

25 July 2024

JUNE QUARTERLY ACTIVITIES REPORT

KEY POINTS

LANCE PROJECT HIGHLIGHTS

- Engineering, Procurement and Construction services (“**EPC**”) contractor appointed and mobilised for the expansion of the Ross Central Processing Plant (“**CPP**”)
- Site preparations commenced to expand CPP capacity and capability
- Construction and procurement activities at CPP tracking to schedule for production restart late 2024
- Key workstreams to develop new production wellfield, Mine Unit 3, remain on track for commencement of uranium recovery in late 2024
- 118 production wells totalling approximately 68,300 feet (20,800 metres) were drilled during the quarter
- Updated Mineral Resource Estimate (“**MRE**”) expanded Lance Projects to 58.0 million pounds (Mlbs) U₃O₈; MRE for Life-of-Mine study area increased 19.6% to 26.2 Mlbs U₃O₈

CORPORATE

- A\$106m (before costs) Equity Raising completed, comprising a fully underwritten A\$52.9m Placement and a A\$53.1m Entitlement Offer
- Proceeds from the Equity Raising expected to fully fund operations at Lance Projects to sustainable free cash flow in Q3 2025
- Mr David Coyne appointed as a Non-Executive Director effective 1 May 2024
- Available cash of US\$99.9 million as of 30 June 2024

Peninsula Energy Limited and its wholly owned subsidiary, Strata Energy Inc. (together “**Peninsula**” or the “**Company**”) (ASX:PEN, OTCQB:PENMF) are pleased to announce the release of their June 2024 Quarterly Activities Report.

Managing Director and Chief Executive Officer, Mr Wayne Heili, commenting on the quarter’s activities said:

“We have made excellent progress on all fronts during the quarter, with a successful equity raising that will fund us through to positive cashflow anticipated in mid-2025, an increased Mineral Resource Estimate of almost 20% in the Life-of-Mine Study areas and the commencement of construction to expand the functionality of the processing plant.”

Our production restart, on schedule for the end of 2024, sees Peninsula as one of the largest, independent near-term uranium development projects in the US. This is of particular significance given the banning of Russian uranium imports into the US, signed into law during May.”

LANCE PROJECTS, WYOMING

The Company's flagship Lance Projects, located in the tier-1 mining jurisdiction of Wyoming, USA, comprise of the Ross Production Project Area, Kendrick Development Project Area and Barber Exploration Area (see Figure 1). The August 2023 revised production strategy and LOM model for the Ross and Kendrick areas, (now collectively boasting a resource base of 26.2 Mlbs U₃O₈, equating to at least 10 years of production ready uranium¹), outlines resumption of production in late 2024 and the operation becoming cashflow positive within the first year of operations.

On completion of construction, Lance Projects will be home to a 5,000 GPM uranium In Situ Recovery ("ISR") process plant with capacity to produce up to 2.0 Mlbs p.a. of dry yellowcake (U₃O₈) product.

The LOM model presently excludes the contiguous Barber Resource Area, setting the total cost of the plant and infrastructure against Ross & Kendrick production. The expanded plant functionality will be available to process future output from the 31.9 Mlb U₃O₈ resource base at Barber, highlighting the opportunity for significant future growth at the Lance Projects.

