



# WOLF DEN

*For North American Metals that Power the Grid and  
Support the EV Revolution*

November 2021

WLF.V



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Don Dudek, P. Geo., Jeremy Ouellette P.Eng., and Ron Little, P. Eng. are the Qualified Persons for the information contained in this presentation who are Qualified Person's within the meaning of National Instrument 43-101.

For further information on the technical data provided in this presentation, including the key assumptions underlying the mineral resource herein, refer to the Sedar filings as listed below and see technical report entitled "*National Instrument 43-101 Technical Report, Pickett Mountain Project Resource Estimation Report, Penobscot County, Maine, USA*" dated January 7, 2019.

Unless otherwise stated, the financial information in this presentation is as reported in the latest quarterly filings or press release related to the financial information of the Corporation.

Pickett Mountain aerial photographs provided courtesy of LandVest

**Information in this presentation is as of Oct 29, 2021.**

## Board

<b>Ron Little</b>	President & CEO - Founder of Orezone Resources and Orezone Gold
<b>Ewan Downie</b>	Non-Exec Chair - Founder, Founder of Premier Gold, I80 Gold and Wolfden #1
<b>Ian Atkinson</b>	Director - Previous CEO of Centerra, Director of Kinross
<b>Don Bubar</b>	Director - Founder of Avalon Metals, Previous VP Exploration Aur,
<b>John Seaman</b>	Director - Previous CFO and Director of Premier, Wolfden #1, Director of I80

## Management

<b>Don Dudek</b>	VP Exploration - Previous CEO Savary Gold, VP Aur, Avion, Endeavour
<b>Jeremey Ouellette</b>	VP Project Development – Previous Trevali, Caribou Operations
<b>Don Hoy</b>	VP Chief Geologist – Previous CEO Wolfden, VP Cliffs and Freewest,
<b>John Breedlove</b>	Manager Exploration US – Previous Chief Geo Doe Run

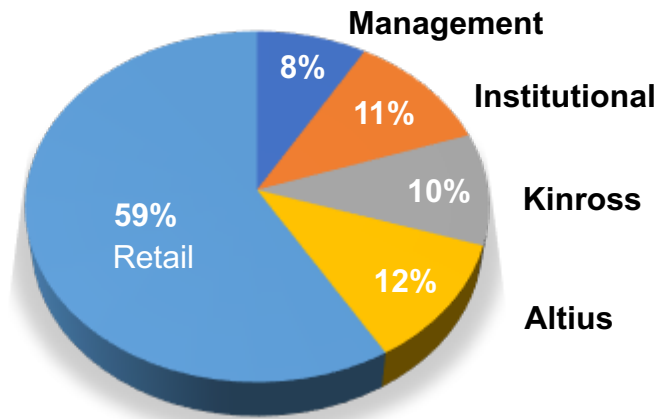
## Advisors

<b>Rahim Lakha</b>	Market and Investor Development
<b>Bill Fisher</b>	Geologist, Previous Boliden, Aurilean, Globstar, Gold Quest,
<b>Scott Trebilcock</b>	Process Eng. and Markets, Previous Nevsun, currently CEO Kore mining
<b>Joe Spiteri</b>	Long-time leading mining consultant, resource models and technical studies

Capital Structure

Share Ownership (+40% Control )

Share Price	\$0.20
Shares Outstanding	151.8 M
Options (w.a. \$0.34)	7.7 M
Warrants (w.a. \$0.39)	16.5 M
Market Capitalization	\$30.4 M
Cash (June 30 <sup>th</sup> )	\$5.8 M



Analyst Coverage

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Beacon Securities	Michael Curran
Canaccord Genuity	Tom Gallo
Cormark Securities	Stefan Ioannou





## **Drilling Three Project Silos in 2021 – Polymetallic (VMS) , Silver and Nickel**

- Drill Programs on 4 Significant Projects
- Q1 and Q2 Drill Programs in Manitoba and Pickett Mt.
- Q3 to Q4 Drill Silver Projects in Maine & New Brunswick plus Pickett Mt

## **Project Milestones in next 6-9 months**

- Pickett Mt. Resource Update Q4, Rezoning / Pre-permitting alternatives Q4
- Silver Projects - Drilling and Geophysics planned for Q4 2021 in Maine and NB
- Nickel Projects – Initial Resource Reports Q4/Q1, Expansion Drill program Q1 2022

## **Fully Financed - \$7M in Q1 including**

- Strategic Partners **Kinross and Altius**
- New Intuitional investors, Insiders and Long term Investors
- \$0.23M Grant from Manitoba Gov't for Rice Island

# Polymetallic – Diversified Commodity Exposure

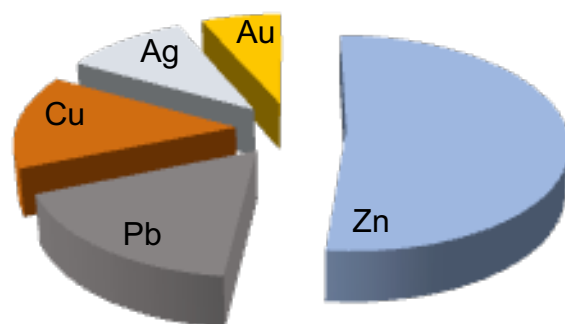


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**Pickett Mountain Average Grade** **10.4% Zn** **4.1% Pb** **1.3% Cu** **107g/t Ag** **0.9g/t Au**

(Cormark Securities table page 9)

