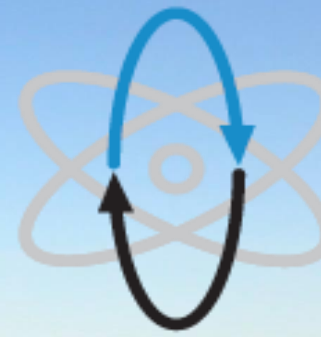


Uranium Exploration: New Mexico and the Athabasca Basin



NORTH SHORE
URANIUM
TSXV: NSU

September 22, 2025

NORTH SHORE URANIUM LTD

www.northshoreuranium.com

FORWARD-LOOKING STATEMENTS

Disclaimer

This presentation (“Presentation”) is a summary description of the business of North Shore Uranium Ltd. (“North Shore” or the “Company”) and does not purport to be complete. It is not an advertisement, solicitation, or offering of securities in any jurisdiction and does not constitute an offer to sell or solicit an offer to buy securities. No securities regulatory authority in Canada or elsewhere has reviewed or approved its merits. The information herein is not investment advice and should not be relied upon for investment decisions. The Company expressly disclaims liability for any use of this Presentation for such purposes. Any investment decision involves a high degree of risk; recipients should consult their own advisors regarding legal, business, tax, or other matters, including the legality of any investment in the Company. A summary of a historical resource at the Rio Puerco project is provided in the Presentation, limitations and compliance details regarding this historical resource are presented on slides 8 and 9. Neither the TSX Venture Exchange nor its Regulation Services Provider (as defined in TSX Venture Exchange policies) accepts responsibility for the adequacy or accuracy of this Presentation. All dollar amounts, unless otherwise indicated, are expressed in Canadian dollars (“C\$”).

Forward-Looking Statements

This Presentation contains “forward-looking statements” within the meaning of applicable securities legislation. These statements are made as of the date of this Presentation and the Company does not intend, and does not assume any obligation, to update them except as required by law. Forward-looking statements are not purely historical and may include words such as “plans,” “expects,” “budget,” “project,” “scheduled,” “estimates,” “forecasts,” “intends,” “anticipates,” “potential,” “confirm,” “suggest,” “evaluate,” “likely,” “may,” “could,” “would,” “should,” “might,” or “will,” and similar expressions. These statements may relate to future financial or operating performance, mineral resource estimates, future price of metals, timing and amount of future production, capital expenditures, success of exploration activities, permitting timelines, requirements for additional capital, government regulation, environmental risks, reclamation expenses, title disputes or claims, completion of transactions, and regulatory approvals.

In making forward-looking statements, the Company has applied certain factors and assumptions it believes are reasonable, including: no material deterioration in general business and economic conditions; expected supply, demand, and price levels for its primary metals and minerals; timely receipt of regulatory and governmental approvals; ability to obtain financing and procure equipment and supplies; accurate engineering and exploration timetables and capital costs; satisfactory resolution of environmental and other proceedings; and maintenance of ongoing business relationships.

Forward-looking statements involve known and unknown risks, uncertainties, and other factors that may cause actual results, performance, or achievements to differ materially from those expressed or implied. These risks include, but are not limited to: actual results of exploration activities; interpretation of drilling and geophysical survey results; changes in project parameters; variations in grades and recovery rates; accidents, labour disputes, and other mining industry risks; delays in approvals or financing; geological risks; global economic conditions; mineral price fluctuations; financial market access; competition for properties and personnel; international trade restrictions; loss of interests in properties; environmental regulatory requirements; currency fluctuations; government policy risks; lack of mining history; property title rights; dependence on key personnel; delineation of reserves and resources; insurance coverage; dilution from equity financing; market price of shares; absence of dividends; litigation; technical innovation and obsolescence; disclosure and internal controls; conflicts of interest; and the Company’s ability to meet any obligations of the option agreements for the Rio Puerco Project, the West Bear Property, and 11 claims of the Falcon Property, the failure of which may result in the Company failing to acquire up to 87.5% of the Rio Puerco Project, 100% of the West Bear Property, and 100% of 11 claims of the Falcon Property.

There may be other factors that cause actions, events, or results not to be as anticipated, estimated, or intended. Actual exploration results, program content, and property sizes may differ materially from those suggested in any forward-looking statements. The proximity of Company properties to those owned by other companies with metals discoveries, resources, and reserves does not assure similar results. Readers should not place undue reliance on forward-looking statements.

Additional information about these and other assumptions, risks, and uncertainties is set out in the Company’s Amended and Restated Filing Statement dated September 21, 2023, and the Company’s interim and annual management discussions and analyses, all available on www.sedarplus.ca.

Qualified Person Statement

Mr. Brooke Clements, President and CEO of North Shore, a Qualified Person as defined by National Instrument 43-101 – Standards of Disclosure for Mineral Projects, has reviewed and approved the scientific and technical disclosure in this Presentation.

SUMMARY

Global interest in nuclear energy continues to grow as a reliable and clean source of electricity with no CO₂ emissions.

- Nov. 2024 COP29 declaration to triple nuclear power by 2050 endorsed by 31 countries including the USA and Canada
- Recent “high-tech” commitments to nuclear power, including restarting a reactor at Three Mile Island in Pennsylvania
- Uranium spot price currently around US\$77/lb¹
- 440 active reactors, 70 under construction, over 400 planned or proposed²
- May 23 Executive Orders in the United States lend support to nuclear power and uranium projects

What does this create? **Significant opportunity** for uranium explorers like **North Shore** with quality exploration projects in two well-known jurisdictions.

Option agreement to acquire up to 87.5% of the Rio Puerco uranium project in the **Grants Uranium District** of New Mexico with a **historical inferred resource estimate of 11.4M lbs. of U₃O₈**³.

Two properties in Saskatchewan’s **Athabasca Basin**; Maiden drill campaign in 2024 confirmed new **near-surface uranium mineralization** at the Falcon property.

Strong, experienced technical and capital markets team



- 1) ([Trading Economics](#)): ([link](#))
- 2) ([World Nuclear Assoc.](#)): ([link](#))
- 3) ([2011 AusAmerican Technical Report](#)): ([link](#))

NORTH SHORE URANIUM TEAM

DIRECTORS

Brooke Clements

President and CEO, experienced mining executive.

Jimmy Thom

Geologist and Exploration Manager for ASX-listed Dynamic Metals and Jindalee Resources (2021-present), Formerly with **Paladin Energy Limited** (2009-2021), Exploration Manager from 2018-2021.

Doris Meyer

Past and present independent director of a number of publicly listed exploration companies.

James Arthur

Senior Legal Counsel and Senior Director, Keysight Technologies, an S&P 500 company.

Andrew Stewart

Partner in the Capital Markets and Securities Group at Cozen O'Connor, an AMLaw 100 International law firm.

MANAGEMENT, ADVISORS and KEY INVESTORS

Brooke Clements (President, CEO) Geologist with +35 years industry experience, President Peregrine Diamonds (2007-2015), Senior Vice President Peregrine Metals (2007-2011), VP Exploration Ashton Mining of Canada (1999-2007). Received the AMEBC Hugo Dummett award twice (2010 and 2018) and the PDAC Bill Dennis award (2019) in recognition of diamond discoveries.

Dan O'Brien (Chief Financial Officer)

20+ years of industry experience. CFO for a number of publicly listed exploration companies.

Ben Meyer (Corporate Secretary)

10+ years industry experience in corporate and regulatory compliance.

Blake Steele (Advisor)

Former President/CEO **Azarga Uranium Corp.** (TSX:AZZ) (2015-2022) prior to its successful sale to enCore Energy for C\$200M.

Alex Molyneux (Founding investor)

Former CEO of **Paladin Energy Limited** (2015-2018).

CAPITAL STRUCTURE

SHARE CAPITAL SUMMARY¹

Shares outstanding	74,903,881
Share price (TSXV:NSU)	C\$0.20/share
Market capitalization	C\$15.0M
Warrants/options/fixed awards	18,002,812
Fully diluted	92,906,693

1) As at September 22, 2025

Insiders and founding investors hold approximately **28.9%** of issued shares*.

14.92 M shares (19.9% of issued shares) held by 6 founding investors are subject to a voluntary pooling agreement that restricts the disposition of these shares before October 19, 2026.

