



**ASX RELEASE**

26 July 2019

**CLARIFICATION OF ANNOUNCEMENT  
PRESENTATION – COMMENCEMENT OF NICKEL-COPPER DRILLING**

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Chase Mining Corporation Limited (ASX: CML) wishes to provide a clarification to its announcement released this morning titled "Presentation – Commencement of Nickel-Copper Drilling".

The announcement did not reference previous announcements containing the exploration results included within the presentation. It also did not include a Competent Persons Statement.

In accordance with the Listing Rules, this information has now been included in the updated presentation that follows.

- ENDS -

**Suzanne Yeates**  
**Company Secretary**



**CHASE MINING CORPORATION LIMITED**

ABN 12 118 788 846

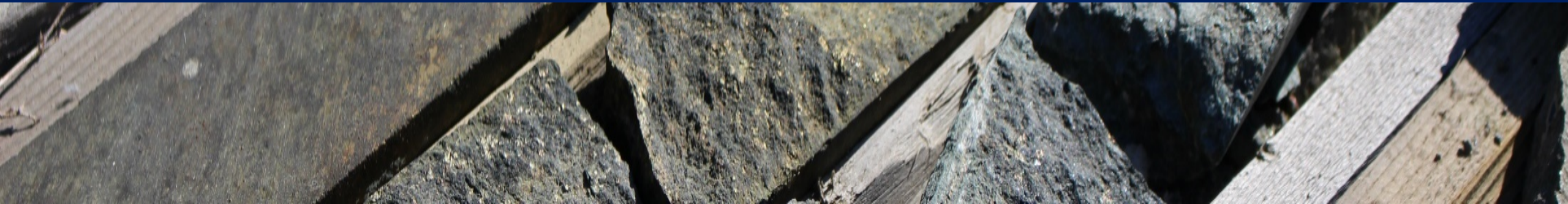
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# ADVANCED NICKEL-COPPER SULPHIDE EXPLORATION COMPANY

**BROKER PRESENTATION**  
**July 2019**



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The use of exploration targets or conceptual exploration targets in this presentation or expressed during the course of this presentation are subject to completion of the necessary feasibility studies, permitting and execution of all necessary infrastructure agreements. In relation to any statements pertaining to future exploration targets or conceptual exploration targets, the nature of the exploration target means that the potential quantity and grade is conceptual in nature, that there has been insufficient exploration to define a Mineral Resource and that it is uncertain if further exploration will result in the determination of a Mineral Resource.

Some statements in this presentation regarding future events are forward-looking statements. They involve risk and uncertainties that could cause actual results to differ from estimated results. Forward-looking statements include, but are not limited to, statements concerning the Company's exploration programme, outlook and target sizes. They include statements preceded by words such as "potential", "target", "scheduled", "planned", "estimate", "possible", "future", "prospective" and similar expressions.

# Corporate Overview

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Chase Mining Corporate Overview	
Cash at Bank*	~\$2,748,000
Major and Significant Shareholders	<div>Dr Leon Pretorius (Chairman) - 7.73%</div> <div>Hustler Investments - 5.58%</div> <div>Southern Reaches - 4.61%</div> <div>Mounts Bay Investments (Director) - 3.87%</div> <div>Syracuse Capital - 3.14%</div> <div>FWMI - 2.78%</div> <div>Dennis Lovell (Former Director) - 2.66%</div>
Directors	~12%
Top 20 Shareholders	~55%
Top 40 Shareholders	~70%
Shares on Issue	206,961,938
Market Cap @ 0.045c	~\$9.31m
Enterprise Value (EV)	~\$6.56m
Performance Shares	<div>7.5c – 6,750,000</div> <div>10c – 6,750,000</div>

\*As at June 30 2019

# Corporate Team and Key Partnerships



## **Dr Leon Pretorius – Executive Chairman** (BSc (Hons) MSc PhD FAusIMM (CP) MAIG PrNatSci)

Dr Pretorius is a Geochemist with 47 years international mineral and mining experience. Since settling in Brisbane in 1978 he has worked on varied commodities with discovery success in gold, industrial minerals and uranium both in Australasia (mainly Queensland) and southern Africa. Open pit mining and mineral processing experience has been gained in Gold, Industrial Minerals, Uranium and Tungsten. Corporately he was involved with Paladin Energy where he was a Director until April 2005; Managing Director of Deep **Yellow** Limited until March 2010; and, Executive Chairman of Carbine Tungsten until July 2013.



## **Martin Kavanagh – Non-Executive Director** (BSc Hons Geology FAusIMM MAIG MCIM)

Mr Kavanagh has 48 years' exploration and mining experienced acquired through fieldwork, research and management of Australia-wide and offshore programmes in Indonesia, North America, the Southwest Pacific region and Southern Africa. As a senior executive and consultant in the resource industry he has a strong background in resource development, open-pit and underground mining. This includes +10 years working as a nickel geologist. Mr Kavanagh has been a director of ASX listed companies for over 20 years.



## **Charles Thomas – Non-Executive Director** (Bcom Grad Dip FINSIA)

Mr Charles Thomas is an Executive Director and Founding Partner of GTT Ventures a leading boutique corporate advisory firm based in Australia. Mr Thomas holds a Bachelor of Commerce from UWA majoring in Corporate Finance. Mr Thomas has worked in the financial service industry for more than 15 years and has extensive experience in capital markets as well as the structuring of corporate transactions. Mr Thomas is currently the Managing Director of Marquee Resources Ltd (ASX:MQR) and Non-executive Director of Viking Mines Ltd (ASX:VKA)



## **Orix Geoscience – In-Country Geological team**

The Company has engaged leading Canadian geological consulting firm, Orix Geoscience to provide in-country technical expertise and support. Orix is a firm that specialises in 2D and 3D compilation, interpretation, modelling services and exploration program project management.



# Project Overview

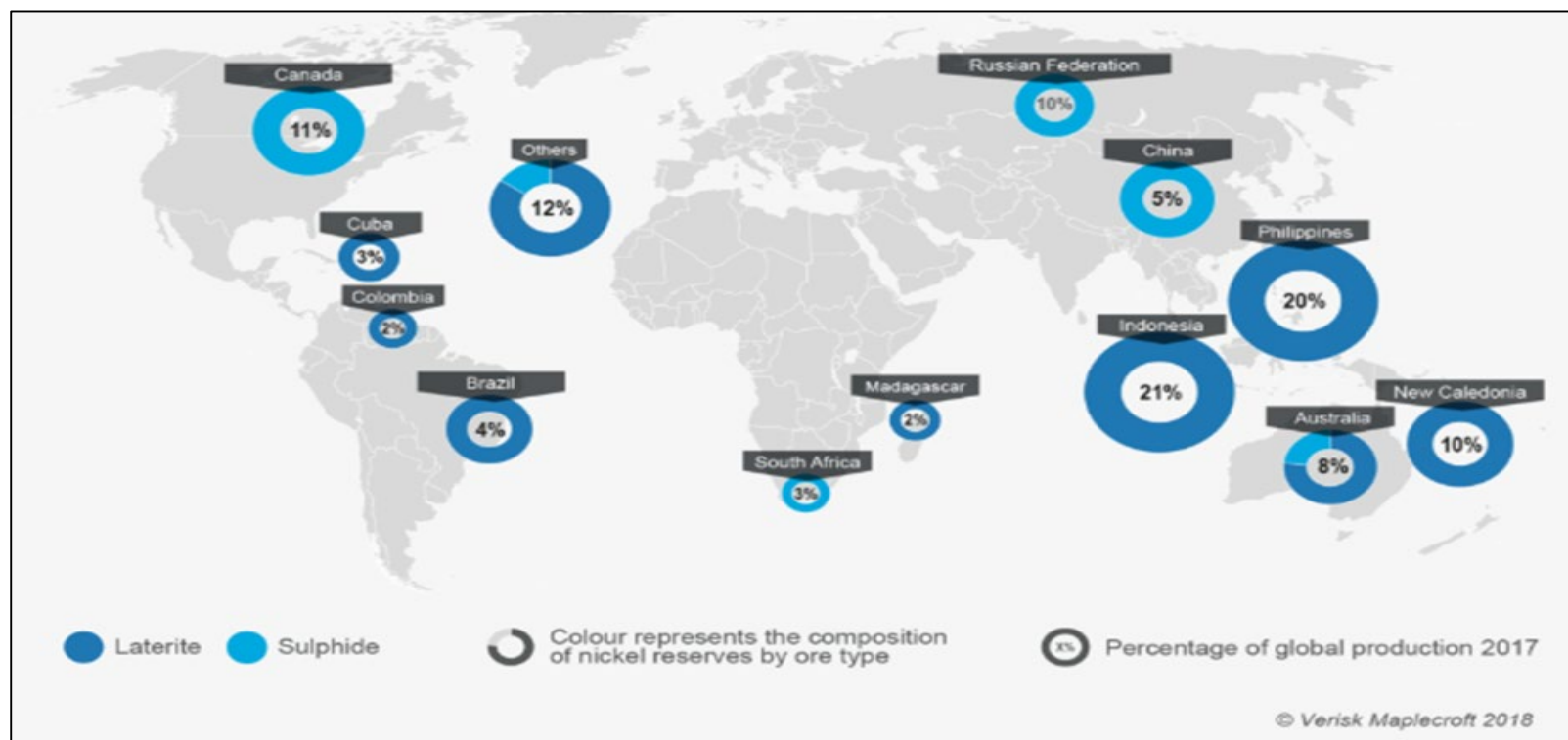
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# The Right Space, At The Right Time, With The Right Type of Nickel.... Nickel Sulphide

- Canada hosts more Nickel Sulphides deposits than anywhere in the world.
- Chase Mining's projects are in the tier 1 mining jurisdiction of Quebec, Canada.
- Only Class 1 Nickel is suitable for the battery market, Class 1 Nickel is preferentially derived from Sulphides.
- Chase Mining tenements are located within trucking distance of the world class Nickel province of Sudbury. The mills in Sudbury have some of the highest metal payabilities in the world and importantly can process all the minerals Chase Mining is looking to produce in one feed (**Ni-Cu-PGE-Co**).

