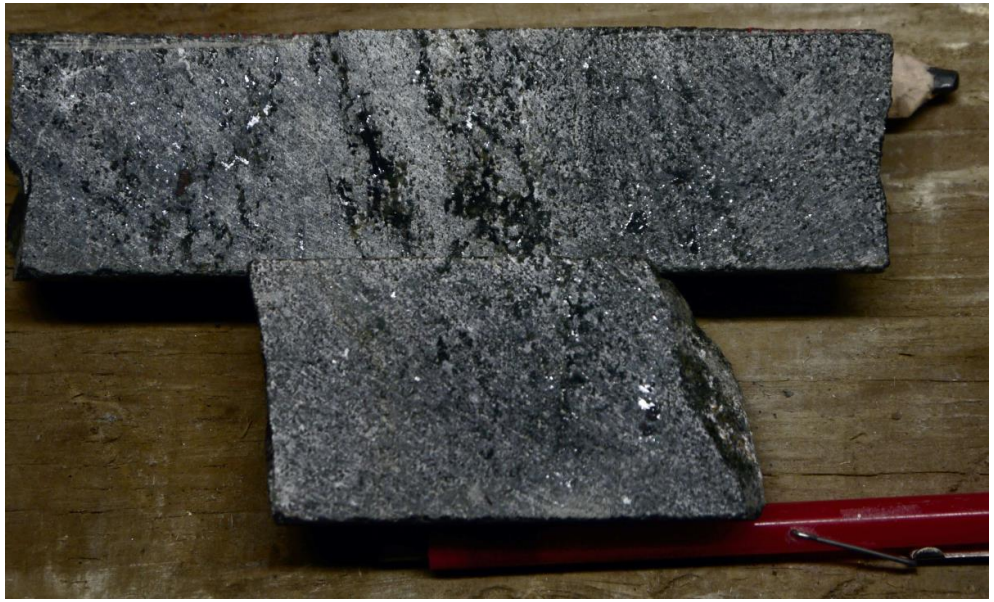
FORUM ENERGY METALS CORP.

# JANICE LAKE SEDIMENTARY COPPER PROJECT, SASKATCHEWAN

## A RIO TINTO CANADA / FORUM ENERGY METALS EXPLORATION PROJECT



*Exploring for Energy Metals in North America*

**May 11, 2019**

## Disclaimer

*The following presentation may contain forward-looking statements. Forward-looking statements address future events and conditions and therefore involve inherent risks and uncertainties. Actual results may differ materially from those currently anticipated in such statements.*

*Forward-looking information is subject to known and unknown risks, uncertainties and other factors that may cause Forum's actual results, level of activity, performance or achievements to be materially different from those expressed or implied by such forward-looking information. Such factors include, but are not limited to: uncertainties related to the historical resource estimates, the work expenditure commitments; the ability to raise sufficient capital to fund future exploration or development programs; changes in economic conditions or financial markets; changes in input prices; litigation; legislative, environmental and other judicial, regulatory, political and competitive developments; technological or operational difficulties or an inability to obtain permits required in connection with maintaining, or advancing projects its exploration projects and labour relations matters.*

*All historical estimates were completed prior to the implementation of NI 43-101. A qualified person has not completed sufficient work to classify the historic estimates current mineral resources, and is not treating the historic estimates as current mineral resources. Hence, they should not be relied upon. Technical information has been prepared in accordance with the Canadian regulatory requirements set out in NI 43-101, and reviewed by Richard Mazur, P. Geo, MBA, President, Chief Executive Officer and Director for Forum Energy Metals Corp. and Ken Wheatley, P. Geo, Vice President, Exploration, both Qualified Persons under National Instrument 43-101. It should be noted that mineral resources, which are not mineral reserves, do not have demonstrated economic viability as defined by NI 43-101 .*

# SHARE PROFILE & FINANCIALS

| | | |
|---|---|---|
| LISTED TSX VENTURE | **Ticker Symbol** : | **FMC.V** |
| SHARE STRUCTURE | **Shares outstanding (Basic)**: | **107,488,904** |
| | Warrants ($0.10) | 11,080,000 (exp. Apr. 2024) |
| | Warrants ($0.10 & $0.12) | 4,278,160 (exp. Mar, Apr, June 2020) |
| | Broker Warrants ($0.055) | 133,000 (exp. August 2019) |
| | Options (at $0.10) | 4,385,000 |
| | **Fully Diluted:** | **127,365,064** |
| MARKET CAPITALIZATION | **Market capitalization**: | **$7.0 Million** |
| SHAREHOLDERS | **Major shareholders**: | Institutional – 15%<br>Holystone Energy – 9%<br>Transition Metals – 8%<br>Management and Directors - 6%<br>Lumina Capital 3% |
| SHARE PERFORMANCE | **Recent share price**: | **$0.065** (at May 10, 2019) |
| | 52-week high/low: | $0.03 – $0.09 |

# TECHNICAL TEAM

*For over 37 years Ken has explored and successfully discovered uranium in Saskatchewan. He has a thorough understanding of the Geology of Saskatchewan and knows how to maximize the exploration dollar in the Province.*

KEN WHEATLEY, P.GEO., M.Sc.
VICE PRESIDENT, EXPLORATION

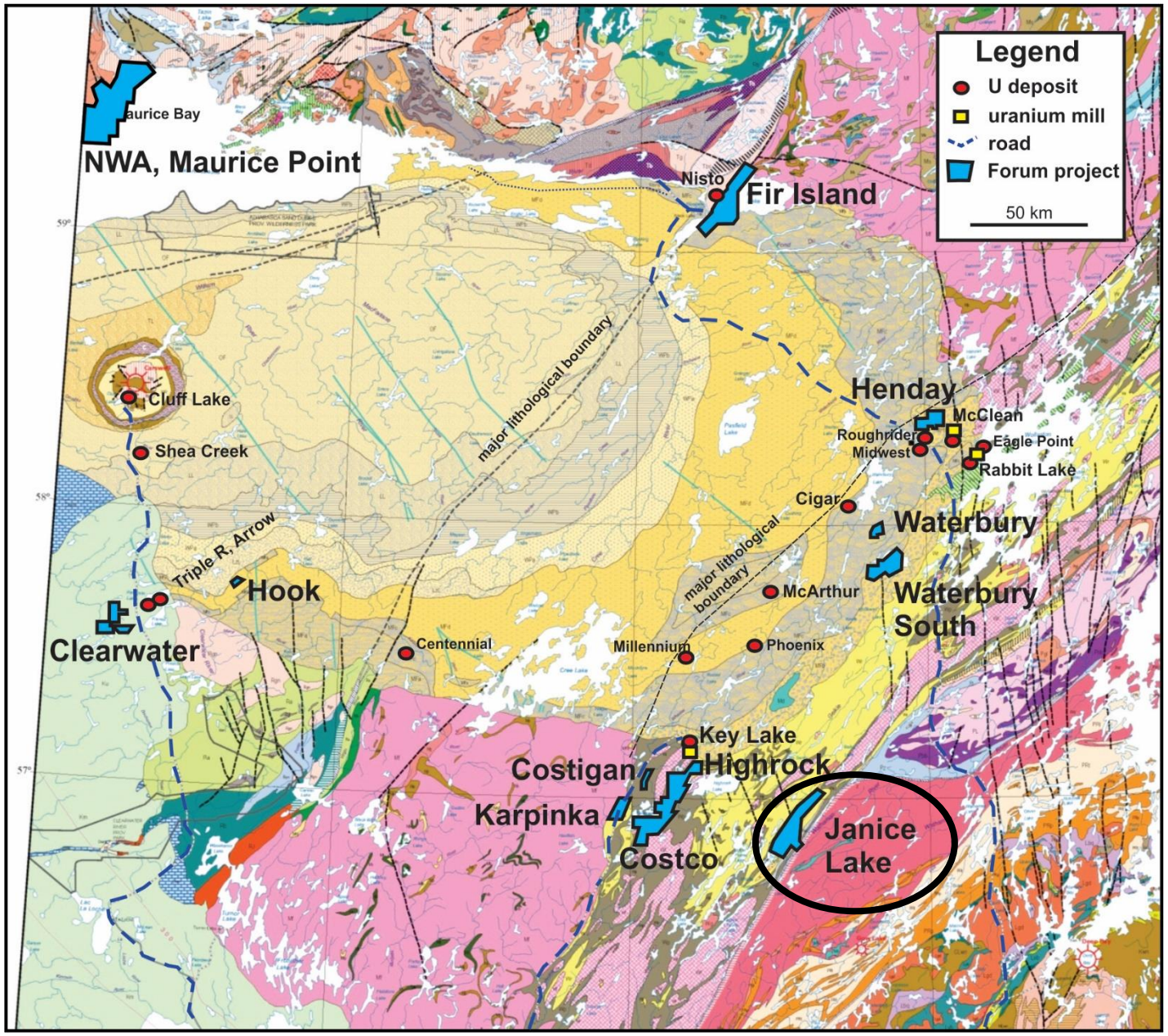
*Jim has over 45 years North American and International experience on a variety of base and precious metal deposits and mines. He has worked as a Project Manager, Exploration Manager and VP, Exploration for both major and junior companies.*

