



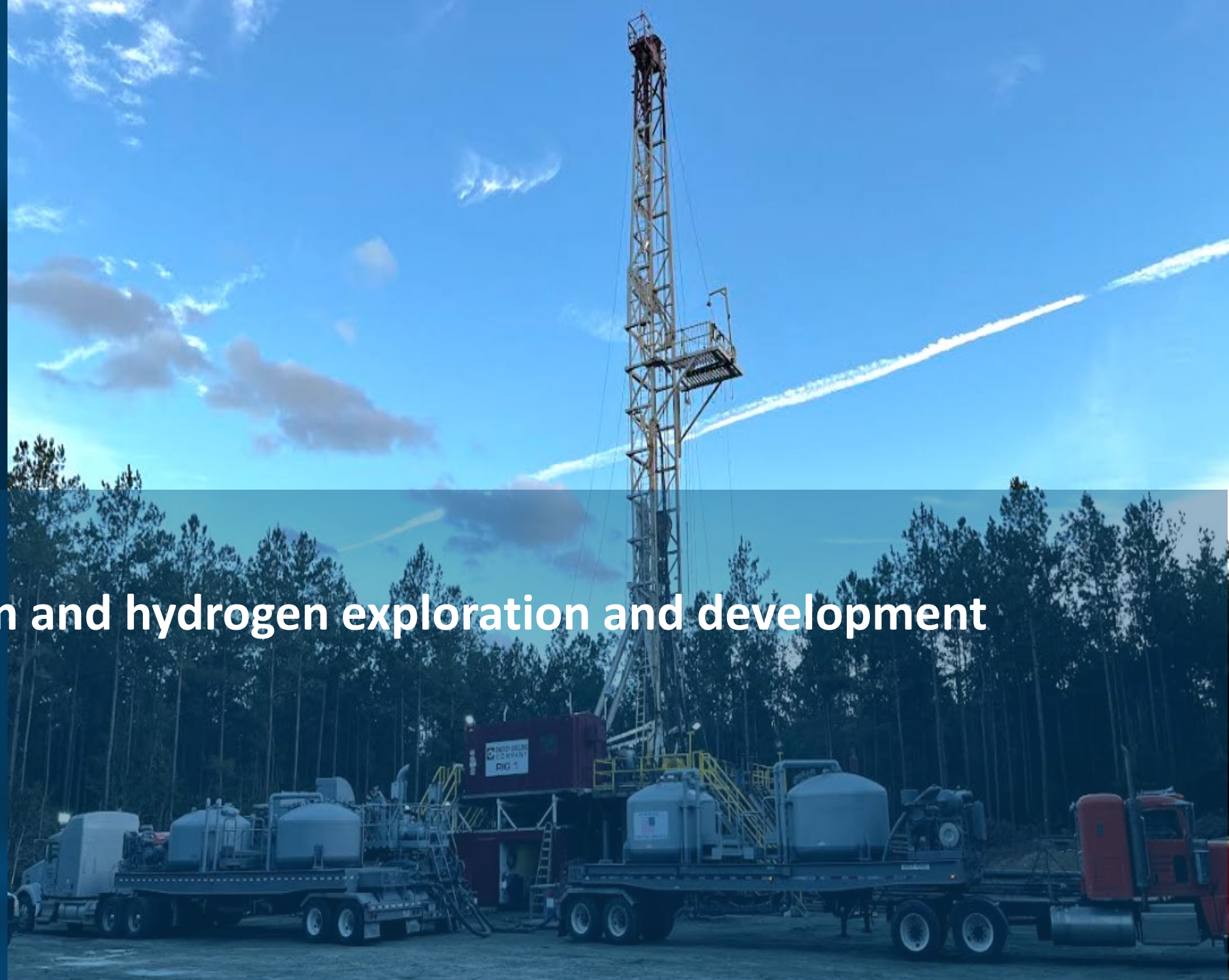
MOSMAN OIL AND GAS
LIMITED

AIM: MSMN

Hydrocarbon, helium and hydrogen exploration and development

Corporate Presentation

November 2023





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Cash flow from producing assets in USA

Development potential of assets in USA and Australia

USA

FY23



31,067 boe

pa production

1.6 million boe

Proved plus Probable Reserves
(gross, Mosman 75% WI)

AUSTRALIA

Exploration for Hydrogen, Helium, Oil and Gas

EP 145 Prospective Resource:

440

Bcf*

total Gas
includes

26

Bcf Helium
and

26

Bcf
Hydrogen

* Prospective Resource with Best Estimate per SPE PRMS of 400 Billion cubic feet (BCF) Total Gas



Highly Experienced Board



Andy Carroll
Chief Executive Officer
and Executive Director

- Extensive Board and management experience in energy sector in the UK, Canada PNG and Australia.
- Particular expertise in oil and gas, taking companies from permit applications and initial exploration operations, through to development, production and marketing.