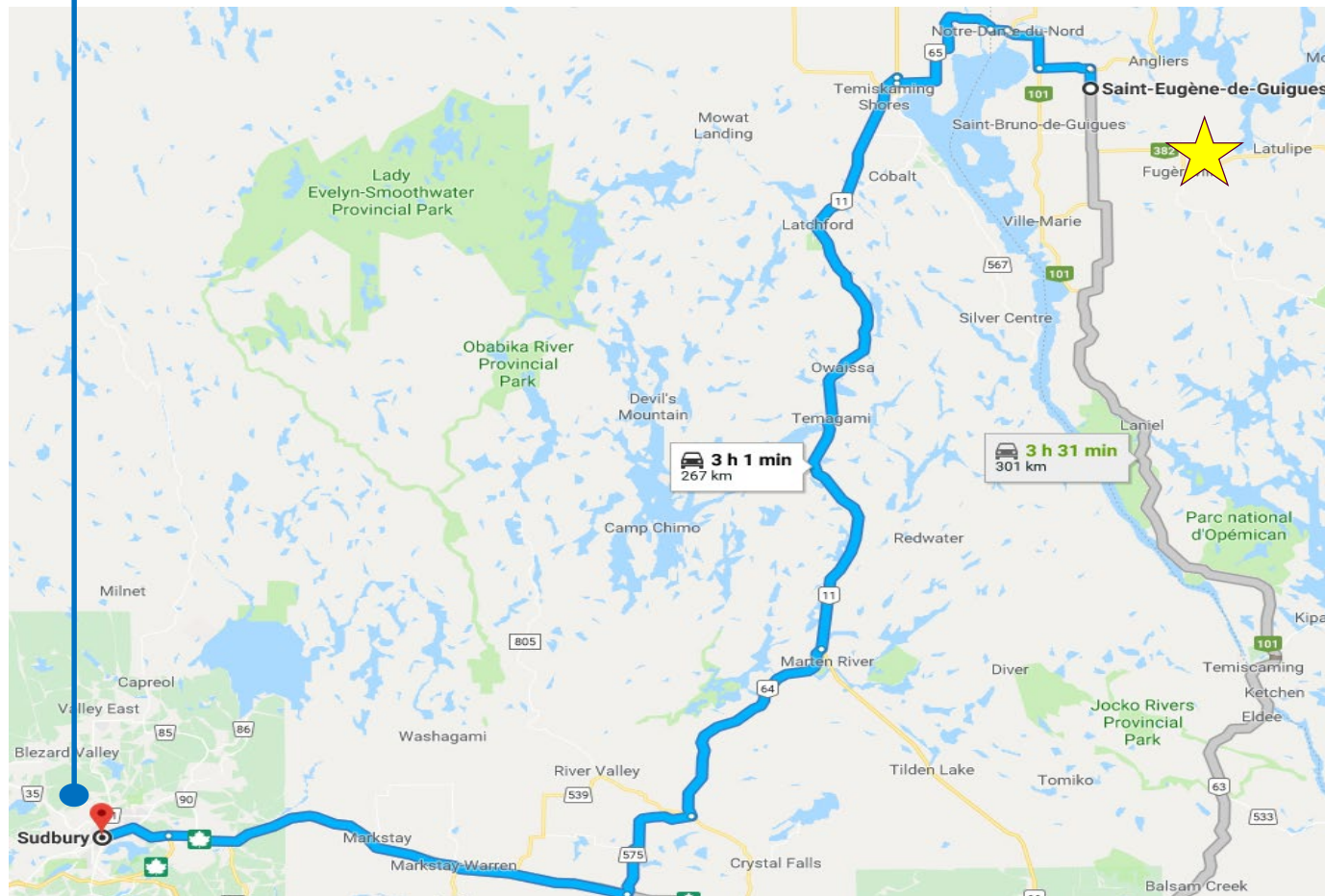





# Canada - A Tier 1 Mining Jurisdiction

## Processing Facilities

- Numerous Nickel, Copper, PGE and Cobalt processing facilities with toll milling capacity.



 Chase Mining's  
Project Area

## Quebec

- Ranked 6th in the global Fraser Institute investment attractiveness rankings.

## Sudbury

- A Tier 1 Nickel jurisdiction with Glencore and Vale highly active in the area.

## Cobalt Refinery Restart

- Glencore has announced they will support the restart of the First Cobalt refinery.

## Drill Permitting

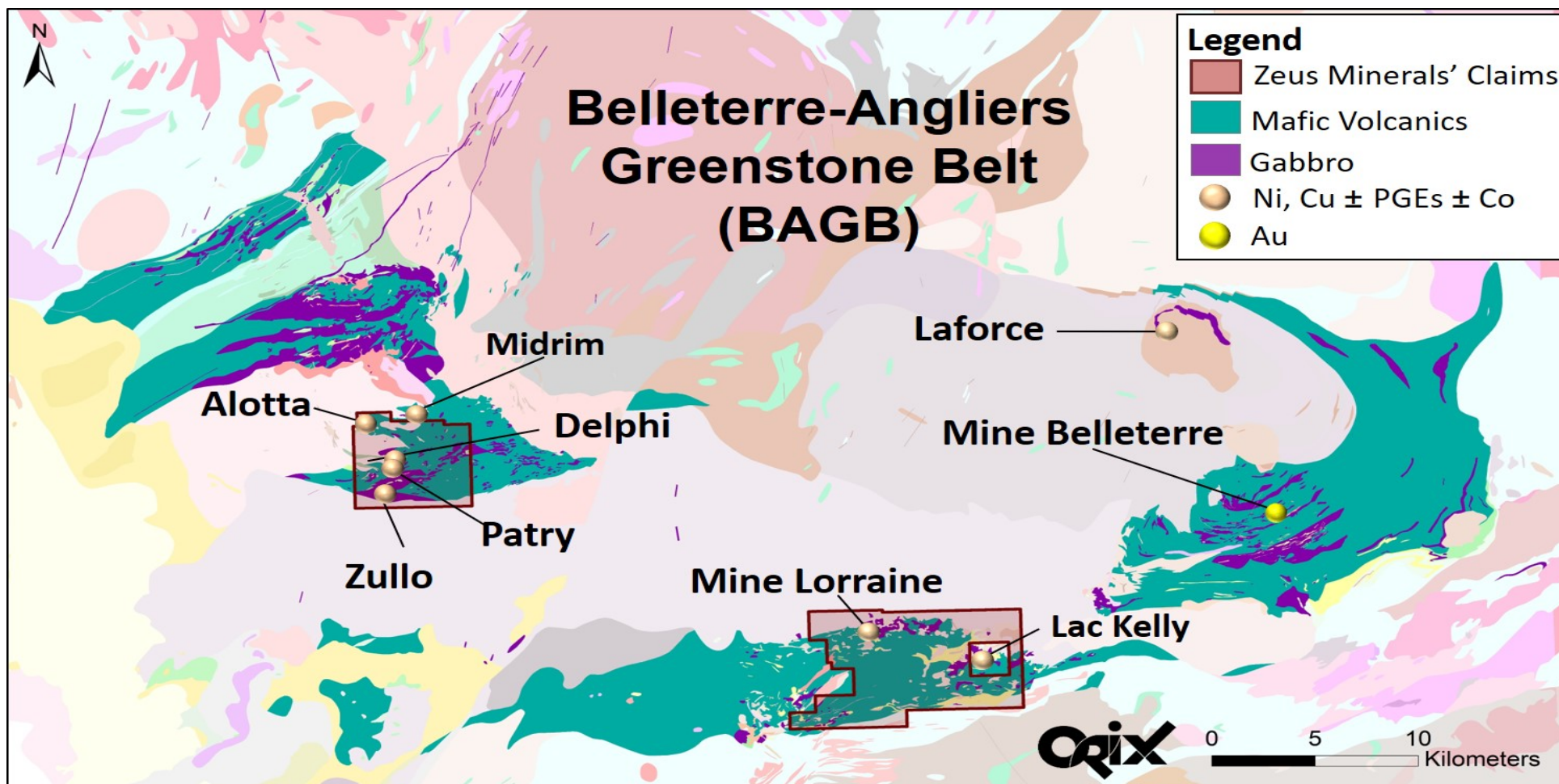
- Are fast, requiring a permit and landholder access agreement.

## Drilling Cost

- Competitive all in costs of AUD ~\$275p/m. Includes Site Access, Assays, Geo's, Labour, Cutting, Transport and Accommodation.

# Belleterre-Angliers Greenstone Belt (BAGB)

- CML is focusing its Ni-Cu-PGE exploration on two highly prospective project areas namely **Alotta** and **Lorraine Areas**
- A characteristic of the Nickel-Copper mineralised bodies in the **BAGB** is the association of mineralisation with gabbroic sills. The extensive areas of mafic volcanic rocks, together with the large volumes of gabbroic intrusions which host the sulphide mineralisation “**suggest that the potential for a significant Nickel discovery within the Company’s tenements is excellent.**”





## 2018 Maiden Drill Program

- Maiden drill programme totalled 801m over 9 holes.
- Successfully intersected significant zones of massive sulphides in 8 holes .
- Step out drilling successfully extended mineralisation along strike and up plunge.
- Deposit remains open down-plunge and along strike to the ESE.

## Significant Massive Sulphide Intersections\*

- 9.20m at 2.59% Ni, 2.79% Cu, 3.37g/t PGE & 0.11% Co from 85.20m - ZA-18-08
- 11.28m at 2.17% Ni, 2.15% Cu, 2.94g/t PGE & 0.11% Co from 61.15m - ZA-18-05
- 3.27m at 2.06% Ni, 3.77% Cu, 3.09g/t PGE & 0.12% Co from 53.10m - ZA-18-04  
and;  
7.10m at 2.38% Ni, 1.87% Cu, 1.90g/t PGE & 0.11% Co from 70.17m
- 8.13m at 1.74% Ni, 2.06%Cu, 1.59g/t PGE & 0.11% Co from 43.17m - ZA-18-06  
and;  
5.30m at 3.04% Ni, 0.84% Cu, 1.96g/t PGE & 0.13% Co from 63.30m

Broad Mixed Style Mineralisation Intersects:

- 20.80m at 1.18% Ni and 1.50% Cu from 40.70m - ZA-18-03
- 24.17m at 1.23% Ni and 2.31% Cu from 53.10m - ZA-18-04



