High Recovery Caesium Concentrate Produced from Latest Metallurgical Testwork at Shaakichiuwaanaan

08.10.2025 | CNW

Initial testwork supports pathway to potential valuable caesium by/co-product alongside lithium and tantalum at the CV1

Highlights

- Marketable commercial grade pollucite concentrate successfully produced from the Vega Caesium Zone at the C
  - 11.9% Cs_2O at 88% global recovery, which reflects the weighted-average of two combined size fractions th
    - 20.0% Cs_2O (12.5 to 25 mm fraction); and
    - 11.5% Cs_2O (+25 mm fraction).
    - Pollucite concentrate grading >8-10% Cs_2O is typically considered a highly marketable and favorable
- XRT ore sorting is a conventional, well-understood, dry, mechanical, and commercial process applied to relatively
  - As no water or chemical reagents are required, no tailings are produced - only coarse, dry, reject material.
- Reject material from the XRT ore sorter at CV13 also contains significant lithium (spodumene) and tantalum (tant
- The Rigel and Vega Zones at Shaakichiuwaanaan's CV13 Deposit combined rank as the largest known pollucite-
  - Indicated:693,000 t at 4.40% Cs_2O, 2.12% Li_2O, and 283 ppm Ta_2O_5.
  - Inferred: 1,698,000 t at 2.40% Cs_2O, 1.81% Li_2O, and 245 ppm Ta_2O_5.
- The Company has commenced evaluating options to advance and incorporate the caesium opportunity at Shaaki

---

[1] Cut-off grade is variable depending on the mining method and pegmatite (0.40% Li_2O open-pit, 0.60% Li_2O underground CV5, and 0.70% Li_2O underground CV13). A grade constraint of 0.50% Cs_2O was used to model the Rigel and Vega caesium zones. The Effective Date of the MRE (announced July 20, 2025) is June 20, 2025 (through drill hole CV24-787). Mineral Resources are not Mineral or Ore Reserves as they do not have demonstrated economic viability.

Darren L. Smith, Executive Vice President Exploration, comments: "These initial testwork results confirm that Shaakich unlocking multiple value streams from the Project."

"A follow-up testwork program is being planned which will focus on optimization of the XRT circuit for pollucite recovery

PMET Resources Inc. (the "Company" or "PMET") (TSX: PMET) (ASX: PMT) (OTCQX: PMETF) (FSE: R9GA) is pleas

The Shaakichiuwaanaan Mineral Resource[2], comprised of the CV5 and CV13 Li-Cs-Ta ("LCT") pegmatites, is situated

Further to news releases dated April 9, June 10, and July 20, 2025 - which outlined the pollucite discovery (Figure 4) ar

An XRT ore sorter classifies material by analyzing the sample's atomic density, prompting a blast of compressed air to tailings are produced - only coarse, dry reject material that, in the case of CV13, is also amenable to further spodumen

---

[2] Shaakichiuwaanaan's Consolidated MRE (CV5 + CV13 pegmatites), which includes the Rigel and Vega caesium zones, totals 108.0 Mt at 1.40% Li_2O, 0.11% Cs_2O, 166 ppm Ta_2O_5, and 66 ppm Ga, Indicated, and 33.4 Mt at 1.33% Li_2O, 0.21% Cs_2O, 155 ppm Ta_2O_5, and 65 ppm Ga, Inferred, and is reported at a cut-off grade of 0.40% Li_2O (open-pit), 0.60% Li_2O (underground CV5), and 0.70% Li_2O (underground CV13), with an Effective Date of June 20, 2025 (through drill hole CV24-787). Mineral Resources are not Mineral or Ore Reserves as they do not have demonstrated economic viability.

For the test program, the composite core sample - with an ~2.5% Cs_2O representative head grade - was crushed and s

Cs_2O) at high overall recovery (88%).

Additionally, the reject fractions contain significant lithium (spodumene) and, as it remains appropriately sized, may be

The pollucite recovery testwork programs are being carried out at TOMRA Mining's Test Center in Wedel, Germany (X

The Rigel and Vega Zones at Shaakichiuwaanaan's CV13 Deposit combined rank as the largest known pollucite-hoste

- Indicated:693,000 t at 4.40% Cs_2O, 2.12% Li_2O, and 283 ppm Ta_2O_5.
- Inferred: 1,698,000 t at 2.40% Cs_2O, 1.81% Li_2O, and 245 ppm Ta_2O_5.

Such deposits of pollucite are very rare and typically range in scale from <10 kt to 350 kt, highlighting the magnitude ar

---

[3] Cut-off grade is variable depending on the mining method and pegmatite (0.40% Li_2O open-pit, 0.60% Li_2O underground CV5, and 0.70% Li_2O underground CV13). A grade constraint of 0.50% Cs_2O was used to model the Rigel and Vega caesium zones. The Effective Date of the MRE (announced July 20, 2025) is June 20, 2025 (through drill hole CV24-787). Mineral Resources are not Mineral or Ore Reserves as they do not have demonstrated economic viability.