JIM ATKINSON, P.GEO., M.Sc.
GEOLOGICAL CONSULTANT

# Saskatchewan #1 in Canada

## Janice Lake Sedimentary Copper Project in the WOLLASTON COPPERBELT

## Seven Drill Ready Uranium Projects in the World Class ATHABASCA BASIN



# DISTRICT SCALE OPPORTUNITY: Underexplored Sedimentary Copper Project

**Rio Tinto has Optioned the project for $30 Million**
***DRILLING TO COMMENCE SUMMER 2019***

**SIZE** ✓
- District scale mineralization over 50 km; Few Copper Plays with this Potential

**GRADE** ✓
- 2018 Forum Drill Program – 18.5m @ 0.94% Cu & 6.7 g/t Ag, incl. 5.2m @ 2.22% Cu & 16.5 g/t Ag; Open at depth and copper intercepted by drilling for a 6km trend

**OPEN PIT POTENTIAL** ✓
- 2018 drilling confirms continuity of near-surface mineralization amenable to open pit mining; Chalcocite, Bornite and Native Copper

✓ **Proterozoic Sedimentary Copper Deposits can be VERY LARGE**
- Udokan, Russia
- Central African Copper Belt, Zambia/DRC
- Revett, Montana, USA

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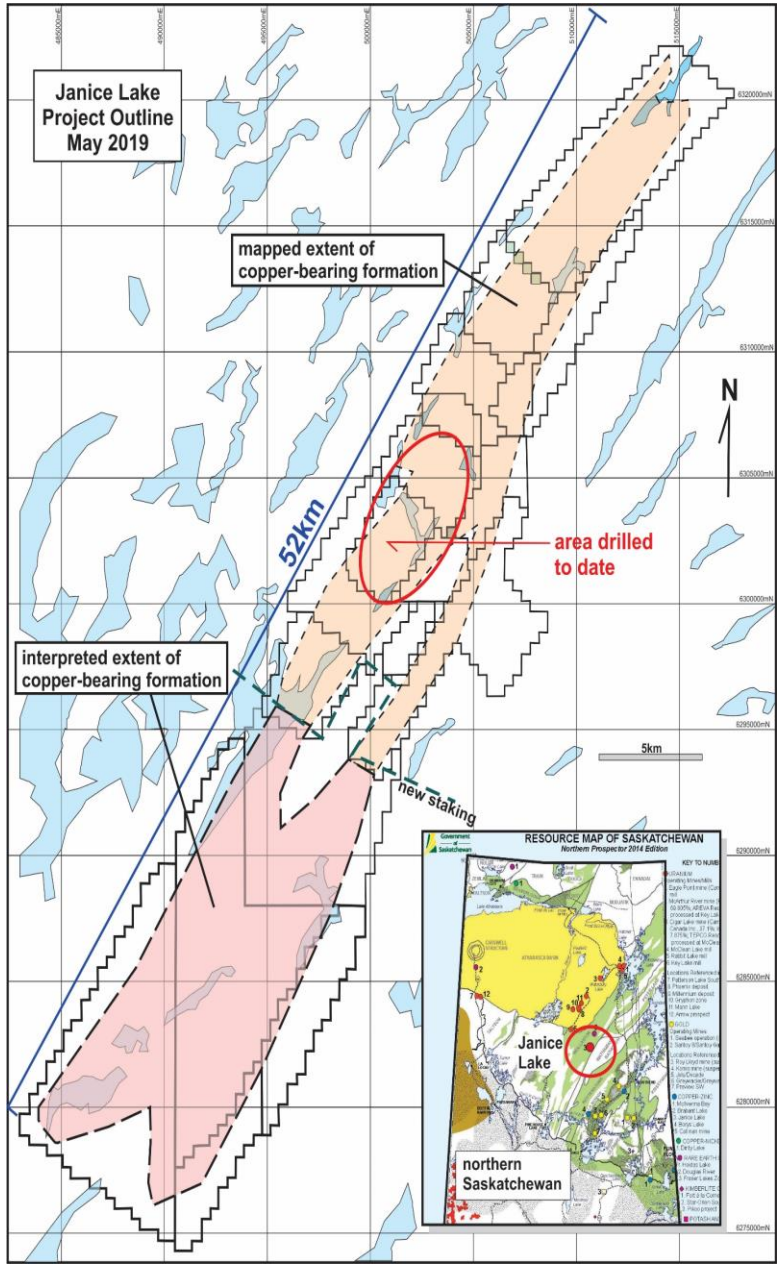
# RIO TINTO EXPLORATION CANADA OPTION AGREEMENT

- **Rio to spend $3 million in exploration over the next 18 months;**
- **Rio can earn 51% by spending $10 million in exploration over 4 years, paying Forum $490,000 in cash payments, and paying the remaining $200,000 in cash payments owed to Transition Metals Corp;**
- **Rio can earn an additional 29% interest (total 80% interest) by spending a further $20 million in exploration over three years (total $30 million) and making further cash payments of $150,000 to Forum (total $640,000);**
- **Recent staking by Forum has doubled the size of Janice Lake to include the entire 52 km Wollaston Copperbelt.**

## JANICE LAKE COPPER PROJECT



# JANICE LAKE COPPER PROJECT

**Prolific period in Earth's history for the creation of sediment hosted stratiform copper deposits**

- Udokan - Russia
- Dongchuan – China

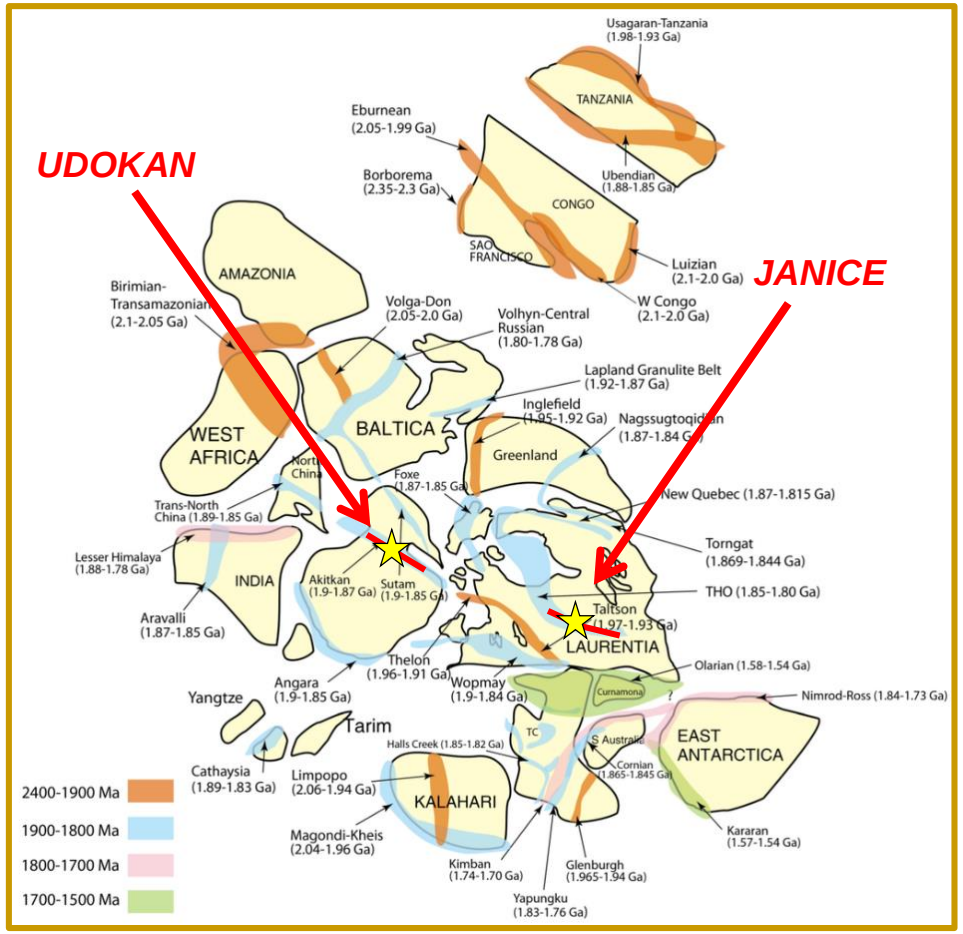
**Key period in Earth's history**

- Formation of supercontinents
- Formation and activation of large restricted basins
- Preservation of supracrustal rocks

**Characteristics of Udokan (54B lbs. Cu) & Janice Lake (??? lbs. Cu)**

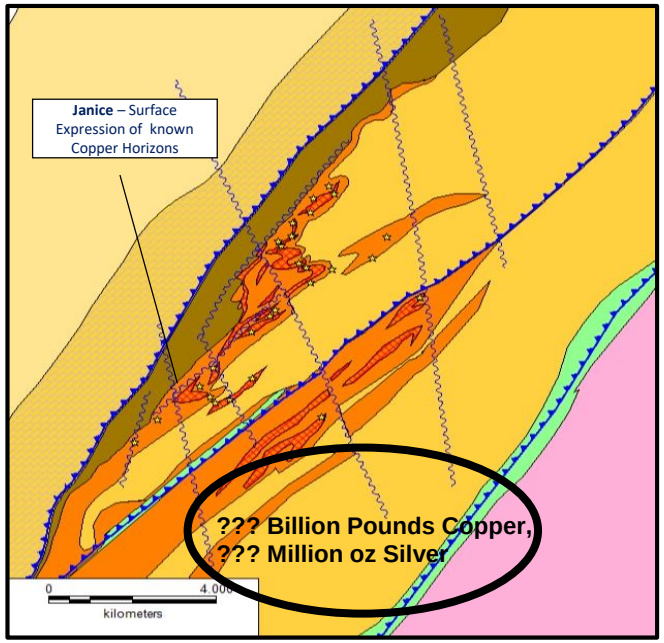
- Udokan deposited in restricted basin that developed as the Aldan and Anabar super-terrains of Siberia collided
- Wollaston domain formed in restricted basin that formed as the Superior and Churchill terrains collided
- Evidence of semi-arid evaporitic conditions during part of the depositional regime within 30° of the paleo equator

