) with the main target being the Galilee Sandstone sequence)
- Albany-1 produced the first ever measurable gas flow from the Galilee Basin of 0.23 MMscfd, unstimulated
- Albany-2 an appraisal intersecting multiple sands of the Lake Galilee Sandstone Reservoir
- Stimulation and flow testing of wells partly completed but interrupted by wet season and Covid pandemic
- Activities suspended in advance of application for PCA's
- Vintage to work with the operator in preparation of objectives and activities plan

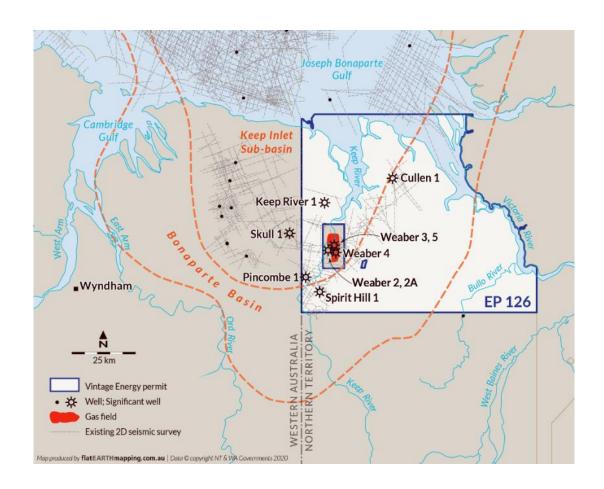




### **Bonaparte Basin**

EP 126 (Vintage Energy 100%)

- Potential in multiple play types
- Acquired for nil consideration and acceptance of P&A of Cullen-1 if required (recognised on balance sheet)
- On-site work suspended pending resolution of discussions with the Northern Territory Government in relation to the declaration of approximately 50% of the permit, including the Cullen-1 well site, as a 'Reserved Area'





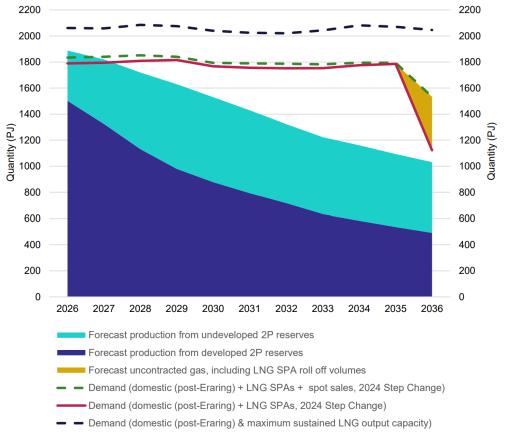
# Southern state gas market fundamentals