Nigel Harvey
Chairman and Non-
Executive Director

- Nigel is an experienced Director who also chairs a not for profit organisation.
- He began his career as a business and finance journalist in London and the Middle East, before becoming an investment banker in Sydney for several decades primarily covering the Asia Pacific region for energy derivatives.



Carl Dumbrell
Non-Executive Director

- A partner in a Sydney accounting firm with 20 year experience in taxation and assurance services in Australia and England.
- On-going involvement in the raising of finance and the divestment of assets for listed companies.
- Director and Company Secretary of Emperor Energy Limited, and Chairman of the Kennedy Foundation.



USA

Production and Development

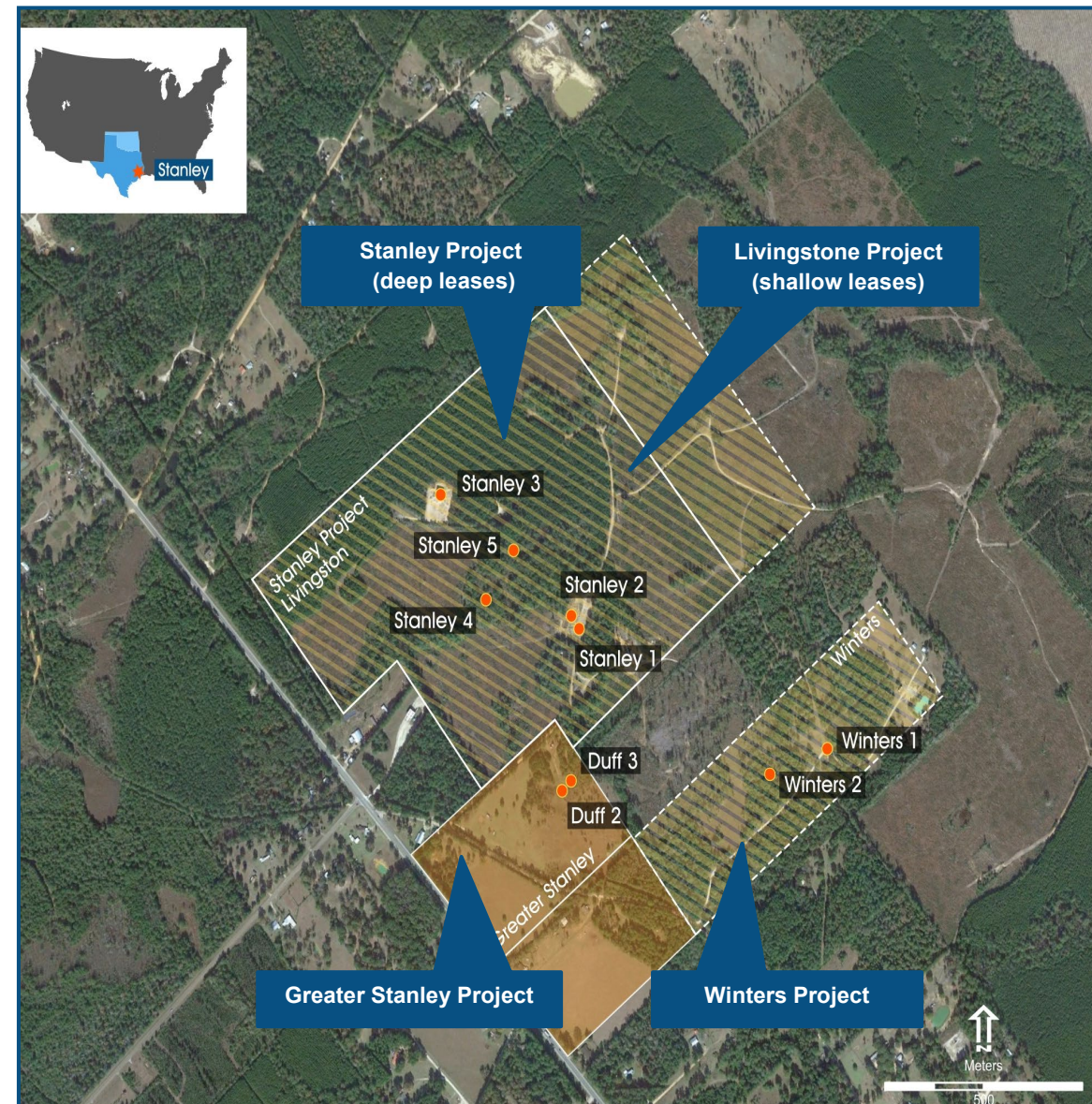




USA Project Summary



PRODUCING		
Project	Location	Approx. Working Interest
Cinnabar	Texas	75%
Stanley (various wells)	Texas	34.85% to 38.5%
Livingston	Texas	20%
Winters	Texas	23-29%
Greater Stanley	Texas	40%
Arkoma Stacked Pay	Oklahoma	27%