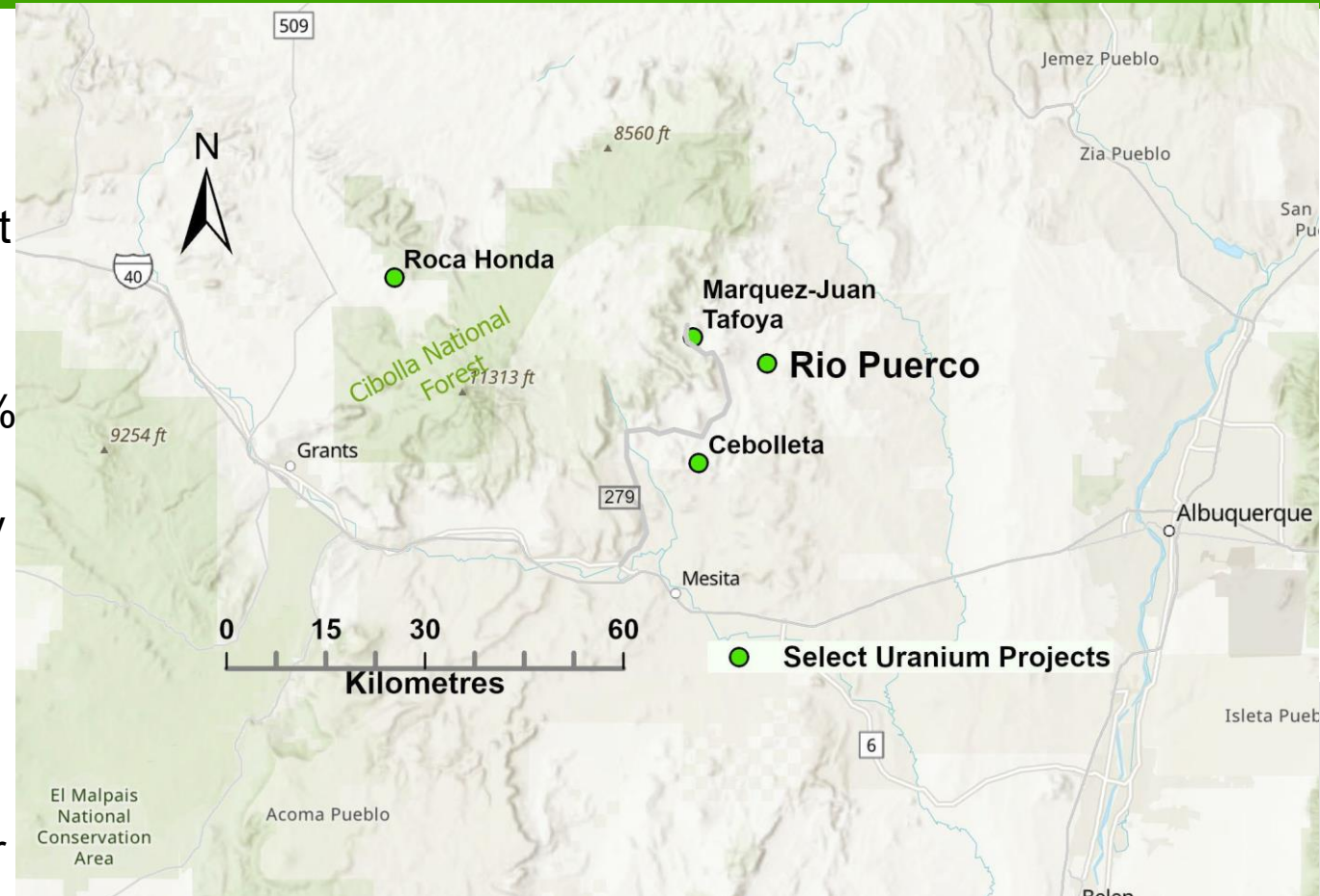


Target FA025, Falcon property, near mapped location of the D Zone showing

RIO PUERCO PROJECT, NEW MEXICO: OVERVIEW

- The Rio Puerco project currently consists of 64 Bureau of Land Management claims
- Located 60 km northwest of Albuquerque, New Mexico in the Grants Uranium District, the largest historical uranium producer in the United States
- Option agreement with Resurrection Mining LLC gives North Shore the right to earn up to an 87.5% interest in the project over a 5-year term
 - Staged earn-in structure allows the Company to optimize exploration programs
- Substantial historical dataset
- Preliminary review of historical data suggests the potential for In-Situ Recovery (“ISR”) mining
- Strong US government support for nuclear power and uranium mining projects as demonstrated by recent Executive Orders

See news releases dated [June 24, 2025](#), [August 28, 2025](#), and [September 11, 2025](#)



Roca Honda (Energy Fuels), Marquez-Juan Tafoya (Anfield Energy) and Cebolleta (Premier American Uranium) are advanced exploration/development uranium projects.

RIO PUERCO PROJECT: HISTORY

- Uranium discovered at the eastern edge of the Grants Uranium District by “wildcat” drilling in 1968
- Kerr-McGee drilled over 1,000 exploration holes and defined uranium ore reserves at Rio Puerco
- Kerr-McGee began development of a room and pillar underground uranium mine in the 1970s
 - The mine was never put into production and activity ceased after a short trial mining phase due to low uranium prices
- Very little activity until 2008 when an Australian company began defining a resource



260 m vertical mine shaft developed by Kerr-McGee in the 1970s

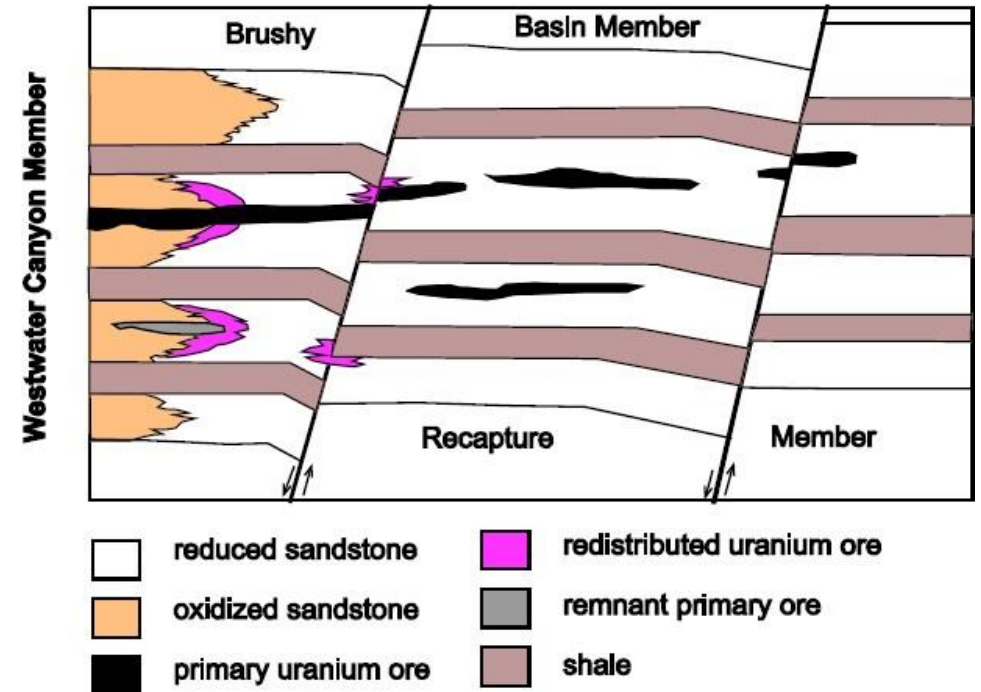
RIO PUERCO PROJECT: HISTORICAL RESOURCE

Historical Resource Estimate

- In 2009, Monaro Mining NL (“Monaro”) completed an independent geological review and resource estimate for Rio Puerco using exploration data generated by Kerr-McGee in the 1960s and 1970s. They reported a JORC 2004-compliant inferred resource of **6.0 million tonnes at an average grade of 0.09% eU₃O₈ using a cutoff grade of 0.03% eU₃O₈ for 11.4 million lbs. of contained U₃O₈¹.**
- In 2011, Australian-American Mining Corporation Ltd. (“**Aus-American**”) commissioned a technical report on Rio Puerco. The report validated the 2009 work and inferred resource estimate by Monaro of 11.4 million lbs. of U₃O₈ using a cutoff grade of 0.03% eU₃O₈².
- Aus-American proposed significant exploration programs that were not realized due to low uranium prices, in 2011 their land position consisted of 655 mining claims and approximately 130 hectares (320 acres) of private land

1 ([Monaro News Release](#))([link](#))

2 ([Aus-American Technical Report](#))([link](#))



Generalized stratigraphic section from the Grants Uranium District where most of the uranium mineralization, include at Rio Puerco, occurs in the Westwater Canyon Member of the Jurassic Morrison Formation. From *McLemore, 2010, The Grants Uranium District, New Mexico: Update on source, deposition and exploration: The Mountain Geologist, v. 48, no. 1*

HISTORICAL RESOURCE ESTIMATE

Limitations of Historical Resource Estimates

The historical resource at Rio Puerco outlined in this presentation has not been verified and should not be relied upon. It is a historical estimate and not current and does not comply with Canadian NI 43-101 guidelines for the reporting of Mineral Resources. A qualified person has not verified the historical resource on behalf of the Company and North Shore has completed no work programs at Rio Puerco. Though not current, the Company views the historical resource estimates as reliable and sufficient to justify the initiation of work programs aimed at validating and potentially expanding upon the estimates. There is no guarantee that the work programs envisioned by North Shore will ultimately result in the definition of NI 43-101 compliant resources. The data used for the resource estimate consisted of historical maps and data from 764 drill holes drilled by Kerr-McGee including downhole gamma-ray data converted to percent equivalent U_3O_8 (e U_3O_8), geological logs and drillhole survey data.