**Value per Tonne in Situ = US\$543** (using \$1.15/lb Zn, \$1.0/lb Pb, \$3.0/lb Cu, \$17/oz Ag, \$1,475/oz Au)



230lb Zinc or \$265

91lb Lead or \$91

28lb Copper or \$84

3.4oz Silver or \$58

0.03oz Gold or \$45

**\$543 / tonne**

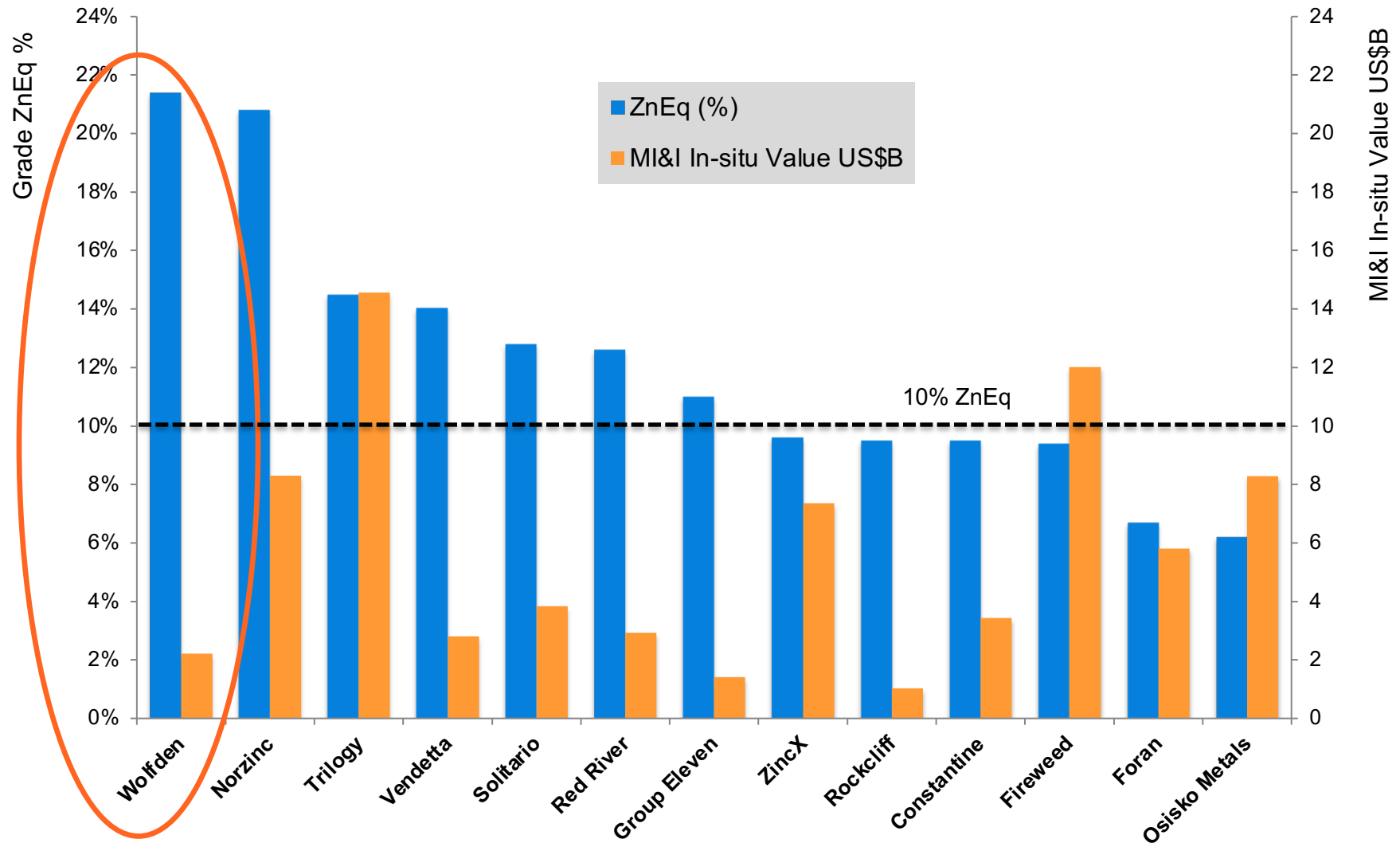
## A Comparison of Metal Equivalent Resources Pickett Mt (based on Jan 7, 2019 Mineral Resources Statement)

Resource Category	Tonnes Mt	ZnEq M lbs	ZnEq Grade %	CuEq M lbs	CuEq Grade %	AgEq K Oz	AgEq Grade g/t	AuEq K Oz	AuEq Grade g/t
Indicated	2.05	940	20.8	360	8.0%	63,600	965	733,000	11.1
Inferred	2.03	985	22.0	378	8.4%	66,600	1021	768,000	11.8

# Comparisons – Grade and In-situ Value



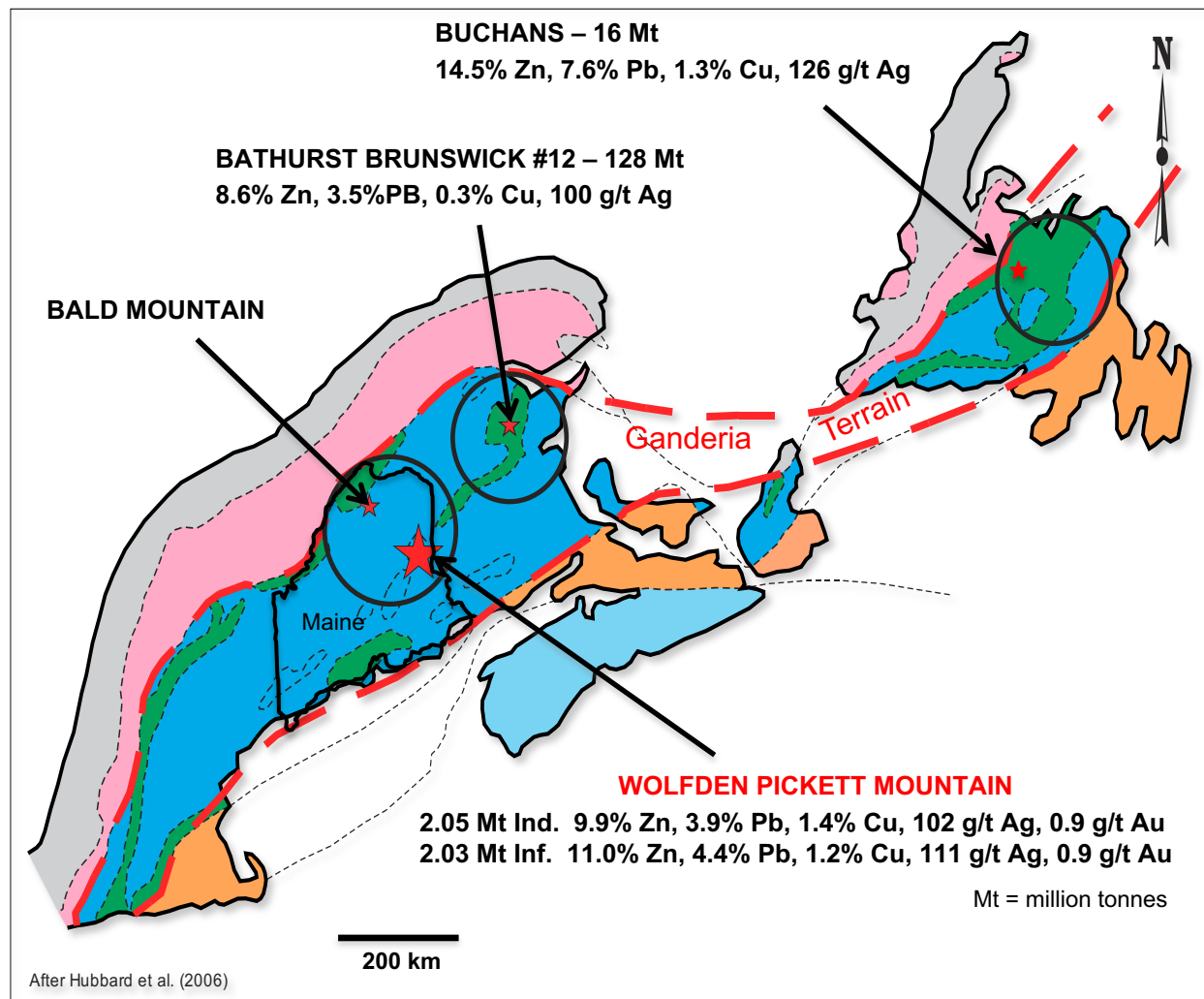
(from same Cormark data as slide 5)