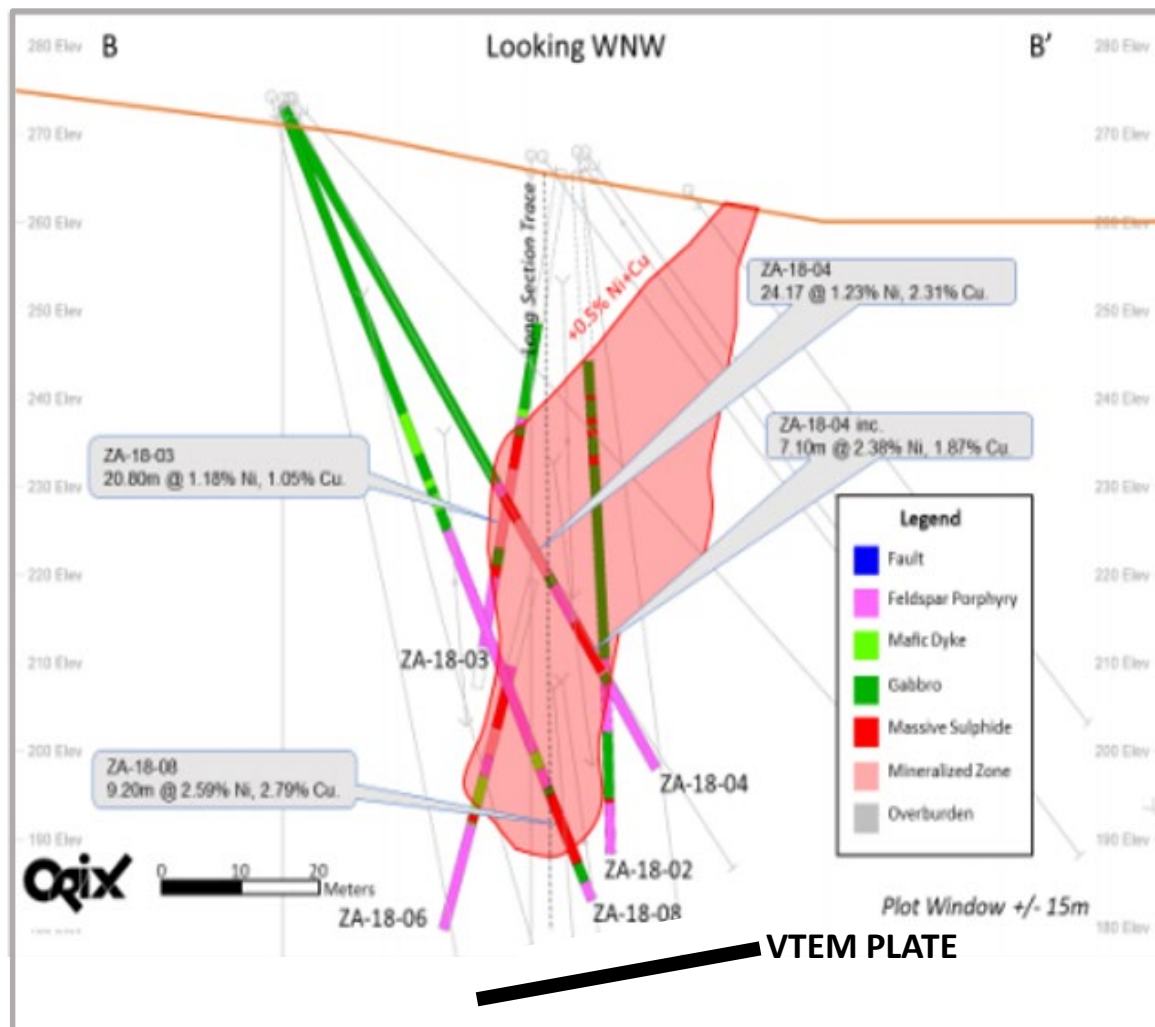
Hole ZA-18-08\*\*



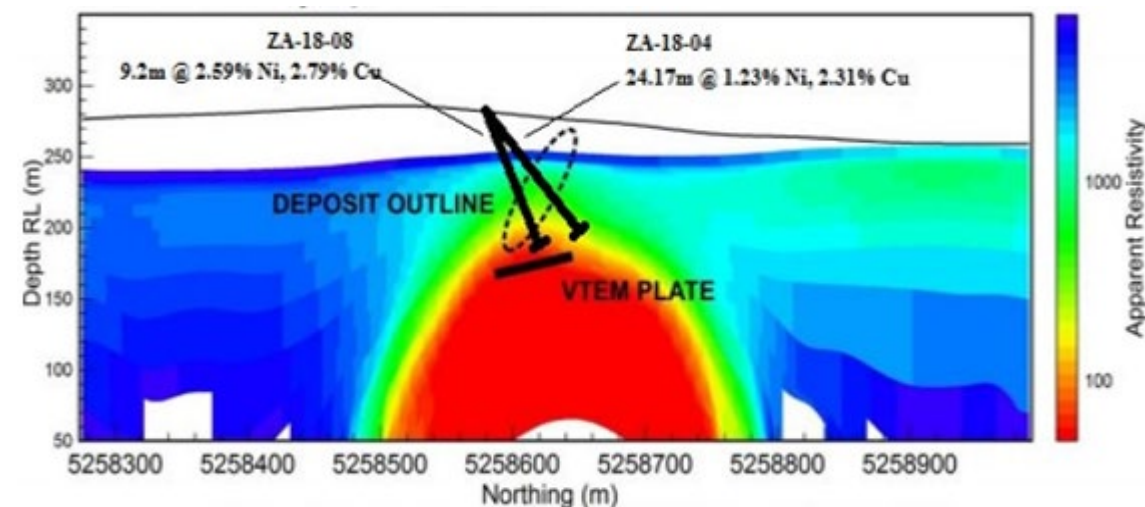
HOLE ZA-18-01#

# High Grade Alotta Deposit Extension

## Deposit Outline



ASX release 8 January 2019

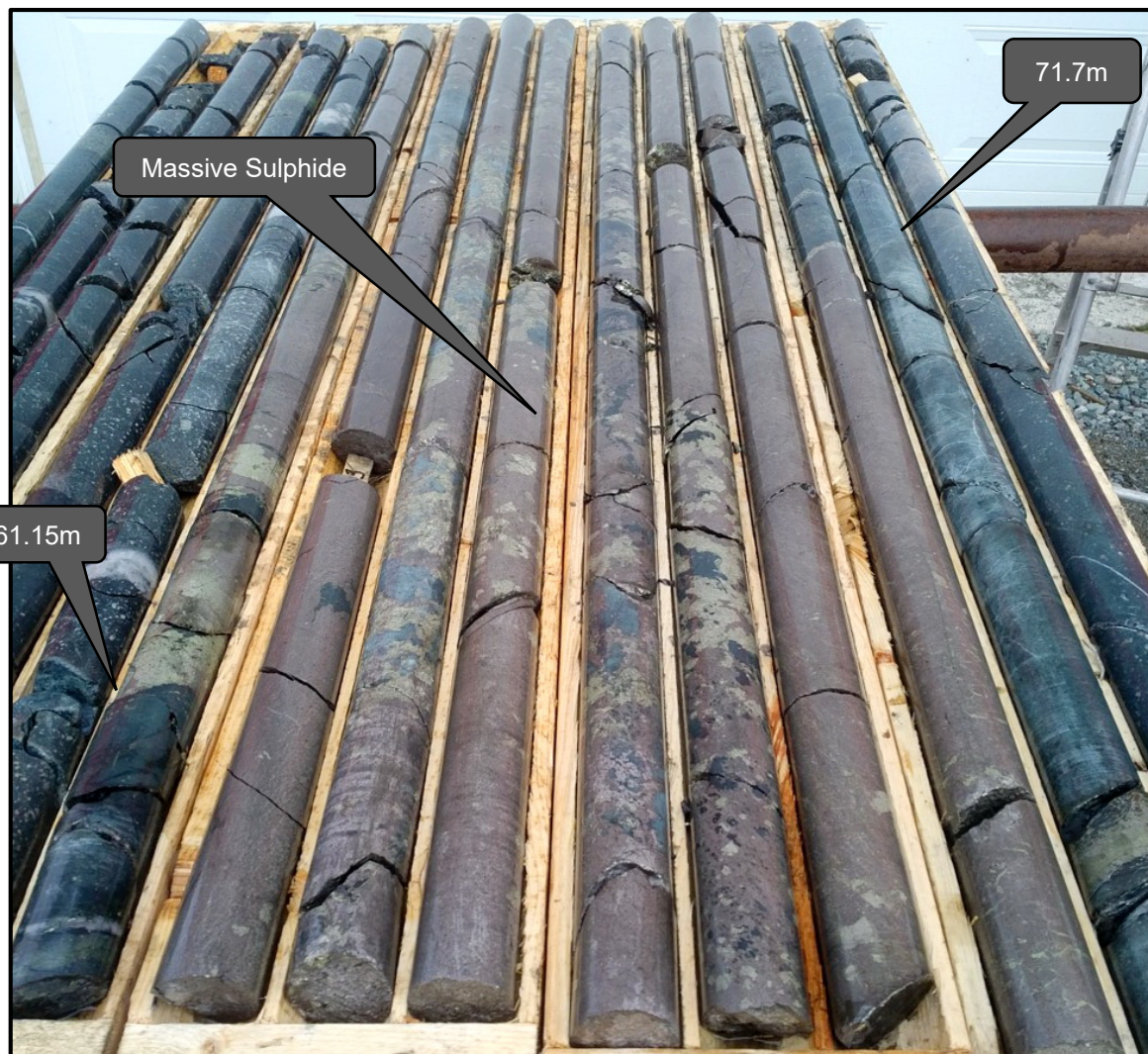


## Alotta Highlights

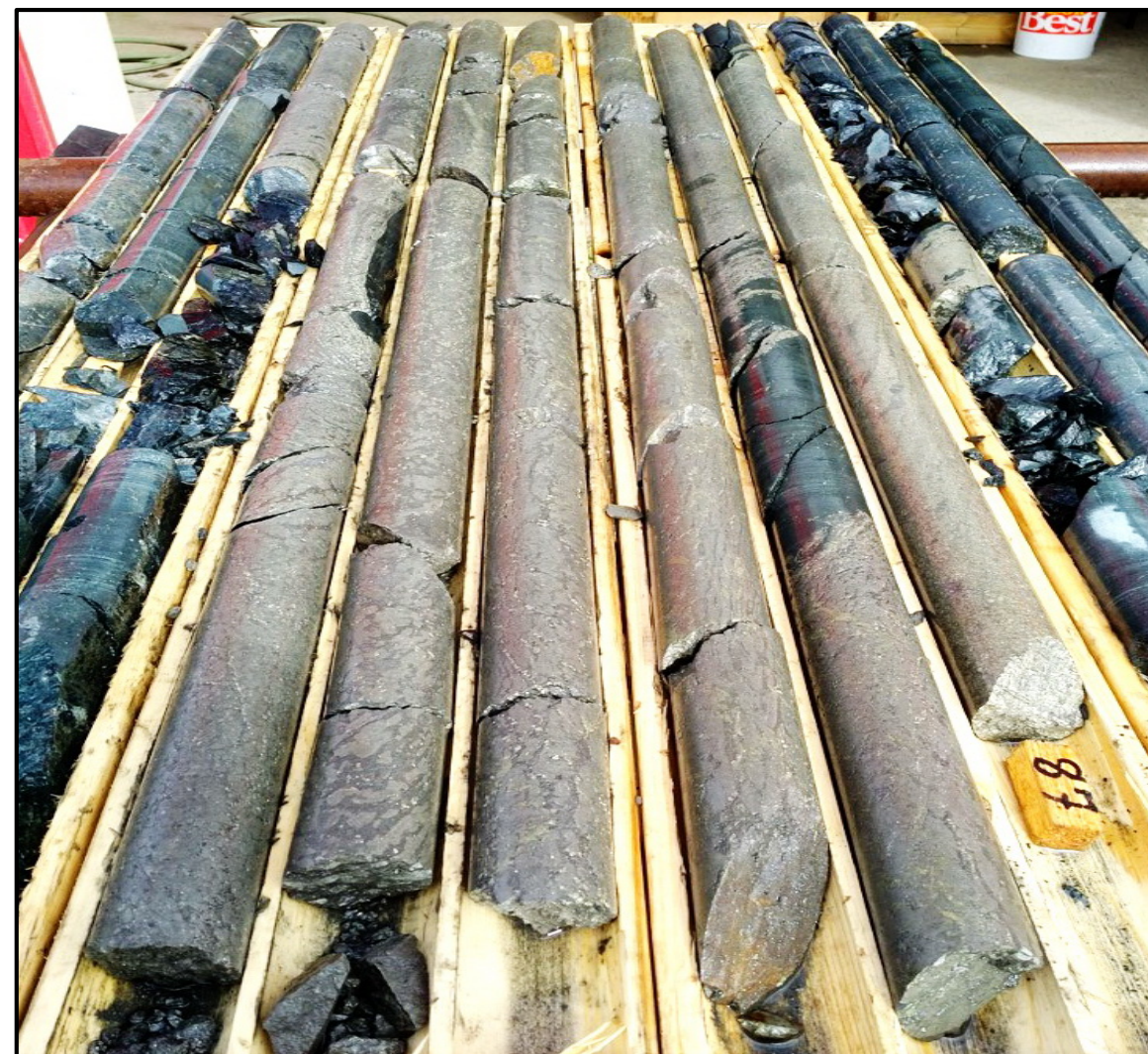
- High Grade Polymetallic Tenor (Ni-Cu-Co-PGE)
- Mineralisation begins from surface
- No deep drilling conducted at Alotta - Deepest hole drilled 140m VD
- **It is likely the near surface deposit is masking the deposit at depth.**
- The VTEM survey generated an EM plate beneath the HG Alotta deposit
- DHEM planned to target new interpreted extension of the HG Alotta deposit.