RIO PUERCO PROJECT: NORTH SHORE GOALS

- North Shore plans to work towards defining a NI 43-101-compliant uranium resource by:
 - Verifying historical data
 - Preparing geological models emphasizing the previously defined uranium mineralization
 - Formulating systematic drill programs aimed at verifying and expanding upon the historical resource
 - Acquiring the permits necessary to complete work programs
- The previously completed exploration work suggests that there is potential to expand the reported uranium mineralization on the current claim block
- Information from the drill programs will be used to further evaluate the deposit's amenability of ISR mining



RIO PUERCO PROJECT: OPTION AGREEMENT

Highlights of the Rio Puerco Option Agreement

- North Shore option to earn up to an 87.5% interest in Rio Puerco from Resurrection Mining LLC over a five-year term
- **Milestone 1:** \$125,000 cash payment and issuance of 7,483,000 common shares of the Company, 9.99% of the current issued and outstanding shares (**Complete**)
- **Milestone 2, to earn a 40% interest in the Project:** by 18 months after completion of the Transaction, a \$250,000 payment in cash or shares and \$750,000 in exploration expenditures
- **Milestone 3, to earn an aggregate 65% interest in the Project:** by 36 months after completion of the Transaction, a \$375,000 payment in cash or shares and \$1,000,000 in additional exploration expenditures
- **Milestone 4, to earn an aggregate 87.5% interest in the Project:** by 60 months after completion of the Transaction, a \$500,000 payment in cash or shares and \$1,500,000 in additional exploration expenditures.
- **Carried Interest:** North Shore will provide Resurrection a 12.5% free-carried interest in the Project through completion of an NI- 43-101-compliant Preliminary Economic Assessment at which time Resurrection can elect to form a participating joint venture or convert their interest into a 1.0% net smelter returns royalty
- **Bonus Payments:** for the 78 month period after completion of the Transaction, North Shore will pay Resurrection a \$100,000 bonus for each million lbs. of U_3O_8 estimated in current resources defined by the Company above 5 million and up to 20 million lbs. in accordance with NI-43-101 standards if and when resources are defined

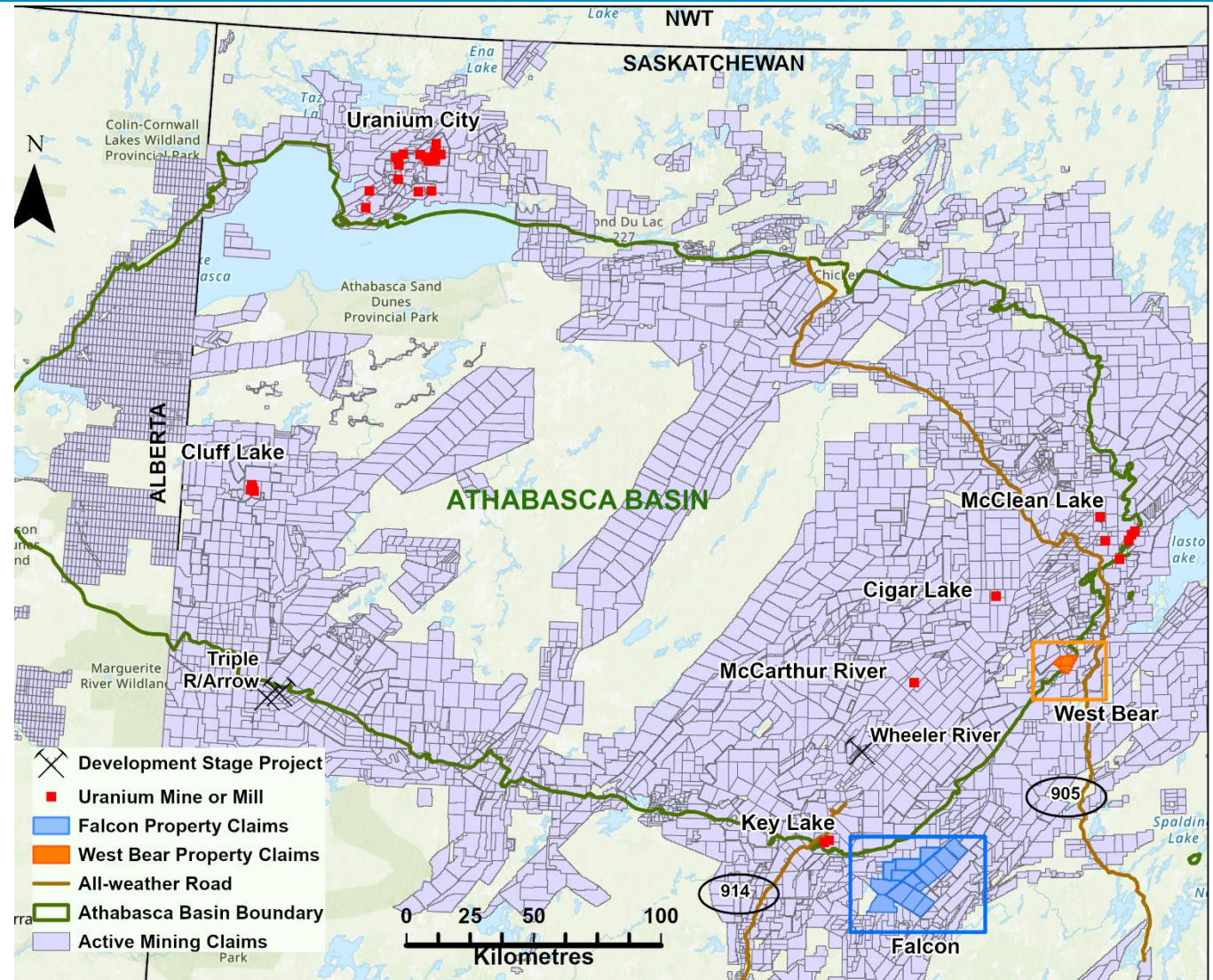
ATHABASCA BASIN OVERVIEW

The Company's Falcon and West Bear properties with established uranium cover over **60,000 ha** at the eastern margin of the Basin, Falcon and West Bear, are near:

- Two active mines that account for 100% of Canada's uranium production, Cigar Lake and McCarthur River
- Operating uranium mills located at McClean Lake and Key Lake that process the mined uranium ore

Previously unknown, near-surface uranium mineralization discovered in the Company's maiden drill program in March 2024 at two Falcon targets; up to 572 ppm U_3O_8 .

Multiple priority targets have yet to be tested at Falcon and West Bear. North Shore is now prioritizing targets for future drill programs.



ATHABASCA BASIN URANIUM MINERALIZATION MODEL

At the Key Lake Mine, which closed in 2002 and is located 30 km west of Falcon and 110km southwest of West Bear, unconformity-associated uranium ore was mined.

Uranium at Key Lake is spatially related to the intersection between fertile basement faults and the unconformity between the overlying sandstone (Manitou Falls Formation) and the underlying basement rocks (the Wollaston domain). Uranium ore at Key Lake is both sandstone-hosted and basement-hosted.

At Falcon, the sandstone has been eroded so the target is basement-hosted mineralization.

Sandstone covers the basement in over 80% of West Bear, therefore the target there is sandstone- and/or basement-hosted mineralization.