## Tectonic Map of the Appalachians

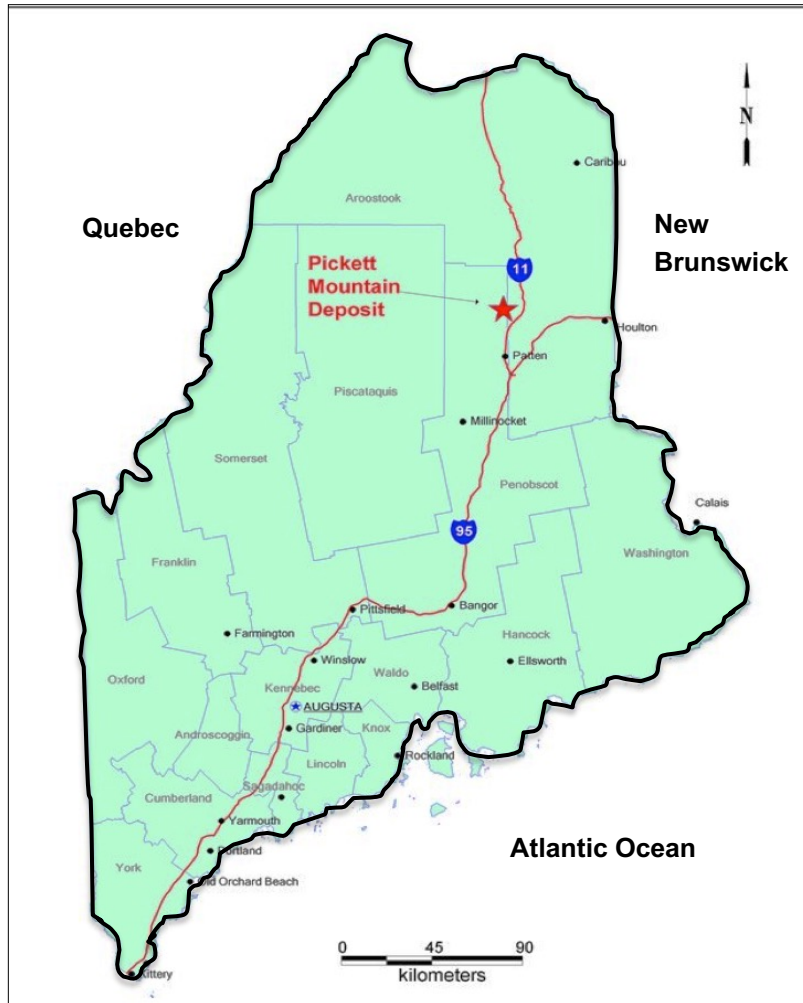


- Ganderia Terrain geologic belt hosts world-scale endowment of high-grade Zn-Pb-Cu-Ag massive sulphide deposits

- **BATHURST CAMP 349 Mt**  
World's largest VMS district w/  
Production of 134 Mt

- **BUCHANS CAMP 112 Mt**  
Production 16 Mt

- **WOLFDEN PICKETT MTN.**  
Continuation of Ganderia Terrain belt into Maine - **Heavily underexplored and undeveloped**