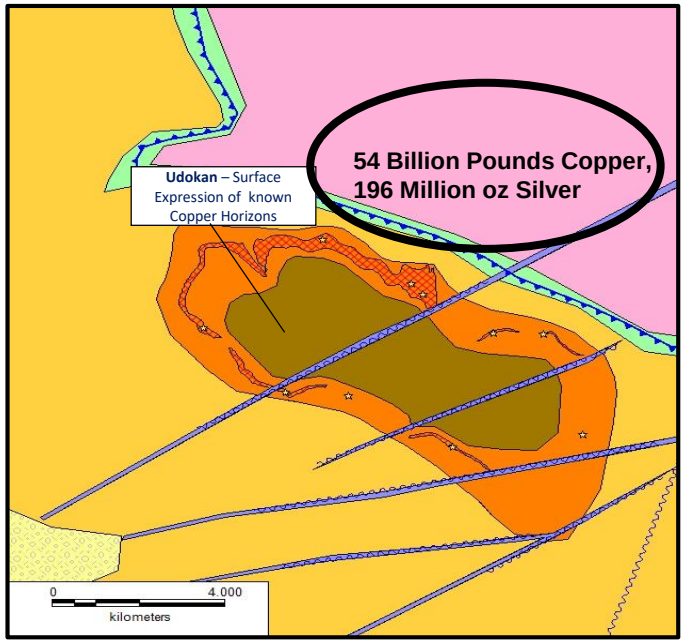
**Paleo-continent Columbia showing major collisional orogens (2400–1500 Ma)**

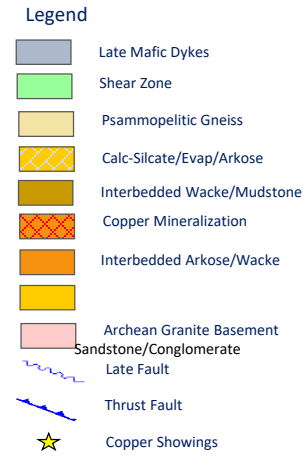



*Source: Geosciences 2013, Article Preservation and Recycling of Crust during Accretionary and Collisional Phases of Proterozoic Orogens. Reconstruction after Zhao et al.*

# Similarities to Udokan Supergiant Copper Deposit



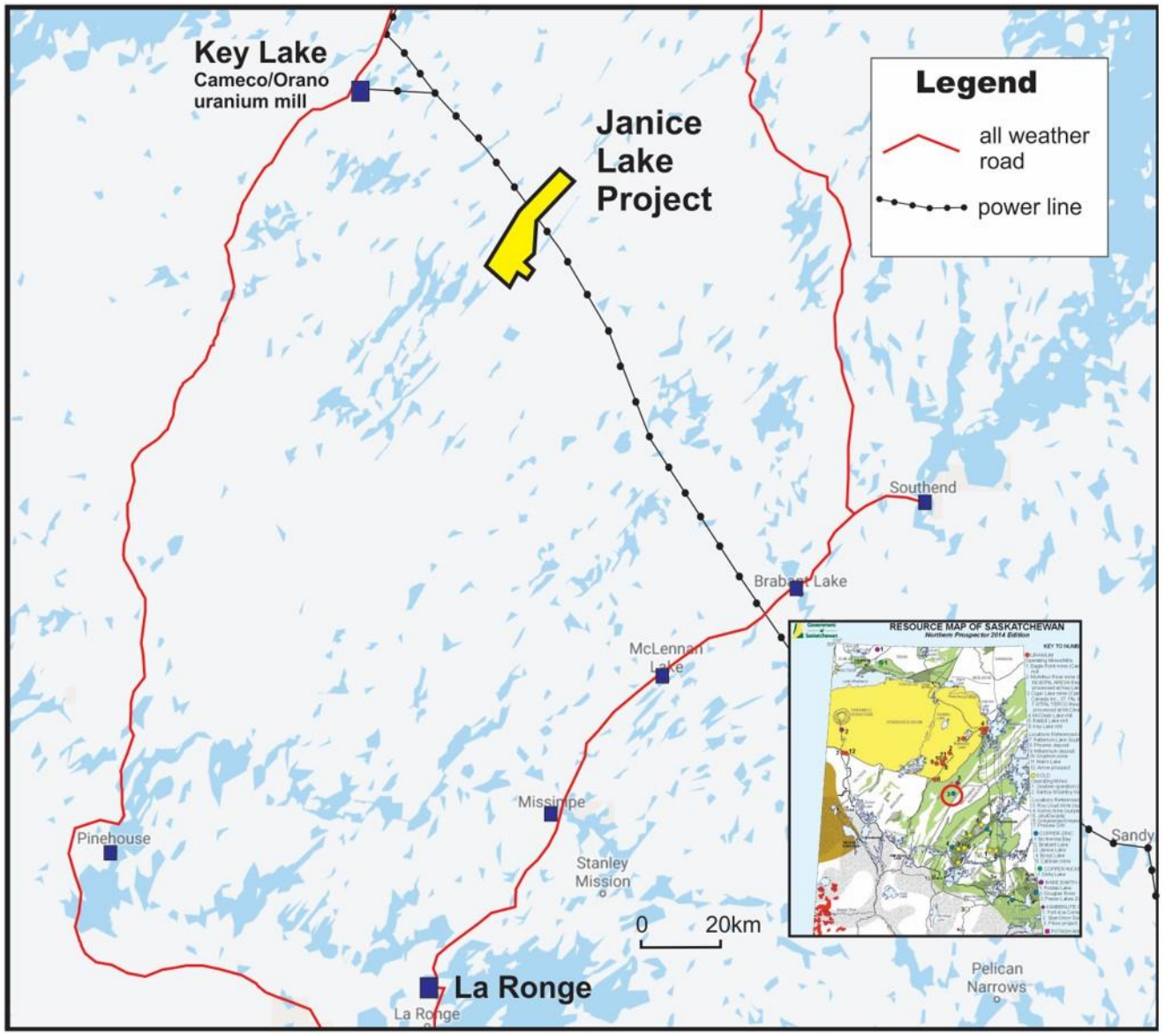

| Janice Lake Deposit (Forum Energy Metals) | Udokan Deposit (Baikal Mining Company) | Attributes |
|---|---|---|
| 2,100 to 1,800 Ma (follows Great Earth Oxidation Event) | 2,200 to 1,900 Ma (follows Great Earth Oxidation Event) | Age |
| Sandstone Copper (Revett Style) - Hitzman | Sandstone Copper (Revett Style) - Hitzman | Deposit Model |
| Copper & Silver hosted in the basal arkose and arkosic conglomerate horizon proximal to a semi-pelite / wacke | Copper & Silver hosted in the basal arkose and arkosic conglomerate horizon proximal to a semi-pelite / wacke | Stratigraphy |
| Stratiform to stratbound disseminated chalcocite, with minor covelite, bornite, chalcopyrite and native copper | Stratiform to stratbound disseminated chalcocite-bornite, with minor chalcopyrite and pyrite | Mineralization |
| To be determined | **>$ 150 billion** - Third largest undeveloped copper resource | Insitu Value |

**Udokan Mineral Resource (Inclusive of Reserves)**

| Classification | Ore tonnage, Mt | Copper grade, % | Silver, g/t |
|---|---|---|---|
| Measured | 339 | 1.03 | 8.9 |
| Indicated | 1 483 | 1.01 | 11.1 |
| Inferred | 932 | 0.89 | 14.3 |
| TOTAL | 2 754 | 0.97 | 11.9 |