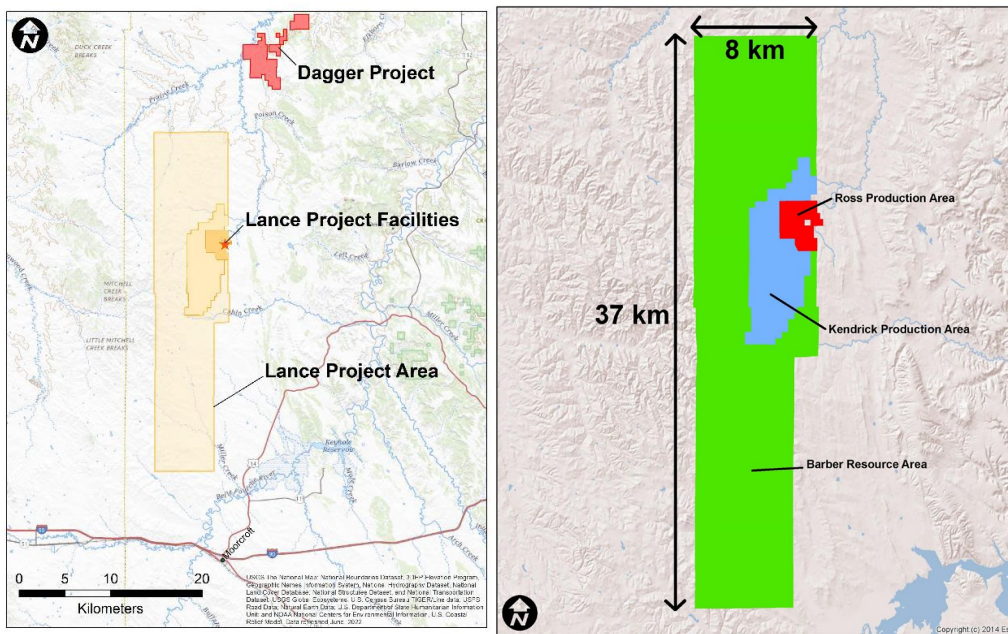


Figure 1: Peninsula's Lance and Dagger Projects in Wyoming, USA

Lance Project Process Plant Construction Activities

Peninsula is currently modifying and expanding the CPP and auxiliary facilities at Lance, which were originally constructed in 2015 as an alkaline ISR satellite plant, for an expanded production capacity using the low-pH ISR process, and to include the complete CPP capability of producing a finished dry yellowcake product.

During the quarter, EPC contractor for the Ross CPP expansion, Samuel Engineering, Inc and Samuel EPC, LLC (together as "Samuel") were appointed and mobilised to site, actively progressing the construction activities.

Construction efforts have been focused on preparing the building foundations. The work has progressed as scheduled and the spend rate on construction is within anticipated levels. In addition, equipment procurement activities remain on schedule with 74% of the major equipment ordered and expected delivery dates matching the requirements of the construction schedule. Overall, equipment costs are tracking to budget projections.

¹ Refer to ASX announcements released on 31 August 2023 and 13 May 2024

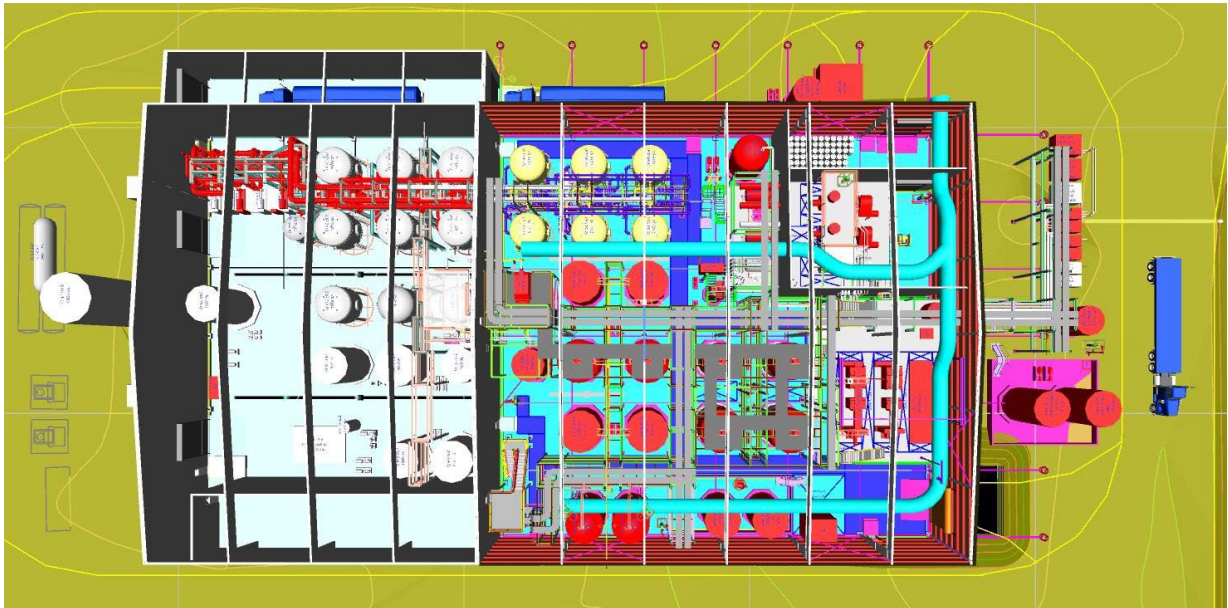


Figure 2: Engineer's 3D model of the designed Lance CPP expansion (left-hand 1/3 is existing facility)



Figure 3: Crews installing forms in preparation for upcoming concrete pours at Ross CPP site

Wellfield Development

As is required for all new ISR production areas, a complete data package documenting the baseline water quality and hydrologic properties for Mine Unit 3 ("MU-3") was submitted to the Wyoming regulatory authorities during the quarter.