Cross-section from Historic Key Lake Mine, Saskatchewan

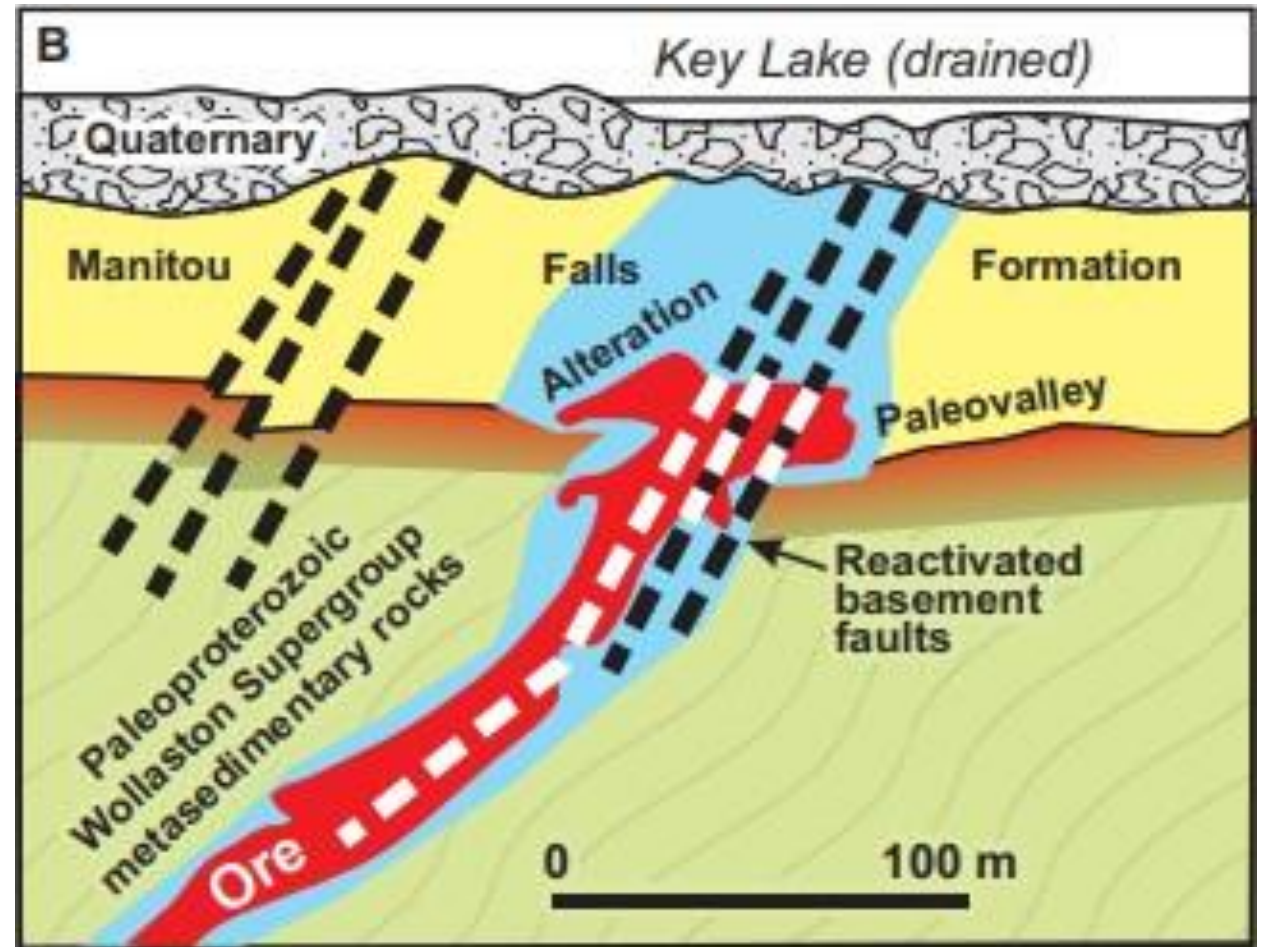


Diagram and technical information regarding Key Lake from Jefferson et al., 2007, Unconformity-associated uranium deposits of the Athabasca Basin, Saskatchewan and Alberta, in "Mineral Deposits of Canada", Geological Assoc. of Canada Special Publication No. 5.

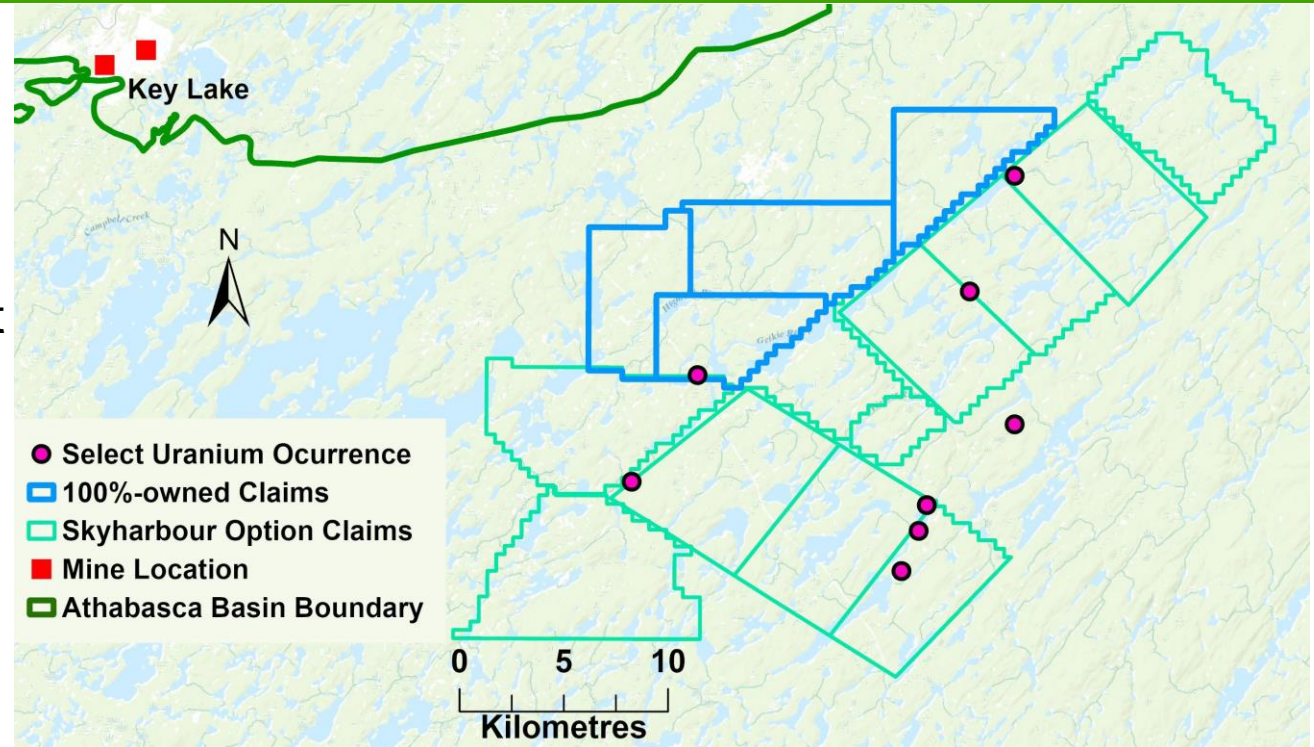
FALCON PROPERTY: OVERVIEW

15 claims, 55,303 hectares

- 100% ownership of 4 claims (12,791 ha)
- Option to earn up to a 100% in 11 claims (42,512 ha) by October 2027 from Skyharbour Resources Ltd.
- Exploration Agreement with the English River First Nation announced March 2025

Excellent Access and Infrastructure:

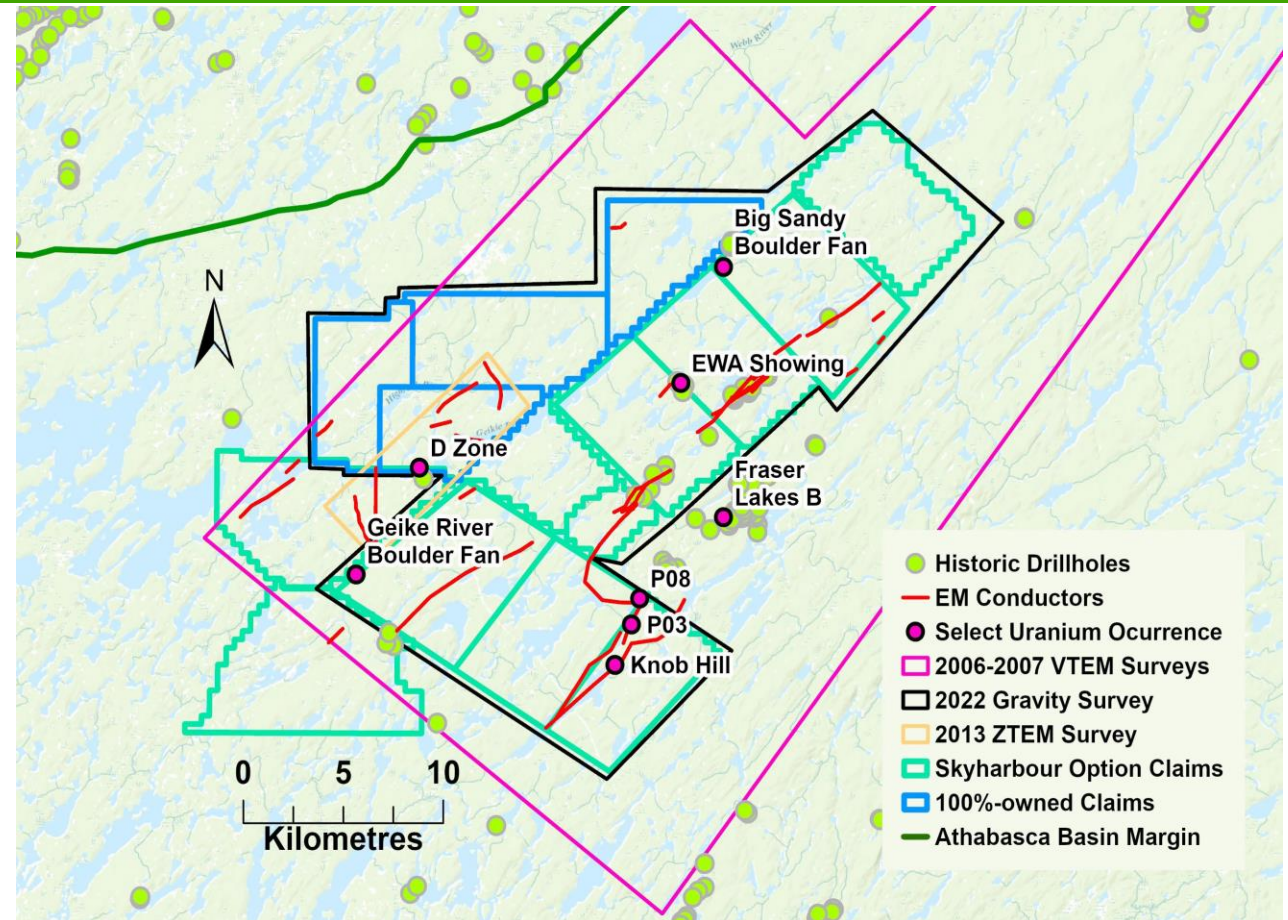
- 30 km east of the active Key Lake uranium mill. From 1983-2002, the mine produced 220 M lbs. of U_3O_8 at an avg. grade of more than 2.0%¹
- Power line at eastern edge of property



1: Source: Government of Saskatchewan – Mineral Deposit Query ([link](#)). There is no guarantee that a similar deposit will be discovered at Falcon. Information on map from Saskatchewan database.

FALCON: HISTORIC WORK

- 1960s to 2000s, exploration programs included airborne surveys, prospecting and limited drilling
- Multiple “radioactive boulders” and uranium showings discovered
- 2006, 2007 and 2013 high-resolution, heli-borne electromagnetic and magnetic surveys cover +90% of property
- In 2008, JNR Resources drilled 28 holes on the current property; discovered Fraser Lakes Zone B deposit just east of property in that program
- High resolution airborne gravity-magnetic-radiometric surveys flown in **2022** cover 80% of the property
- **Integrating the 2022 data with previous datasets and drilling results gives North Shore new interpretation insights**



Airborne survey outlines, drill hole, EM conductor and uranium occurrence locations from Saskatchewan government and North Shore databases

FALCON: 2024 DRILL TARGETS – EM

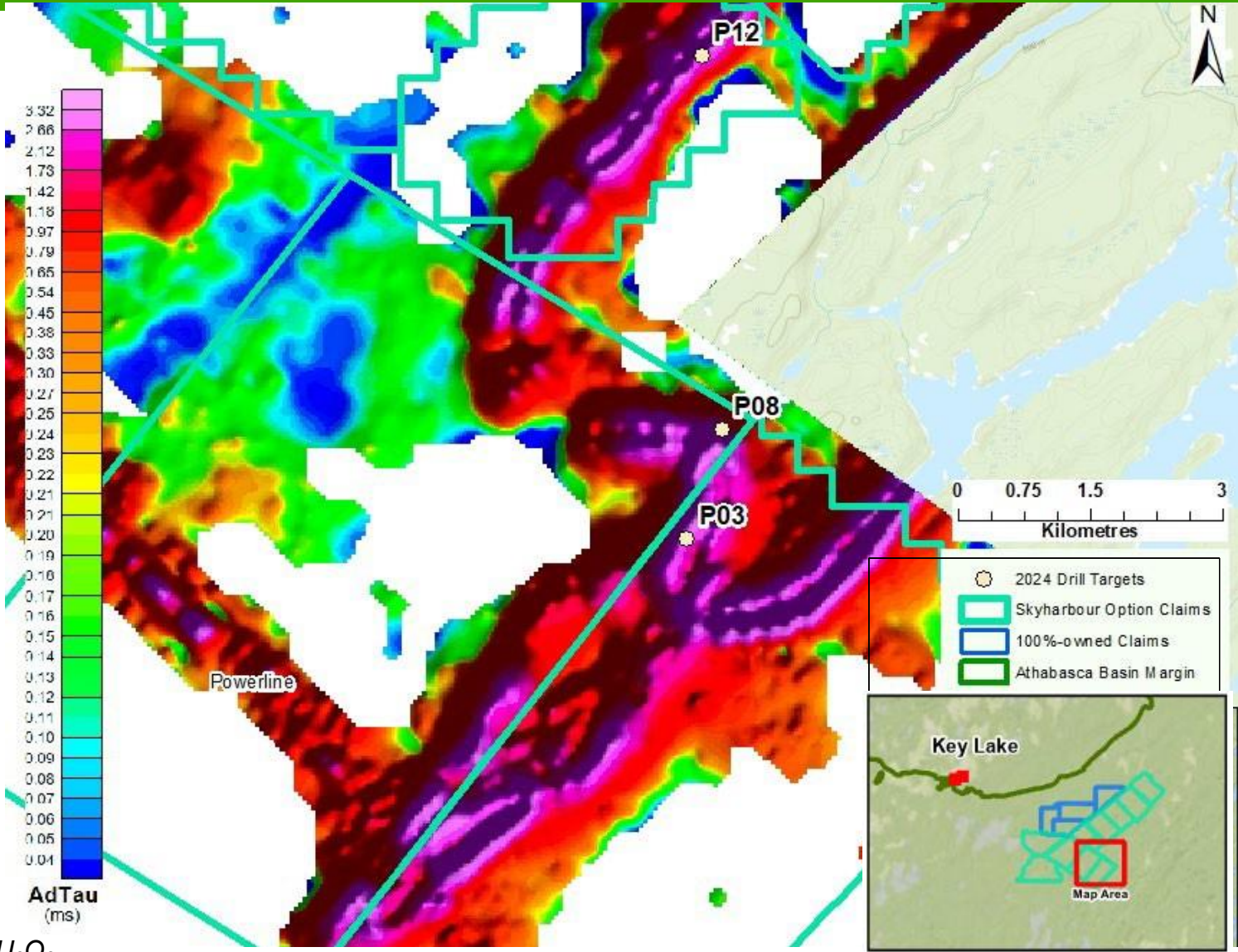
3 targets drilled in March 2024 in areas with no previous drilling.

Near-surface U mineralization at P03 and P08, P12 abandoned at 107 m due to unstable ground conditions. For drill program results see [May 16, 2024](#), news release.

P03 Sample Results

Anomalous Uranium U ₃ O ₈ (ppm) ¹				
From (m)	To (m)	Interval (m)	Interval Value	Max. Value
5.8	196.6		NAR	36
196.6	197.1	0.5	378	378
197.1	199.5		NAR	86
199.5	201.1	1.6	182	321
201.1	203.1		NAR	27
203.1	203.8	0.7	105	105
203.8	205.7		NAR	61
205.7	206.3	0.6	345	345
206.3	208.5		NAR	42
208.5	209.0	0.5	130	130
209.0	230		NAR	8