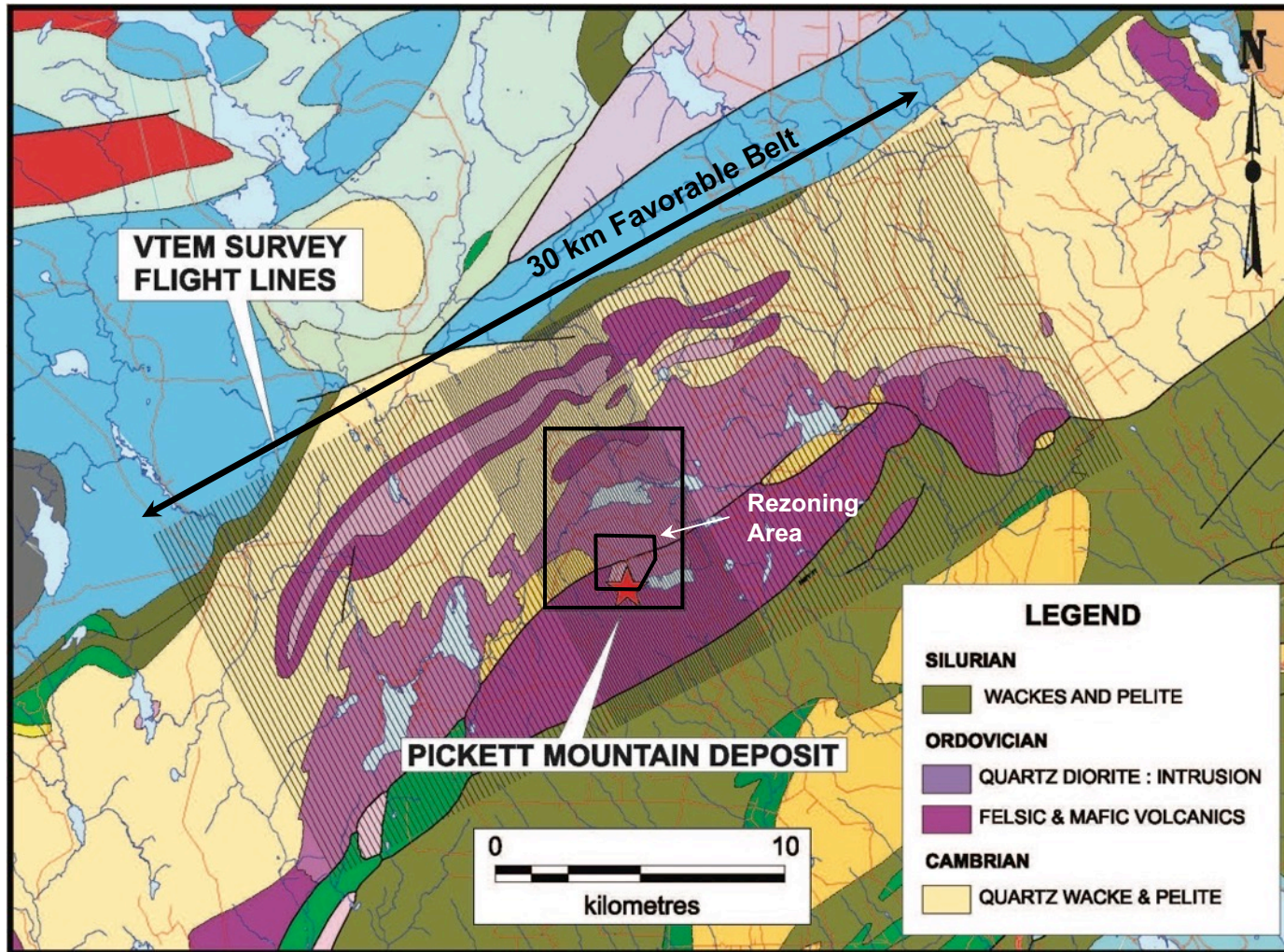
## Location

- 45 miles from US-Canada Border
- 3 miles off State Hwy 11
- 15 miles to railway siding
- Power line and excellent Lumber roads
- No population within +2 km of site

## New Mining Code 2017

- Streamlined permitting process
- Underground mining allowed for metals
- Dry stack tailings required
- 100 year bond on monitoring
- No Federal involvement in permitting

# Wolfdan Flew the Entire 30 km Belt

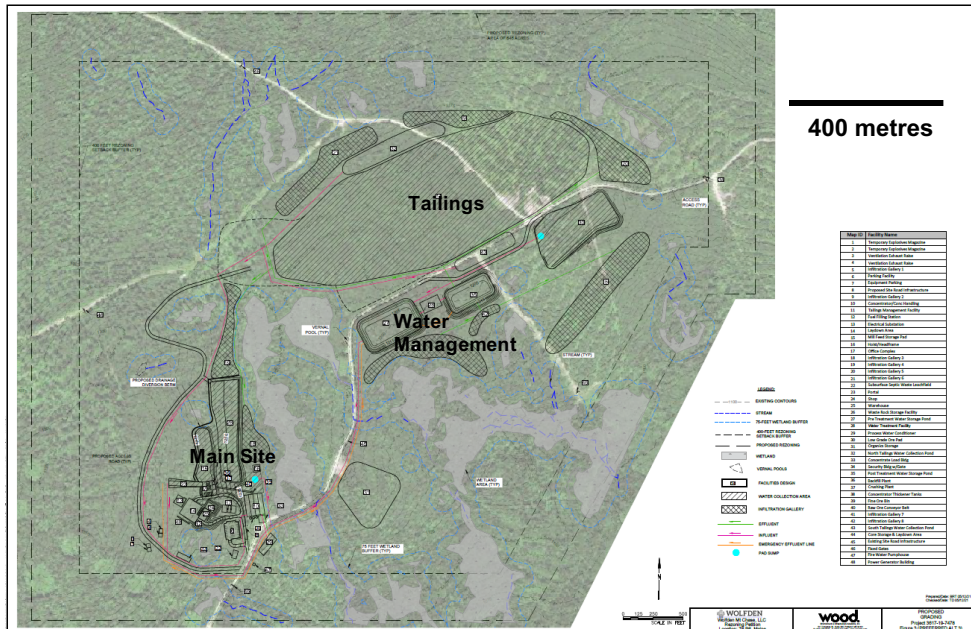


Airborne Geophysics completed over the entire favorable belt (see VTEM flight lines)