Gas prices are attractive and supply shortfalls are forecast to grow

#### Gas commodity prices for 2025 supply to Eastern Australia<sup>1</sup>



# Eastern Australia gas demand & forecast supply from 2P reserves 2026 - 2036<sup>1</sup>





# Vintage Energy – Galilee Energy Merger proposal



# **Key details**

### Board commitment to Heads of Agreement on merger of Vintage Energy and Galilee Energy

	<ul> <li>Heads of Agreement (HoA) for merger through Vintage acquisition of 100% of Galilee shares on issue post capital raising announced by Galilee 15 August 2024 "capital raising"</li> </ul>		
Proposed Transaction	<ul> <li>Implementation subject to conditions including Galilee raising at least \$2.5 million from capital raising; court and shareholder approval etc</li> </ul>		
	<ul> <li>Galilee shareholders to receive two fully paid ordinary shares in Vintage for every one fully paid ordinary Galilee share held on the Scheme record date</li> </ul>		
	<ul> <li>Implied share price for Galilee of \$0.02 based on Vintage close of \$0.01 on 12 August 2024 (the last day both companies traded on the ASX prior to Galilee entry to trading halt)</li> </ul>		
	- 5% premium to the last close share price of Galilee of \$0.019 (as at 12 August 2024);		
	- 6.6% discount based on Galilee's 10-day VWAP to 12 August 2024 of \$0.0196 compared to Vintage's 10-day VWAP to 12 August 2024 of \$0.00915		
	- 12% discount based on Galilee's 30-day VWAP of \$0.0215 to 12 August 2024 compared to Vintage's 30 -day VWAP to 12 August 2024 of \$0.00946		
	Vintage shares last close before this announcement 14 August at \$0.009		
	Scheme of Arrangement documents to be prepared and agreed for Galilee shareholder consideration and approval		
Implementation	Galilee to commission an Independent Expert's Report on whether the Scheme is in the best interests of Galilee shareholders		
Implementation	<ul> <li>Approval and implementation of the Scheme will see creation of a merged group whereby Vintage shareholders hold approximately 60.2% and Galilee shareholders 39.8%</li> </ul>		
	Merged group board to comprise 4 persons (previously 4 pax for each of Vintage and Galilee); 2 from Vintage and 2 from Galilee		
Board &	Consolidation of 2 offices into single office, located in Adelaide		
corporate office	Minimal increase in staff headcount		
Board intention	The Galilee board unanimously recommends, and the Vintage board unanimously supports, the proposal in the absence of a superior proposal and subject to being satisfied with its due diligence enquiries and an independent expert concluding (and continuing to conclude) that the scheme of arrangement is in the best interests of Galilee shareholders		



# **Merger rationale**

Complementary resource base, project maturities. Stronger financial, cost base to prosecute projects.

Gas	<ul> <li>✓ More gas</li> <li>✓ Enhanced 2P/2C</li> <li>✓ Current supply contracts</li> <li>✓ Current and long-term value</li> </ul>	<ul> <li>Merged entity to possess ~50 PJ 2P gas reserves; ~2,600 2C Contingent Resource<sup>1</sup></li> <li>Galilee holders gain exposure to producing 2P reserves ~50 PJ<sup>1</sup>, supplying gas under long term contracts</li> <li>Vintage shareholders gain exposure to large unconventional ~2,500 PJ<sup>1</sup>2C Glenaras gas resource, enhancing resource longevity</li> <li>Matches current revenue and value opportunities with longer term potential in huge CSG resource</li> </ul>
Financial	<ul> <li>✓ Stronger balance sheet</li> <li>✓ Improved capacity to mature long-term projects</li> <li>✓ Cost economies</li> </ul>	<ul> <li>Better resourced to progress production and revenue build from Odin and Vali appraisal from FY25-on</li> <li>Stronger financial position and addition of existing production and cash generation has merged company better placed for long term maturation of Glenaras gas resource</li> <li>Cost economies through consolidation of corporate offices with minimal increase in headcount</li> </ul>
Portfolio	<ul> <li>✓ Coverage of east coast on-shore gas producing regions</li> <li>✓ Complementary holdings</li> <li>✓ Maturity profile</li> <li>✓ Gas and oil</li> </ul>	<ul> <li>Merged group acreage portfolio covers most Australian onshore sedimentary basins currently producing or expected to supply gas to eastern Australia</li> <li>Complementary project maturities across existing Cooper Basin production to large Queensland unconventional and Nangwarry CO<sub>2</sub></li> <li>Complementary licence holdings, economies in Galilee Basin</li> <li>Improved diversity across basins and gas, oil &amp; food grade CO<sub>2</sub></li> </ul>
Platform	<ul><li>✓ Investor appeal</li><li>✓ Future consolidation</li></ul>	<ul> <li>Financial scale and asset portfolio expected to hold greater appeal for investors</li> <li>Better placed for consolidation opportunities which typically emerge in oil and gas</li> </ul>



# Merger proposal

### A stronger better resourced company for near-term and long-term gas supply to eastern Australia

### What's proposed:

- Heads of Agreement signed by the boards of directors of Galilee and Vintage for merger
- Merger to be effected through all-scrip acquisition of Galilee by Vintage
- Merger is subject to conditions including approval of Galilee shareholders
- Scheme meeting documents and Independent Expert's report to be prepared ASAP for shareholder consideration
- Board of 4 directors, 2 from each company

