

Quarterly Report

1 January to 31 March 2025



Lion progresses EPC and marketing activity at Port of Brisbane project & farm-out at East Seram PSC

Lion Energy Limited ("Lion" or "Company") reports progress in green hydrogen and oil and gas in 1Q 2025.

Highlights include:

- In February 2025, Lion hosted the inaugural Port of Brisbane (PoB) Hydrogen Information Day. The event was attended by other PoB industrial tenants focused on transport and logistics.
- Ongoing EPC (Engineering, Procurement and Construction) contract negotiations with potential contractors for the construction of the green hydrogen PoB facility.
- Key hydrogen offtake discussions await short listing EPC candidate.
- Work on the shallow oil prospectivity and engineering planning in East Seram PSC focused on producing early cash flow with the attractive PP9 Prospect high-graded.
- Engagement with several East Seram PSC farm-in parties continues during the quarter.
- During the quarter, gross crude oil production from Oseil and surrounding oilfields in the Seram (Non-Bula) PSC (Lion 2.5%) was 70,505 bbls (Lion's gross share 1,763 bbls). Daily production averaged 783 bopd (Lion's gross interest being 20 bopd).

Mr Tom Soulsby, Lion's Chairman, commented: *"The partners are in the process of obtaining competitive EPC cost estimates for our PoB project, and offtake work is put on hold until this is finalised. We expanded our list of offtake candidates. In East Seram PSC work during the quarter has re-enforced the attractiveness of the shallow oil play providing options for early cash flow. Our drilling and partner funding efforts have now shifted to this play. We expect to make an announcement by Q3 on East Seram drilling"*

Lion at a glance

- ASX listed oil and gas E&P company with a new green hydrogen business and two conventional PSCs in Seram Island, Indonesia.
- Expected to build Southeast Queensland's first commercial scale green hydrogen production and distribution hub
- Net production of around 25bopd from the Seram PSC which also contains the Lofin gas/condensate discovery.

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Green hydrogen update

Lion Energy continues to ramp-up marketing activity for the Port of Brisbane (PoB) Green Hydrogen Project which has been designed to act as a blueprint for a network of future hydrogen supply facilities across eastern Australia.

In August 2024, Lion Energy introduced global industrial groups DGA Energy Solutions Australia Pty Ltd (a wholly owned subsidiary of Mitsubishi Corporation) and Samsung C&T as Joint Development partners in the PoB Green Hydrogen Project.

During the quarter, Lion Energy and partners hosted a Hydrogen Information Day at the Port of Brisbane. Guests observed demonstrations of hydrogen vehicles, trucks, forklifts and gensets which showcased the diverse applications for this zero-emission fuel. The information day was well attended by all major logistics, trucking and shipping tenants at the port and several government representatives.

Lion and its partners started the process of selecting EPC contractor to build the facility at PoB. Negotiations are ongoing and are expected to finalize during 2Q.



Figure 1: Hydrogen fuel cell vehicles on display at the PoB Information Day



Figure 2: Lion Energy Executive Chair Tom Soulsby presents at the PoB Information Day

Table 1: Lion's provisional green hydrogen roadmap vs response (as at end March, 2025)

Stated objective	Response
Stage 1	
Publish broad green hydrogen strategy	Completed
Register business name	Completed
Stage 2	
Establish team of hydrogen experts	Completed
Appoint experts to systematically analyse optimal electrolyser locations in Australia	Completed
Review the best value and fit for purpose solar, wind and electrolyser technologies	Completed
The review of opportunities in which Lion may be able to combine its expertise and resources with a suitable market and partner to progress a green hydrogen development using identified electrolyser locations and appropriate technologies	Joint venture secured
Expand the scope of the Advisory Board to review opportunities in H2 distribution and hydrogen fuel cells for heavy equipment and vehicles	Lion has developed inhouse and consulting expertise in this area. Hydrogen Advisory Board disbanded
Stage 3	
Appoint consultants to undertake a feasibility study to ascertain the economic viability of a short listed opportunity and the anticipated cost	Wasco FEED announced
Secure any required land rights conditional upon Lion proceeding with an opportunity	Completed and announced
Investigate investing in a pilot or demonstration plant including H2 distribution and hydrogen fuel cell heavy equipment and vehicles	Completed and announced
Stage 4	
Subject to a positive feasibility study, progress the opportunity by participating in the development of a smaller or larger solar/wind farm and relevant energy storage facilities to produce green hydrogen at low cost for domestic or export markets	Exploring opportunities at first site
Form a joint venture with a suitably experienced and funded partner	Secured and announced

Oil and Gas Operations update

East Seram PSC

Lion holds a 60% interest and is Operator of the 1,300 km² East Seram PSC. A four-year extension to the PSC has been approved effective 17 July 2024 to 16 July 2028.