# High Grade Core Photos



Hole ZA-18-05 with 10.55m of massive sulphide from 61.15m to 71.7m depth\*



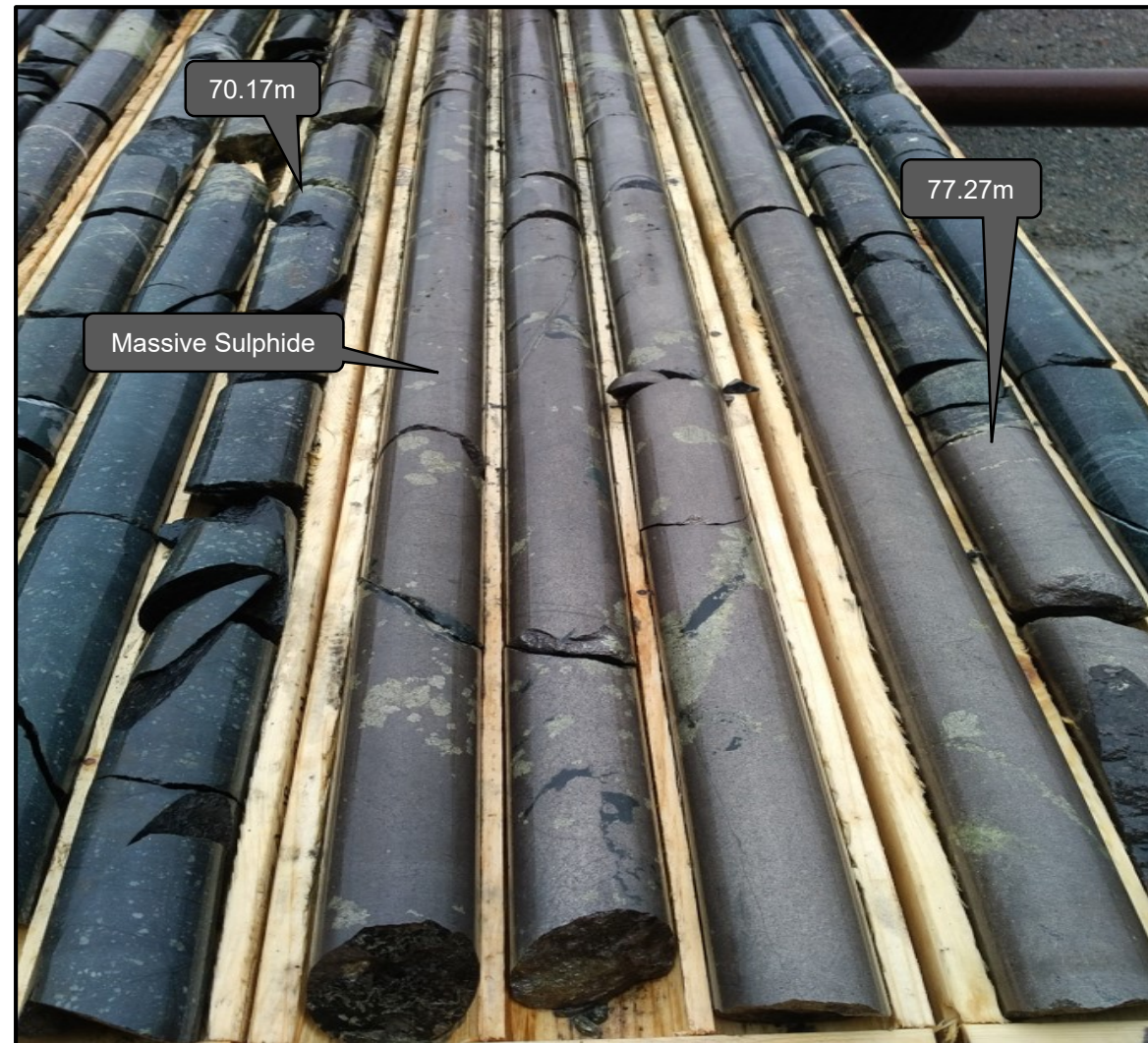
Hole ZA-18-08 – 8.53m of massive sulphide from 85.87m to 94.4m depth\*



# High Grade Core Photos



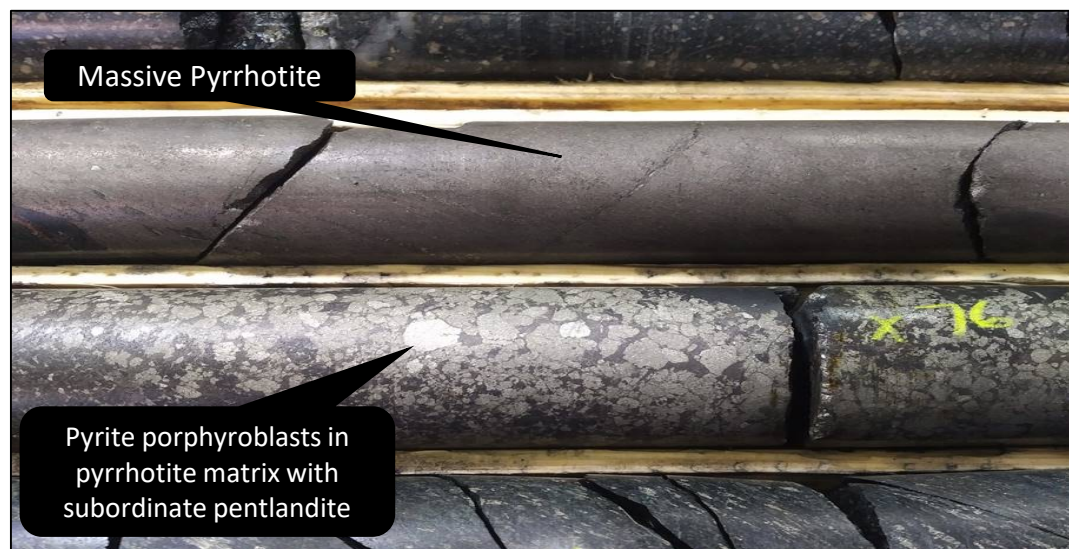
ZA-18-04 with 20-30% net texture sulphides ~60m\*



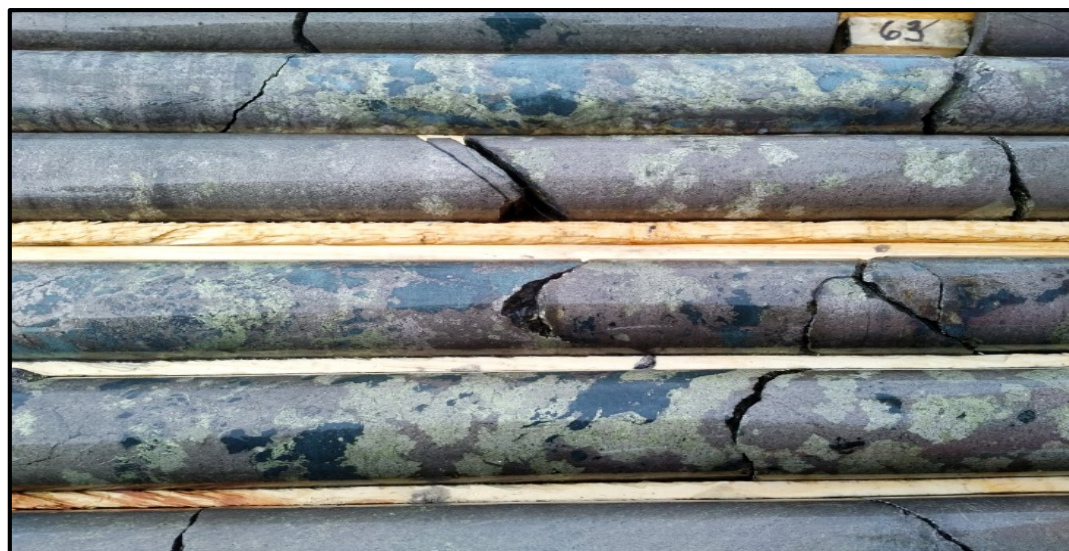
Hole ZA- 18-04 Lower massive sulphide from 70.17m\*



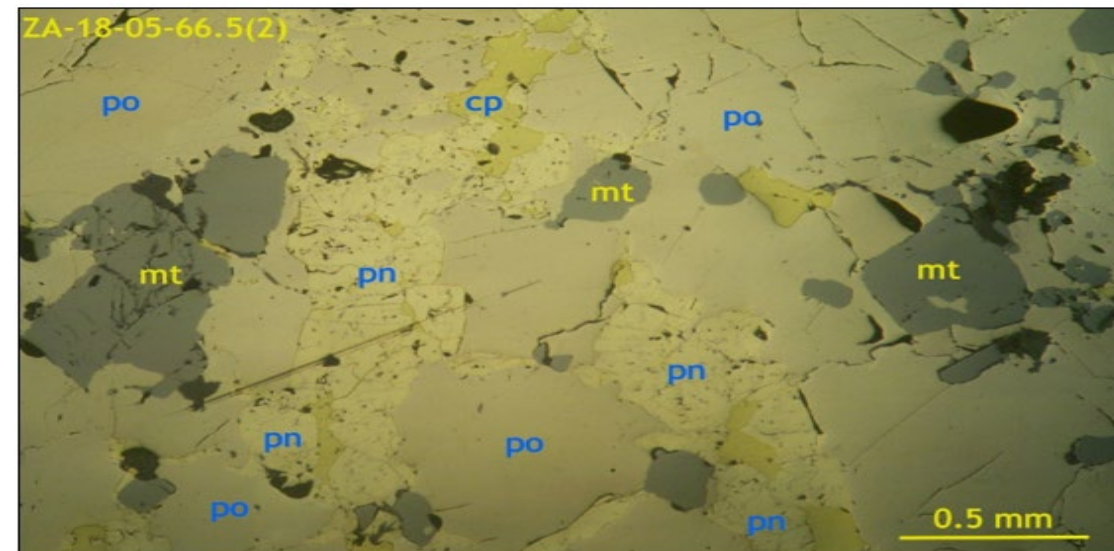
# Alotta Massive Sulphides and Petrography