1) NAR=no anomalous results, anomalous defined as >100ppm U₃O₈



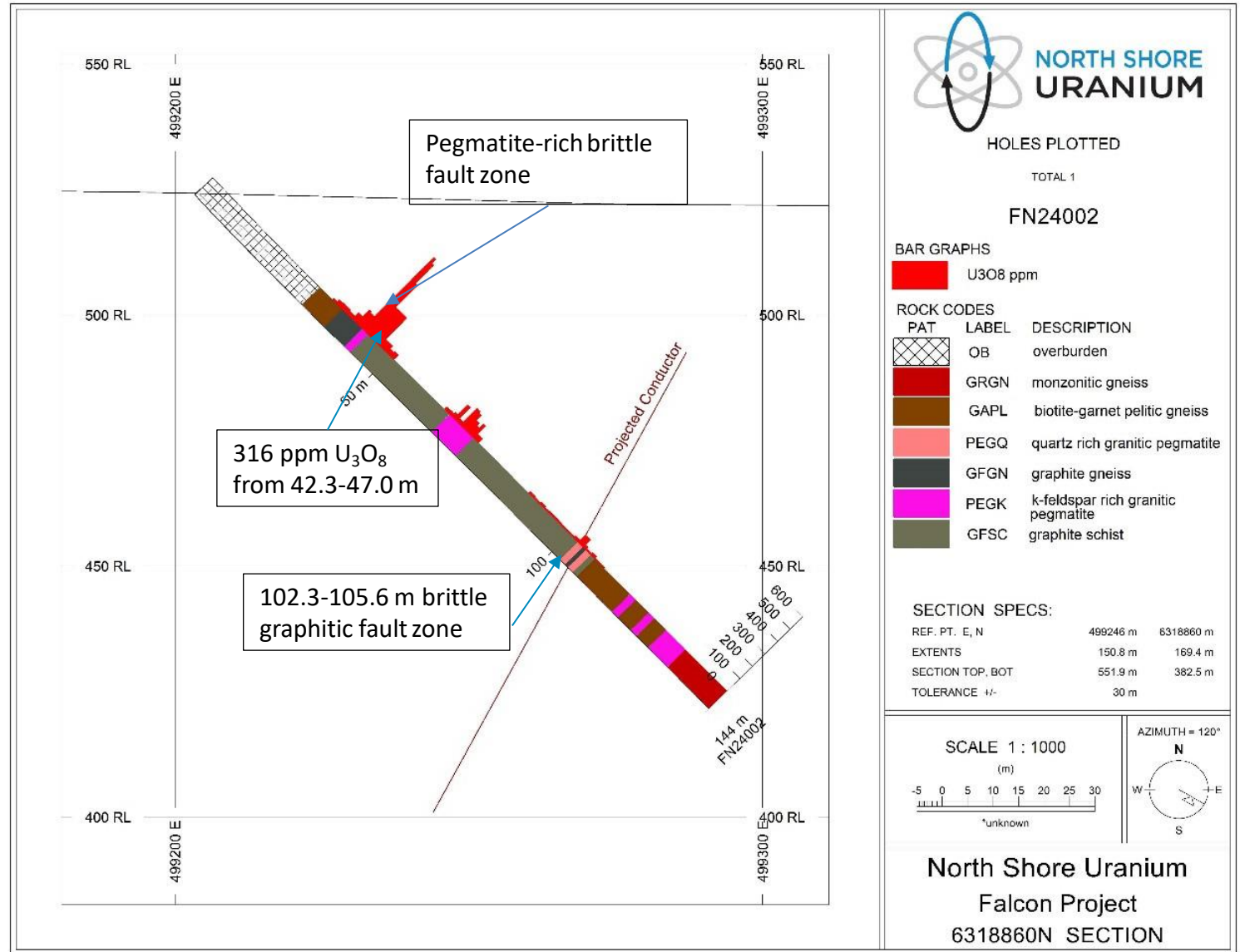
2006 and 2007 airborne survey data was processed and the EM conductor plate models were prepared by Condor North Consulting ULC

FALCON: DRILLHOLE FN24002 (TARGET P08)

Anomalous Uranium U ₃ O ₈ (ppm) ¹				
From (m)	To (m)	Interval (m)	Interval Value	Max. Value
34.0	40.6		NAR	51
40.6	41.2	0.5	103	103
41.2	42.3		NAR	98
42.3	47.0	4.7	316	572
47.0	67.6		NAR	49
67.6	68.4	0.8	110	110
68.4	69.4		NAR	22
69.4	71.0	1.6	128	132
71.0	109.5		NAR	96

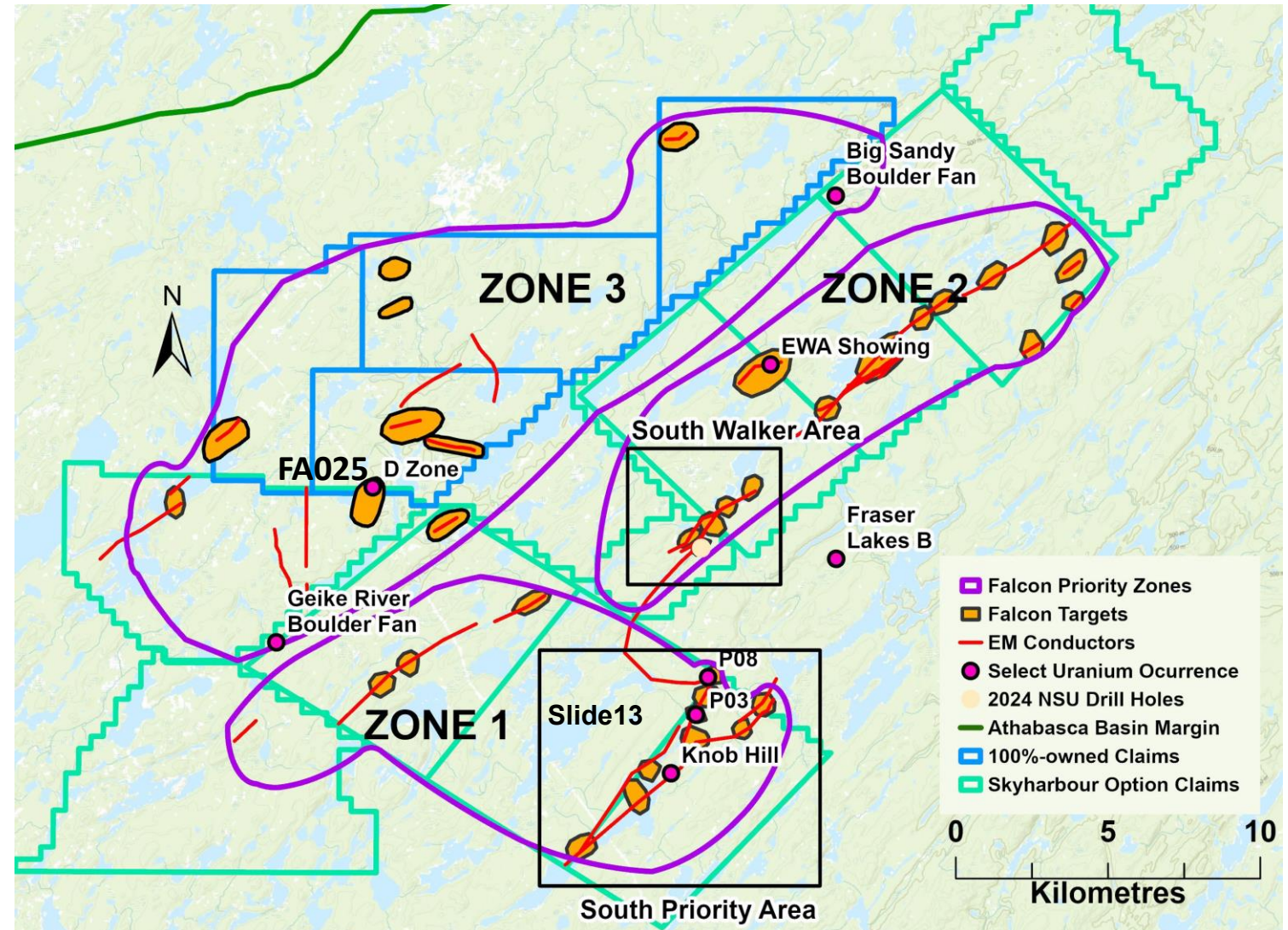
1) NAR=no anomalous results, anomalous defined as >100ppm U₃O₈

- Two near-surface uranium-bearing pegmatite-rich fault zones defined, 4.7 m interval from 42-47 m with 316 ppm U₃O₈ and one sample with 572 ppm U₃O₈
- 102.3-105.6m; brittle graphitic fault zone with strong bleaching and clay alteration, strong hematite and chlorite alteration along fractures and patchy silica alteration with uranium values up to 50 ppm U₃O₈



