1 November 2017

Companies Announcement Office
Via Electronic Lodgement

PENINSULA ENERGY LIMITED QUARTERLY RESULTS WEBCAST PRESENTATION

Peninsula Energy Limited (Peninsula) held an investor update webcast including the attached presentation to cover the June quarter at Midday AEST (9.00am AWST) today.

A recording of the webcast is available on the link below:

http://webcasting.boardroom.media/broadcast/59ed11ccb08d2638bd14f71c

and also on Peninsula’s website: http://www.pel.net.au under “Investor Info” subsection “Audio Broadcasts”.

Yours sincerely

Jonathan Whyte
Company Secretary

For further information, please contact our office on +61 8 9380 9920 during normal business hours.
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 Australian Institute of Mining and Metallurgy (AusIMM) and 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.
Agenda

• Quarterly Highlights

1. Headline News Flow
2. Lance Production Results
3. Realising the Potential at Lance
4. Karoo Project
5. Costs & Cash Flow Analysis
6. Uranium Market
7. Investment Highlights

Plant Connection to Wellfield Trunklines Upgrade – September 2017

Mr Wayne Heili – Managing Director & CEO
Mr David Coyne – Finance Director & CFO
Headline News Flow

• **Lance Projects – Project Transformation Initiative**
  • Lab tests indicate that using a low pH solution could transform the operating performance and cost profile

• **Karoo Divestment**
  • Formal process is underway
  • Targeting an outcome by the end of CY’17

• **Sales & Marketing**
  • **US$6.6 million** cash receipts during the quarter
  • Sales during the quarter totalled 132,934 pounds at an average **US$50** per pound
    • 92,934 pounds from Lance
    • 40,000 pounds from market purchases
Lance - Improved Production Results

- **13% Increase on prior Quarter Production**
  - 34,568 lbs produced in the quarter
  - 42,665 lbs dried & drummed in the quarter

- **Quarterly Activities**
  - 5-day scheduled shutdown to upgrade trunk line connection to process plant
  - Header house #8 commenced uranium production
  - Header house #9 construction completed during the quarter

![Quarterly Production Chart]

<table>
<thead>
<tr>
<th>Quarter</th>
<th>Pounds U3O8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q1 CY2016</td>
<td>9,193</td>
</tr>
<tr>
<td>Q2 CY2016</td>
<td>28,856</td>
</tr>
<tr>
<td>Q3 CY2016</td>
<td>53,590</td>
</tr>
<tr>
<td>Q4 CY2016</td>
<td>35,000</td>
</tr>
<tr>
<td>Q1 CY2017</td>
<td>25,293</td>
</tr>
<tr>
<td>Q2 CY2017</td>
<td>30,574</td>
</tr>
<tr>
<td>Q3 CY2017</td>
<td>34,568</td>
</tr>
</tbody>
</table>
Unlocking the Full Potential of Lance

- **High Potential**
  - Lance Project holds a 53.5 million pound JORC compliant resource\(^1\)
  - Potential to transform the performance and cost profile using low pH ISR process

- **Short Timeline**
  - Permit and licence amendments in under two years
  - Continued alkaline ISR operations until permitted

- **Low Capital Cost**
  - CAPEX for minor modifications = Minimal
  - Funded by production and sales contracts
Low pH ISR = Low Production Cost

- Low pH ISR has the potential to place the Lance Project in the first quartile of the global uranium production cost curve.

Source: UxC
Timeline for Low pH ISR Transformation

- **2017**: Continue Alkaline ISR Operations

- **2018**: On-going Laboratory Test Work, Engineering Studies

- **2019**: Regulatory Approval Process, Design Revision

- **2020**: Low pH Operations
• Highly valuable resource with a significant amount of data available

- Large Resource
  - 56.9 million pounds eU3O8 (23.3mt at 1,108 ppm)
  - JORC (2012) compliant resource²

- Internal PFS Completed
  - Significant work in the way of technical studies have been completed for the project

- Mineral Tenure
  - A combination of Prospecting Rights, Mining Right Applications and Prospecting Right Applications
  - Ownership: Peninsula 74% and BEE Partners 26%

- Divestment Status
  - Formal process underway
  - Targeting an outcome by end of CY-2017
**Quarter over Quarter Cost Reductions**