Next Steps

For next phase of testwork, the Company will collect a larger diameter drill core composite sample to explore coarser a simple gravity (DMS, tables) and magnetic methods.

The Company has also commenced evaluating options to advance and incorporate the caesium opportunity at Rigel ar

The lithium-only Feasibility Study based on the CV5 Mineral Resource component of the overall Shaakichiuwaanaan M

About Caesium

Mineral deposits of pollucite-hosted caesium are very rare globally and represent the most fractionated component of L

Globally, it is estimated only three (3) primary caesium mines have historically operated and all were pollucite hosted -

The market for caesium compounds and metals is largely opaque because it is not publicly traded like copper or gold, b

Caesium is currently supply constrained, with only limited sources supplying the global market. A discovery of this size,

Qualified/Competent Person

The information in this news release that relates to exploration results for the Shaakichiuwaanaan Property is based on

Mr. Smith is an Executive and Vice President of Exploration for PMET Resources Inc. and holds common shares, Rest

Mr. Smith has sufficient experience, which is relevant to the style of mineralization, type of deposit under consideration,

About PMET Resources Inc.

PMET Resources Inc. is a pegmatite critical mineral exploration and development company focused on advancing its d largest[5] lithium pegmatite resource in the Americas, and in the top ten globally. Additionally, the Project hosts the world

For further information, please contact us at info@pmet.ca or by calling +1 (604) 279-8709, or visit www.pmet.ca. Please also refer to the Company's continuous disclosure filings, available under its profile at www.sedarplus.ca and www.asx.com.au, for available exploration data.

This news release has been approved by,

"KEN BRINSDEN"

Kenneth Brinsden, President, CEO, & Managing Director

Disclaimer for Forward-Looking Information

This news release contains "forward-looking statements" and "forward-looking information" within the meaning of applicable securities laws.

All statements, other than statements of present or historical facts, are forward-looking statements. Forward-looking statements involve known and unknown risks, uncertainties and assumptions and accordingly, actual results could differ materially from those expressed or implied in such statements. You are hence cautioned not to place undue reliance on forward-looking statements. Forward-looking statements are typically identified by words such as "plan", "development", "growth", "continued", "intentions", "expectations", "emerging", "evolving", "strategy", "opportunities", "anticipated", "trends", "potential", "outlook", "ability", "additional", "on track", "prospects", "viability", "estimated", "reaches", "enhancing", "strengthen", "target", "believes", "next steps" or variations of such words and phrases or statements that certain actions, events or results "may", "could", "would", "might" or "will" be taken, occur or be achieved.

Forward-looking statements include, but are not limited to, statements concerning the follow-up testwork program, the potential presence of lithium (spodumene) and tantalum (tantalite) in the rejects, the value of the caesium opportunity, the efforts to advance and incorporate the caesium opportunity at Rigel and Vega as a potential future by/co-product value stream for the overall Project, the studies currently under way, and the market for caesium.

---

[4] The Consolidated MRE cut-off grade is variable depending on the mining method and pegmatite (0.40% Li_2O open-pit, 0.60% Li_2O underground CV5, and 0.70% Li_2O underground CV13). A grade constraint of 0.50% Cs_2O was used to model the Rigel and Vega caesium zones, which are entirely within the CV13 Pegmatite's open-pit mining shape. The Effective Date of the MREs is June 20, 2025 (through drill hole CV24-787). Mineral Resources are not Mineral or Ore Reserves as they do not have demonstrated economic viability.

[5] Determination based on Mineral Resource data, sourced through July 11, 2025, from corporate disclosure.

Forward-looking statements are based upon certain assumptions and other important factors that, if untrue, could cause actual results to be materially different from future results expressed or implied by such statements. There can be no assurance that forward-looking statements will prove to be accurate. Key assumptions upon which the Company's forward-looking information is based include, without limitation, the market for caesium, that proposed exploration work on the Property will continue as expected, the accuracy of reserve and resource estimates, the classification of resources between inferred and the assumptions on which the reserve and resource estimates are based, long-term demand for lithium (spodumene), tantalum (tantalite), and caesium (pollucite) supply, and that exploration and development results continue to support management's current plans for Property development.

Forward-looking statements are also subject to risks and uncertainties facing the Company's business, any of which could have a material adverse effect on the Company's business, financial condition, results of operations and growth prospects. Readers should consider reviewing the detailed risk discussion in the Company's most recent Annual Information Form filed on SEDAR+, for a fuller understanding of the risks and uncertainties that affect the Company's business and operations.

Although the Company believes its expectations are based upon reasonable assumptions and has

attempted to identify important factors that could cause actual actions, events or results to differ materially from those described in forward-looking statements, there may be other factors that cause actions, events or results not to be as anticipated, estimated or intended. There can be no assurance that forward-looking information will prove to be accurate. If any of the risks or uncertainties mentioned above, which are not exhaustive, materialize, actual results may vary materially from those anticipated in the forward-looking statements.