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The Company added two additional contract drill rigs during the quarter to bring the total number of contract drilling rigs installing production pattern wells (injection and production wells) in MU-3 to ten. The Company anticipates increasing the rig count to a total of 15 rigs during this calendar year.

In total, 118 production pattern wells in MU-3 totalling approximately 68,300 feet (20,800 metres) were drilled during the quarter. Geophysical logging of the drilled holes produced uranium grade and thickness factors (GT's) consistent with the MU-3 resource estimate.

As at the end of the quarter, well installation for MU-3 was 47% complete and installation of the production pattern wells for MU-3, Header House number 11 (“**HH-11**”) was 85% complete. HH-11 will be the first newly developed production module placed into operations and is on schedule to commence pre-conditioning operations in Q3 2024 in advance of uranium recovery operations which are anticipated to commence before the end of 2024.

Construction of pipelines, powerlines and wellfield infrastructure for MU-3 is advancing as scheduled. Overall, the MU-3 infrastructure installation is 70% complete at this time.



Figure 4: Active well installation at Mine Unit 3. Ross Plant in background

Exploration Activities

Peninsula advised the results of the 2023 drilling within the Ross and Kendrick Areas of the Lance Projects in an ASX Announcement dated 13 May 2024. The total Lance MRE was increased by 7.8% from 53.8 Mlbs to 58.0 Mlbs U₃O₈. The MRE within the Life-of-Mine economic study (Ross and Kendrick) increased by 19.6% from 21.8 Mlbs to 26.2 Mlbs U₃O₈.

The Inferred Resources within Kendrick increased 50% from 7.6 Mlbs to 11.5 Mlbs U₃O₈ and the estimated resources within Ross increased from 6.0 Mlbs to 6.4 Mlbs U₃O₈. The MRE assumes mining by ISR methods.

Refer Appendix 1 for the updated Lance JORC Compliant (2012) resource.

Additional delineation and development drilling programmes at both the Ross and Kendrick areas are planned during the current calendar year to inform the preparation of future updates to the JORC Code compliant MRE of the Lance Projects.

No exploration drilling took place during the quarter.

Safety & Sustainability

No Lost Time Injuries (“LTI’s”) were recorded on site from either employees or contractors during the quarter. The Project surpassed the seven-year mark without an employee incurring a LTI.

There were no reportable events of adverse environmental impacts during the quarter.

DAGGER PROJECT, WYOMING

The Dagger Project (“**Dagger**”) is a high-grade, satellite uranium development introduced in October 2023. Located in Crook County, Wyoming within the Black Hills district in the Northeast corner of the State, it lies approximately 20km Northeast of the Company’s Ross Processing Plant at the Lance Project facilities (see Figure 1).

With a JORC (2012) Inferred Resources of 6.9 Mlbs U₃O₈ (refer Appendix 1) at an average grade of 1,037ppm, over twice the grade of U₃O₈ compared to Lance, Dagger provides the Company with the opportunity to extend the Lance project life through a Satellite ISR operation.

A confirmation drilling program is planned at Dagger for completion in CY2024 to assist with the preparation and publication of an updated JORC (2012) compliant resource estimate.

CORPORATE

Equity Raise

During the quarter, the Company announced and completed a fully underwritten A\$105.9 million (before costs) equity raising (refer ASX Announcements dated 16 May 2024, 20 May 2024, 23 May 2024 and 11 June 2024) comprising:

- A\$52.9 million Placement – approximately 528.5 million new shares at A\$0.10 per share to new and existing institutional and sophisticated investors
- A\$13.3 million accelerated Institutional Entitlement Offer – approximately 132.6 million new shares at A\$0.10 per share
- A\$39.8 million Retail Entitlement Offer – the Company received applications for approximately 171.2 million new shares raising approximately A\$17.1 million. The underwritten shortfall under the Retail Entitlement Offer was approximately 227.0 million new shares (Shortfall Shares) to raise approximately A\$22.7 million from the underwriters.

Shaw and Partners Limited and Canaccord Genuity (Australia) Limited acted as Joint Lead Managers and Underwriter of the Equity Raising. Red Cloud Securities acted as Co-Manager. H.C. Wainwright & Co acted as U.S. financial advisor to the Company in respect of the Equity Raising while BurnVair

Corporate Finance acted as financial advisor to the Company. Shaw and Partners also acted as Corporate Advisor to the Company and A&O Shearman acted as legal advisor to the Company, in respect of the Equity Raising.