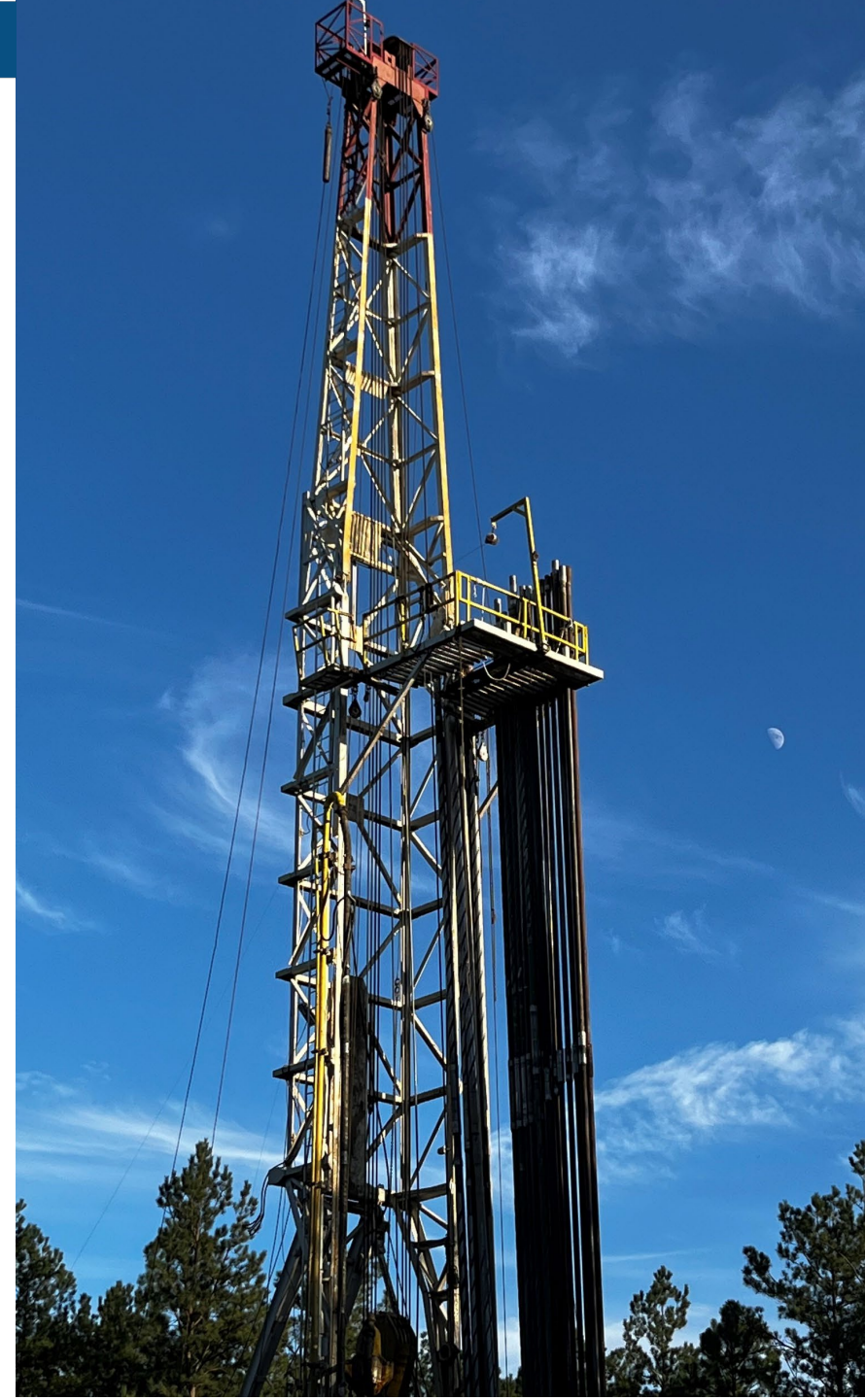
Recent Value Adding Activities

Cinnabar (75% WI)

- Two old wells producing since 1980s. Geological model updated with 3D seismic indicates significant redevelopment potential.
- Cinnabar-1 successfully drilled and on production.
- Reserves re-calculated and increased following drilling. Remaining Proved and Probable Reserves (gross) 1.6 million boe
- Gas infrastructure installed.
- Wells worked over to increase production. Production (intermittent) from 3 wells
- Additional lease areas acquired

