25 May 2018

Companies Announcement Office
Via Electronic Lodgement

COMPANY PRESENTATION

Please find attached a copy of the presentation being made by Peninsula Energy Limited’s Managing Director/CEO Mr Wayne Heili at a shareholder information session to be held today in Perth as well as at shareholder information sessions to be held in Melbourne on Tuesday 29 May and Sydney on Friday 1 June. For further details please refer to the ASX announcement released on 18 May 2018.

A copy of the presentation will also be available on our website at www.pel.net.au.

Yours sincerely

Jonathan Whyte
Company Secretary
Disclaimer & Competent Person

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Please note that in accordance with Clause 17 of the JORC (2012) Code, the potential quantity and grade of the "Exploration Target" in this presentation must be considered conceptual in nature as there has been insufficient exploration to define a Mineral Resource and it is uncertain if further exploration will result in the determination of a Mineral Resource.

Please note that Production Targets within this presentation are based on a proportion of inferred resources. There is a low level of geological confidence associated with inferred mineral resources and there is no certainty that further exploration work will result in the determination of indicated mineral resource or that the production target itself will be realised.

Competent Person Statement

The information in this presentation that relates to Exploration Results, Mineral Resources or Ore Reserves at Peninsula’s Lance Projects is based on information compiled by Mr. Jim Guilinger. Mr. Guilinger is a Member of a Recognised Overseas Professional Organisation included in a list promulgated by the ASX (Member of Mining and Metallurgy Society of America and SME Registered Member of the Society of Mining, Metallurgy and Exploration Inc). Mr. Guilinger is Principal of independent consultants World Industrial Minerals, Mr. Guilinger has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which they are undertaking as a Competent Person as defined in the 2012 Edition of the ‘Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves’. Mr. Guilinger consents to the inclusion in the presentation of the matters based on his information in the form and context in which it appears.

The information in this presentation that relates to Exploration Results, Mineral Resources or Ore Reserves at Peninsula’s Karoo projects is based on information compiled by Mr. George van der Walt. Mr van der Walt is a Member of the South African Council for Natural Scientific Professions (SACNASP)). Mr van der Walt is a Geological Consultant and Director of Geoconsult International (Pty) Ltd. Mr van der Walt has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which they are undertaking as Competent Persons as defined in the 2012 Edition of the ‘Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves’. Mr. van der Walt consents to the inclusion in the presentation of the matters based on his information in the form and context in which it appears.
Peninsula Energy’s Defining Strengths

- Experienced technical, financial and commercial team
- Generating improving quarter over quarter results

- Long-life Lance Project in USA
- The Lance Project contains resources of 53.5 mlbs of U3O8¹

- Lance is licensed to produce up to 3m pounds per annum
- ‘Game Changing’ low pH lixiviant initiative

- Strong cash position with reliable income generation
- Spending discipline

- Long-Term sales contracts underpin Peninsula’s business
- Annual product sales scheduled through 2030
1. Corporate Overview
2. Activity Summary
3. Lance Production Results
4. Unlocking the Potential at Lance
5. Global Uranium Market
6. U.S. Uranium Market
7. Investment Highlights

Column Leach Test Apparatus at Lance
Corporate Overview

Capital Structure

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shares on issue*</td>
<td>234m</td>
</tr>
<tr>
<td>Share price (18-May-18)</td>
<td>A$0.270</td>
</tr>
<tr>
<td>Market capitalisation (18-May-18)</td>
<td>A$63m</td>
</tr>
<tr>
<td>Enterprise Value (18-May-18)</td>
<td>A$69m</td>
</tr>
<tr>
<td>Cash and Security Deposits (31-Mar-18)</td>
<td>US$28.7m</td>
</tr>
</tbody>
</table>