The proceeds from the Equity Raising are projected to fully fund the Company through to Q3 2025 when the Company anticipates achieving positive free cashflow generation.

Funding

Peninsula has appointed a financial adviser (BurnVoir Corporate Finance) to assist with the arrangement of debt facilities to support working capital to achieve steady state production and balance sheet flexibility. The Company is in ongoing discussions with US Government funding agencies and has received interest from international financiers in relation to funding the Lance Projects.

Uranium Sales

There were no uranium sales during the quarter. The next planned product delivery is scheduled for mid-2025. The Company does not currently foresee a circumstance where it would be required to obtain yellowcake in the market to satisfy future delivery obligations.

The Company's total contractual sales obligation over the upcoming 10-year period is 6.0 Mlbs.

Uranium Inventory

The Company holds an in-process inventory of 15,182 lbs of dry yellowcake.

Cash Position

The Company's available cash at the end of the quarter was US\$99.9 million.

Board and Management Changes

Ms Rachel Rees resigned as Executive Director of Finance and Corporate Affairs, Chief Financial Officer and Joint Company Secretary with effect 4 April 2024.

The Company appointed Mr Willie Bezuidenhout to the position of Interim Chief Financial Officer effective 5 April 2024. Mr Bezuidenhout is the Company's Vice President of Corporate Development and was previously the Chief Executive Officer of the Company's South African operations.

Mr David Coyne was appointed as Non-Executive Director of Peninsula effective from 1 May 2024. Mr Coyne returns after previously serving in a number of executive positions with the Company, including Finance Director, Chief Financial Officer and Joint Company Secretary between 2013 and 2020 and as a Non-Executive Director between 2020 and 2021.

- ENDS -

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This release has been approved by the Board.

ABOUT PENINSULA ENERGY LIMITED

Peninsula Energy Limited (ASX:PEN) is one of the only ASX-listed uranium companies providing US production and direct market exposure. Its' 100% owned Lance Projects in Wyoming is due to re-commence production in December 2024 following a central processing plant capacity expansion construction project.

Lance is one of the largest, independent near-term uranium development projects in the US. With a track record of meeting delivery requirements since 2016, Peninsula has 10 years of sales contracts in place with major utilities in both the US and Europe. Once back in production, Lance will establish Peninsula as a fully independent end-to-end producer of yellowcake, well-placed to become a key supplier of uranium and play an important role in a clean energy future.

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Appendix 1

¹ Lance Projects Classified JORC-Compliant Resource Estimate (U₃O₈) as at 31 December 2023

Classification	Tonnes (M)	U ₃ O ₈ (Mkg)	U ₃ O ₈ (Mlbs)	Grade (% U ₃ O ₈)	Location
Measured	3.3	1.7	3.8	0.051	Wyoming, USA
Indicated	11.0	5.5	12.4	0.051	Wyoming, USA
Inferred	38.3	18.9	41.7	0.049	Wyoming, USA
Total	52.6	26.3	58.0	0.050	

(i) Due to rounding, total values may not appear to equal the sum of estimated resource. The above tables are provided by an independent consultant outlined in the competent person statement below.

¹ Dagger Project Classified JORC-Compliant Resource Estimate (U₃O₈) as at 23 October 2023

Classification	Tonnes (M)	U ₃ O ₈ (KTonnes)	U ₃ O ₈ (Mlbs)	Grade (ppm U ₃ O ₈)	Location
Inferred	3.0	3.1	6.9	1037	Wyoming, USA
Total	3.0	3.1	6.9	1037	

* Reported above a 0.02 % eU₃O₈ grade and a 0.2 GT cut-off

¹JORC Table 1 included in an announcement to the ASX released on 14 November 2018: "Revised Lance Projects Resource Tables", updated in the "Annual Report to Shareholders" released on 29 September 2023 and ASX Announcement released on 23 October 2023: "Peninsula Establishes Significant New Uranium Development Project" and ASX Announcement released on 13 May 2024: "Mineral Resource Increases 19.6% within current Lance Life of Mine Area". 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.

Competent Persons Statement

The information in this report that relates to Exploration Results, Mineral Resources or Ore Reserves at the Lance and Dagger Projects is based on information compiled by Mr Benjamin Schiffer. Mr Schiffer is a Registered Professional Member of the Society of Mining, Metallurgy and Exploration (Member ID #04170811). Mr Schiffer is a professional geologist employed by independent consultant WWC Engineering. Mr Schiffer has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is 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'.