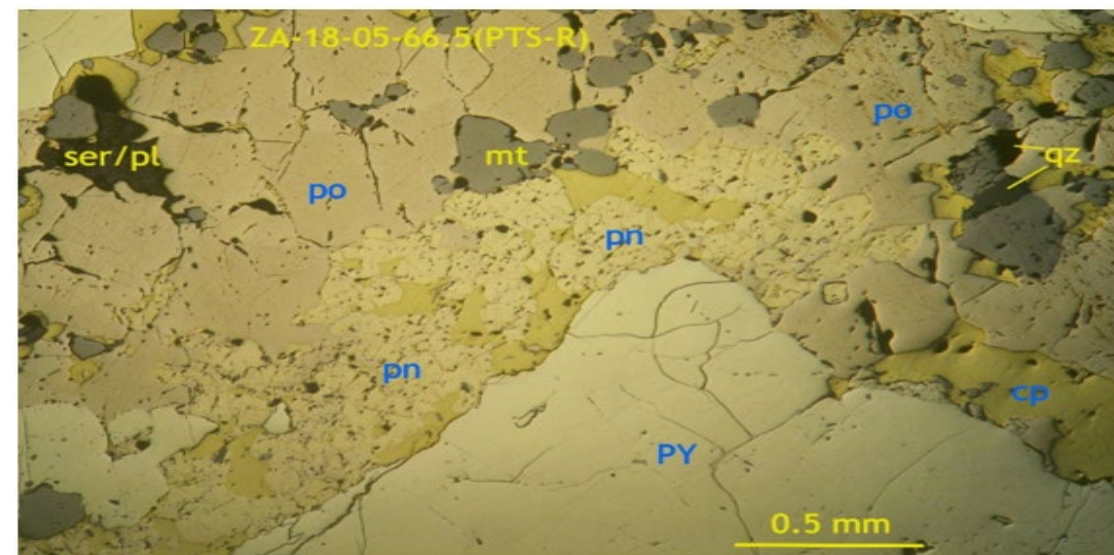
Hole ZA-18-01\*



Hole ZA-18-05\*



Hole ZA-18-05



Hole ZA-18-05

# Technical Work

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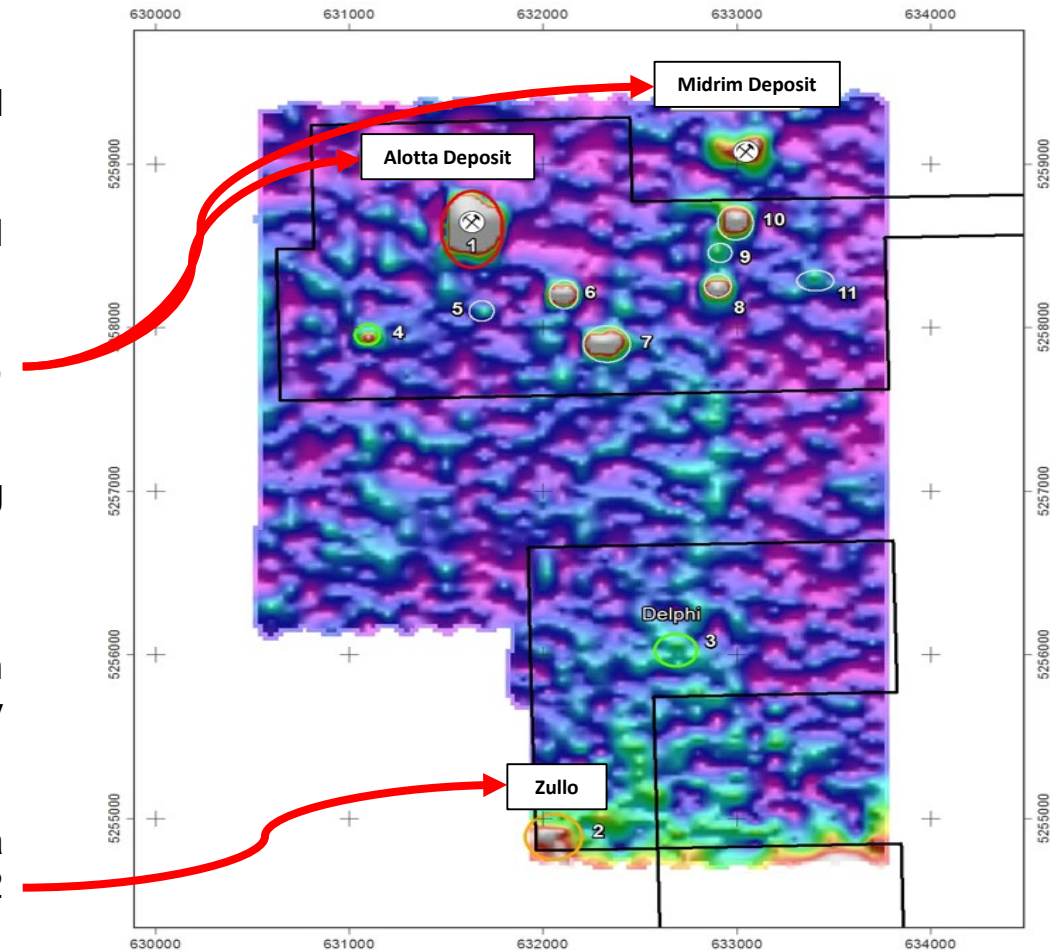




# VTEM – A Proven Way of Discovering Massive Sulphide Conductors

## VTEM Over ADZ Project Area\*

- The VTEM was an ideal tool for discovering further massive sulphide deposits within the Company's tenements.
- **VTEM detects massive sulphide mineralisation (conductors), not disseminated sulphides.**
- Four known Nickel-Copper massive sulphide deposits were covered by the VTEM survey to use as a comparison during modelling to the new targets generated.
- The four known Nickel-Copper massive sulphides deposits include: Alotta, Midrim, Lorraine Mine and Lac Kelly.
- **The VTEM survey successfully outlined 5 new Priority 1 targets for drill testing and 6 Priority 2 targets, in addition to the 4 already known Ni-Cu deposits.**
- The wide spread Ni-Cu occurrences near the Company's targets, coupled with the 11 robust massive sulphide anomalies outlined by the VTEM survey is further validation of the Company's view that there is the potential for a significant nickel discovery within the Company's tenements.
- Following receipt of the VTEM survey, 34 new claims abutting the ADZ project area were acquired (Bambino Claims), securing the edge of survey Priority 2 -Target 2 (Zullo) for further evaluation.

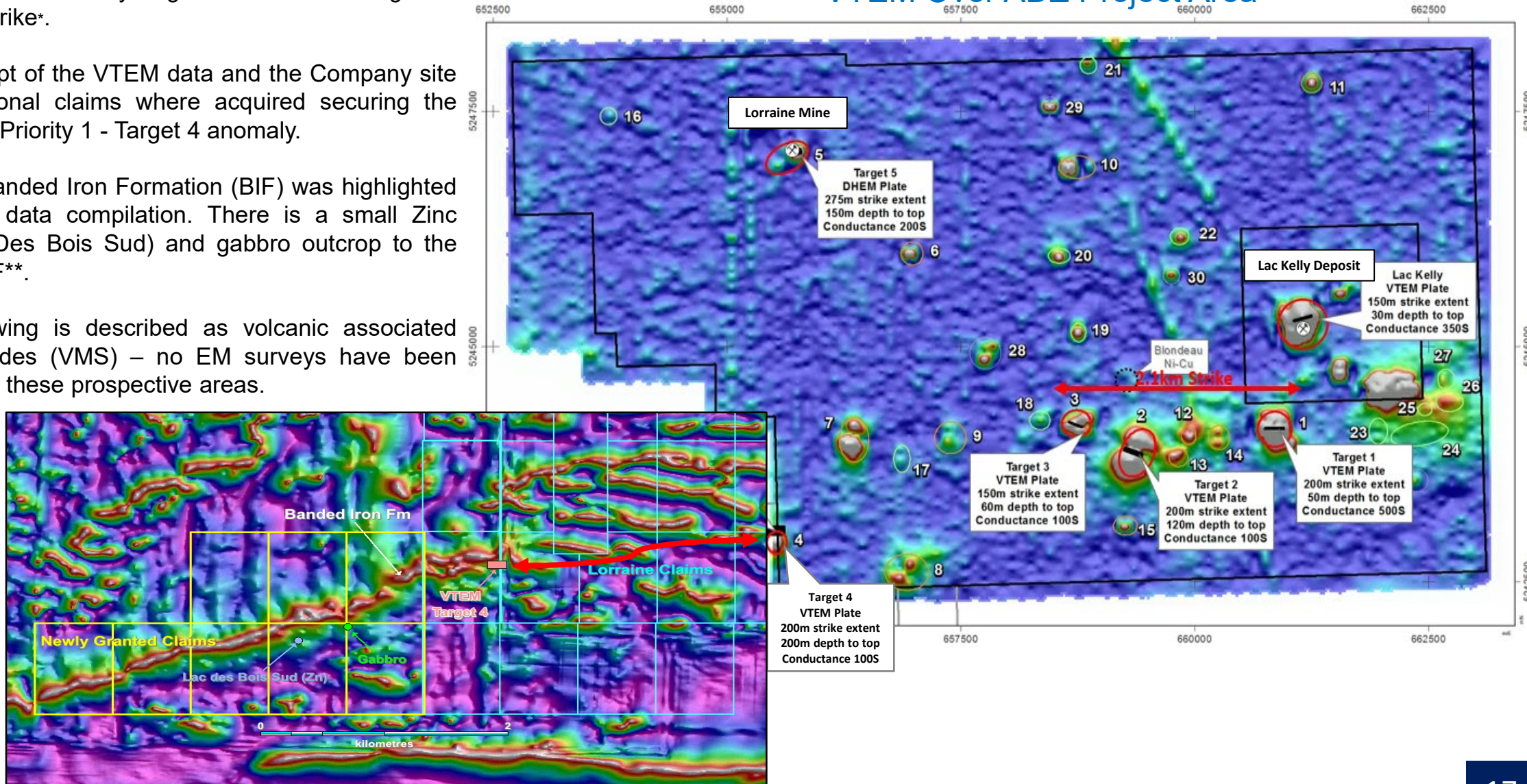




# VTEM – A Proven Way of Discovering Massive Sulphide Conductors

- Importantly 6 of the Priority targets are clustered together over a 2.1km strike\*.
- Following receipt of the VTEM data and the Company site visit, 14 additional claims were acquired securing the edge of survey Priority 1 - Target 4 anomaly.
- A 4km strike Banded Iron Formation (BIF) was highlighted in the historic data compilation. There is a small Zinc showing (Lac Des Bois Sud) and gabbro outcrop to the south of the BIF\*\*.
- The Zinc showing is described as volcanic associated massive sulphides (VMS) – no EM surveys have been conducted over these prospective areas.

