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Leigh Creek Energy commences drilling operations

Leigh Creek Energy (ASX: LCK) is pleased to announce the commencement of drilling operations at the Leigh Creek site. The drilling program will initially comprise 3 drill holes that will continue to enhance and validate our models at the preferred Pre-Commercial Gas Demonstration Facility site, while obtaining required environmental data. The data collected will include:

- Baseline environmental samples of rock and water;
- Groundwater properties;
- Rock formation properties including geotechnical information;
- Coal and overburden samples for additional detailed gasification analysis.

Further drilling to install additional monitoring wells will be defined on completion of these initial wells.



The drilling and monitoring program over the next 8 weeks will capture data that is used in the hydrogeological model, the geological model and the geotechnical model, all of which provides important information to the Environmental Impact Report for the Pre-Commercial Gas Demonstration Operations, along with refining site selection.

For example; actual water flow testing at depth will be used to calibrate recently constructed hydrogeological models developed from historical data obtained across the Leigh Creek Coal Field.

Leigh Creek Energy Project

The Leigh Creek Energy Project (LCEP) is located at Leigh Creek in central South Australia, 550km north of Adelaide. The LCEP sits within PEL 650 which overlies the existing Leigh Creek Coalfield (operated by Flinders Power), and will develop deep coal resources that are unable to be accessed by open-cut mining. Energy will be produced from coal using a process known as in-situ gasification (ISG). The ISG process converts coal from its solid state into a gaseous form, resulting in the production of synthesis gas (syngas) containing methane, hydrogen and other valuable gases. The gases can either be used to produce power directly or further refined into a variety of products including methane, LNG, methanol, ammonia and urea. The LCEP plans to develop commercial quantities of pipeline quality gas (methane), to generate electricity for the local grid, or other value-added products.

Leigh Creek Energy has determined a phased approach to the development of the LCEP, comprising:

1. Site Characterisation – including environmental, hydrogeological, and geotechnical assessment;
2. ISG Demonstration – to validate the site characterisation and inform commercial design;
3. Commercial Development – produce Synthetic Natural Gas or electricity at the site.

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About Leigh Creek Energy

Leigh Creek Energy Limited (LCK) is an emerging gas company focused on developing its Leigh Creek Energy Project (LCEP), located in South Australia. The LCEP will produce high value products such as electricity, methane and fertiliser from the remnant coal resources at Leigh Creek utilising In Situ Gasification technologies, and will provide long term growth and opportunities to the communities of the northern Flinders Ranges and South Australia.

The Company is committed to developing the LCEP using a best practice approach to mitigate the technical, environmental and financial project risks to as low as can be reasonably achieved.