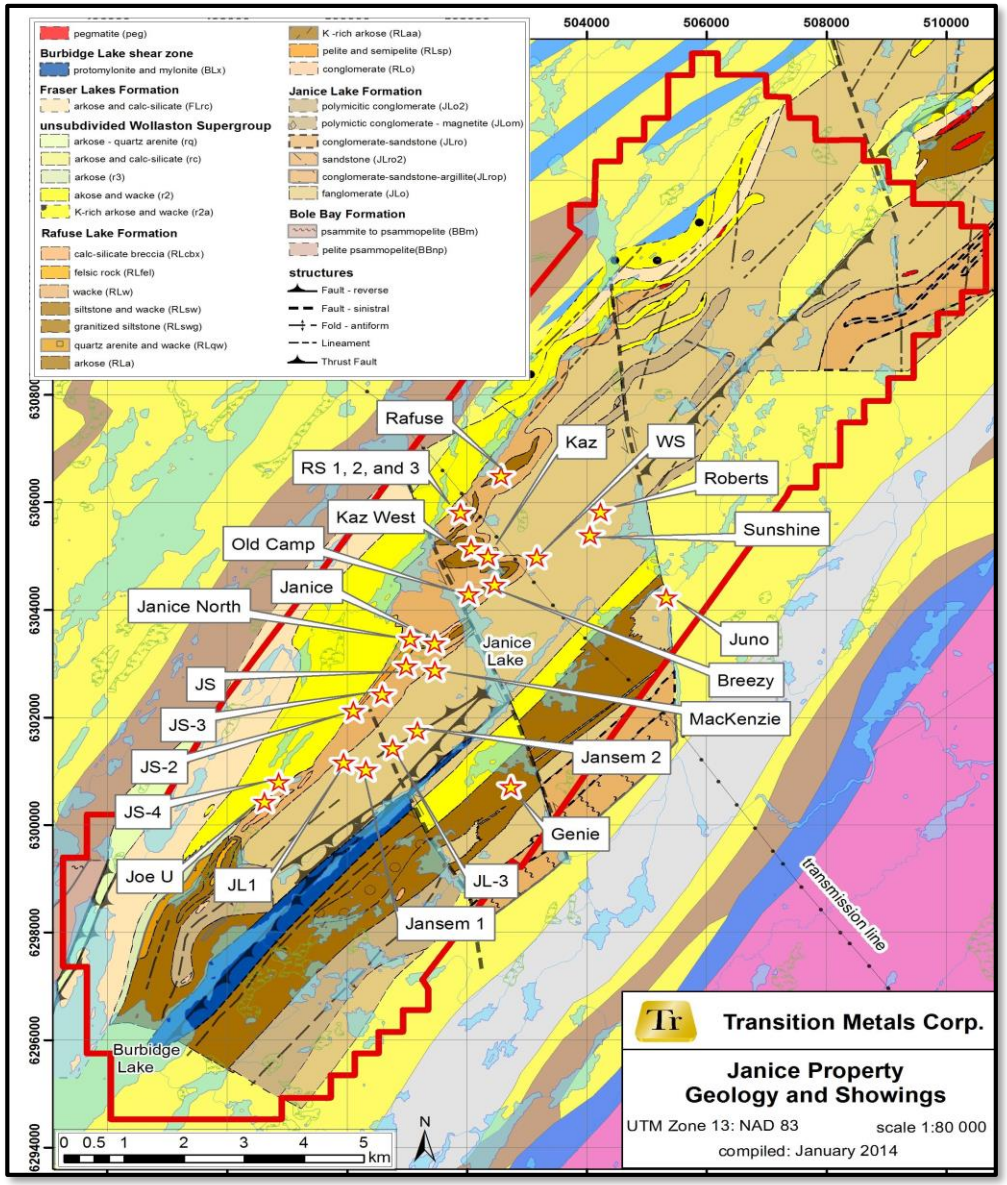
*Source: Baikal Mining Company – Published 2013 Jorc Compliant Reserve and Resource Summary*

- **Located 55km from Cameco's Key Lake Uranium Process facility, with road access nearby and power line running through the property**



# Janice Lake Exploration History

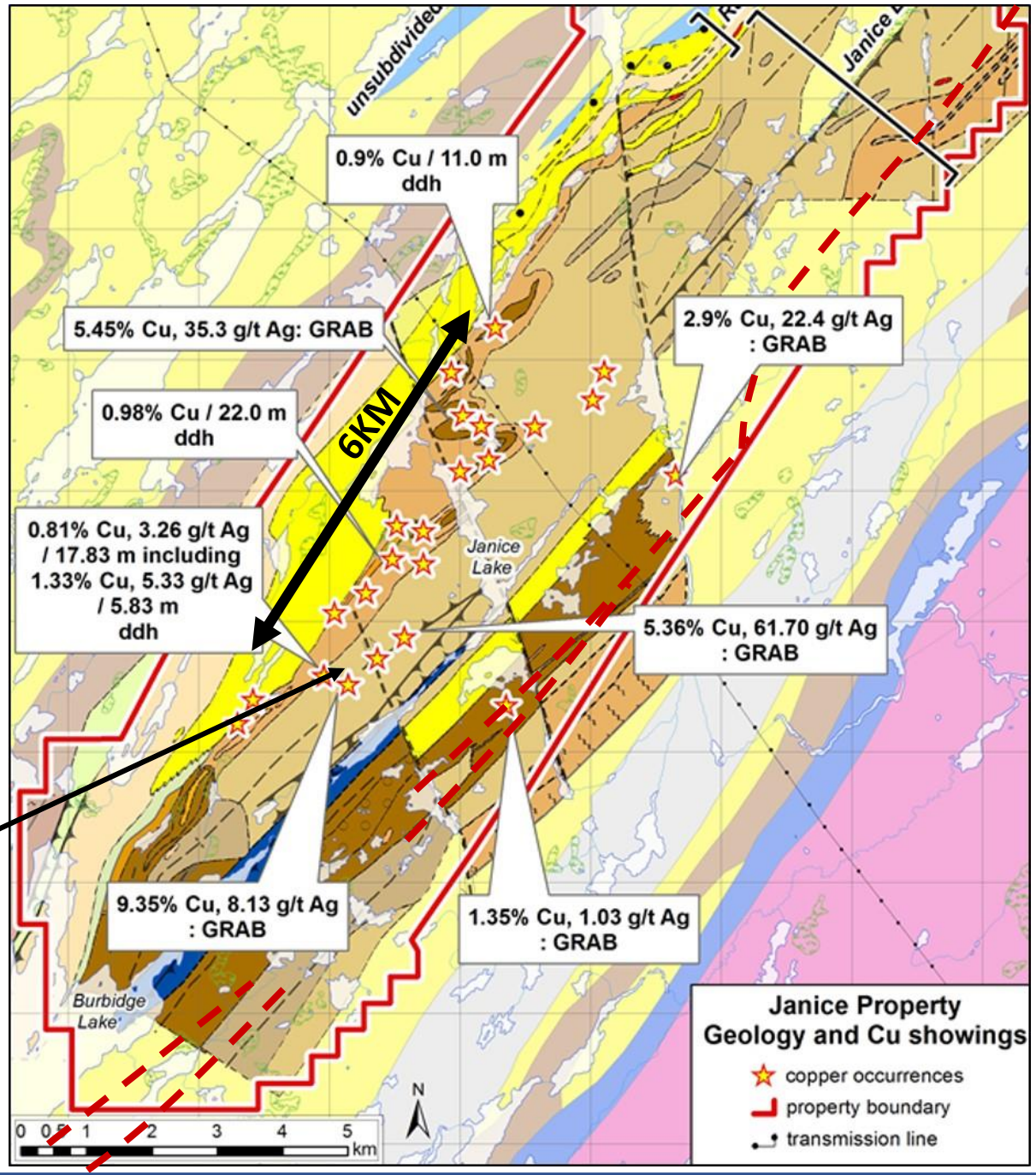
- (1993-1997) Noranda - 35 holes
- (1994-1998) Saskatchewan Geological Survey mapping
- (2003) Phelps Dodge - 6 holes – drops property after being acquired by Freeport McMoran for $25.9 Billion
- (2012-2014) Transition Metals - airborne survey
- **(2018) Forum acquires Janice Lake : First pass 4 hole drill program intersects 18.5m grading 0.94% Cu and 6.7g/t Ag above 80m in depth**
- **(2019) RIO TINTO OPTION TO JOINT VENTURE AGREEMENT FOR $30 MILLION IN EXPLORATION**



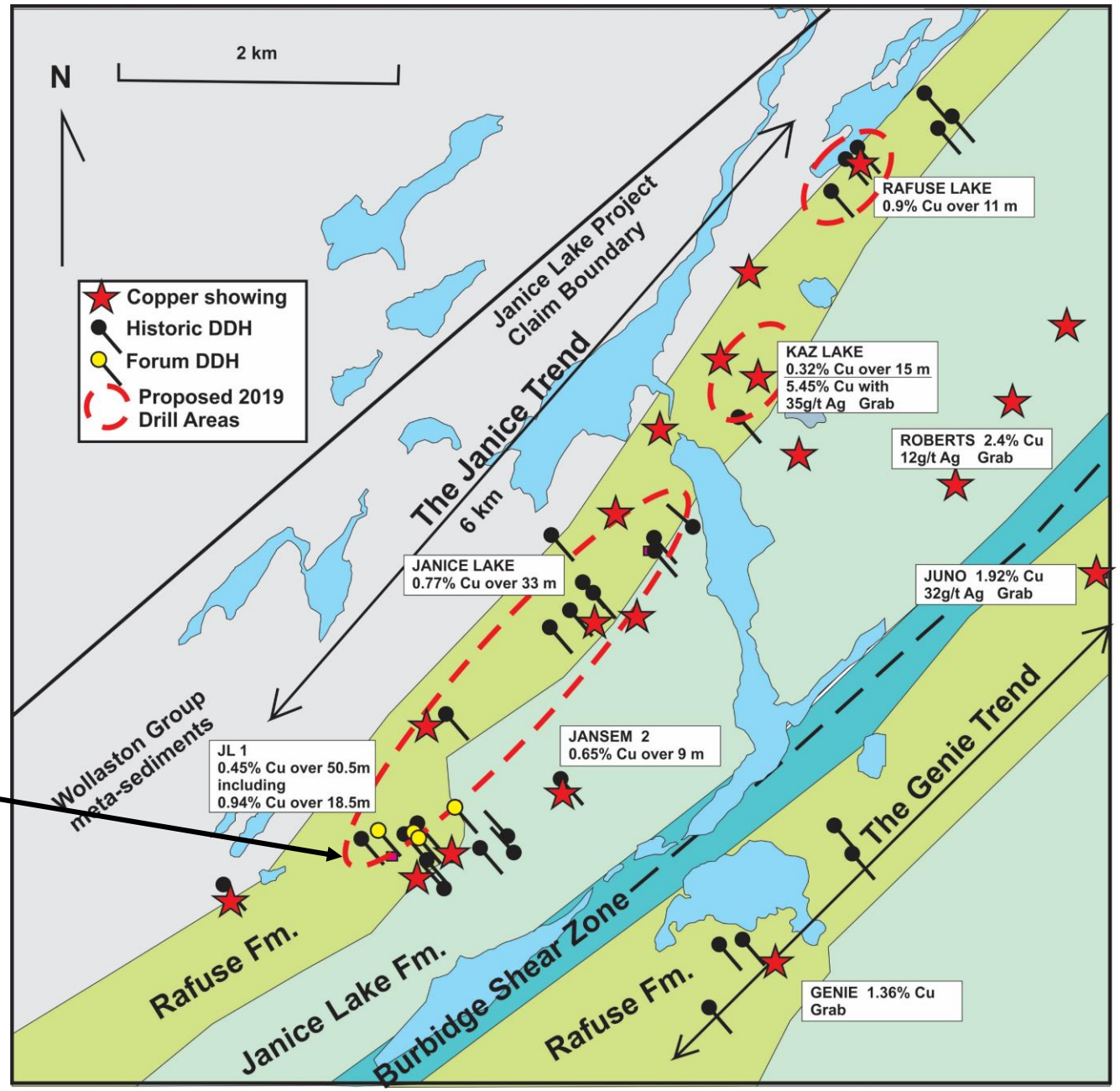
## *HIGHLY PROSPECTIVE DISCOVERY OPPORTUNITY*