Stanley (34.85% to 38.5% WI)

- Gas infrastructure completed which enabled gas sales and increase in oil production from several wells.
- Extensive workovers and installation of jet pumps led to increased production.





USA

Cinnabar Summary



Status

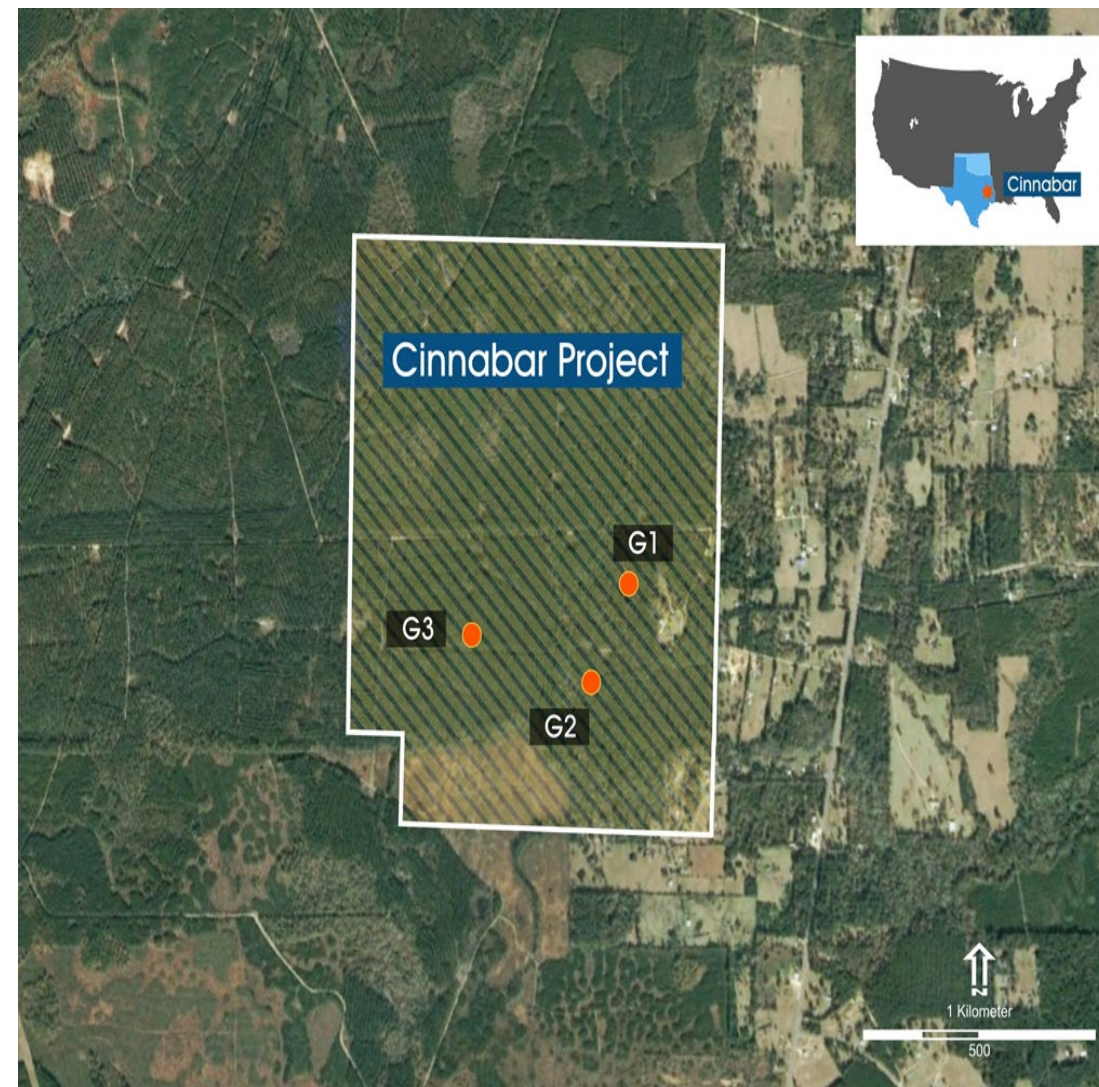
- 75% WI and Operator
- Lease has production track record
- Updated geological mapping optimised location of new well (Cinnabar-1 “G3”).
- G3 well was drilled and placed on production. Production (intermittent) from 3 wells