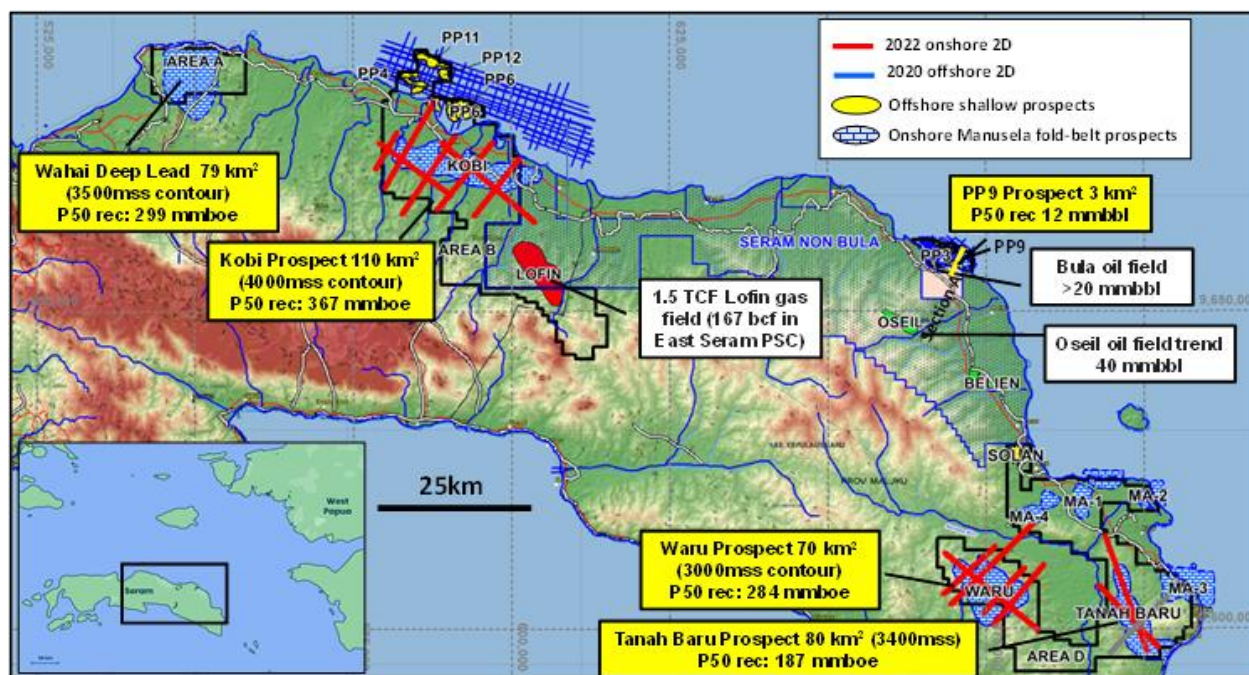


Figure 3: East Seram PSC with key prospects highlighted

Since acquiring the PSC in 2018, Lion has conducted an active exploration program. A 664 km offshore 2D survey targeting the Plio-Pleistocene foreland basin play in 2020 delineated an attractive shallow oil portfolio. Of significance, a well-defined reefal carbonate build-up, the PP9 Prospect, emerged from this seismic data. Well planning conducted during the Quarter has confirmed the prospect, which has a P50 (unrisked) prospective resource¹ of 12 mmbbl, can be drilled from onshore allowing rapid commercialization leveraging existing oil infrastructure on Seram Island.

From June 2022 to January 2023 Lion recorded 14 2D seismic lines totaling 200km and a 1,000 station gravity survey. Three exceptional prospects emerged from this onshore survey, Kobi, Waru and Tanah Baru. The 110 sq.km Kobi Prospect is a robust feature partly analogous to the nearby 1.5 TCF Lofin discovery. The P50 (unrisked) prospective resource¹ potential for Kobi is 357 mmbbl with upside (P10) potential over one billion boe.