- **LIMITED HISTORICAL DRILLING FOCUSED ON FEW WIDESPREAD SURFACE SHOWINGS**
- **ALL 4 OF FORUM'S FIRST PASS DRILL HOLES MINERALIZED (18.5m @ 0.94% Cu & 6.7 g/t Ag, incl. 5.2m @2.22% Cu & 16.5 g/t Ag )**
- **NUMEROUS SHOWINGS TO THE SOUTHEAST IN SAME ROCKS REPEATED BY FAULTING**
- **MULTIPLE PRIORITIZED TARGETS REMAIN UNTESTED**

**2018 drilling**
**0.94% Cu / 18.5m**
**6.7 g/t Ag including**
**2.22% Cu / 5.2m**
**16.5 g/t Ag**



# JANICE LAKE COPPER PROJECT

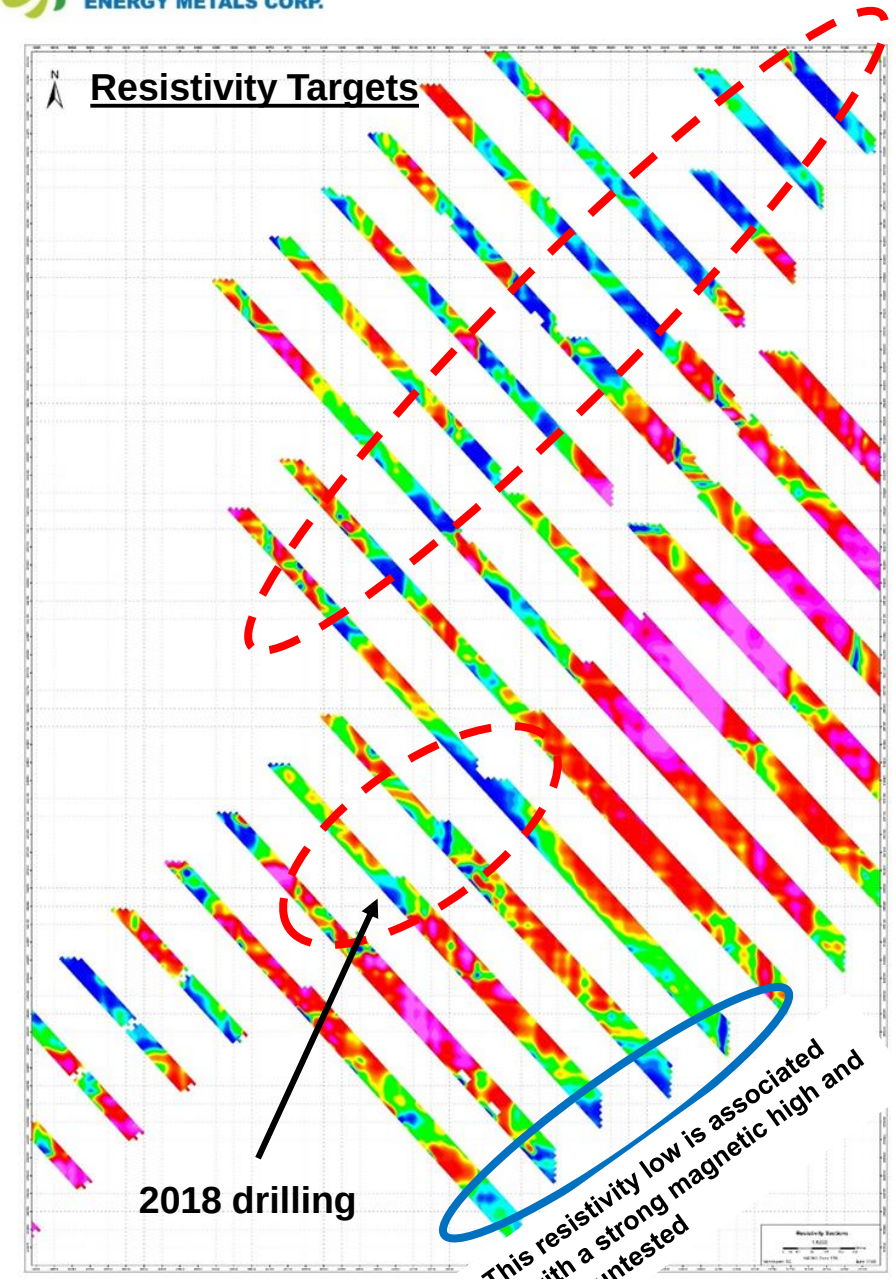


