

First American Uranium Discovers New Pegmatite Outcrop During Site Visit; Confirms 27 km of Prospective Nb-REE Trends at Seigneurie, Quebec

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Vancouver, Oct. 29, 2025 - [First American Uranium Inc.](#) (CSE: URM) (FSE: IOR) (OTCPK: FAUMF) ("First American Uranium", or the "Company") is pleased to announce the successful completion of a site visit to its Seigneurie Property, located in the Regional County Municipality of La Haute-Côte-Nord in Quebec's Grenville Proterozoic Province. The visit was conducted on October 22, 2025, by Murray Nye, Chief Executive Officer and Clyde McMillan, Technical Advisor.

Purpose and Key Findings

The objective of the visit was to validate previous exploration work completed on the Seigneurie Nb-REE prospect and assess ongoing field programs. During the visit, the team discovered a pegmatite outcrop, with a minimum width of at least a 4-metre-wide (Figure 1), exhibiting mineralogical and geological characteristics similar to those of the main Seigneurie Prospect. The pegmatite contains quartz, feldspar, biotite and magnetite, and responds to the scintillometer. This new outcrop extends the known footprint of the potentially mineralized Nb-REE system and highlights the broader exploration opportunity across the property.

Figure 1: CEO, Murray Nye standing on newly discovered Pegmatite outcrop with potential for REE and other critical elements. This outcrop is located 700m south-east of the Seigneurie Nb-REE Prospect. The intrusion appears to strike east-west and dips 45degrees to the south, with a minimum apparent thickness of 4-m identified on outcrop.

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Currently, channel sampling, detailed geological mapping, and prospecting are underway across the Seigneurie Property. Current geological interpretations made by the Company, integrating regional airborne magnetic data with government geological mapping, have delineated over 27 kilometres of prospective trends. These trends coincide with interpreted aligned with interpreted magnetic lineaments and mapped quartz-syenite intrusions-favorable geological settings for niobium and rare earth element mineralization (Figure 2).

Figure 2: The Seigneurie Property is located near the St. Lawrence River coast, with a Hydro-Québec power line crossing the property. Geological and geophysical interpretation has outlined approximately 27 km of prospective trends, exhibiting characteristics similar to the 5 km-long highly prospective corridor hosting the Seigneurie Nb-REE prospect.

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Management Commentary

"Our recent site visit reinforces our belief view that the Seigneurie Property could develop into one of the most compelling niobium and rare earth element projects in North America warrants continued evaluation as a promising niobium and rare earth element exploration project," said Murray Nye, CEO of First American Uranium. "The scale of the mineralized system, combined with the discovery of a new pegmatite exposure and 27kms of prospective trends, positions Seigneurie as a truly exciting opportunity for the Company. We are looking forward to advancing this project through systematic exploration and unlocking its full potential."

Clyde McMillan, P.Geol (OGQ#2193), Technical Advisor, added: "The Seigneurie Nb-REE prospect, previously explored for uranium and thorium, demonstrates strong potential for niobium, rare earths, and potentially other critical elements. The width interpreted by SOQUEM in 1978 of at least 50 metres, appears reasonable based on current field observations. Although the true width is challenging to determine due to the outcrop's extent, the geological continuity and scale are encouraging indications for follow-up work."

Next Steps

The Company's field teams will continue mapping, sampling, and prospecting throughout the fall season, with results to be announced once available. These data will guide the next phase of exploration, including potential drill targeting.

Strategic Advantages

The Seigneurie Property benefits from excellent infrastructure access, situated near the St. Lawrence River and directly crossed by Hydro-Québec power lines. These logistical advantages provide strong support for future exploration and potential development activities.

ABOUT FIRST AMERICAN URANIUM INC.

First American Uranium Inc. is a North American mineral exploration company focused on the acquisition and development of precious, base, and critical mineral assets. Its portfolio includes the Silver Lake property in British Columbia's Omineca Mining Division and a recently acquired land package in Quebec's Grenville Province. The Quebec properties add exposure to rare earth elements (REE), niobium (Nb), and nickel-copper (Ni-Cu) occurrences, expanding the Company's footprint into critical minerals that are strategically important for energy and defense applications.

ON BEHALF OF THE BOARD OF DIRECTORS:

Murray Nye
Chief Executive Officer

1055 West Georgia Street, Suite 1500
Vancouver, BC V6E 0B6
Canada

For further information, please contact:

Murray Nye, CEO
Email: finance@firstamericanuranium.ca
Phone: +1 (416) 300-7398

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Forward-Looking Statements

This news release contains "forward-looking statements" within the meaning of applicable Canadian securities legislation. All statements in this release, other than statements of historical fact, that address events, results, outcomes or developments that the Company expects, anticipates or intends to occur in the future, or that otherwise reflect management's expectations or beliefs about future events, are forward-looking statements. Forward-looking statements are generally, but not always, identified by the use of words and phrases such as "expects," "plans," "anticipates," "believes," "intends," "estimates," "projects," "potential," "opportunity," "strategy," "target," "forecast" and similar expressions, or statements that events, conditions or results "will," "would," "may," "could," or "should" occur or be achieved.

Forward-looking statements in this release include, but are not limited to: (i) statements regarding the Company's properties and their mineral prospectivity; (ii) the Company's planned exploration, development and evaluation activities on the Company's properties; and (iii) the potential for the Grenville Province to host significant rare earth element, niobium, nickel-copper or other critical mineral deposits. Such forward-looking statements are based on the Company's current plans, intentions, expectations and beliefs and are subject to certain assumptions, including, without limitation, assumptions that required regulatory approvals will be obtained in a timely manner, that financing will be available on reasonable terms, and that exploration results will continue to support the prospectivity of the Properties.

Although the Company believes the expectations expressed in such forward-looking statements are reasonable, such statements are not guarantees of future performance or outcomes and actual results may differ materially from those expressed or implied in the forward-looking statements. Factors that could cause actual results to differ materially from those anticipated include, but are not limited to: the timing and receipt of required regulatory approvals; changes in commodity prices and market conditions; the availability of capital and financing on acceptable terms; general economic, business and political conditions; risks inherent in mineral exploration and development, including operational risks, geological uncertainties, environmental risks and accidents; changes in government regulation or policy; and the speculative nature of mineral exploration and development. Additional information regarding risks and uncertainties faced by the Company is available in the Company's public disclosure record on SEDAR+ (www.sedarplus.ca).

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Qualified Person

The scientific and technical information contained in this news release has been prepared in accordance with National Instrument 43-101 - Standards of Disclosure for Mineral Projects ("NI 43-101"). Clyde McMillan, P. Geo., a consultant to the Company and a Qualified Person as defined under NI 43-101, has reviewed and approved the technical information contained herein.

The Canadian Securities Exchange does not accept responsibility for the adequacy or accuracy of this release and has neither approved nor disapproved the contents of this press release

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