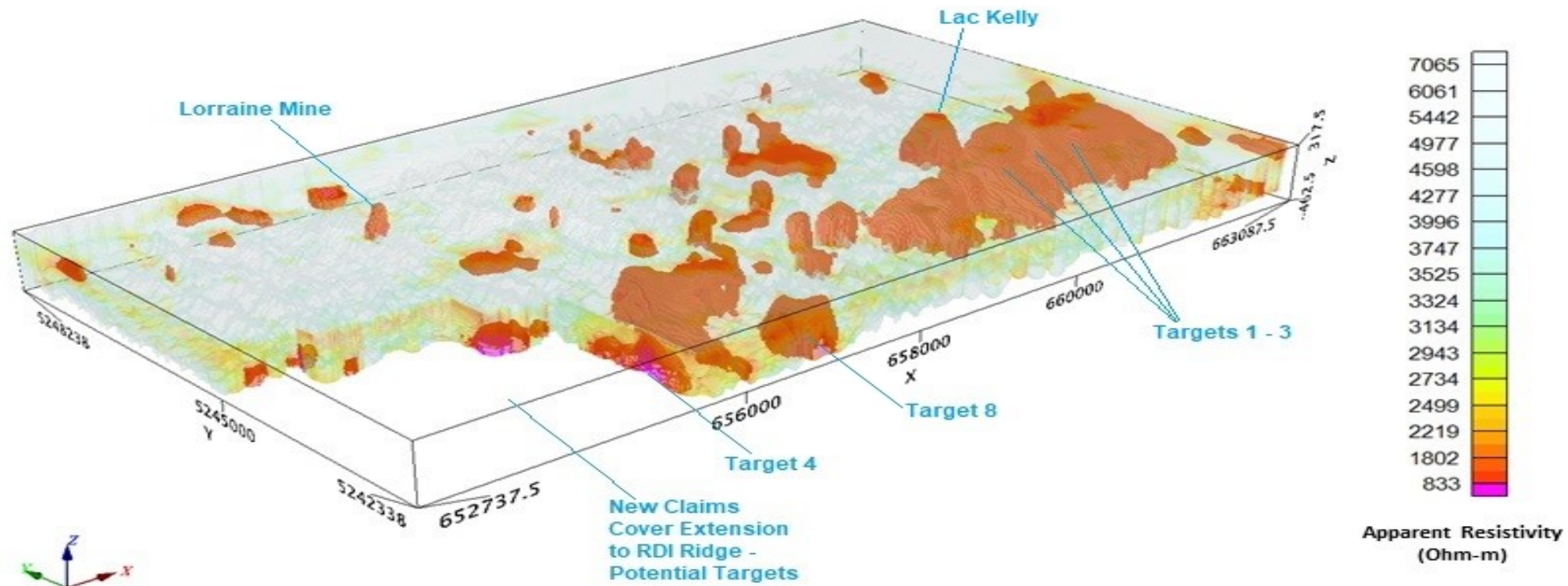
## VTEM Over ADZ Project Area\*





## Lorraine Project – RDI Ridge Strike Extension

### 3D Apparent Resistivity

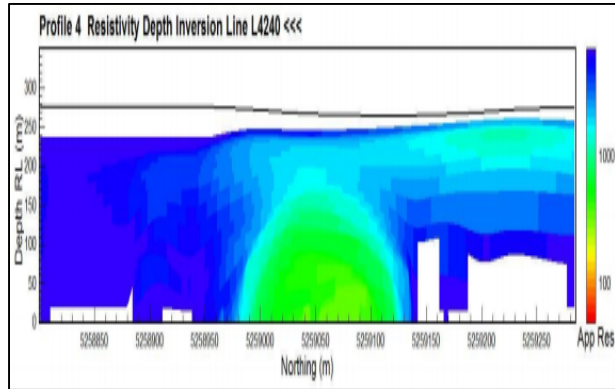


# Closing In On The Big Nickel-Copper Sulphide Discovery

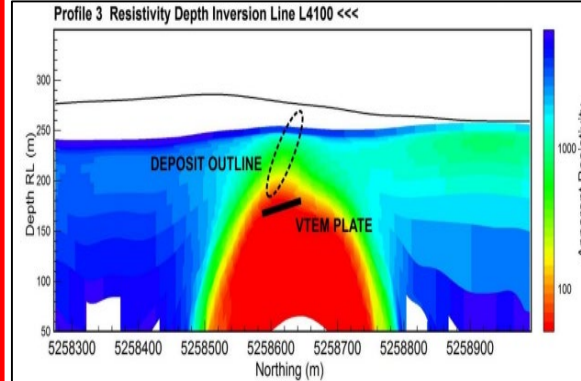
## Known Ni-Cu Massive Sulphide Deposit Conductors\*

## New Priority 1 Massive Sulphide Deposit Conductors#

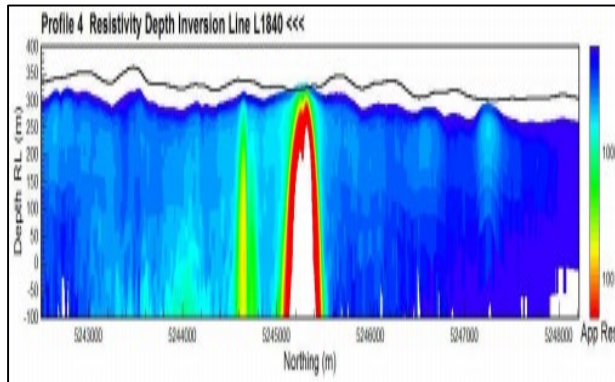
### Extensions to Known Massive Nickel-Copper Sulphide Deposits



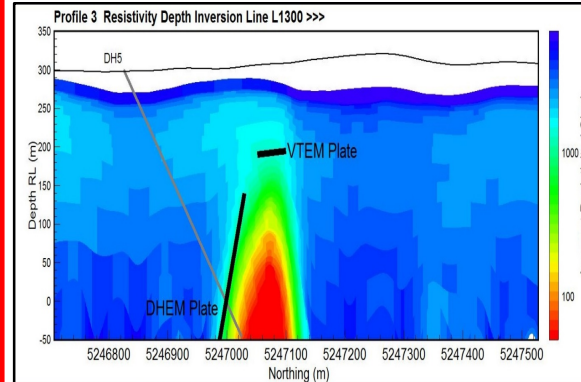
Midrim



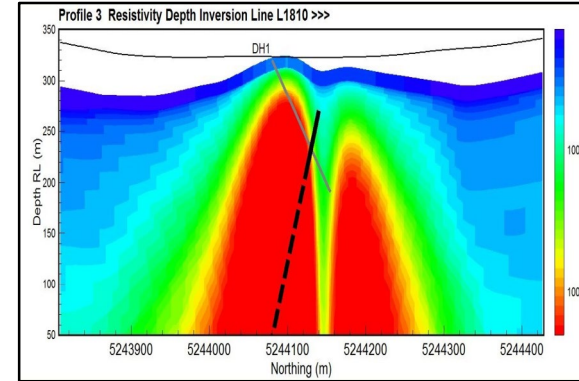
Alotta



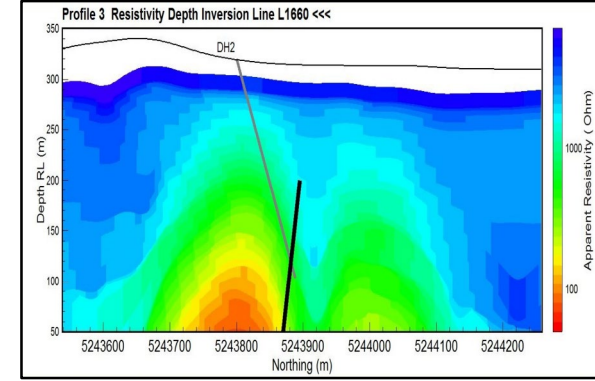
Lac Kelly



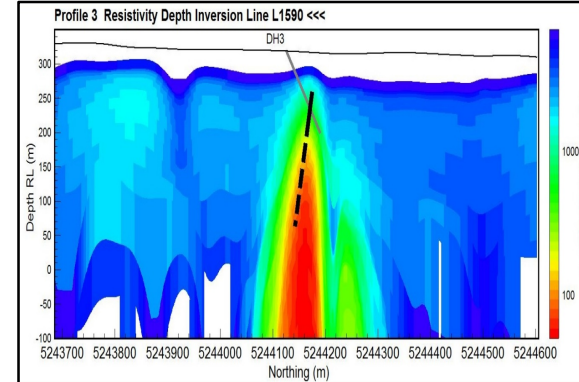
Lorraine Mine – Target 5



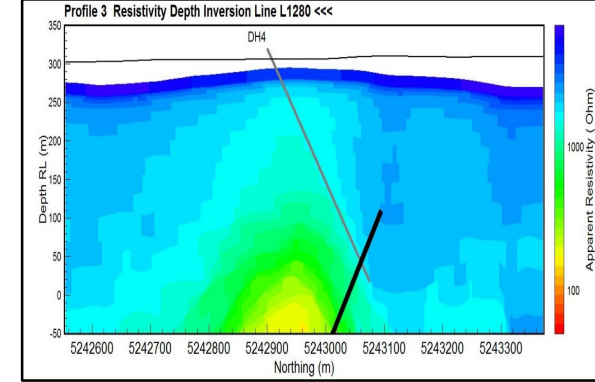
Target 1



Target 2



Target 3



Target 4

The overall similarities between the 4 known Nickel-Copper massive sulphide conductors and the Company's newly defined massive sulphide conductors is compelling and has validated the Company's drill targets for its principal focus of discovering high grade Ni-Cu-PGE-Co massive sulphide deposits.