Shareholding*

<table>
<thead>
<tr>
<th>Shareholder</th>
<th>Holding (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resource Capital Funds</td>
<td>22.5%</td>
</tr>
<tr>
<td>GLOBAL X</td>
<td>12.7%</td>
</tr>
<tr>
<td>PALA</td>
<td>11.3%</td>
</tr>
<tr>
<td>BLACKROCK</td>
<td>4.8%</td>
</tr>
<tr>
<td>AREVA</td>
<td>2.5%</td>
</tr>
</tbody>
</table>

Top 20 Shareholders 65.3%

*Undiluted as at 18 May 2018

Share Price & Volume History

- March Quarter Share Performance
  - Average Volume: 238k shares / day
  - Global X - URA Index Fund impact
Activity Summary

• Lance Projects
  • Production results improved for fourth consecutive quarter
  • Low pH transition actively underway

• Corporate
  • Convertible note debt partly repaid and extended by 2 years

• Sales & Marketing
  • 125,000 lbs $ U_3 O_8 sold in 1Q18 (revenue of US$5.4m)
  • US$19.0m (net) received from contract transaction

• Karoo Divestment Process
  • Withdrawal from any further development or progression activities
**Quarterly Cost Performance**

- **Spending discipline has resulted in substantially lower quarterly cash outflows**

<table>
<thead>
<tr>
<th>Payments for:</th>
<th>Actual Jun Qtr CY17</th>
<th>Actual Sep Qtr CY17</th>
<th>Actual Dec Qtr CY17</th>
<th>Actual Mar Qtr CY18</th>
<th>F’cast Jun Qtr CY18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exploration &amp; Evaluation</td>
<td>213</td>
<td>270</td>
<td>185</td>
<td>169</td>
<td>300</td>
</tr>
<tr>
<td>Development &amp; PPE</td>
<td>2,258</td>
<td>1,106</td>
<td>537</td>
<td>786</td>
<td>450</td>
</tr>
<tr>
<td>Production</td>
<td>3,149</td>
<td>2,983</td>
<td>2,847</td>
<td>3,219</td>
<td>2,700</td>
</tr>
<tr>
<td>Sales, Admin &amp; Corporate (1)</td>
<td>227</td>
<td>626</td>
<td>361</td>
<td>601</td>
<td>500</td>
</tr>
<tr>
<td>Staff (Corporate)</td>
<td>289</td>
<td>279</td>
<td>253</td>
<td>288</td>
<td>300</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>6,136</strong></td>
<td><strong>5,264</strong></td>
<td><strong>4,183</strong></td>
<td><strong>5,063</strong></td>
<td><strong>4,250</strong></td>
</tr>
</tbody>
</table>

(1) Excludes financing charges.
Unlocking Value from Sales Contracts

• **US$19 million (net) generated through contract transaction**
  - Advances cash receipts from future dates to present
  - Reduces delivery obligations during Lance transition process

• **Significant contract portfolio carries through year 2030**
  - Up to 6.5 million pounds $U_3O_8$ remaining under contract through 2030
    - 4.6 million pounds $U_3O_8$ committed deliveries through 2030
    - Up to 1.9 million pounds $U_3O_8$ optional at customer election between 2021 and 2026
  - Term contracts weighted price between **US$51-53/lb** $U_3O_8$
  - Next scheduled sale: First week of October 2018
• Gross proceeds from contract sale US$22.8 million (includes US$3.8m VAT)
• US$5.4 million sales proceeds received during the quarter
• On 20 April, 2-year extension and re-structure of Con Note signed with RCF and Pala
• Principal repayment of US$3.0 million made (20 Apr), reducing Con Note debt to US$17 million

1) Available Cash excludes amounts placed on deposit to secure guarantees and surety bonds
Lance - Improved Production Results

- **12% Increase on prior Quarter Production**
  - 43,638 lbs produced, 73,864 lbs dried & drummed in the quarter
  - Production in first two mine units during 1Q18
  - MU-1 production subsequently suspended
  - Header house #10 construction nearing completion

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**Quarterly Production and Expenditure**