The forward-looking statements contained herein are made only as of the date hereof. The Company disclaims any intention or obligation to update or revise any forward-looking statements, whether as a result of new information, future events or otherwise, except to the extent required by applicable law. The Company qualifies all of its forward-looking statements by these cautionary statements.

Competent Person Statement (ASX Listing Rule 5.23) for Shaakichiuwaanaan MRE

The mineral resource estimate in this release was reported by the Company in accordance with ASX Listing Rule 5.8 on July 21, 2025. The Company confirms that, as of the date of this news release, it is not aware of any new information or data verified by the competent person that materially affects the information included in the announcement and that all material assumptions and technical parameters underpinning the estimates in the announcement continue to apply and have not materially changed. The Company confirms that, as at the date of this announcement, the form and context in which the competent person's findings are presented have not been materially modified from the original market announcement.

Appendix 1 - JORC Code 2012 Table 1 (ASX Listing Rule 5.8.2)

The information in the JORC Code 2012 Table 1 below relates only to the metallurgical results being reported in this announcement. For the JORC Code 2012 Table 1 reporting of Section 1 - Sampling Techniques and Data and Section 2 - Reporting of Exploration Results for the drill holes listed in Table 1 and Table 2 above, please refer to the Company's announcement dated April 9, 2025. The Company considers that the JORC Code 2012 Table 1 information relating to the drill holes listed in Table 1 and Table 2 is not material to the metallurgical test results being reported in this announcement given that it has previously been reported (as referenced above) and relates only to the core samples from which the composite sample, the subject of the metallurgical testwork, were formed.

Section 1 - Sampling Techniques and Data

Criteria	JORC Code explanation
Sampling techniques	● Nature and quality of sampling (eg cut channels, random chi ● Include reference to measures taken to ensure sample repre ● Aspects of the determination of mineralization that are Mater ● In cases where 'industry standard' work has been done this v
Drilling techniques	● Drill type (eg core, reverse circulation, open-hole hammer, ro
Drill sample recovery	● Method of recording and assessing core and chip sample rec ● Measures taken to maximize sample recovery and ensure re ● Whether a relationship exists between sample recovery and
Logging	● Whether core and chip samples have been geologically and ● Whether logging is qualitative or quantitative in nature. Core ● The total length and percentage of the relevant intersections
Sub-sampling techniques and sample preparation	● If core, whether cut or sawn and whether quarter, half or all c ● If non-core, whether riffled, tube sampled, rotary split, etc an ● For all sample types, the nature, quality and appropriateness ● Quality control procedures adopted for all sub-sampling stag ● Measures taken to ensure that the sampling is representative ● Whether sample sizes are appropriate to the grain size of the
Quality of assay data and laboratory tests	● The nature, quality and appropriateness of the assaying and ● For geophysical tools, spectrometers, handheld XRF instrum ● Nature of quality control procedures adopted (eg standards,
Verification of sampling and assaying	● The verification of significant intersections by either indepen ● The use of twinned holes. ● Documentation of primary data, data entry procedures, data ● Discuss any adjustment to assay data.
Location of data points	● Accuracy and quality of surveys used to locate drill holes (co ● Specification of the grid system used. ● Quality and adequacy of topographic control.
Data spacing and distribution	● Data spacing for reporting of Exploration Results. ● Whether the data spacing and distribution is sufficient to esta ● Whether sample compositing has been applied.
Orientation of data in relation to geological structure	● Whether the orientation of sampling achieves unbiased samp ● If the relationship between the drilling orientation and the orie
Sample security	● The measures taken to ensure sample security.
Audits or reviews	● The results of any audits or reviews of sampling techniques a
Section 2 - Reporting of Exploration Results	

Criteria	JORC Code explanation
Mineral tenement and land tenure status	● Type, reference name/number, location and ow ● The security of the tenure held at the time of rep
Exploration done by other parties	● Acknowledgment and appraisal of exploration b
Geology	● Deposit type, geological setting and style of min
Drill hole Information	● A summary of all information material to the und ● easting and northing of the drill hole collar ● elevation or RL (Reduced Level - elevatio ● dip and azimuth of the hole ● down hole length and interception depth ● hole length. ● If the exclusion of this information is justified on
Data aggregation methods	● In reporting Exploration Results, weighting aver ● Where aggregate intercepts incorporate short le ● The assumptions used for any reporting of meta
Relationship between mineralization widths and intercept lengths	● These relationships are particularly important in ● If the geometry of the mineralization with respec ● If it is not known and only the down hole lengths
Diagrams	● Appropriate maps and sections (with scales) an
Balanced reporting	● Where comprehensive reporting of all Explorati
Other substantive exploration data	● Other exploration data, if meaningful and materi
Further work	● The nature and scale of planned further work (e ● Diagrams clearly highlighting the areas of possi

View original content to download
multimedia:https://www.prnewswire.com/news-releases/high-recovery-caesium-concentrate-produced-from-latest-meta

SOURCE PMET Resources Inc.

Contact
Olivier Caza-Lapointe, Head, Investor Relations, T: +1 (514) 913-5264, E: ocazalapointe@pmet.ca