Pre-stack depth migration (“PSDM”) processing of the new 2022 lines over the high-graded Kobi and Waru Prospects was delivered to Lion in early September 2024. Interpretation has resulted in a new recommended location for drilling the 110 km² Kobi Prospect which shows well-defined seismic structure and a clear gravity high.

Work is now focused on well planning activities for a planned early 2026 well targeting the shallow oil potential of the attractive PP9 carbonate reef prospect.

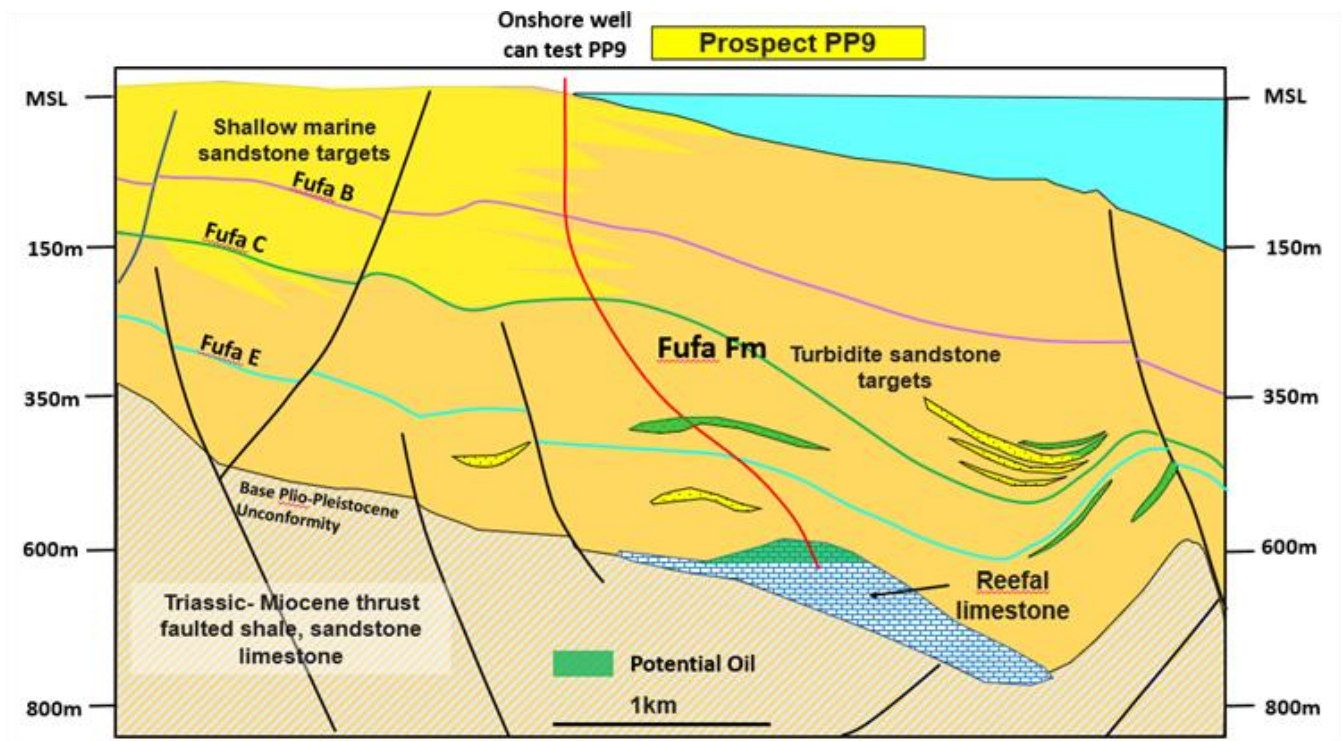


Figure 4: Section showing well plan to drill attractive PP9 Reef Prospect with onshore well deviated to test the offshore target

Seram (Non-Bula) PSC

Lion, via its wholly owned subsidiary Lion International Investment Ltd, holds a 2.5% participating interest in the Seram (Non-Bula) PSC ("SNB PSC"), located onshore Seram Island in eastern Indonesia.