Other targets similar to Pickett Mt. identified  
Drilling in 2021

Focused on discovery of new deposits nearby and the 30km belt





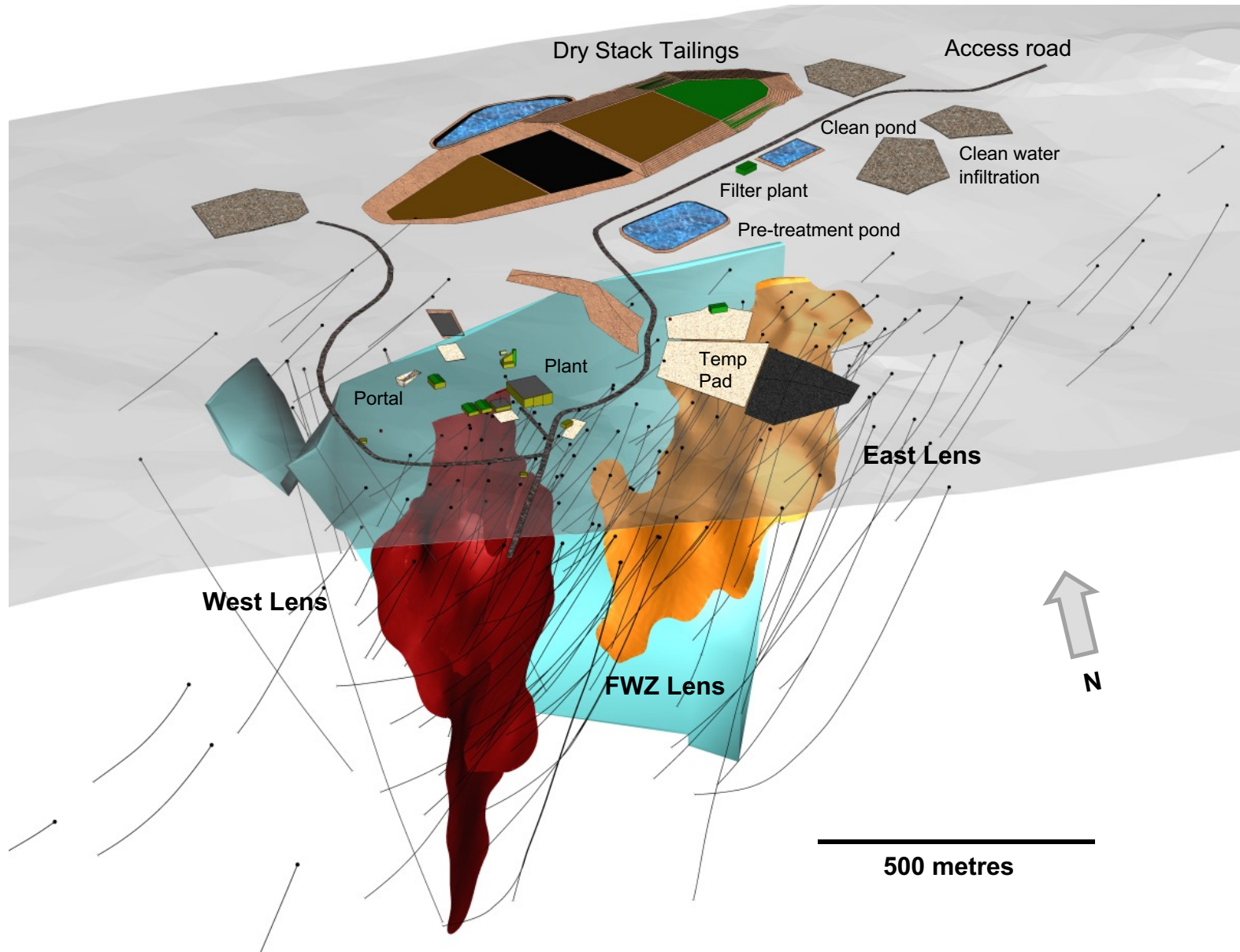
- **Small Footprint with Low Impacts.** Layout avoids all wetlands and water bodies
- **All water returned to ground is filtered and treated to same quality as background**
- **Creates +130 jobs and over US\$400 M in estimated revenues to the State**
- **Local communities very supportive**

- **US\$ 198 Million After-Tax NPV8% to Wolfden**
- **37% After-Tax IRR**
- **2.4 year Payback and 10 year mine life**
- **\$0.38/lb Zinc AISC - (Breakeven price)**
- **US\$148 M Initial Capex including \$13M Closure costs and 20% Contingency**

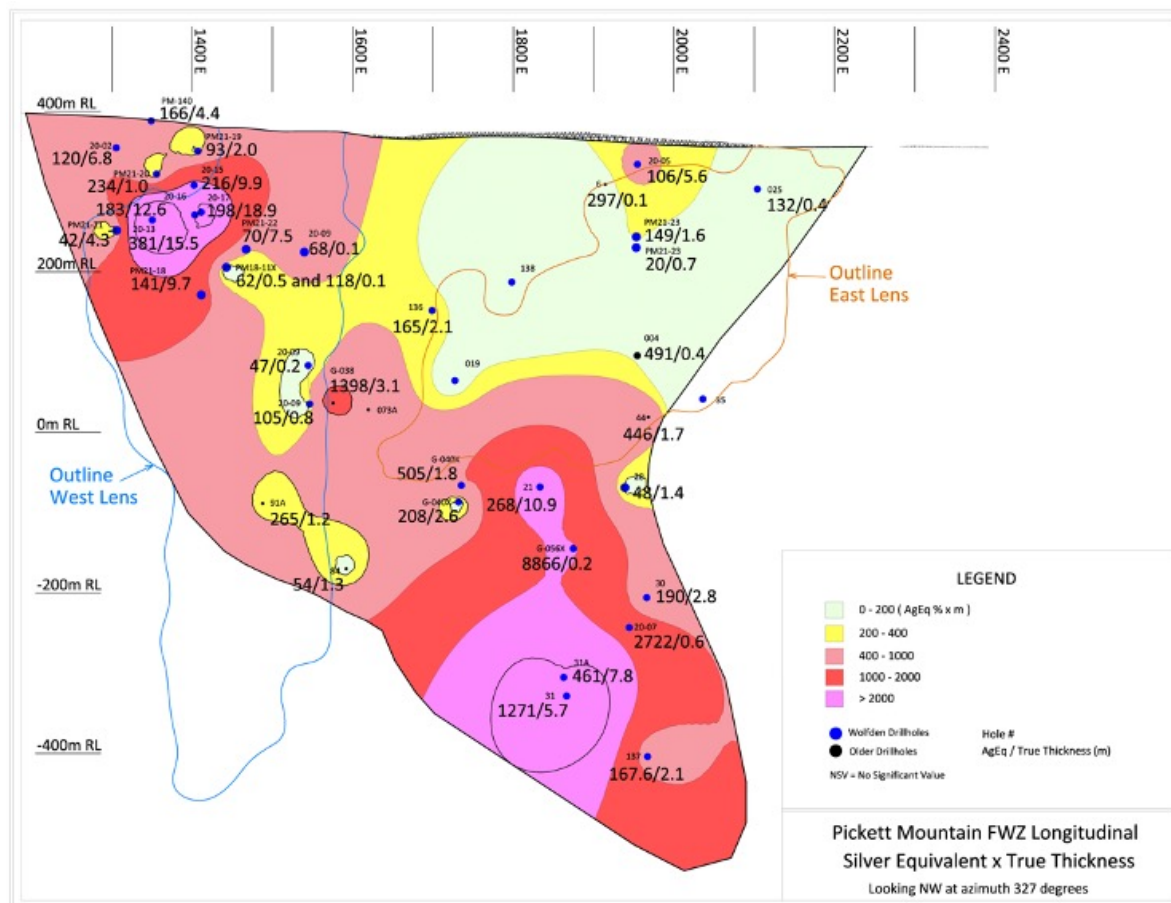
# Discovery of Footwall Lens (FWZ)