- **Lbs U3O8**
  - Q4'16: 40,000
  - Q1'17: 30,000
  - Q2'17: 50,000
  - Q3'17: 60,000
  - Q4'17: 70,000
  - Q1'18: 80,000

- **US$ million**
  - Q4'16: 1.0
  - Q1'17: 1.5
  - Q2'17: 2.0
  - Q3'17: 3.0
  - Q4'17: 4.0
  - Q1'18: 4.5

**Key Points**
- Improved Production Results
- 12% Increase on prior Quarter Production
- 43,638 lbs produced, 73,864 lbs dried & drummed in the quarter
- Production in first two mine units during 1Q18
- MU-1 production subsequently suspended
- Header house #10 construction nearing completion
Two Approaches to Change the Outcome

1. Adjust to the Market
2. Adjust the Market

Be the change you want to see in the world
-Mahatma Gandhi
www.gauraw.com
Approach #1: Adjusting to the Market

Operating Above the Breakeven Point Just to Survive

- **Term Price**
- **Spot Price**

<table>
<thead>
<tr>
<th>Cost per lb mined</th>
<th>Pounds mined</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Breakeven point</strong></td>
<td></td>
</tr>
</tbody>
</table>
Unlocking the Full Potential of Lance

• **Low pH ISR transformation initiative**

  - **High Potential**
    - Potential to transform the performance and cost profile
    - Permit to Mine amendment request submitted

  - **Short Timeline**
    - Permit and licence amendments expected mid-CY2019
    - Continued production from alkaline ISR operations

  - **Low Capital Cost**
    - CAPEX for minor modifications = Minimal
    - Technical studies in-progress – completion expected mid-CY2018
Repositioning the Cost Curve
- The ISR Lixiviant Selection Paradigm

• **Alkaline Lixiviants**
  - pH > 7.0, oxidant required, bicarbonate levels vary

• **Low pH (acidic) Lixiviants**
  - pH < 2.0 via sulfuric acid, aggressive chemistry, natural oxidant

• **Both work. How do you decide?**
  
  A. Metallurgical test work
  B. Uranium mineralogy
  C. Host rock composition
  D. Geographic considerations
  E. Regulatory considerations
  F. All of the above
The Geography of Lixiviant Selection

- **Countries that use Alkaline Lixiviants for Uranium ISR**
  - United States

- **Countries that use Low pH (acidic) Lixiviants**
  - Kazakhstan
  - Australia
  - Uzbekistan
  - Russia

- **Countries that use both Alkaline and Low pH (acidic) Lixiviants**
  - China
Kazakh Production Growth

Kazakh Acceleration Rate: “Zero to Sixty” in 18 years
Low pH Leads the Way

- All 1st quartile cost uranium operations globally are in-situ recovery (ISR) facilities that utilize a low pH lixiviant.

- 96% of the uranium recovered by ISR methods worldwide in 2015 came from facilities using low pH solutions (WNA 2017)

Data Source: UxC
Status of Transition

1. Comprehensive License Amendment Application submitted on 6-Apr-18
   – State Permit to Mine amendment application 90-day acceptance review underway
2. Wyoming assuming duties/roles of NRC for Source Material Licensing
   – Transition to Agreement State on schedule for the start of the next U.S. Federal fiscal year (1-Oct-2018)
   – State will be undertaking the SML review
3. Feasibility Study in progress
   – Present the expected economic outcome of Lance Project as a low pH ISR project
   – Mid-year completion planned
4. Ongoing Research and Development
   – Demonstrations & refinement of mining method effectiveness and applications
   – Demonstrations & refinement of groundwater restoration techniques
5. Low pH Implementation Plan
   – Utilize existing infrastructure in a progressive ramp-up in Mine Units 1 and 2
Uranium Market Overview

- **Uranium Market Insight**
  - Spot market appears well supplied
  - Production restraint has occurred
  - Future utility demand projections remain strongly positive