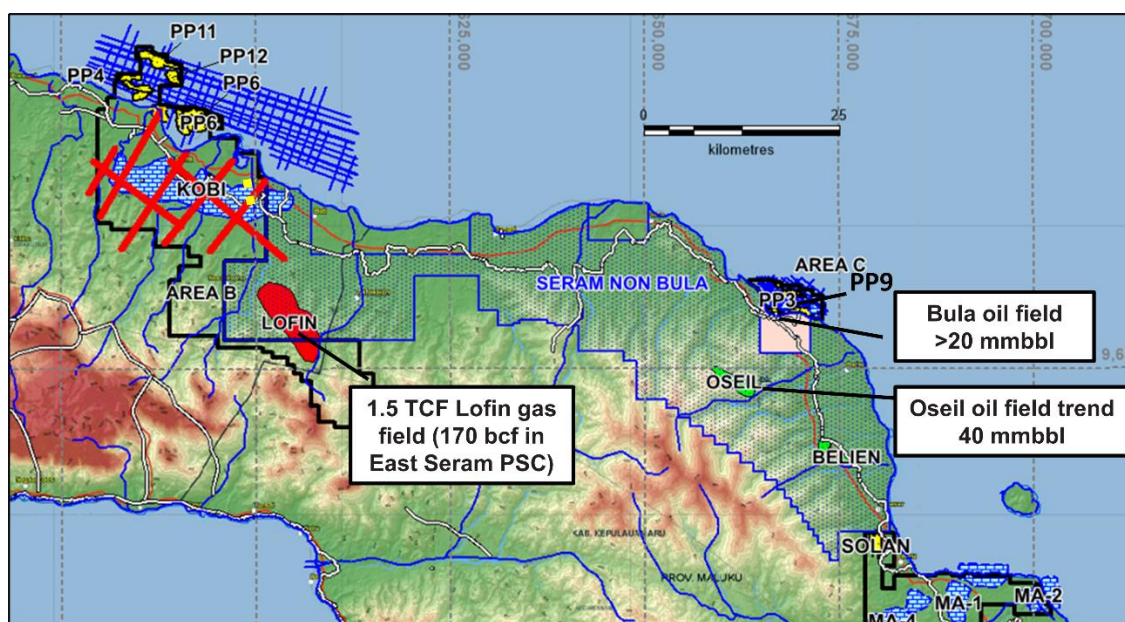


Figure 5: Map showing the location of the Seram (Non-Bula) PSC

Lion's regulatory required divestment of 0.25% interest in Seram (Non-Bula) PSC has still not been finalized with negotiations still in progress. At completion, Lion's participating interest in the Seram (Non-Bula) PSC will reduce to 2.25% from 2.5% currently.

Production

During the quarter, gross crude oil production from Oseil and surrounding oilfields was 70,505 bbls (Lion's gross share 1,763 bbls). Daily production averaged 783 bopd (Lion's gross interest being 20 bopd). Lion received lifting proceeds of US\$167,548 in Jan 2025, this being Lion's 70% entitlement from the December 2024 crude oil lifting. The balance of Lion's entitlement from this lifting is expected to be received in Q2 2025, being 30% retention retained for 3 months under government legislation. Oseil 2ST2 well went offline due to pump failure in late December 2024. The well contributes approx. 50 bopd and was offline for all of Q12025. A well service was completed April 21, 2025.