FALCON: TARGET SELECTION AND PRIORITIZATION

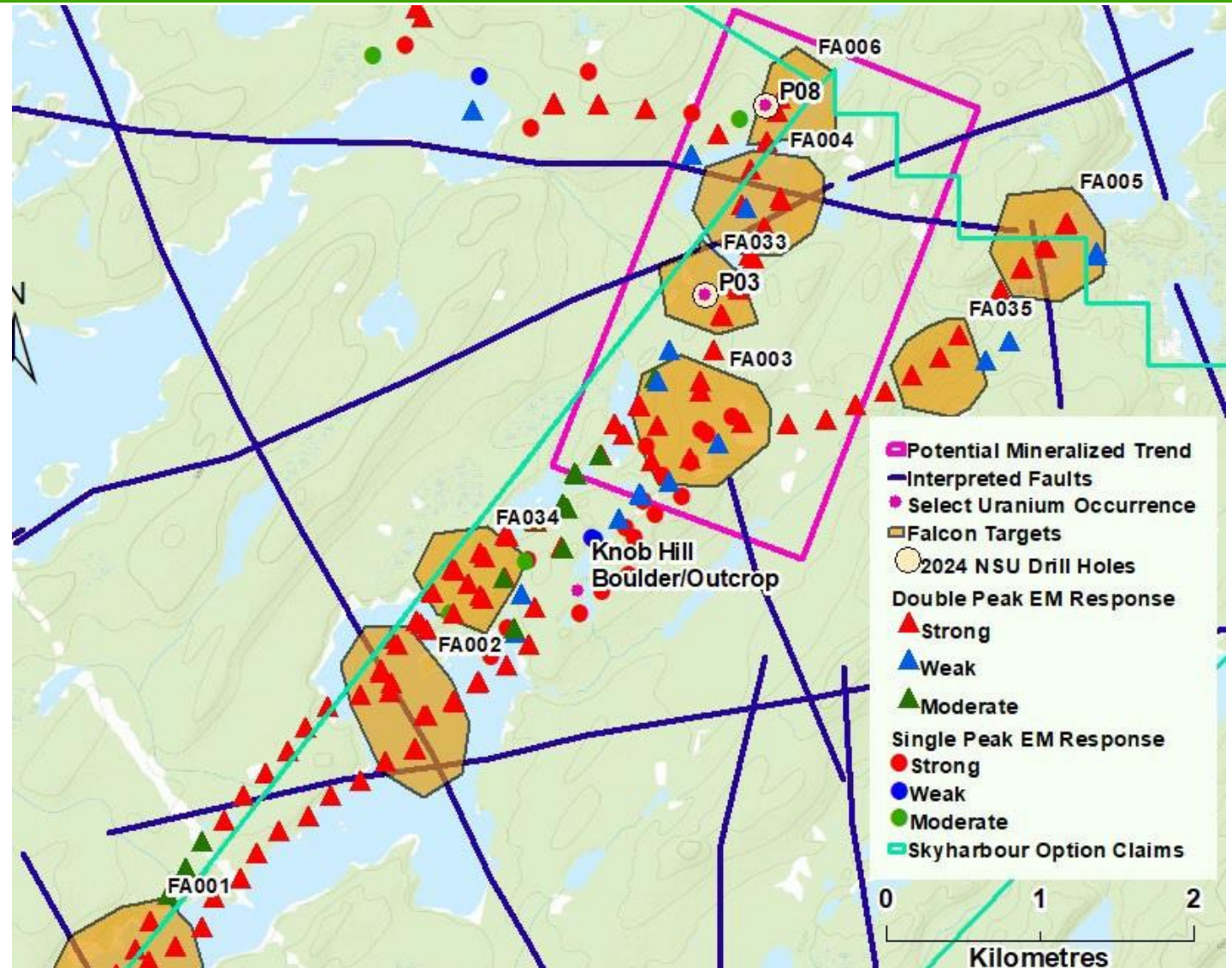
- Falcon claim package divided into three target zones, 1, 2 and 3
 - Targets generated and prioritized for future drill programs by integrating multiple geophysical and geologic datasets
 - Key target prioritization criteria include:
 - Character of EM conductor
 - Structural interpretation
 - Proximity to known uranium mineralization
 - 36 targets identified to date including 11 priority targets in 5 areas
 - Current top priorities are the South Priority Area, the South Walker Area and target FA025
 - See [May 27, 2025](#) news release
- NORTH SHORE URANIUM LTD.**



EM conductors and geologic features from Saskatchewan database and North Shore interpretation, target zones selected and prioritized by Condor North Consulting ULC, North Shore and TerraLogic Exploration Inc.

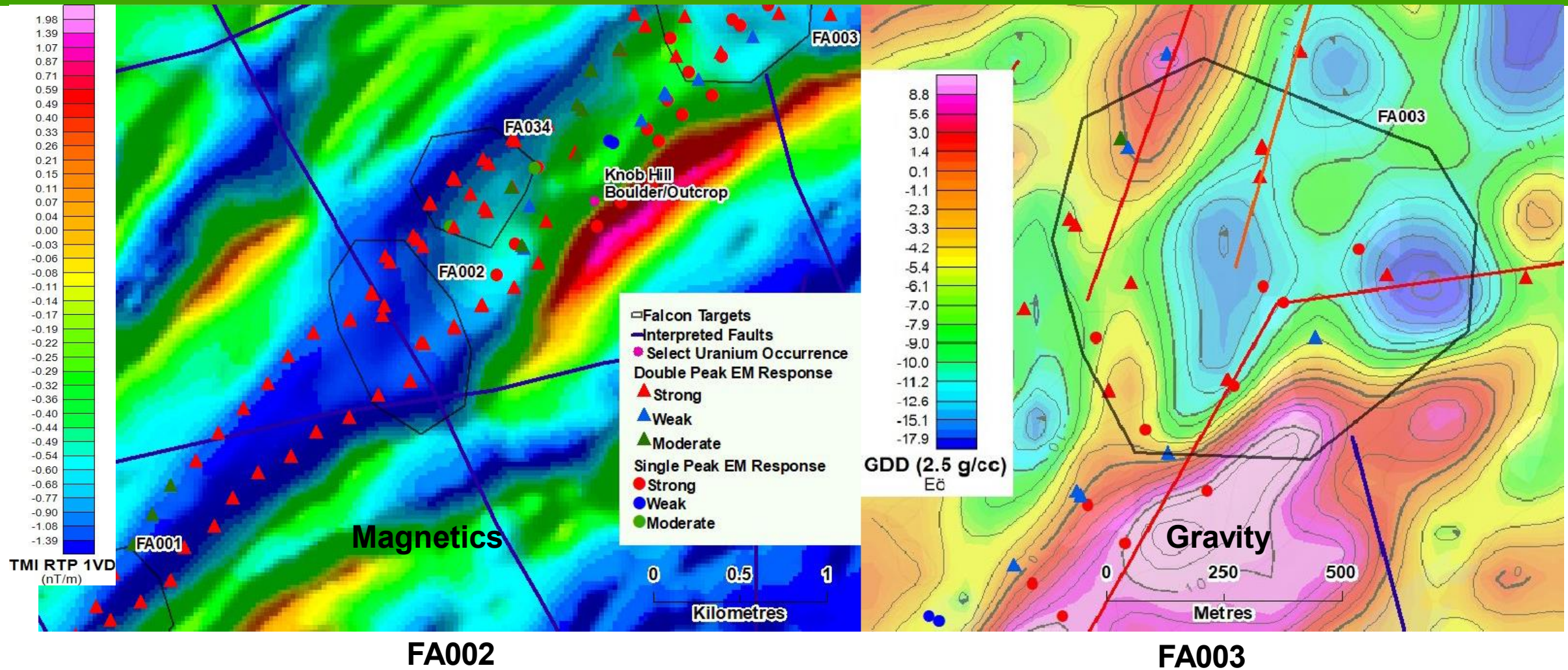
FALCON: SOUTH PRIORITY AREA

- Uranium discovered in 2024 at P03 and P08 (targets FA033 and FA006) (3 intervals with >300 ppm U_3O_8)
- A 3 km EM conductor trend that includes the new uranium discoveries at P03 and P08 is a priority for future drilling, including **FA003** where the EM conductor system and an associated magnetic low are disrupted and there is a gravity low and elevated uranium in the airborne radiometrics
- At **FA004**, conductor is offset near a fault intersection
- At **FA002**, strong, parallel EM conductors associated with a linear magnetic low are intersected by an interpreted fault



EM and structural interpretation by Condor North Consulting LLC; single- and double-peak responses picked from airborne survey profile lines.