### What's the expected outcome:

- A company possessing more gas, and with reserves and resources to supply current contracts and long-term supply opportunities
- Marriage of current /near term value drivers in Cooper Basin gas and oil with long term potential of substantial Galilee Basin CSG resource
- A stronger balance sheet and liquidity to progress current production and cash generating projects as a priority
- Improved cost structure for the resource and reserve base
- A broader acreage portfolio covering most eastern sedimentary basins supplying gas or expected to supply gas to eastern Australia
- Improved investor appeal and a better platform to participate in industry consolidation

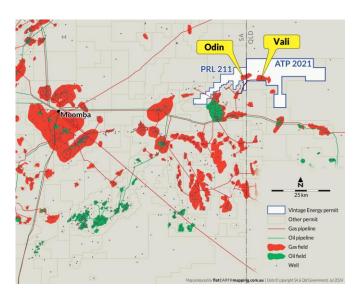


# **Key gas assets**

Merger portfolio to hold currently producing reserves with long term potential

#### **Odin & Vali gas projects**

**Currently producing and supplying gas** 

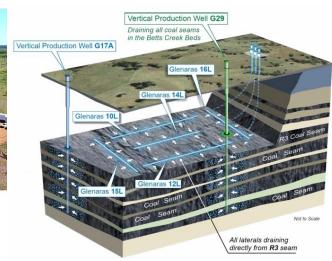


- Lightly explored southern flank Nappamerri Trough
- ~50 PJ 2P at Vali plus ~19 PJ 2C at Odin net to Vintage<sup>1</sup>
- Appraisal production, pipeline connection to Moomba
- Gas supply contracts to AGL & ENGIE under contracts negotiated 2021 & 2023

### **Glenaras gas project**

Multi-TCF CSG Resource, ideally located for local and LNG markets





- 2C Contingent Resource 2,508 PJ, independently certified<sup>2</sup> with undeniable relevance and potential for east coast gas needs
- Pilot project comprising 17 wells drilled across 5 years
- Currently in care and maintenance, pending ongoing technical analysis
- Sustainable, integrated gas and agriculture business model supported by good local relations
- Non-binding MoU with APA for pipeline linkage to Southwest Queensland Pipeline
- Emerging gas supply crisis provides supports low-cost view and reset





<sup>&</sup>lt;sup>1</sup> Reported in the Vintage Energy 2023 Annual Report

<sup>&</sup>lt;sup>2</sup> As reported in the Galilee Energy 2023 Annual Report

# **Glossary**

\$	Australian dollars	GJ	Gigajoule (1 GJ is equivalent to 1x10 <sup>9</sup> joules)
1C	Contingent resource low estimate <sup>1</sup>	JV	Joint Venture
2C	Contingent resource medium estimate <sup>1</sup>	Km²	Square kilometres
3C	Contingent resource high estimate <sup>1</sup>	Km	Kilometre
2D	Two dimensional	LNG	Liquefied Natural Gas
3D	Three dimensional	MD	Measured Depth
1P	Proved reserve estimate <sup>1</sup>	MMbbl	Million barrels
2P	Proved and probable reserve estimate <sup>1</sup>	MMscfd	Million standard cubic feet per day
3P	Proved, probable and possible reserve estimate <sup>1</sup>	PACE	South Australian Plan for Accelerating Exploration gas grant scheme
ATP	Authority to Prospect (QLD)	PEL	Petroleum Exploration Licence (SA)
bbl	barrels	PJ	Petajoule (1 PJ is equivalent to 1x10 <sup>6</sup> GJ)
Bcf	Billion cubic feet	SPE-PRMS	See footnote 2
CY/FY	Calendar year/Financial year	TD	Total Depth
GG&E	Geological, Geophysical and Engineering studies	TJ	Terajoules (1 TJ is equivalent to 1x10 <sup>3</sup> GJ)

<sup>1</sup> Refer to "Guidelines for Application of the Petroleum Resources Management System" June 2018 (SPE PRMS) for complete definitions of Reserves and Contingent Resources.

2. Petroleum Resources Management System document, including its Appendix Sponsored by: Society of Petroleum Engineers (SPE) American Association of Petroleum Geologists (AAPG) World Petroleum Council (WPC)Society of Petroleum Evaluation Engineers (SPEE)