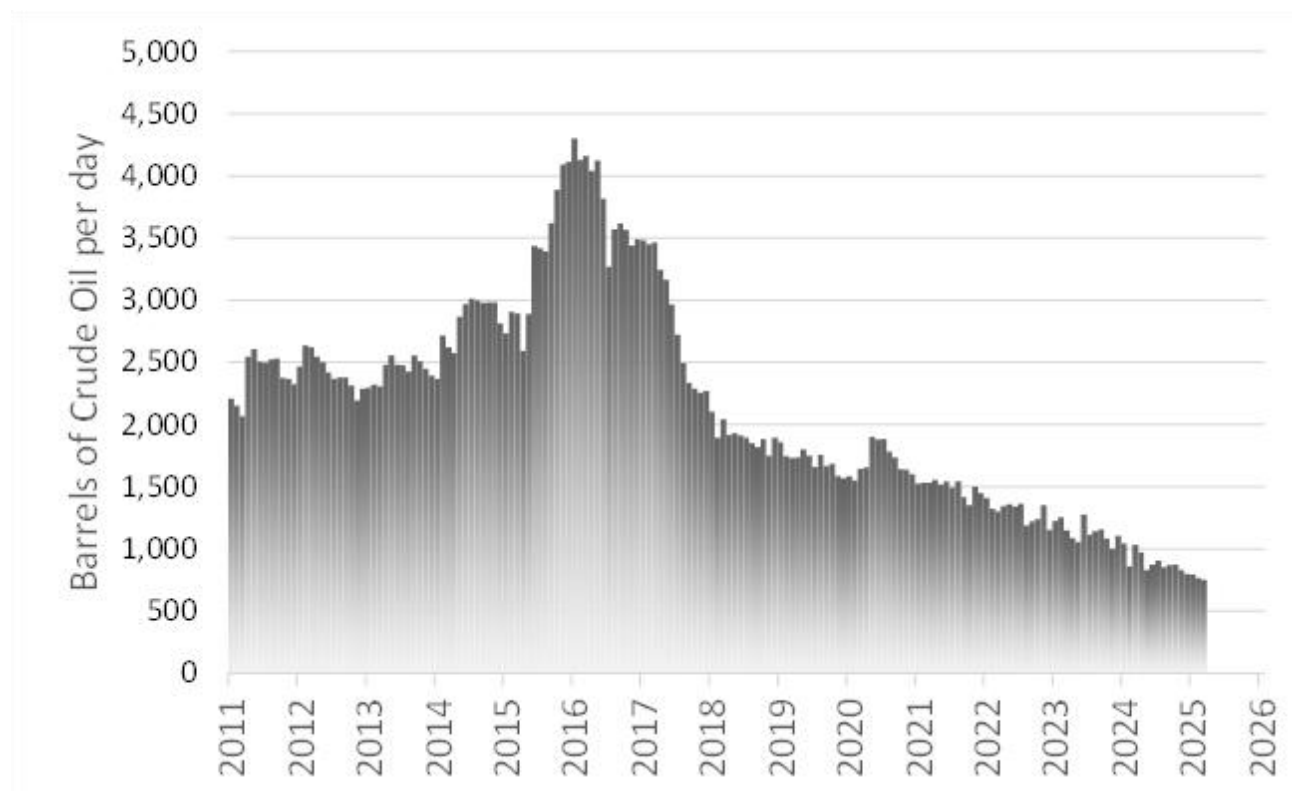


Chart 1 Seram (NB) Block – daily production per calendar month (bopd)

Related Party Payments

During the quarter, the Company made payments of A\$268,000 to related parties and their associates. These payments relate to the existing remuneration agreements for the Executive and Non-Executive Directors.

Summary of petroleum tenements held as of 31 March 2025

	% interest	Tenement	Location
Held at end of quarter	60%	East Seram PSC	Seram Island, Indonesia
	2.5%	Seram Non-Bula PSC	Seram Island, Indonesia

ENDS

This ASX announcement was approved and authorised for release by the Board of Directors.

Qualified petroleum reserves and resources evaluator requirements

In accordance with ASX Listing Rule 5.43 the Company confirms that references to petroleum reserves, contingent resources and prospective resources have previously been announced (7/9/2018, 10/9/2018, 04/03/2019, 13/04/2021 and 16/06/2021). The Company confirms that it is not aware of any new information or data that materially affects the information included in this announcement and that all the material assumptions and technical parameters underpinning the estimates in this announcement continue to apply and have not materially changed.

Glossary

bbl: barrels	JV: joint venture	PSC: Production Sharing Contract
bcf: billion cubic feet	KB: Kelly bushing	psi: pounds per square inch
bopd: barrels oil per day	mmscfd: million standard cubic feet of gas / day	tcf: trillion cubic feet
BOP: blow out preventer	mmbbl: million barrels	Sq.km: square kilometres
ESP: Electric submersible pump	mmboe: million barrels oil equivalent	ss TVD: sub-sea true vertical depth
FTP: first tranche petroleum	mss: metres subsea	TD: total depth

¹Prospective resources are those quantities of petroleum estimated, as of a given date, to be potentially recoverable from undiscovered accumulations by application of future development projects. Prospective resources have both an associated chance of discovery (geological chance of success or GCOS) and a chance of development (economic, regulatory, market and facility, corporate commitment, or political risks). The chance of commerciality is the product of these two risk components. There is no certainty that any portion of the prospective resources will be discovered and, if discovered, there is no certainty that it will be developed or, if it is developed, there is no certainty as to either the timing of such development or whether it will be commercially viable to produce any portion of the resources.