FALCON: FA002 AND FA003

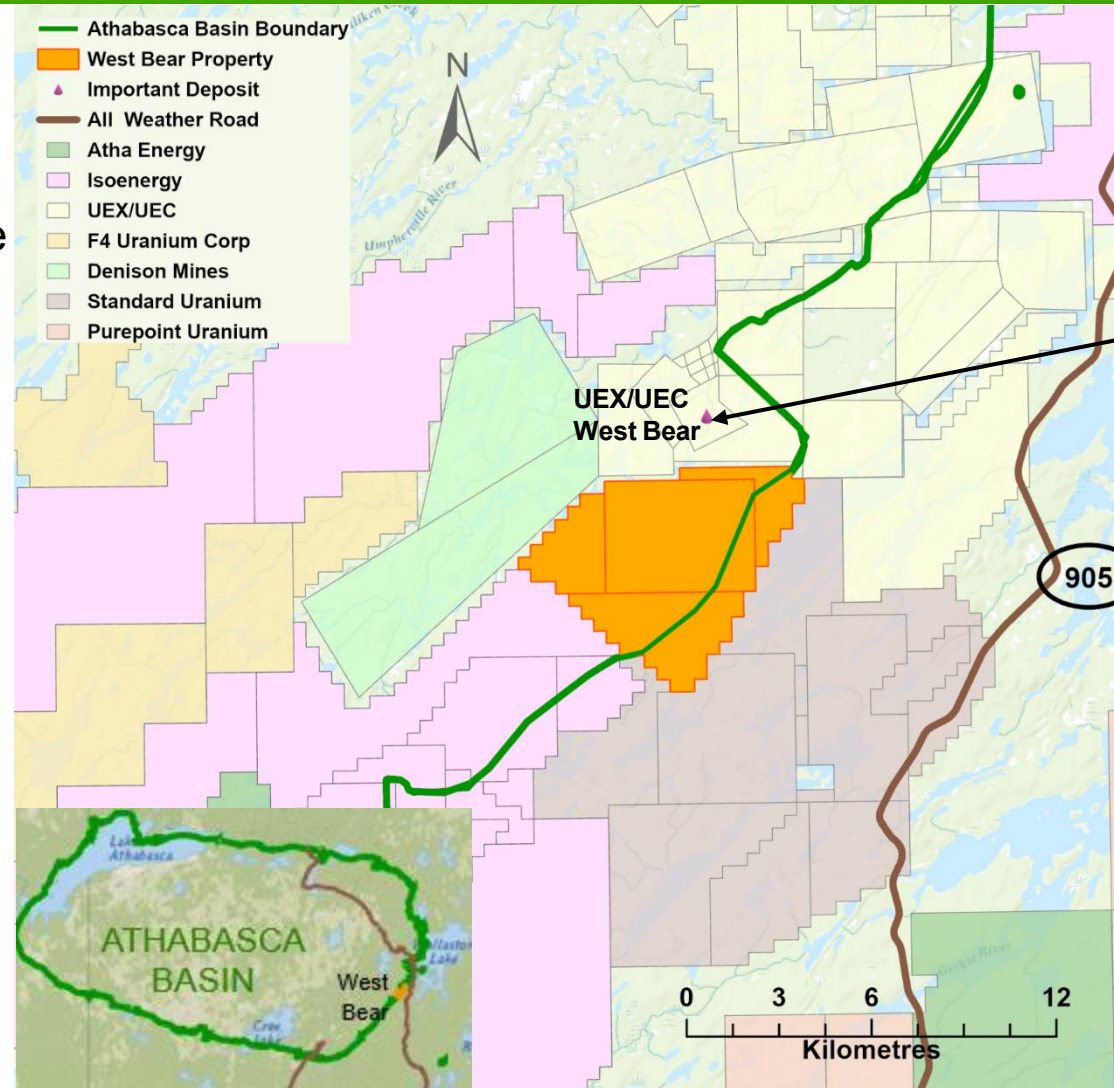


EM, magnetics and gravity processing and structural interpretation by Condor North Consulting LLC;
single- and double-peak responses picked from airborne survey profile lines.

WEST BEAR PROPERTY: OVERVIEW

4 claims, 3,927 hectares

- At eastern edge of the Athabasca basin near a uranium mineral reserve and Co-Ni mineral resource held by Uranium Energy Corp. (UEC)
- In area with ongoing exploration by Denison Mines and others
- Option to earn up to a 100% interest from Gem Oil Inc.



UEX/UEC Deposits Co-Ni resource*

- 0.295 M tonnes
- 3.8 M lb. Co @ 0.58%
- 3.2 M lb. Ni @ 0.49%

U probable reserve**

- 72,374 M tonnes @ 0.94%
- 1.4 M lb. U₃O₈

* From 2022 UEX technical report

** From 2010 UEX technical report

Claim information at September 15, 2025.
Technical information on the West Bear property is provided in the 2023 technical report entitled "Technical Report for the West Bear Property, Saskatchewan, Canada", filed under the profile of North Shore Uranium at:
www.sedarplus.ca

WEST BEAR: PREVIOUS WORK

Drilling history on 4 claims (15 holes)

1968: Gulf (1)

1977: Conwest (4)

1978: Conwest (5)

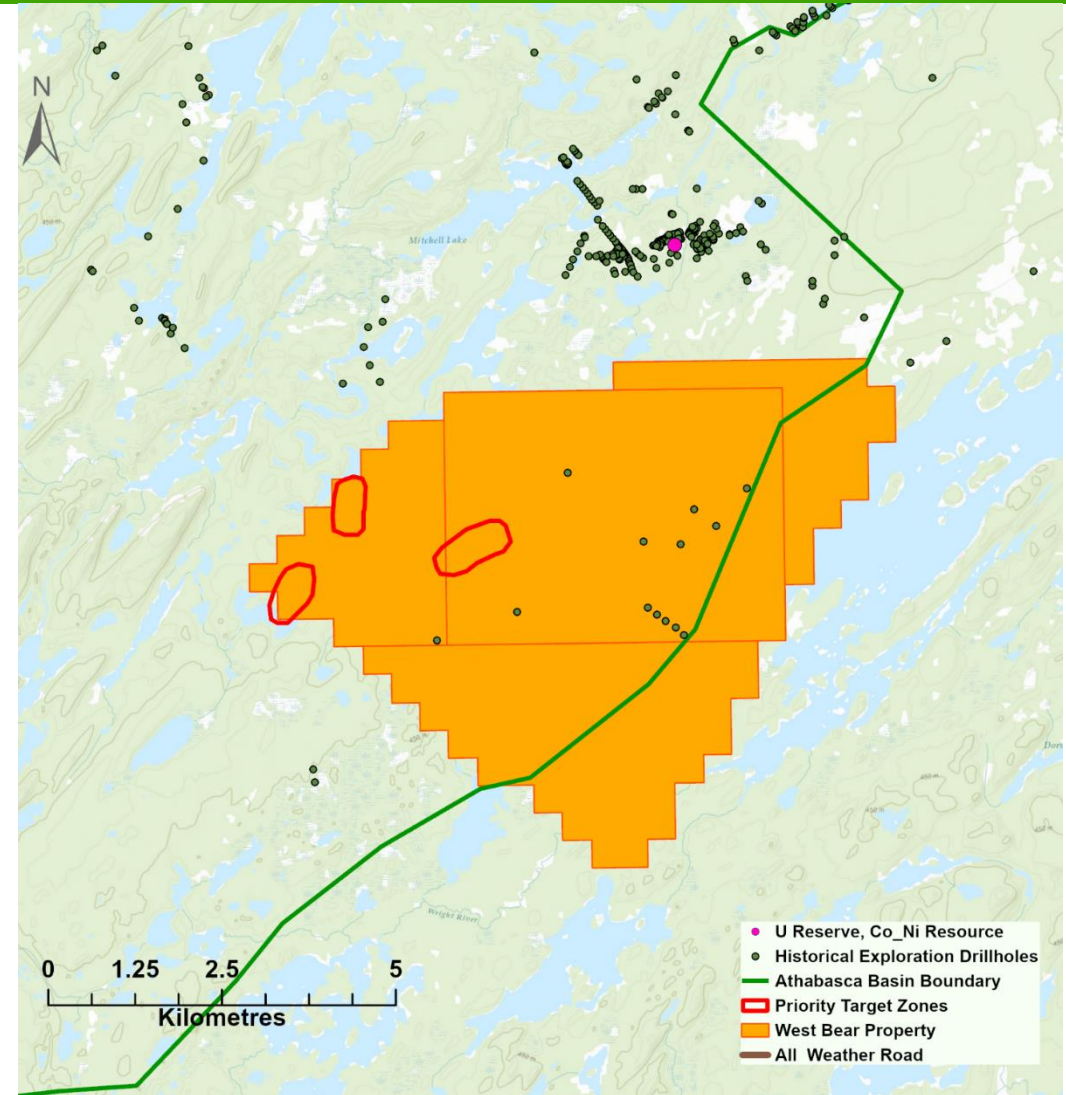
Denison: 2007 (2), 2015 (3)

North Shore's top 3 targets are along the western edge of the claim block within the Basin



West Bear boulder sampling, 2022

NORTH SHORE URANIUM LTD.



Drill holes and Basin margin from Saskatchewan govt. database, UEC deposit location from UEX technical report

THANK YOU

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