Reserves

- A Reserve Report (2017) indicated total Proved plus Probable Reserves (100% working interest, net of royalties) of 849,000 boe.
- With positive results from G3, Reserves Report updated and Proved plus Probable Reserves (100% working interest, net of royalties) increased to 1.6 million boe.

Potential

- Work underway on the Development Plan including drilling the next well.





Australia

Exploration for Helium, Hydrogen, Hydrocarbons



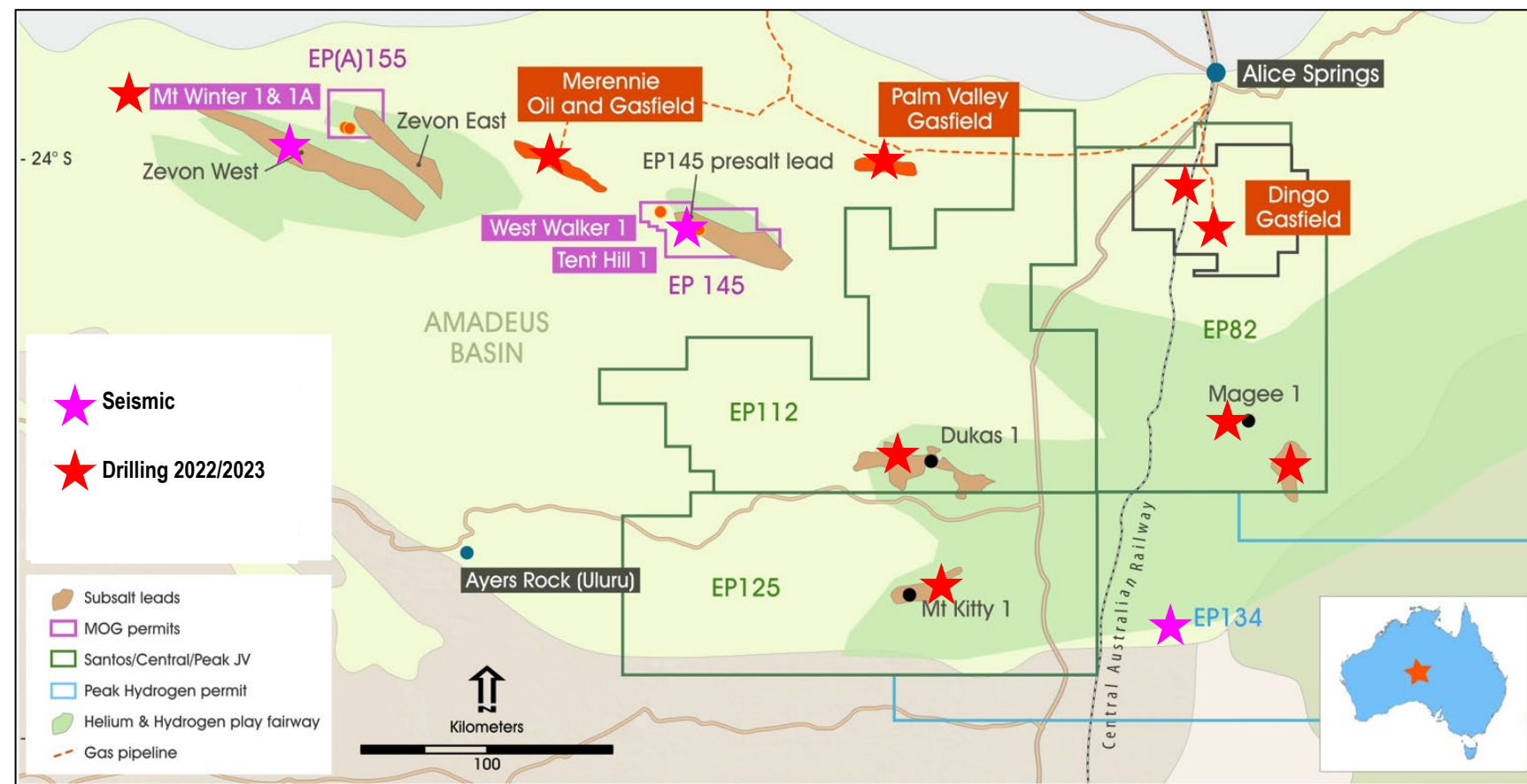


Australia

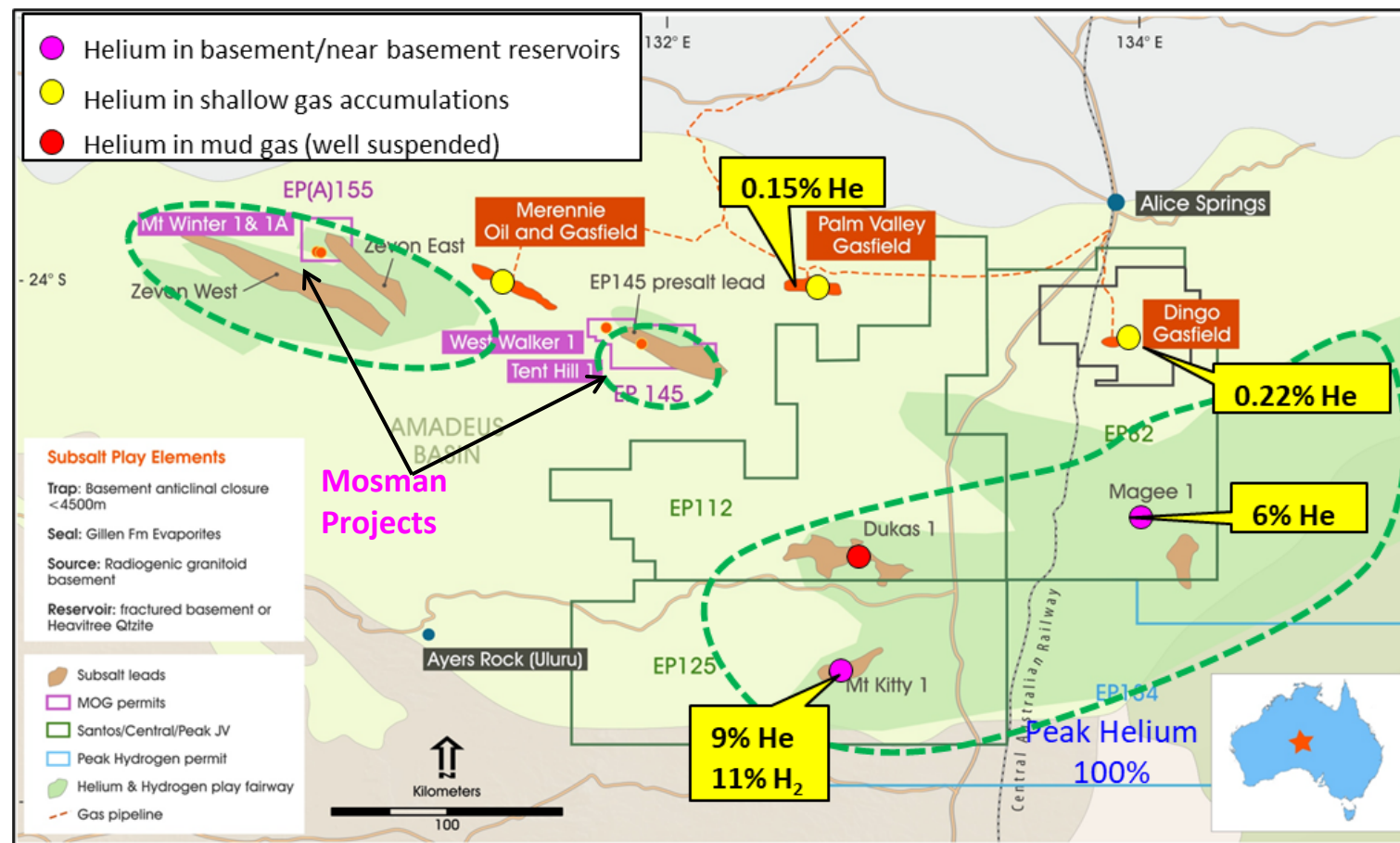
EP 145

EP(A) 155

Located in the Amadeus Basin in the Northern Territory, EP 145 and EP(A) 155 both contain wells that flow tested hydrocarbons and lie on trend with producing oil and gas fields



Helium and Hydrogen Prospectivity



