



LCK Awarded Cooper Basin Exploration Licences

- Award of two Petroleum Exploration Licence Applications
- Proximal to historic discoveries
- Preliminary interpretation supports future exploration programs

Leigh Creek Energy Limited (**LCK** or the **Company**) is pleased to announce that further to its farm-in interest in ATP 2023 and ATP 2024 in the Queensland Cooper and Eromanga Basins, it has been awarded two Petroleum Exploration Licence Applications (PELAs) within South Australia, PELA 675 and PELA 676 (see Attachment 1). They provide exciting new opportunities to explore for oil and gas at a relatively low capital cost.

Both PELAs were identified during the 2019 South Australian Cooper Basin Acreage Release by DEM. The areas in the acreage release were known as CO2019-A and CO2019-B. These will be known as PELA 675 and PELA 676.

They now require Native Title agreements to be signed prior to the Petroleum Exploration Licenses (PELs) being granted by the Minister of Energy and Mining. The work programs will not commence until the PELs have been granted.

LCK have committed to 150km of 2D seismic, 150km² of 3D seismic and 2 wells within the first 5-year permit term for PEL 676. PEL 676 commitments include 3 exploration wells and undertake 150km² of 3D seismic in the first 5-year permit term for PEL676.

Permits PELA 675 and PELA 676 are proximal to historic hydrocarbon discoveries. Both contain 2D seismic, with a small portion of 3D seismic over the southern parts of PELA 676, which has been used to identify leads within the potential Northern Oil Fairway as shown in Attachment 1. The stratigraphic sequence is the same as the Western Flank Oil Fairway and exploration wells are likely to target oil accumulations in the Birkhead Formation and Namur Sandstone. Initial work has already identified leads on 2D seismic which now require 3D seismic to mature to drillable prospects. (see Attachments 2 & 3).

Leigh Creek Energy will be looking to farm down a portion of these permits to maximise their exposure across the Cooper and Eromanga Basins.

LCK Managing Director's comments

LCK Managing Director Phil Staveley said: *"Leigh Creek Energy is delighted to be awarded these highly prospective permits. Their addition to the portfolio supports Leigh Creek Energy's short to mid-term strategy and will provide us with optionality in the future."*

The Board of Leigh Creek Energy authorised this announcement to be given to ASX.

For further information, contact:

Tony Lawry | Investor Relations

T: +61 412 467 160 | E: tony.lawry@lcke.com.au

www.lcke.com.au

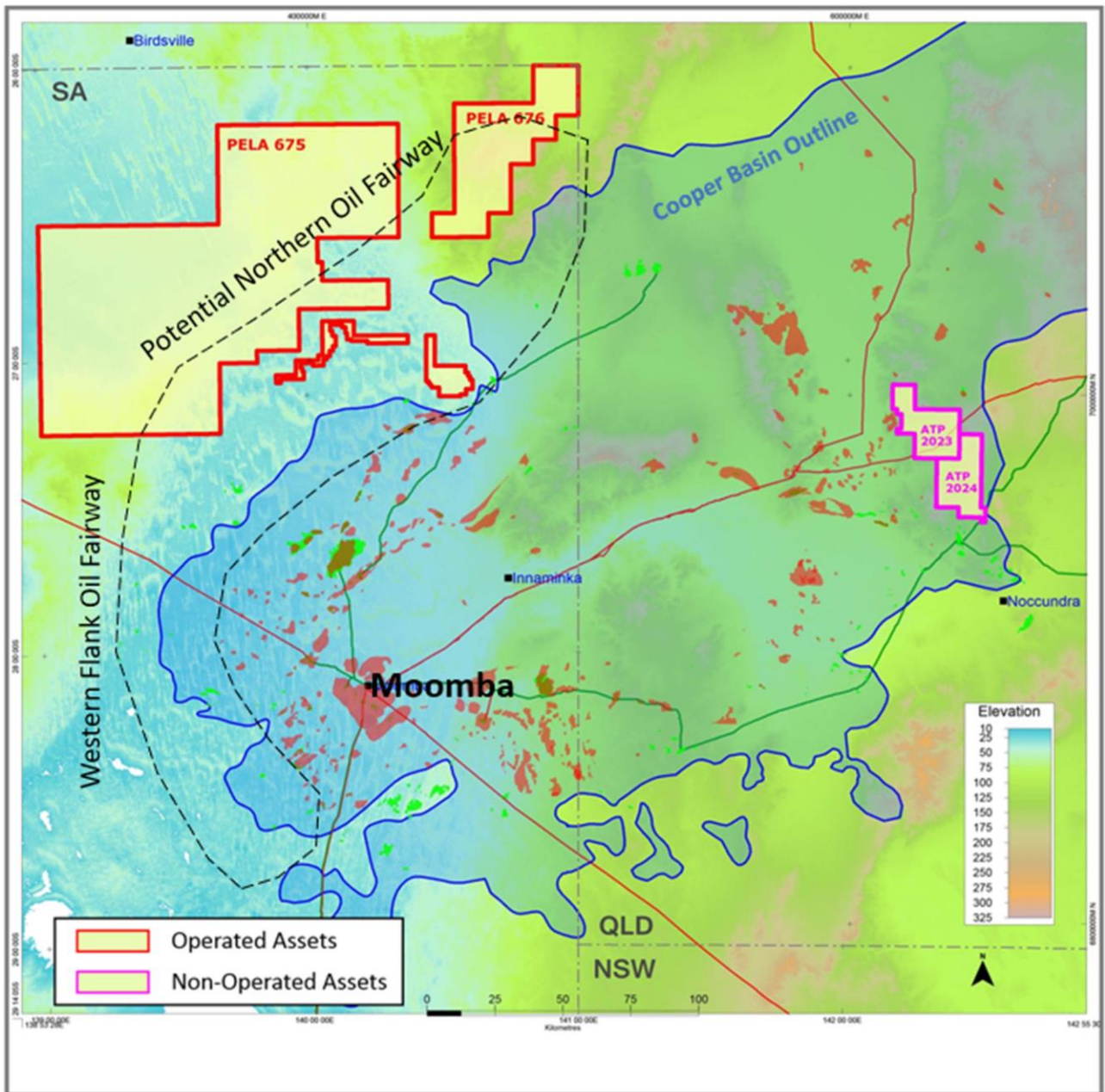
About Leigh Creek Energy

Located in South Australia, Leigh Creek Energy Limited (ASX:LCK) is an emerging energy company focused on developing its Leigh Creek Energy Project (LCEP). The LCEP will produce nitrogen-based fertiliser and/or hydrogen products at Leigh Creek by utilising In Situ Gasification technologies.

LCK is committed to developing the LCEP using a best practice approach to mitigate the technical, environmental and financial project risks.

In addition to the LCEP, diversification of its portfolio is one of LCK's strategies to strengthen its market positioning.

Attachment 1 – A map of the Cooper Basin with LCKs assets in Queensland and South Australia.



Attachment 2 – Map of PELA 675