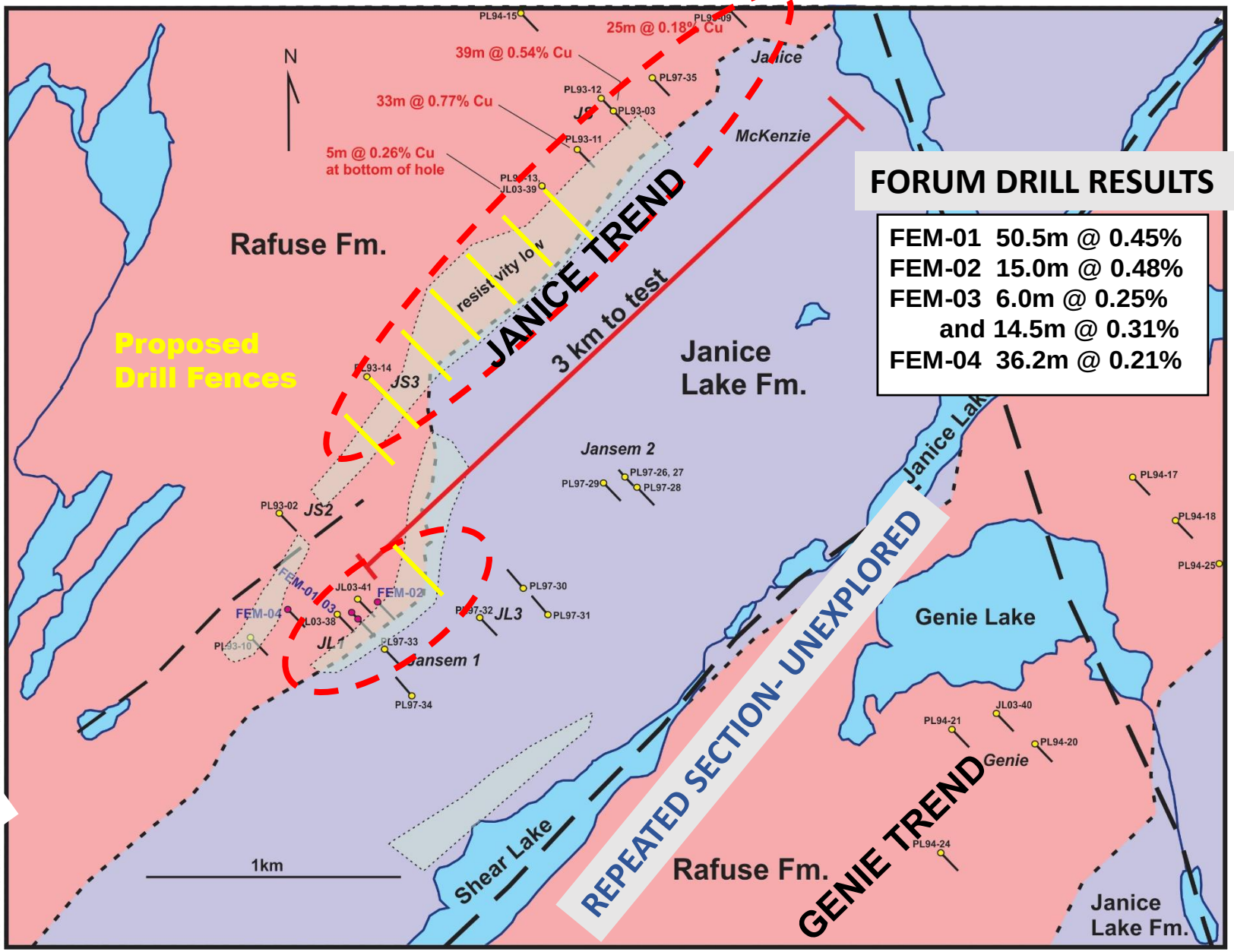

2018 drilling

## EXPLORATION PLANS

**RIO TINTO PLANS TO DRILL 25-30 HOLES FOR A TOTAL OF 7,000 METRES IN 2019 FOR ITS $3 MILLION EXPLORATION COMMITMENT**

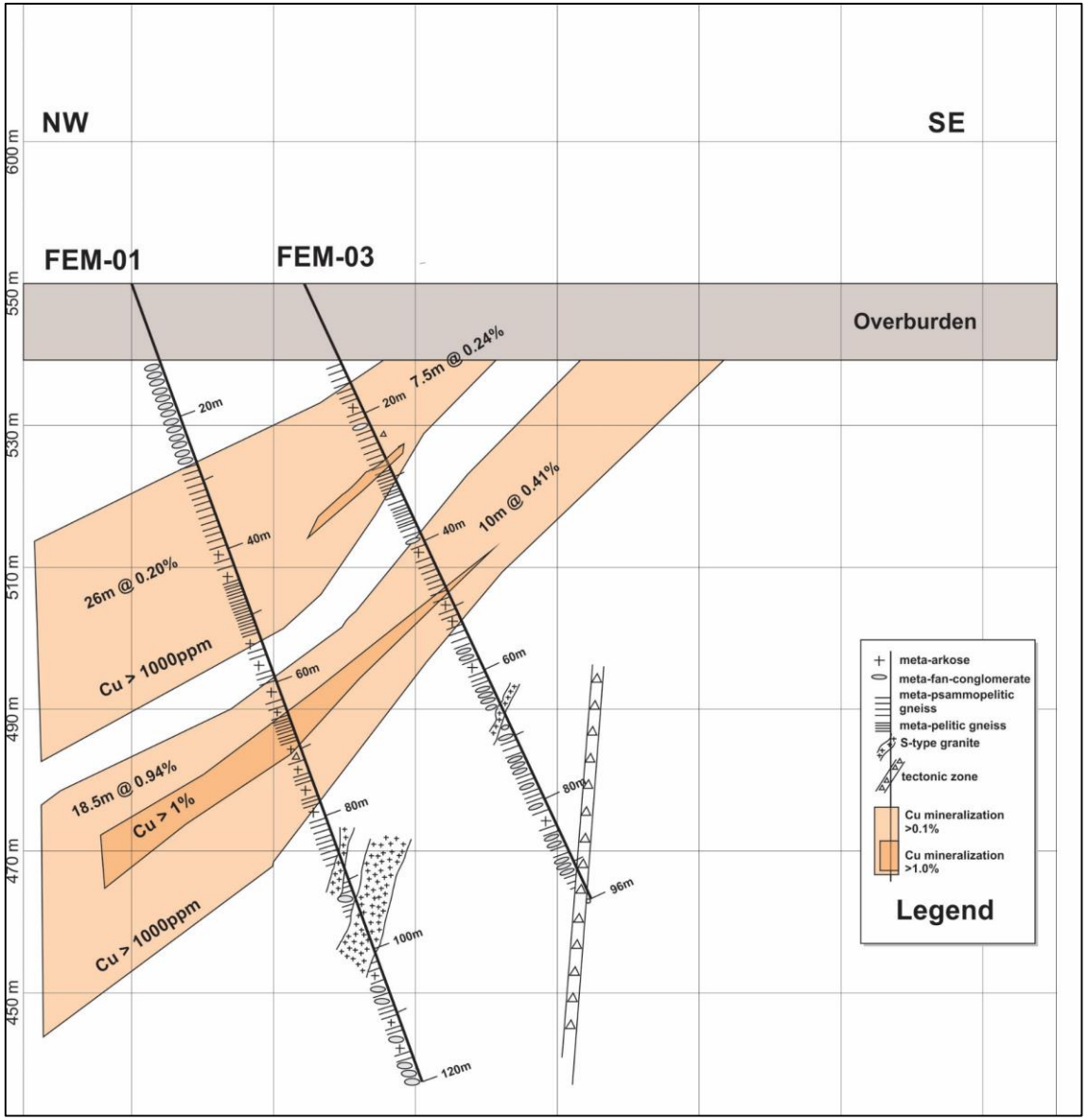
# Targets: JL-1 to Janice Lake




## FORUM DRILL RESULTS

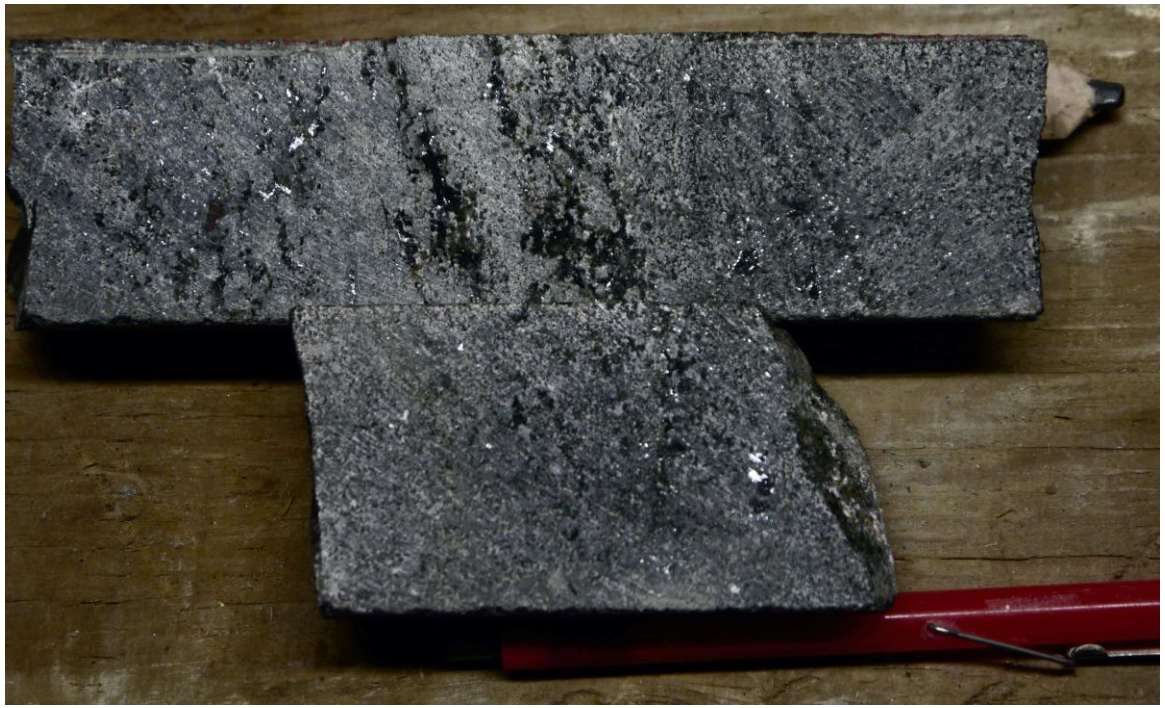
| | |
|---|---|
| FEM-01 | 50.5m @ 0.45% |
| FEM-02 | 15.0m @ 0.48% |
| FEM-03 | 6.0m @ 0.25% |
| | and 14.5m @ 0.31% |
| FEM-04 | 36.2m @ 0.21% |