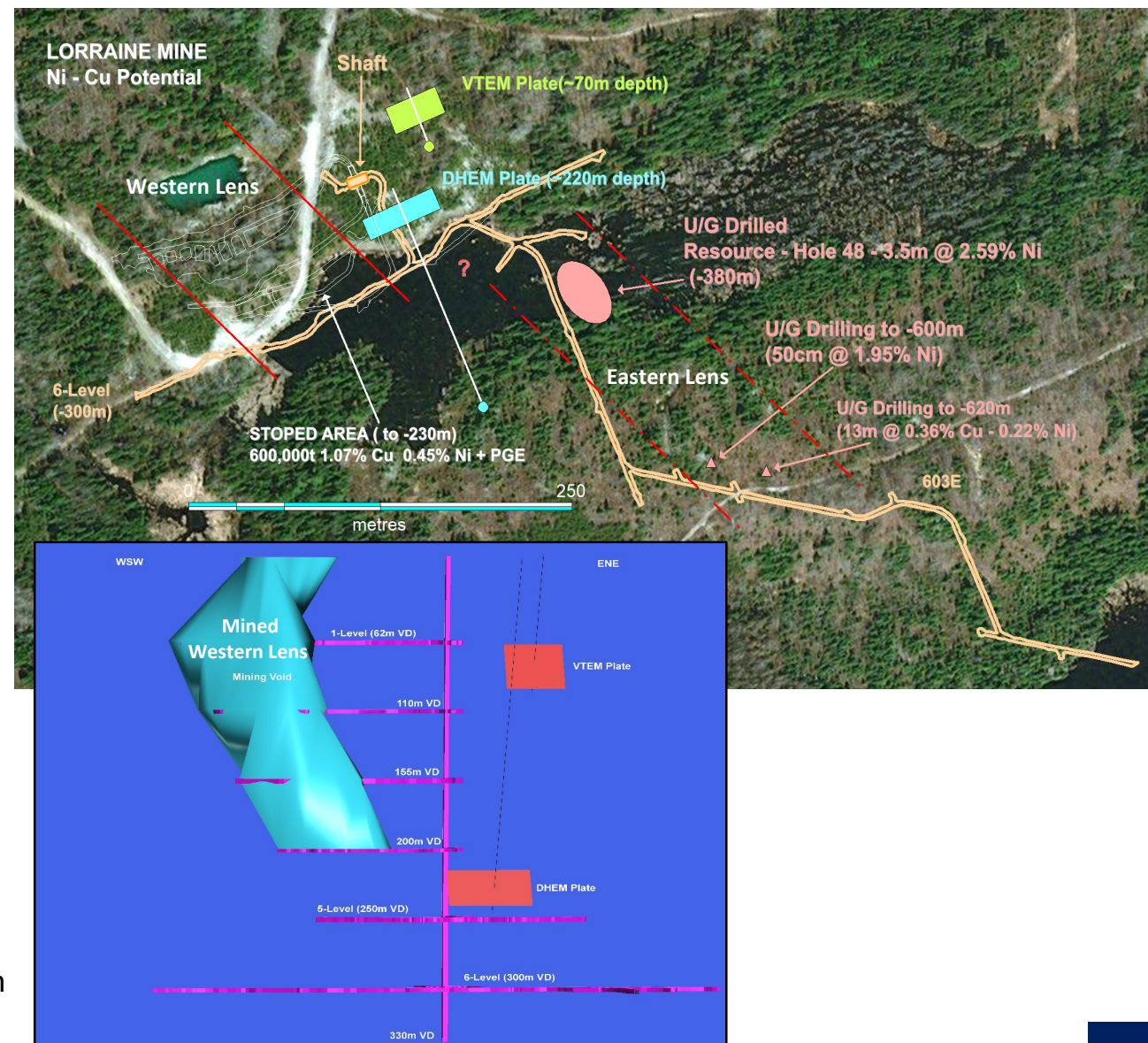
# Lorraine Mine Underground Development

## Historic Mined Mineralisation

- Mined from surface to 240m (1964 – 1968)
- 75m to 90m wide ore body
- ~12m thick semi-massive to massive sulphides
- Centre of lens pyrrhotite with pentlandite enriched in Co, pyrite, chalcopryite and magnetite
- Disseminated envelop with chalcopryite, lessor pyrrhotite and magnetite – enriched in Cu, Au, Ag and Zn.

## Lorraine Mine Ni-Cu Sulphide Potential

- Extensive underground infrastructure in place\*
- Western limit of stopped lens is SE plunging (Z) fold closure
- Eastern limit of lens is a possible flexure (kink fold) with mineralisation continuing to depth - SE plunging below the 6- level
- U/G drilling from 6- level drift (300m VD) intersected:
  - 3.5m @ 2.59% Ni from 380m VD
  - 0.5m @ 1.95% Ni from 600m VD
  - 13m @ 0.36% Cu and 0.22% Ni from 620m VD **confirming continuation of mineralisation to depth.**
- No modern day exploration techniques have been utilised for targeting of high grade massive sulphide zones at Lorraine, presenting Chase with an excellent opportunity to follow up on confirmed mineralisation.



## Priority 1 Targets

- ✓ Geophysical work complete
- ✓ Historic drill hole data compilation complete
- ✓ Ground truthing complete
- ✓ Peer Review of Geophysical work complete
- ✓ Targets confirmed
- Drill testing early August

## Drill Programme

- **Drill mobilising to site on the 6 August**
- Phase 1 Drilling – up to 2,500m diamond drilling planned to test the five Priority 1 VTEM conductors
- Follow up Downhole EM to further test target zones
- Phase 2 Drilling\* – 2,000m diamond drilling to test six Priority 2 VTEM conductors.

## Priority 1 VTEM Plate Targets\*

	Target	dB/dt_Tau	Bfield_Tau	From Surface to Top of Plate	Depth Extent of Plate	Strike Length of Plate	Conductance (siemens)	Comments
Priority 1 Targets	1	1.7	4.2	50m	>50m	200m	500s	Very Strong VTEM
	2	1.2	5.8	120m	200m	200m	100s	Very Strong VTEM
	3	0.9	1.2	60m	>50m	150m	100s	Strong VTEM
	4	0.6	1.4	200m	200m	200m	100s	Strong VTEM
	5	1.5	6.6	150m	150m	275m	200s	Very Strong VTEM

# Gold Potential at Lorraine

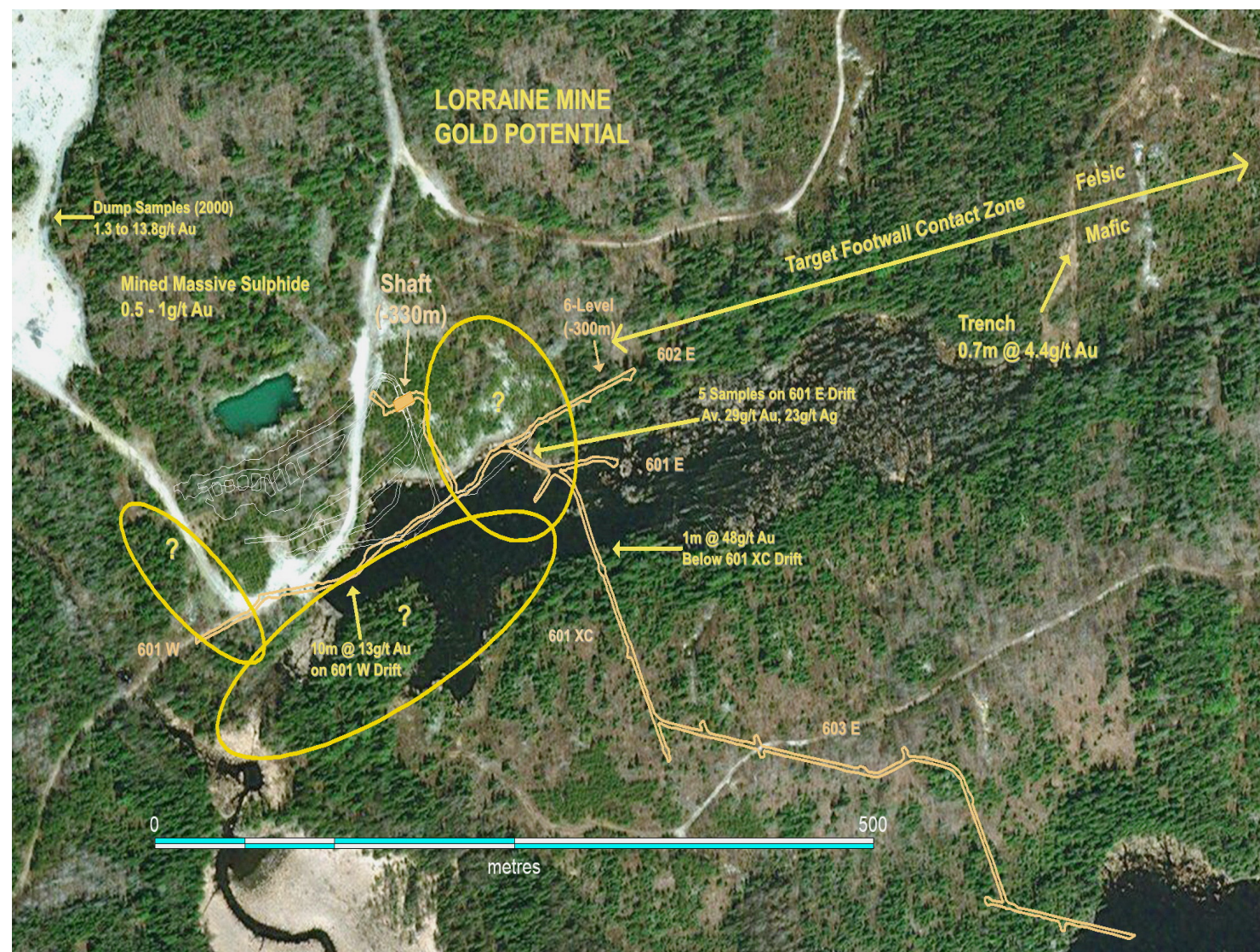
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## Bonanza Grade Gold At Lorraine\*

- High grade gold mineralisation is associated with quartz-chalcopyrite veining along the footwall sheared basalt/felsic volcanic contact zone on the 6th level drift (300m VD).
- **10m @ 13g/t Au** from sampling on the 6th level drift.
- **1m @ 48g/t Au and 102.91gt Ag** from a drill intercept on the 6th level drift.
- **Visible gold up to 29.2g/t Au & 23g/t Ag** found in five copper-gold bearing quartz veins.
- **Gold values up to 13.8g/t Au** from sulphide bearing samples in waste dumps.
- High grade gold never followed up in Quartz Veins.
- Located 20km east of Lorraine is the Belleterre Gold Mine which produced **755,000 oz of gold @ 10.73 g/t between 1936 and 1959. Mineralisation comprised visible gold in quartz veins.**
- Weak surface gold east of the Lorraine Shaft needs following up.