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# Footwall Lens Longitudinal Section AgEq



The Footwall Lens(FWZ) occurs 150 metres north of the West and East Lens (in this image, 150m behind the West and East Lens)

FWZ has Silver enrichment of up to 200 oz/tonne

Associated sulphide stringer mineralization between West Lens and FWZ

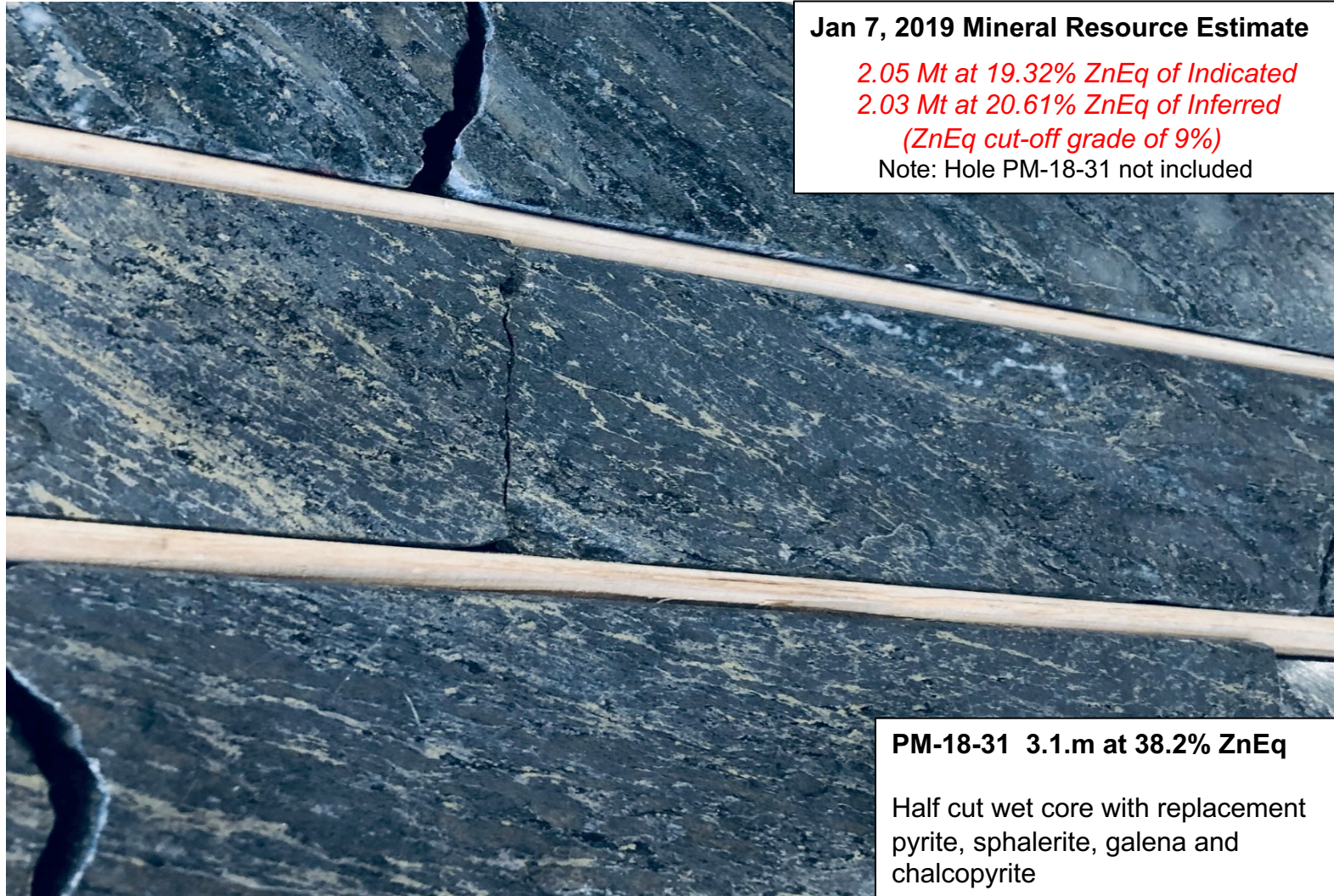
Deeper higher grade area indicates potential for additional tonnage



# High Grade FWZ Mineralization (~ 38% ZnEq)



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### **Big Silver – Silver & Polymetallic** - Maine (First mover advantage)

- ✓ Zoned hydrothermal breccias/replacement zones with Silver, Gold and Base metals