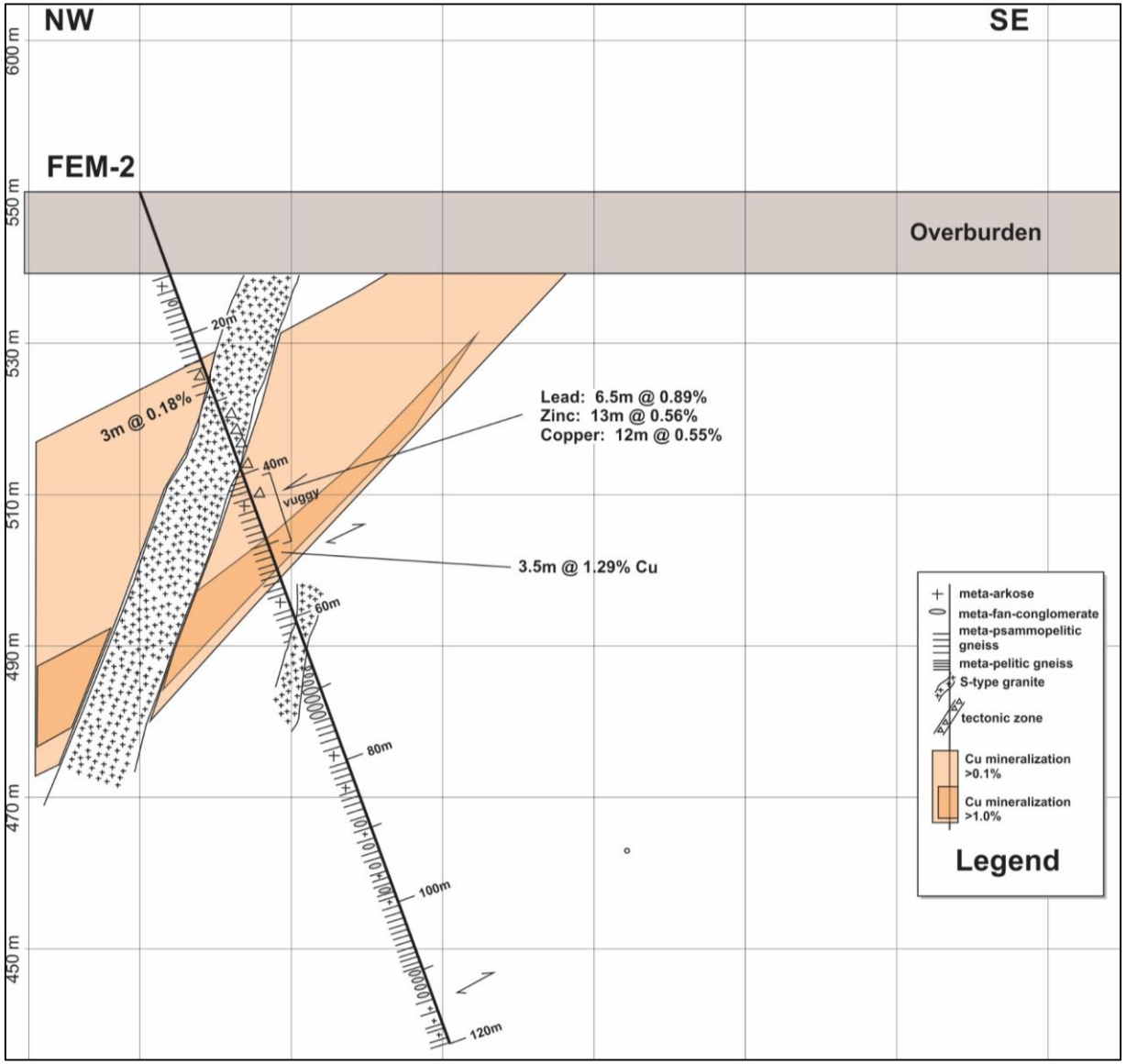



## FEM-01 and FEM-03 Results

**FEM-01 - 50.5m @ 0.45% Cu & 3.5 g/t Ag**
**Incl. 18.5m @ 0.94% Cu & 6.7 g/t Ag**
**Incl. 5.2m @ 2.22% Cu & 16.5 g/t Ag**

**FEM-03 - 6.0m @ 0.25% Cu & 0.8 g/t Ag**
**and 14.5m @ 0.31% Cu & 1.7 g/t Ag**
**Incl. 4.5m @ 0.64% Cu & 3.2 g/t Ag**

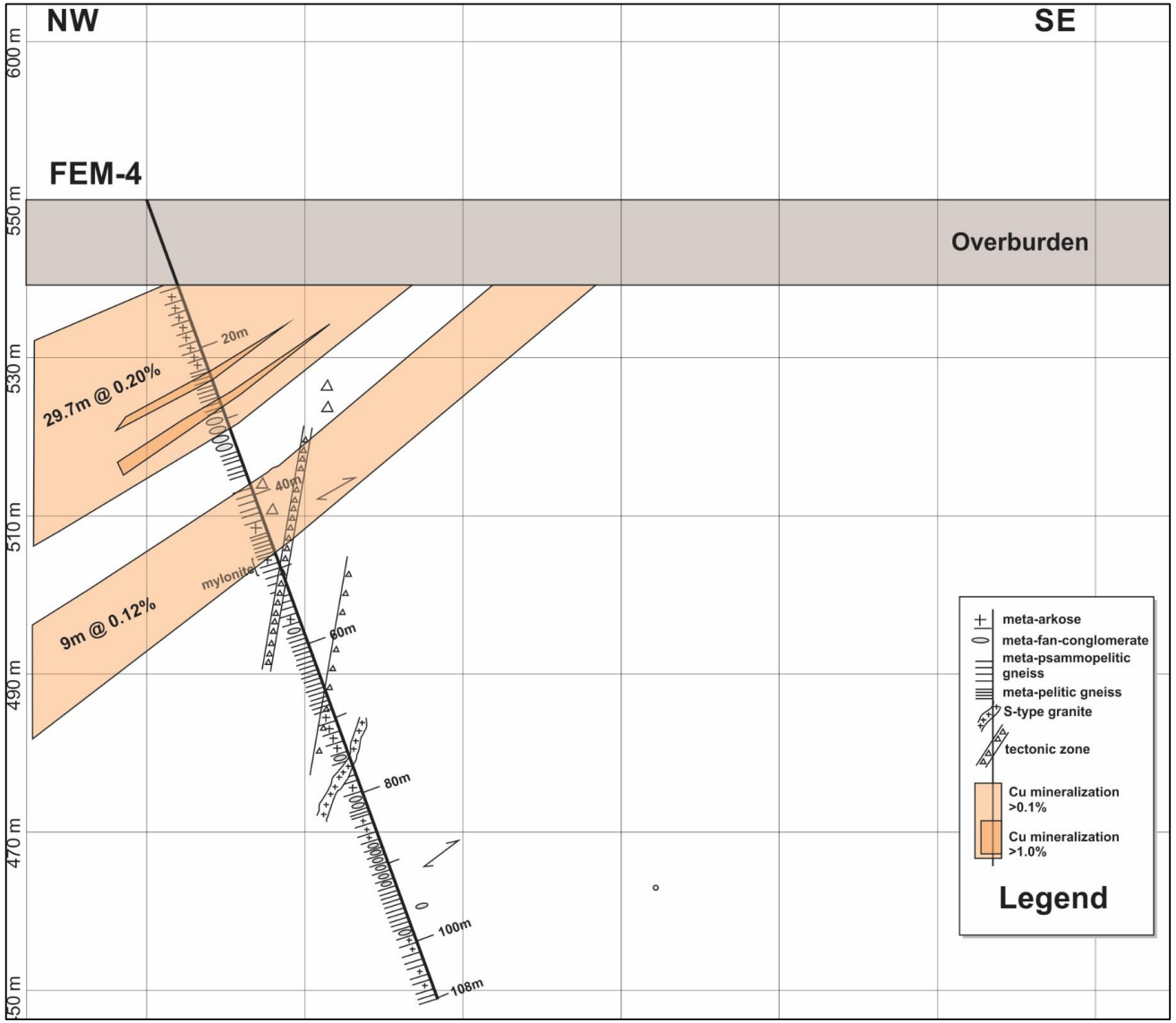





## FEM-02 (165m Northeast of FEM-01 & 03) Results:

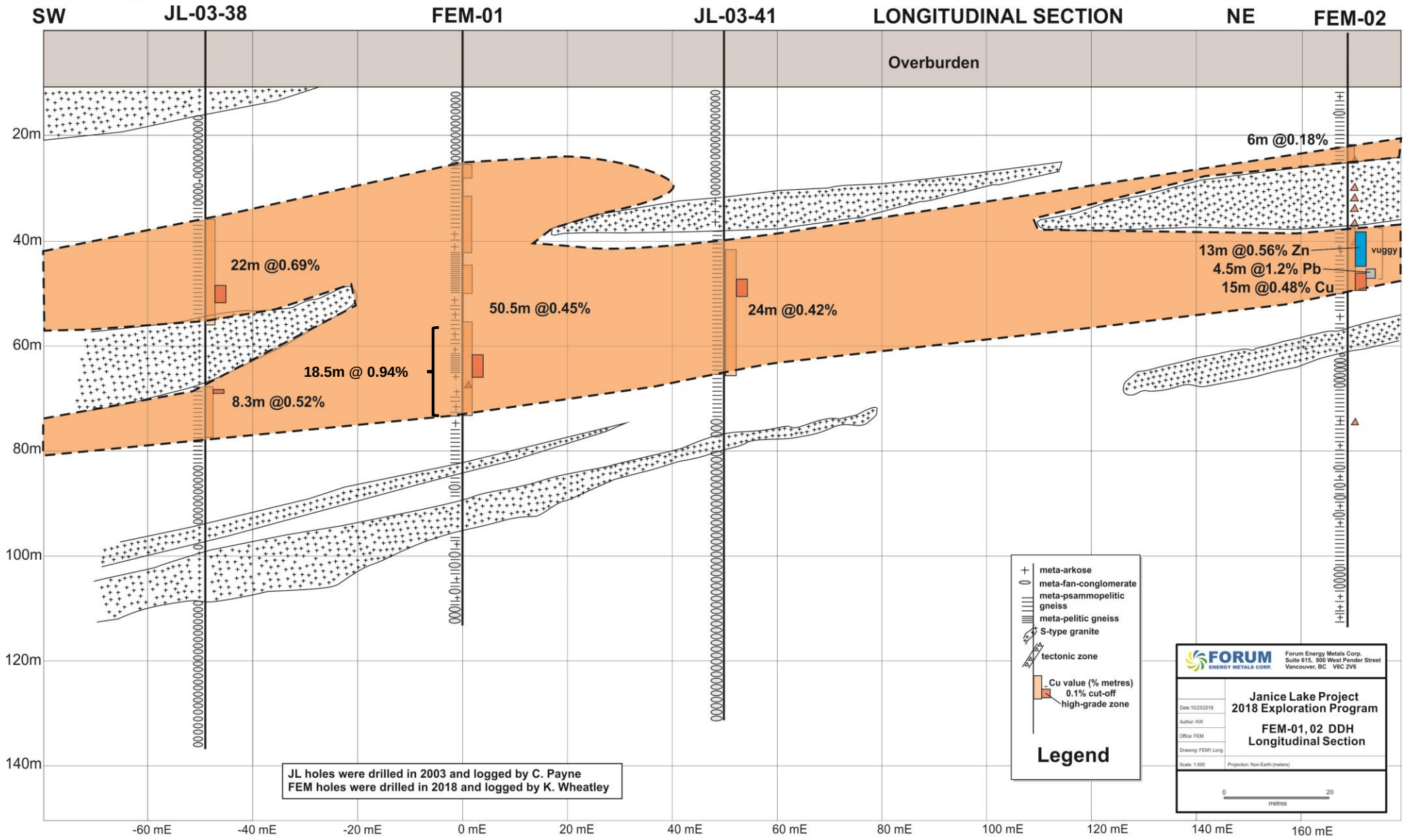
**FEM-02 15.0m @ 0.48% Cu, 4.3 g/t Ag, 0.4% Pb, 0.5% Zn**
**Incl. 5.5m @ 0.15% Cu, 1.8 g/t Ag, 0.46% Pb, 1.02% Zn**
**Incl. 5.0m @ 0.39% Cu, 4.3 g/t Ag, 1.09% Pb, 0.62% Zn**