# Nickel Fundamentals

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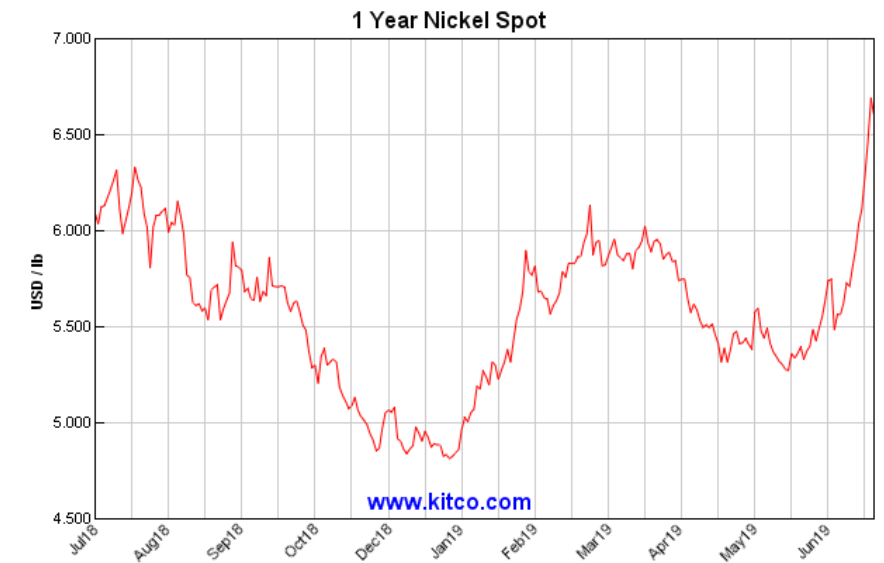




# Nickel Market Drivers and The Boom That Lies Ahead

## A Strong Supply vs Demand Story Unfolding

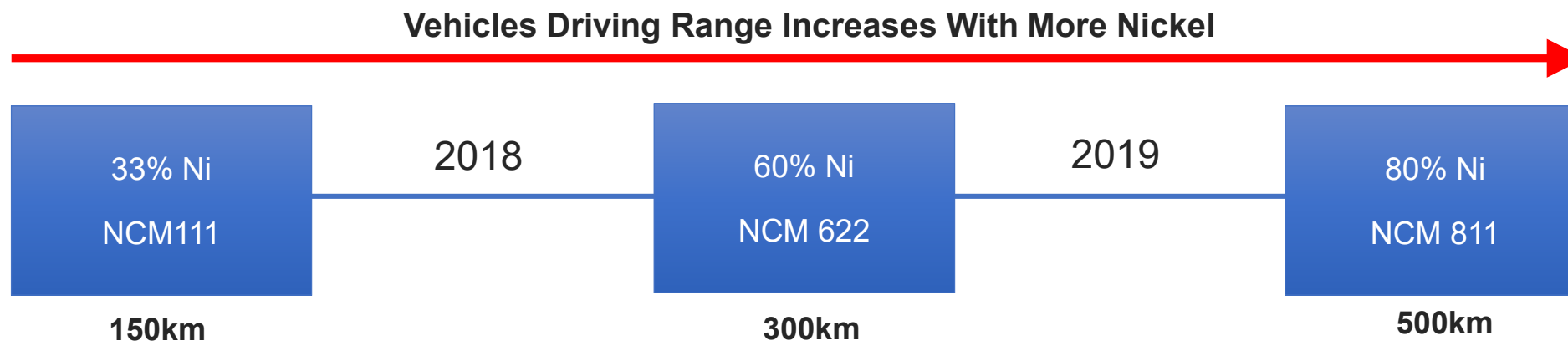
- Only Class 1 Nickel is suitable for the battery market, Class 1 Nickel is dominantly & preferentially derived from Sulphides.
- Supply of Class 1 Nickel is depleting at a rapid rate just as the demand from Electric Vehicles (EV) is increasing. Over 225,000 tones has been depleted in 1.5 years.
- Class 1 Nickel trades as high as a 35% premium to Class 2 Nickel, a different pricing mechanism for Class 1 & Class 2 Nickel may emerge to reflect the 2 distinct Nickel products, this would lead to a boom in Class 1 prices.
- Battery manufacturers are inevitably and increasingly moving towards NMC 811 batteries, a Nickel rich battery consisting of 80% Class 1 Nickel - driving demand for the metal even faster.
- Robust demand for high nickel content 300 series stainless steel compared with low nickel content 200 series stainless steel in China. 300 series stainless steel requires Class 1 Nickel to keep its standard, therefor can not be displaced by Class 2 Nickel.
- Expectations of a boom in demand for electric vehicles has re-sparked the interest in the Nickel sulphide space bringing the likes of BHP, Glencore, Vale, First Quantum and Black Mountain back to source and lock up Class 1 Nickel supply for the arising demand.
- Nickel market dependant on an unstable jurisdiction to meet growing supply demands. (Indonesia, Philippines, New Caledonia, Guatemala and Brazil).



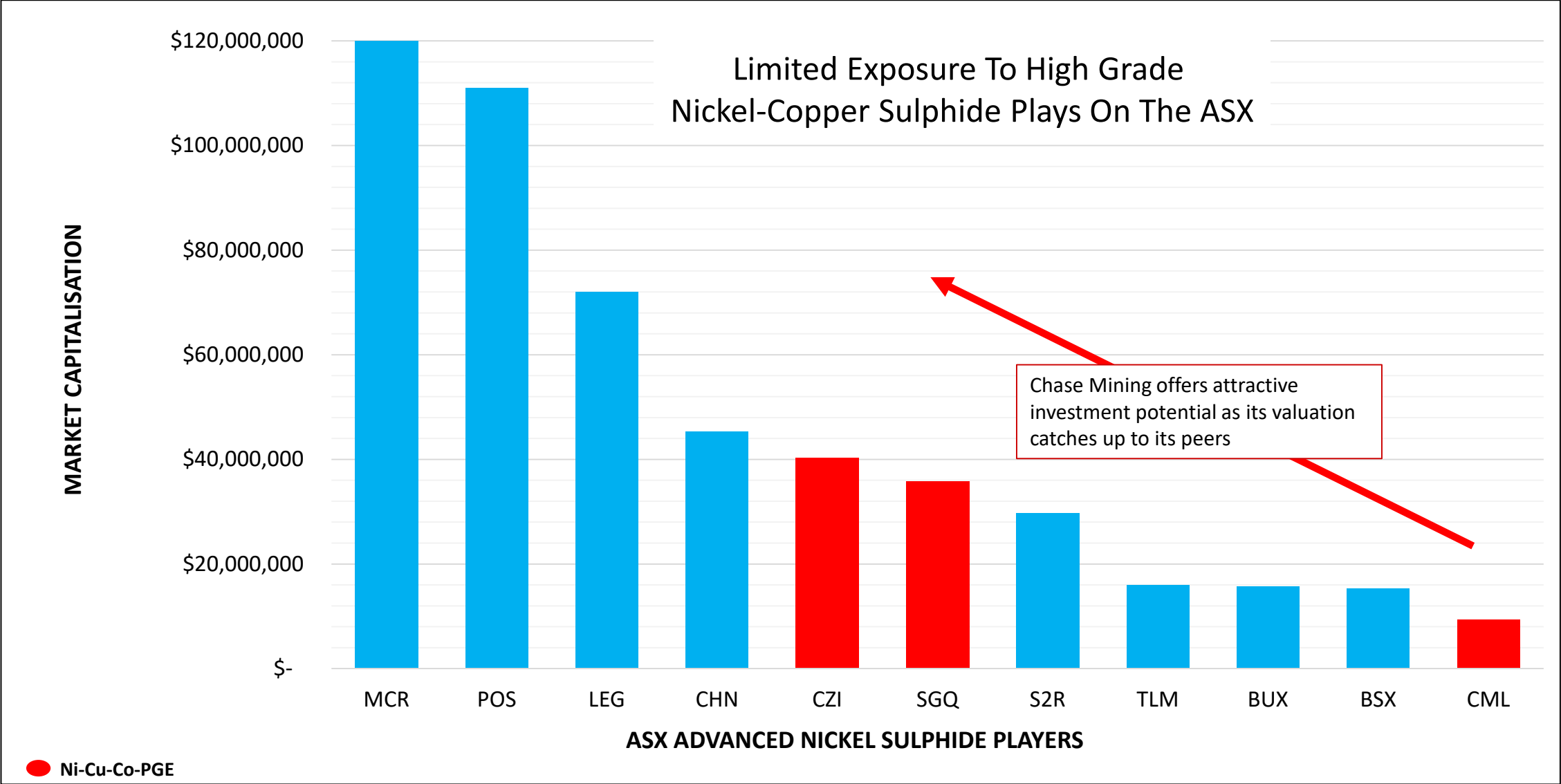


# Why Nickel Dominated Batteries?

- The top two reasons consumers cited for not buying an EV are the price and the driving range, Nickel rich batteries increase the driving range and lower the cost of the battery, making EVs more affordable and helping EVs to become more competitive for mass adoption.
- Nickel increases the energy density in the batteries, giving each vehicle more driving range, there by reducing the cost per km and making them cheaper per charge.
- Tesla already uses NCA batteries which is a Nickel rich battery (>80% Nickel). CATL, LG Chem, BASF and SK innovations – the top leading battery manufacturers have all cited that they will all be moving to Nickel rich batteries from 2019 (80% Nickel – NMC 811).



***It is clear that the future of EV batteries will require more Nickel***



# Past & Future Milestones

	Q2 2018	Q3 2018	Q4 2018	Q1 2019	Q2 2019	Q3 2019	UPCOMING
GTT appointed Corporate Advisor and project search commenced	✓ Apr-18						
Acquisition of High-Grade Nickel-Copper sulphide project (Zeus Minerals)		✓ Aug-18					
1 <sup>st</sup> drill campaign at High-Grade Ni-Cu sulphide Alotta Project		✓	Oct-18				
Intersection of broad zones of Ni-Cu massive sulphides		✓	Oct-18				
Assays from Alotta report High-Grade Ni-Cu sulphides		✓	Nov-18				
VTEM survey over Lorraine and ADZ project areas			✓	Mar-19			
Strong VTEM anomalies defined. Confirm outstanding massive sulphide conductors			✓	Mar-19			
Additional VTEM massive sulphide targets generated				✓	May-19		
CML acquires further ground at Lorraine				✓	Jun-19		
CML acquires Bambino project adjoining ADZ project				✓	Jun-19		
Peer review confirms prospectivity of VTEM targets				✓	Jun-19		
Drilling permits & approvals received, and contractors appointed					✓	Jul-19	
Drilling begins Phase 1 program (Up to 2500m)							★ Aug-19
Assays due from Phase 1 drill programme							★ Sep-Oct 19
Potential downhole EM to be completed at project							★ Sep-Oct 19
Phase 2 drill program begins*							★ Sep-Oct 19
Potential acquisition of additional Ni-Cu sulphide projects							★ Ongoing

## Competent Person Statement

The information in this report that relates to Exploration Activities is based on information evaluated by Dr Leon Pretorius who is a Fellow of The Australasian Institute of Mining and Metallurgy (FAusIMM) and who has sufficient experience relevant to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code 2012). Dr Pretorius is the Executive Chairman of Chase Mining Corporation Limited and he consents to the inclusion in the report of the information in the form and context in which it appears. Dr Pretorius holds shares in Chase Mining Corporation Limited.

Information in this ASX announcement that relates to Exploration Activities is based on information compiled by Mr Martin Kavanagh. Mr Kavanagh is a Non-Executive Director of Chase Mining Corporation Limited and is a Fellow of the Australasian Institute of Mining and Metallurgy (FAusIMM), a Member of the Australian Institute of Geoscientists (MAIG) and a Member of the Canadian Institute of Mining, Metallurgy and Petroleum (CIM). Mr Kavanagh has sufficient experience, which is relevant to the style of mineralisation and type of deposit under consideration, and to the activities, which he is undertaking. This qualifies Mr Kavanagh as a Competent Person as defined in the 2012 edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code 2012). Mr Kavanagh consents to the inclusion of information in this announcement in the form and context in which it appears. Mr Kavanagh holds shares in Chase Mining Corporation Limited.



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