### **Bathurst Mining Camp Silver and Polymetallic** – New Brunswick

- ✓ Large land holdings with Silver and Base Metal Targets

### **Rice Island - Nickel Sulphide Project** – Manitoba near infrastructure

- ✓ Higher grade Ni with Cu and Co

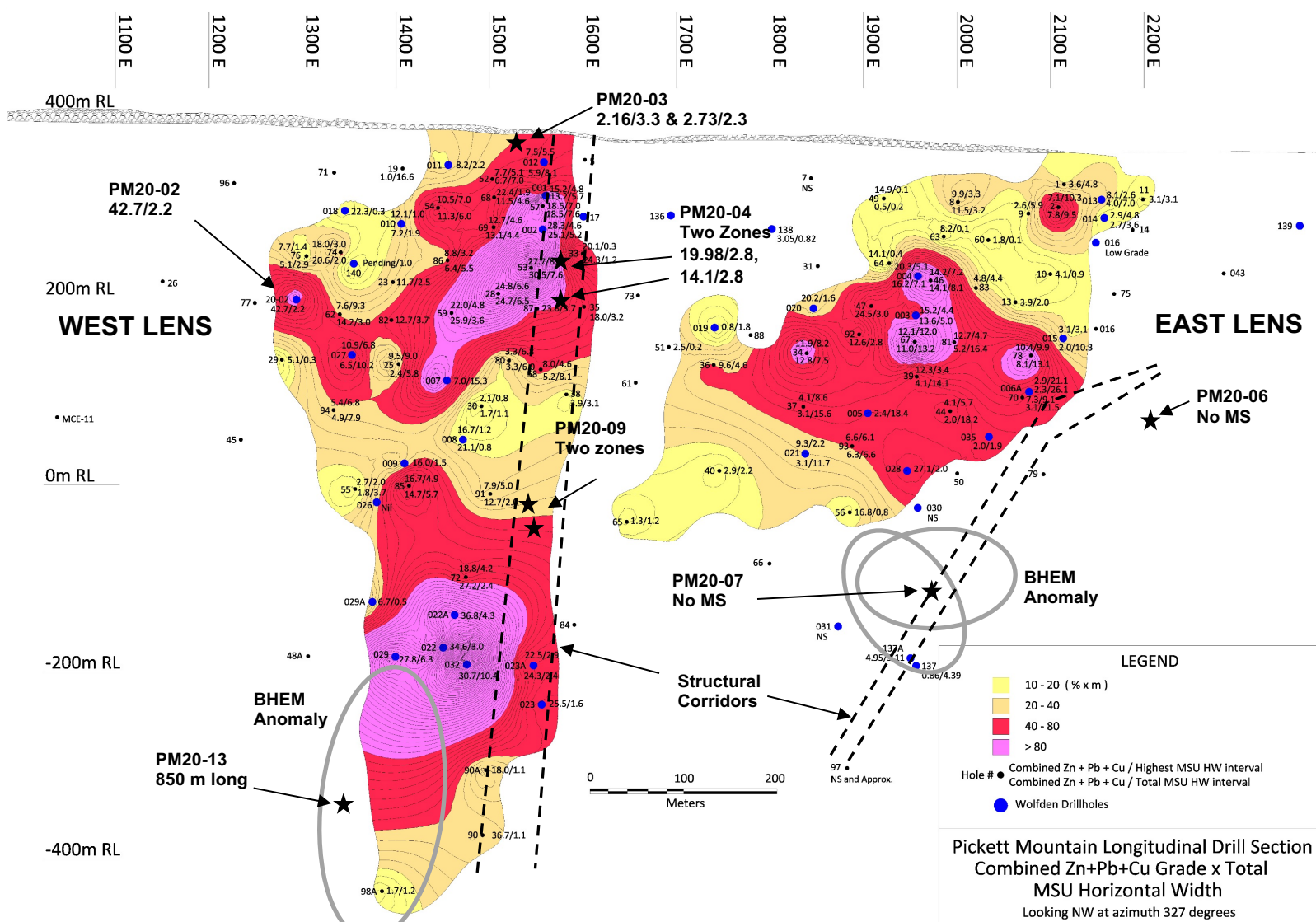
### **Nickel Island Nickel Sulphide Project** – Manitoba