Appendix 2

Schedule of Interests in Mining Tenements as at 30 June 2024

Lance Projects, Wyoming, USA

Location / Project Name	Tenement	Percentage
Private Land (FEE) – Surface Access Agreement	Approx. 9,459 acres	100%
Private Land (FEE) – Mineral Rights	Approx. 10,348 acres	100%
Federal Mining Claims – Mineral Rights	Approx. 18,789 acres	100%
Federal Surface – Grazing Lease	Approx. 40 acres	100%
State Leases – Mineral Rights	Approx. 12,184 acres	100%
State Leases – Surface Access	Approx. 314 acres	100%
Strata Owned – Surface Access	Approx. 315 acres	100%

Karoo Projects, South Africa

Permit Number/ Name	Holding Entity	Initial Rights Date	Renewed/ Signed/ Validity (e.g. Valid, Under PR Application, Under Mining Right Application, Closure Submitted/Issued)	Area (km ²)	Current Expiry	Commodity Group	Original PR Status
EC 07 PR	Tasman Lukisa JV	14/11/2006	MR Application rejected – Environmental Closure Application Submitted	48	10/06/2015	U, Mo	Expired
EC 08 PR	Tasman Lukisa JV	14/11/2006	MR Application rejected - Environmental Closure Application Submitted	47	10/06/2015	U, Mo	Expired
EC 12 PR	Tasman Lukisa JV	14/11/2006	MR Application rejected - Environmental Closure Application Submitted	36	10/06/2015	U, Mo	Expired
EC 13 PR	Tasman Lukisa JV	14/11/2006	MR Application rejected - Environmental Closure Application Submitted	69	10/06/2015	U, Mo	Expired
WC 33 PR	Tasman Lukisa JV	01/12/2006	MR Application lapsed – Environmental Closure Application Submitted	68	04/07/2016	U, Mo	Expired
WC 34 PR	Tasman Lukisa JV	01/12/2006	MR Application lapsed - Environmental Closure Application Submitted	34	01/08/2015	U, Mo	Expired
WC 35 PR	Tasman Lukisa JV	01/12/2006	MR Application lapsed - Environmental Closure Application Submitted	69	01/08/2015	U, Mo	Expired
WC 59 PR	Tasman Lukisa JV	01/12/2006	MR Application lapsed - Environmental Closure Application Submitted	40	01/08/2015	U, Mo	Expired
WC 60 PR	Tasman Lukisa JV	01/12/2006	MR Application lapsed - Environmental Closure Application Submitted	56	01/08/2015	U, Mo	Expired
WC 95 PR	Tasman-Lukisa JV	17/04/2007	Closure Submitted	5	23/03/2013	U, Mo	Expired
WC 127 PR	Tasman Lukisa JV	30/11/2006	MR Application lapsed - Environmental Closure Application Submitted	59	10/12/2017	U, Mo	Expired
WC 137 PR	Tasman Lukisa JV	30/11/2006	MR Application lapsed - Environmental Closure Application Submitted	73	04/07/2016	U, Mo	Expired

Permit Number/ Name	Holding Entity	Initial Rights Date	Renewed/ Signed/ Validity (e.g. Valid, Under PR Application, Under Mining Right Application, Closure Submitted/Issued)	Area (km ²)	Current Expiry	Commodity Group	Original PR Status
WC 152 PR	Tasman-Lukisa JV	01/12/2006	MR Application lapsed - Environmental Closure Application submitted	189	04/07/2016	U, Mo	Expired
WC 187 PR	Tasman Lukisa JV	01/12/2006	Closure Submitted	24	01/08/2014	U, Mo	Expired
WC 168 PR	Tasman Pacific Minerals	13/12/2006	Closure Submitted	332	05/05/2014	U, Mo	Expired
WC 170 PR	Tasman Pacific Minerals	13/12/2006	Closure Submitted	108	05/05/2014	U, Mo	Expired
EC 28 PR	Tasman Pacific Minerals	15/11/2006	Closure Submitted	225	26/03/2015	U, Mo	Expired
NC 330 PR	Tasman Pacific Minerals	08/06/2007	Closure Submitted	481	19/04/2019	U, Mo	Relinquished
NC 331 PR	Tasman Pacific Minerals	08/06/2007	Closure Submitted	205	17/11/2018	U, Mo	Relinquished
NC 347 PR	Tasman Pacific Minerals	08/06/2007	Closure Submitted	634	17/11/2018	U, Mo	Relinquished

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