Source: Modified from CTP, Annual Report 2021

- Amadeus Basin contains some of the highest concentrations of helium globally and confirmed presence of hydrogen accumulations.
- Only small percentages of helium required for economic success due to high prices and demand, current projects with <0.2% helium are commercially attractive.
- Targets identified in Mosman's projects have the prerequisite elements for helium and hydrogen prospectivity (source, seal, reservoir and trap) based on successful wells in the basin.



Australian Exploration Projects

Amadeus Basin



- EP 145 and EP(A) 155 both contain wells that flow tested hydrocarbons and lie on trend with producing oil and gas fields.
- Recent exploration activities have identified stacked targets from Ordovician to Proterozoic age indicating significant untested potential for hydrocarbons, helium and hydrogen in both permits which are producing hydrocarbons in the east of the basin (Dingo, Ooramina fields).
- Critical gas infrastructure in place linking the basin to markets on the north and east coast of Australia
- Significant recent investment in the Amadeus Basin through permit acquisition and farm-in deals.
- Significant activity in the area with deep wells planned for 2024 by the Santos/Central Petroleum JV targeting helium, hydrogen and hydrocarbons.
- Helium extraction plant proposal announced by Central Petroleum



EP 145

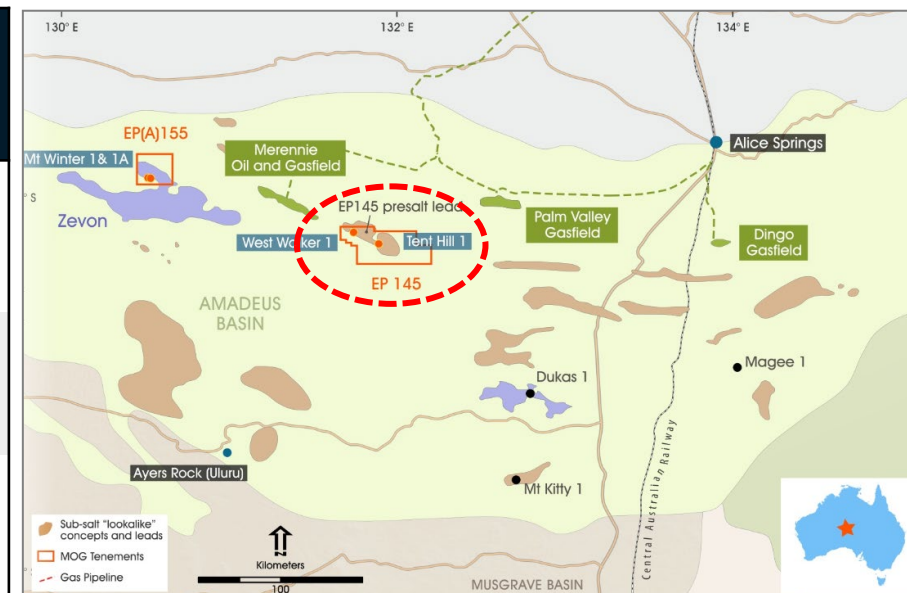
Farmin with Greenvale

Prospective Resources (Bcf)	Low Estimate	Best Estimate	High Estimate
Total Gas	12	440	2, 290
Helium	0.3	26.4	229
Hydrogen	0.24	26.4	275