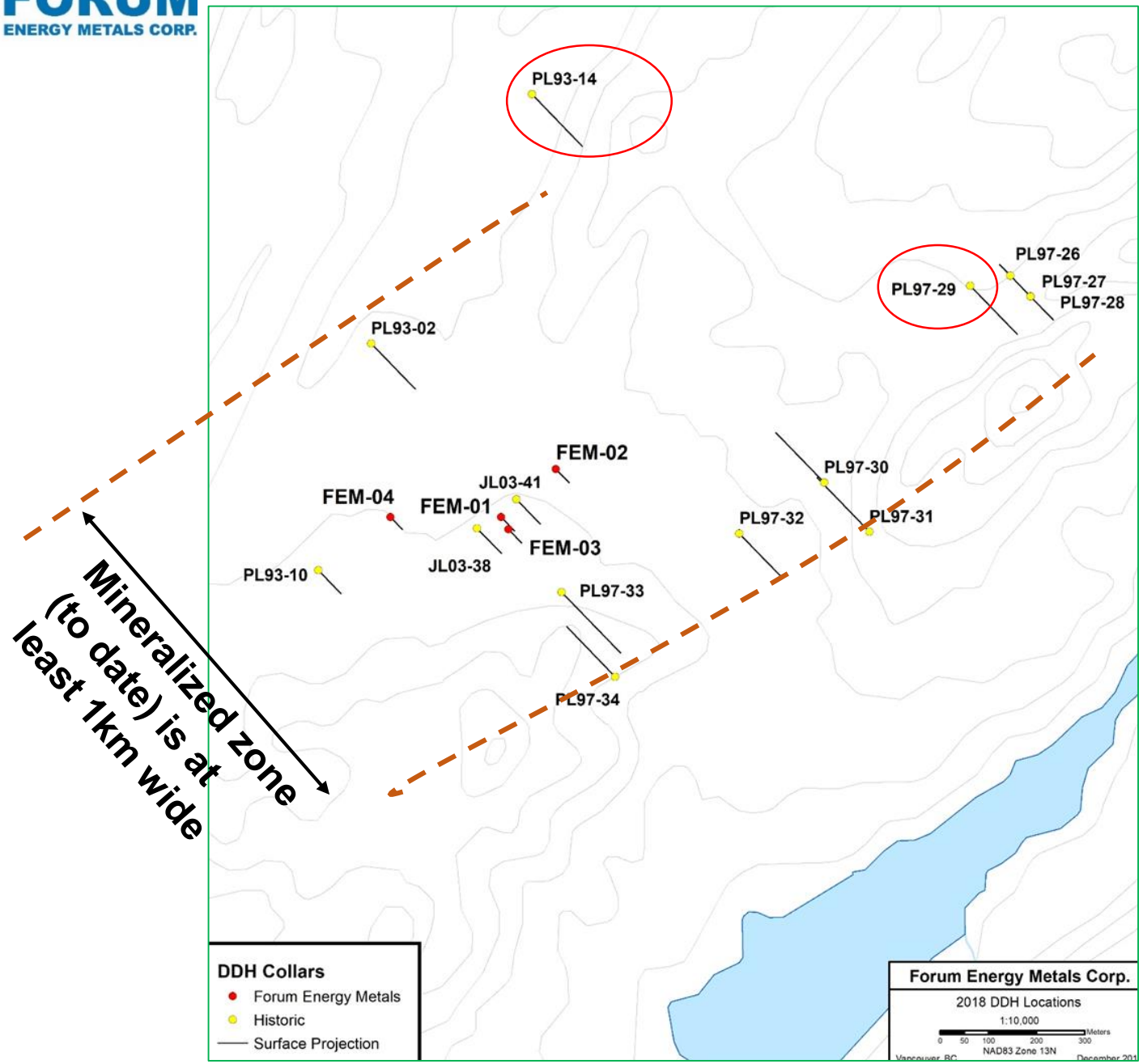
# JANICE LAKE COPPER PROJECT




## FEM-04 ( 275m West of FEM-01 & 03 Results:

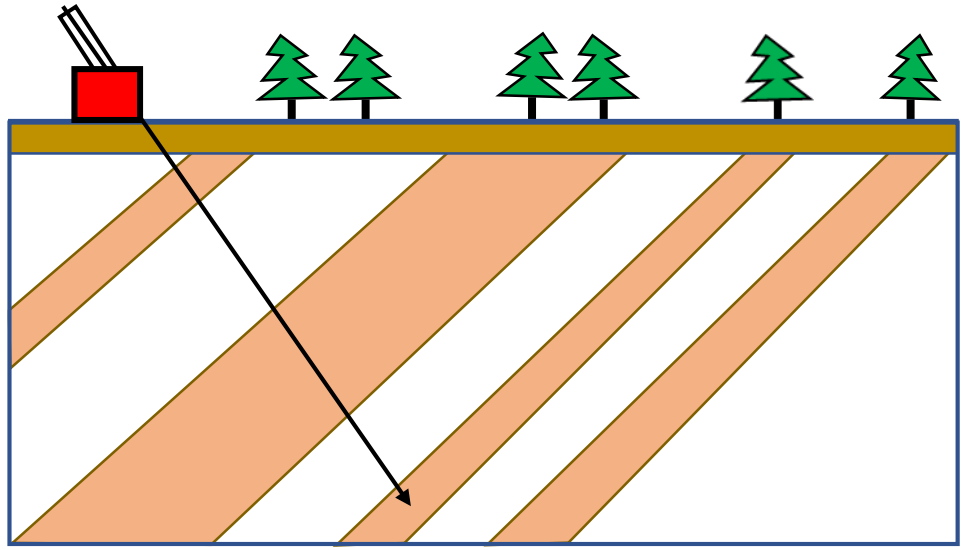
**FEM-04** **36.2m @ 0.21% Cu & 0.8 g/t Ag**
**Incl. 5.0m @ 0.56% Cu & 1.0 g/t Ag**


SW
JL-03-38
FEM-01
JL-03-41
LONGITUDINAL SECTION
NE
FEM-02
Overburden
20m
40m
60m
80m
100m
120m
140m
22m @0.69%
50.5m @0.45%
24m @0.42%
6m @0.18%
13m @0.56% Zn
4.5m @1.2% Pb
15m @0.48% Cu
vuggy
18.5m @ 0.94%
8.3m @0.52%
-60 mE
-40 mE
-20 mE
0 mE
20 mE
40 mE
60 mE
80 mE
100 mE
120 mE
140 mE
160 mE
JL holes were drilled in 2003 and logged by C. Payne
FEM holes were drilled in 2018 and logged by K. Wheatley
meta-arkose
meta-fan-conglomerate
meta-psammopelitic gneiss
meta-pelitic gneiss
S-type granite
tectonic zone
Cu value (% metres)
0.1% cut-off
high-grade zone
Legend
FORUM ENERGY METALS CORP.
Forum Energy Metals Corp.
Suite 615, 800 West Pender Street
Vancouver, BC V6C 2V6
Janice Lake Project
2018 Exploration Program
FEM-01, 02 DDH
Longitudinal Section
Date: 10/23/2018
Author: KW
Office: FEM
Drawing: FEM1 Long
Scale: 1:500
Projection: Non-Earth (meters)
0
20
metres



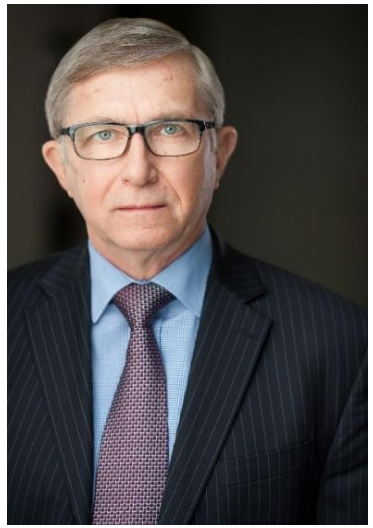

**Only 2 drill holes, 14 and 29, did not intersect Cu mineralization. Using the 40° dip to the northwest determined by the 2018 drill program, the height of mineralized strata is at least 500 metres.**

**This may be due to multiple mineralized horizons, folding of the mineralized strata, or duplication by faulting. It is Forum's opinion that the first scenario is correct.**



# DIRECTORS

## RICK MAZUR, P.Geo., MBA
**PRESIDENT, CEO & DIRECTOR**



## ANTHONY BALME
**NON EXECUTIVE CHAIRMAN & DIRECTOR**

## BURNS TENNENT-BHOHI
**DIRECTOR**

## DAVID COWAN, LLB
**DIRECTOR**

## HOWARD HAUGOM, PHD
**DIRECTOR**

## LARRY OKADA, CA
**DIRECTOR**

## MICHAEL STEEVES, CFA
**DIRECTOR**

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