- **Market rebalancing is occurring now**
  - Producer inventory drawdown
  - Producer buying will test the depth of the spot market in coming months

*Source: The Ux Consulting Company, LLC*
Weakness In Global Production

Weak market leads to decline of global uranium production

Production restraint has become a common theme globally

Source: TradeTech
Increasing Political Activity Involving Nuclear Fuel Trade

1. **Section 232 of the US Trade Expansion Act Petition**
   - US Dept. of Commerce expected to take up investigation
   - Potential remedies could bolster price for US production

2. **US Dept of Energy suspension of excess uranium barters/sales**
   - For remainder of 2018 Fiscal Year
   - Support for permanent suspension

3. **Review of the Russian Suspension Agreement**

4. **Russian Parliament threatened to ban on all trade with US nuclear utilities**
Approach #2: Adjusting the Market

- Can that be done?
- How can it be done?
- The role of Government?

Source: The Ux Consulting Company, LLC
“The entire U.S. nuclear industry is in crisis.”

- US producers have closed mines and laid off workers
- The sole US conversion facility has been idled
- There is no longer any domestic enrichment capacity
- The lead US supplier of reactor technologies went bankrupt
- US nuclear utilities are struggling to compete

Who is responsible for this?

Does it even matter?
Section 232 Petition Goals

The intended purpose of Section 232 of the Trade Expansion Act of 1962 is to protect the essential national security industries whose survival is threatened by imports.

1. Relief from imports of uranium products
2. Reverse the erosion of our critical nuclear energy infrastructure
3. Ensuring domestic supplies for national defense purposes
Forms of Relief

• The U.S. Government is asked to take action in support of the critical domestic nuclear industries
  
  • Import quotas
  
  • Buy American policy for US government agencies
  
  • Tariffs on imports
  
  • Subsidies, tax breaks, other ideas?

• The Department of Commerce investigation should occur
  
  • Consider what will benefit the U.S.
Can a fair solution generate enough demand for the industry to be profitable again?

Today: High cost, Low production rate

Higher demand = Higher production rates
Lower cost basis

Less cost per lb mined

More pounds

Fewer pounds
Karoo Projects – South Africa

• All development and progression activities suspended

Divestment Status
- No satisfactory offers made to Peninsula during sale process
- Reflects market view of hard rock uranium assets today

Retention Option
- Fully explored by Peninsula
- Cost of retention rights in SA is prohibitively expensive

Next Steps
- Fulfil restoration and rehabilitation obligations
- Seek consent to divest freehold farm land to fund rehabilitation
Peninsula Energy’s Defining Strengths

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Contact Details

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www.pel.net.au
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FURTHER INFORMATION
Wayne Heili  Managing Director +61 8 9380 9920
## Appendix 1 - Lance JORC Resource

<table>
<thead>
<tr>
<th>Classification</th>
<th>Tonnes (million)</th>
<th>U3O8(kg)</th>
<th>Grade (ppm U3O8)</th>
<th>U3O8(lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measured</td>
<td>3.7</td>
<td>2.0</td>
<td>489</td>
<td>4.3</td>
</tr>
<tr>
<td>Indicated</td>
<td>10.0</td>
<td>5.1</td>
<td>466</td>
<td>12.7</td>
</tr>
<tr>
<td>Inferred</td>
<td>37</td>
<td>17.5</td>
<td>463</td>
<td>36.5</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>50.7</strong></td>
<td><strong>24.6</strong></td>
<td><strong>473</strong></td>
<td><strong>53.5</strong></td>
</tr>
</tbody>
</table>

¹JORC Table 1 included in an announcement to the ASX released on 27th March 2014: “Company Presentation – Mines and Money Hong Kong”. Peninsula confirms that it is not aware of any new information or data that materially affects the information included in this announcement and that all material assumptions and technical parameters underpinning the estimates continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person’s findings are presented have not been materially modified from the original market announcement.