Source: Mosman Oil and Gas Ltd, October 2022

- Estimated gross Prospective Resource volumes for hydrocarbons, helium, and hydrogen associated with the Walker Creek Anticline lead within the boundaries of EP 145 using a deterministic approach and applying the SPE PRMS* standard.
- The area of closure is based on new technical interpretation of the basement and overlying stratigraphy by Geognostics, an independent expert.
- Reservoir quality and gas parameters are based on local and regional well and petrophysical data

* The Society of Petroleum Engineers - Petroleum Resources Management System



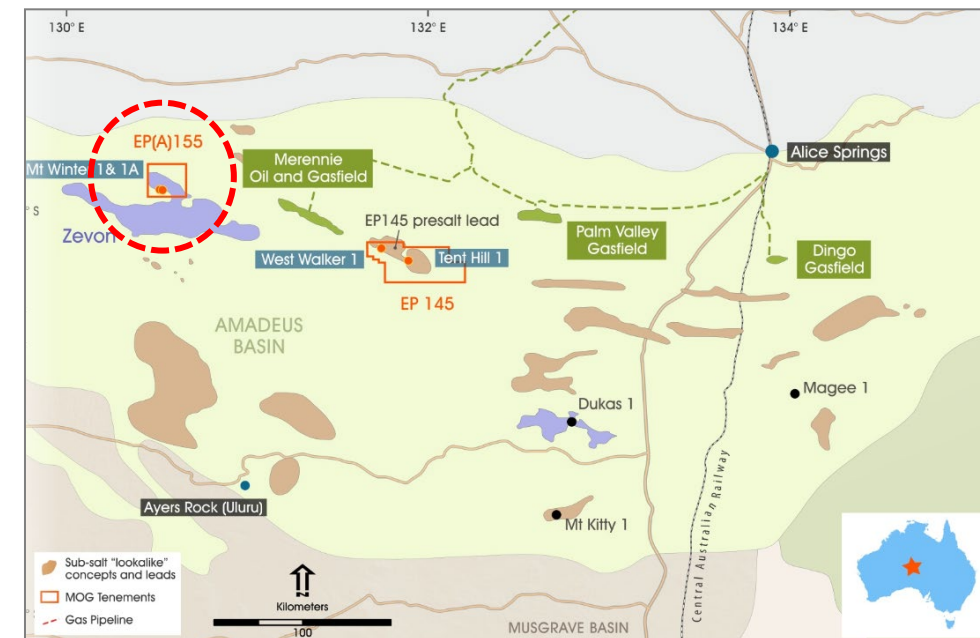
Oct 2023 - Farmin agreement with Greenvale Gold Pty Ltd a wholly owned subsidiary of Greenvale Energy Ltd (ASX:GRV) to fund seismic and drilling

Subject to Completion (including government approval) Mosman will retain a 25% working interest in EP 145 and Greenvale will earn a 75% working interest



EP(A) 155 Prospective Resources

Net Attributable Prospective (Recoverable) Resources 3,400 Acres Based on CPR 2U Calculations	
Natural Gas (TCFG)	0.91
Helium (BCFG)	111
Hydrogen (BCFG)	102



Source: Georgina Energy

Farmin Agreement in place (that may be terminated in certain circumstances)

Current activity is negotiating land access with Central Land Council, which is required for the permit to be granted by NT government

“With seismically defined closure based on CPR 2U calculations of 3,400 acres, net attributable Prospective (recoverable) Resource volumes to the Company of Helium are 111 BCFG, Hydrogen 102 BCFG and natural gas 0.91 TCFG with respective in-situ values of US \$38.51 billion, US \$0.62 billion and US \$2.72 billion.”

Quote from Georgina energy web page and is not a Mosman verified comment



Outlook

Business Model

- Increase cash flow in the USA
- High potential exploration for Hydrocarbon, Helium & Hydrogen in Australia.
- Right size management structure of experienced people across multiple disciplines, no full time staff, minimizing overheads

Progress

- Optimising production in USA, acquired additional acreage
- Development opportunities identified.
- Exploration activity in Australia funded by Farmin Agreements



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AIM: MSMN

Thank you





Capital Structure



Capital Structure	
AIM TICKER	MSMN
Shares	7.81 billion
Warrants	
	687,500,000 GBP 0.0016 (May 2024)
	571,428,571 GBP 0.0015 (November 2024)
	30,000,000 GBP 0.00055 (April 2024)
	428,571,428 GBP 0.0007 (July 2025)