- **Committed to continued sustainable cost reductions**

<table>
<thead>
<tr>
<th>Payments for:</th>
<th>Actual Mar Qtr CY17</th>
<th>Actual Jun Qtr CY17</th>
<th>Actual Sep Qtr CY17</th>
<th>F'cast Dec Qtr CY17</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exploration &amp; Evaluation</td>
<td>285</td>
<td>213</td>
<td>270</td>
<td>350</td>
</tr>
<tr>
<td>Development &amp; PPE</td>
<td>1,435</td>
<td>2,258</td>
<td>1,106</td>
<td>450</td>
</tr>
<tr>
<td>Production</td>
<td>4,130</td>
<td>3,149</td>
<td>2,983</td>
<td>2,900</td>
</tr>
<tr>
<td>Sales, Admin &amp; Corporate</td>
<td>1,486</td>
<td>227</td>
<td>626</td>
<td>300</td>
</tr>
<tr>
<td>Staff (Corporate)</td>
<td>207</td>
<td>289</td>
<td>279</td>
<td>300</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>7,543</strong></td>
<td><strong>6,136</strong></td>
<td><strong>5,264</strong></td>
<td><strong>4,300</strong></td>
</tr>
</tbody>
</table>

(1) Sales, Admin & Corporate adversely impacted in March Quarter by costs associated with staff reduction and MD/CEO change
Strong Corporate Financial Position

Cash Balances and Movement

- $6.6 million cash received from U₃O₈ sales made in September quarter
- 40,000 pounds of uranium purchased during the quarter
- $1.1 million collateral increase for R&R following commissioning of additional header houses
- Discussions commenced with Con Note holders and Investec for extension of facilities
Uranium Market Overview

- **Uranium Market Correction**
  - Market currently oversupplied
  - Term price has been flat
  - Spot price is becoming range bound
  - Production restraint is occurring
  - Future utility demand projections remain positive

- **Long term contracts that supported excess production are falling off**

Source: The Ux Consulting Company, LLC
Peninsula Energy Investment Highlights

- **Continued Improvement in Quarter over Quarter Results**

  - **Large Uranium Resource**
    - ✔ Long life flagship project advanced into production stage
  
  - **Long Term Revenue**
    - ✔ Sales agreements extending out to 2030 with above market pricing structures
    - ✔ Strong committed cash margins for near term sales
  
  - **Spending Discipline**
    - ✔ Divestment of second tier Karoo project
    - ✔ On-going meaningful results on cost reduction efforts
  
  - **Unlocking Value**
    - ✔ Lance Project transformation process initiative
    - ✔ Positioning to capitalize on anticipated market rebound
Contact Details

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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>
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<tr>
<td>Indicated</td>
<td>10.0</td>
<td>5.1</td>
<td>466</td>
<td>12.7</td>
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<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>

ISR Reserves are determined after well field development drilling

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.
Appendix 2 - Karoo JORC Resource

JORC Compliant Resource March 2014

<table>
<thead>
<tr>
<th>Classification</th>
<th>Cut-off: eU3O8 (ppm)</th>
<th>Tonnes (million)</th>
<th>eU3O8 (ppm)</th>
<th>eU3O8 (million lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indicated</td>
<td>600</td>
<td>8.0</td>
<td>1,242</td>
<td>21.9</td>
</tr>
<tr>
<td>Inferred</td>
<td>600</td>
<td>15.3</td>
<td>1,038</td>
<td>35</td>
</tr>
<tr>
<td>Total</td>
<td>600</td>
<td>23.3</td>
<td>1,108</td>
<td>56.9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Classification</th>
<th>Sector</th>
<th>Cut-Off: eU3O8 (ppm)</th>
<th>Tonnes (million)</th>
<th>eU3O8 (ppm)</th>
<th>eU3O8 (million lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indicated</td>
<td>Eastern</td>
<td>600</td>
<td>7.1</td>
<td>1,206</td>
<td>18.7</td>
</tr>
<tr>
<td></td>
<td>Western</td>
<td>600</td>
<td>0.9</td>
<td>1,657</td>
<td>3.2</td>
</tr>
<tr>
<td>Inferred</td>
<td>Eastern</td>
<td>600</td>
<td>11.8</td>
<td>1,046</td>
<td>27.2</td>
</tr>
<tr>
<td></td>
<td>Western</td>
<td>600</td>
<td>3.5</td>
<td>1,019</td>
<td>7.8</td>
</tr>
<tr>
<td>Total</td>
<td>600</td>
<td>23.3</td>
<td>1,108</td>
<td>56.9</td>
<td></td>
</tr>
</tbody>
</table>

Large resource potential: 100+ year mine life

Note: Totals may not sum exactly due to rounding

2JORC Table 1 included in announcement to the ASX released on 11th March 2014: “13% Resource Expansion and Upgrade at Karoo Projects”. Peninsula confirms that it is not aware of any new information or data that materially affects the information included in this presentation and that all material assumptions and technical parameters underpinning the estimates continue to apply and have not materially changed.