- ✓ Higher grade Ni with potential PGE's

# Drill Hole Longitudinal Section



# WOLFDEN

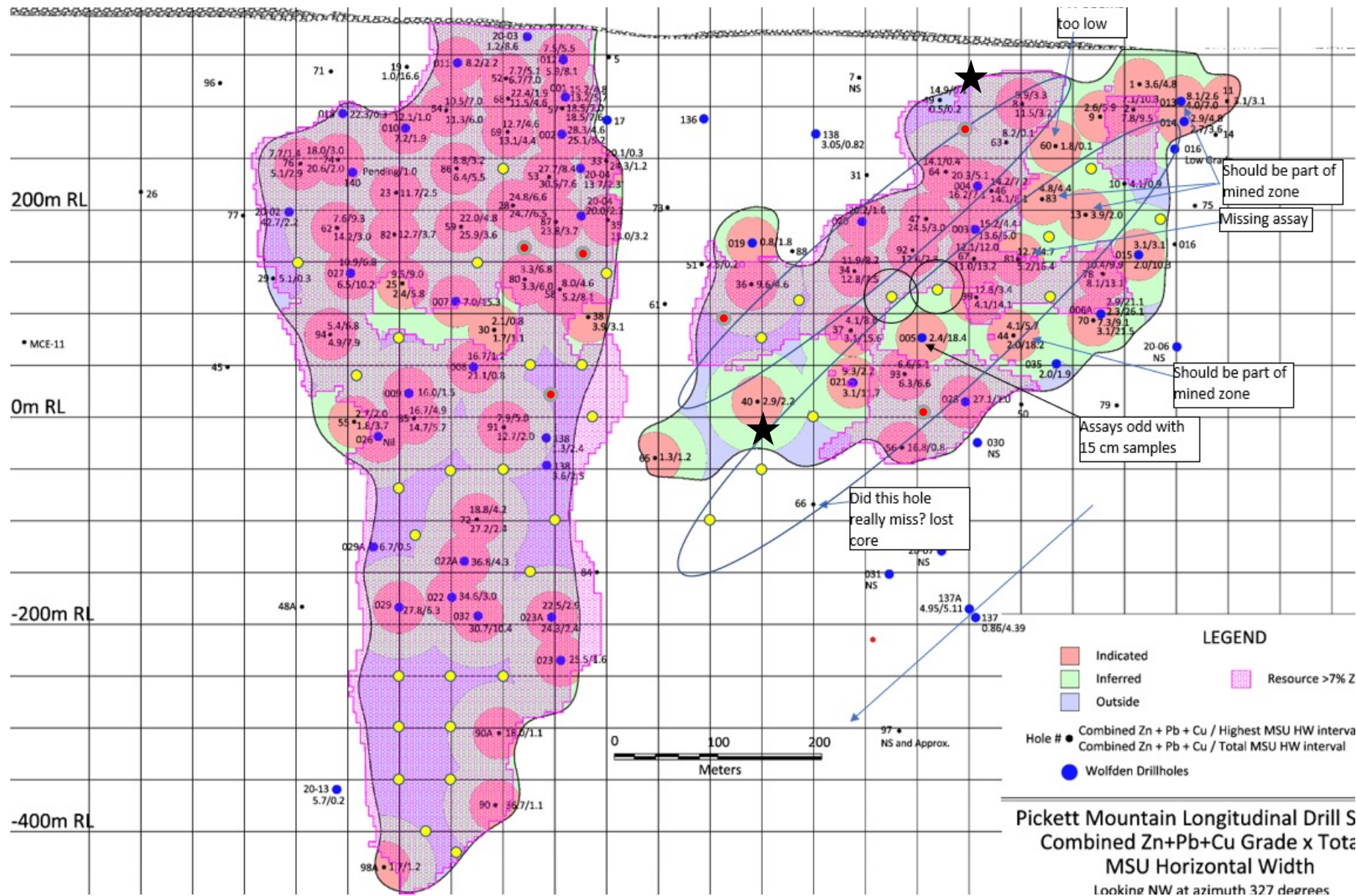




# Future Infill Drilling for Reserves

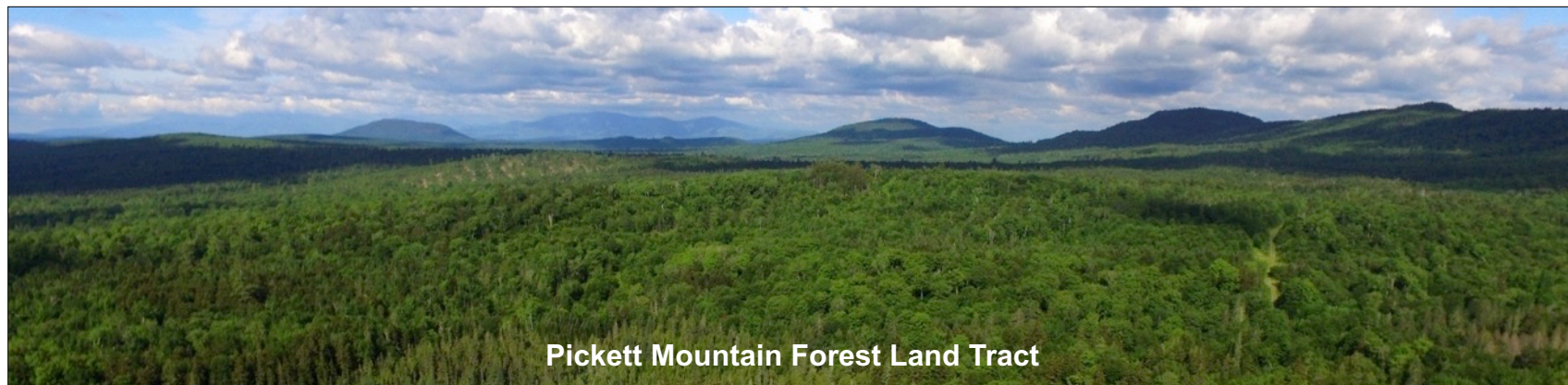


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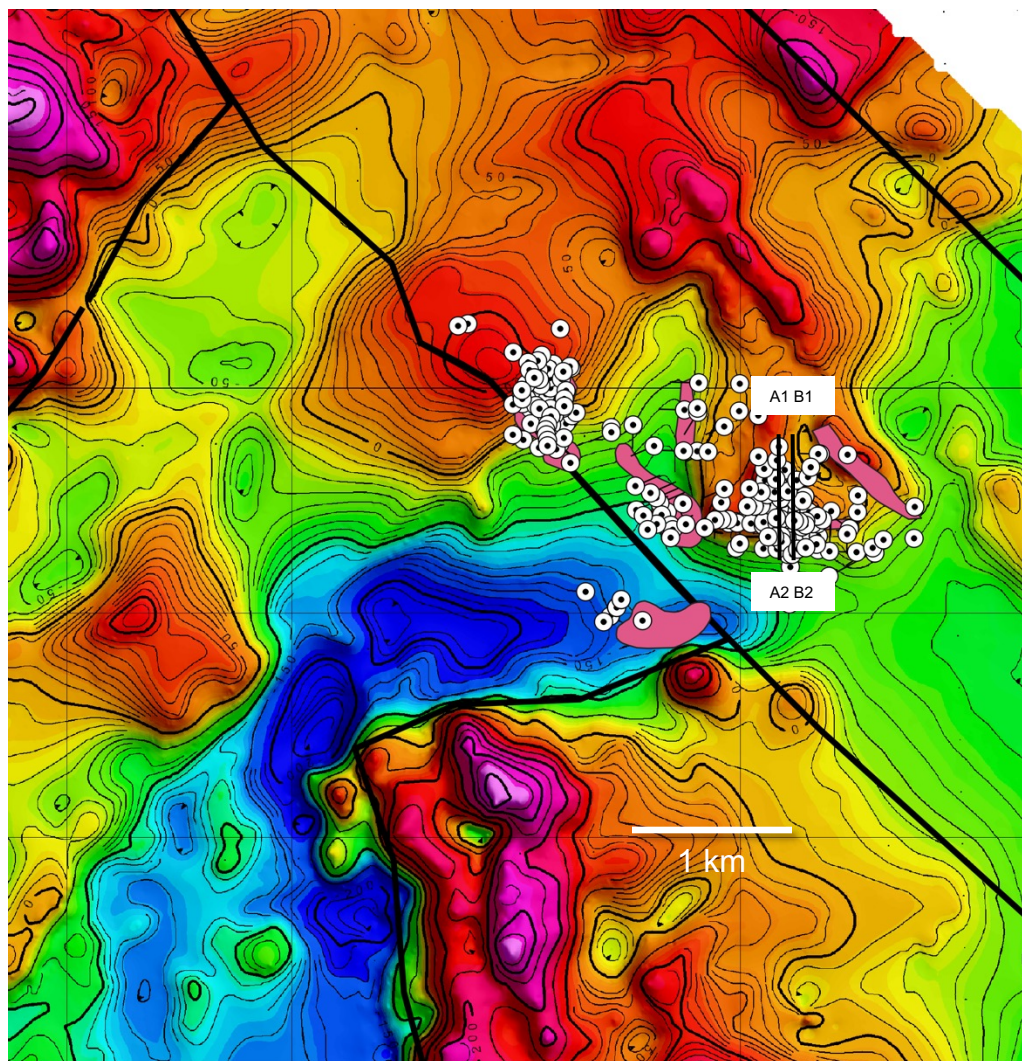


PRODUCT	WEIGHT	GRADE					% DISTRIBUTION				
		Cu(%)	Pb(%)	Zn(%)	Au(g/t)	Ag(g/t)	Cu	Pb	Zn	Au	Ag
ORE FEED	100.00	1.60	4.80	12.60	0.94	84.4	100.0	100.0	100.0	100.0	100.0
COPPER CONCENTRATE	5.36	23.10	3.40	2.82	2.31	429.7	77.4	3.8	1.2	13.3	27.3
LEAD CONCENTRATE	7.31	0.35	50.90	8.28	2.63	457.2	1.6	77.5	4.8	20.4	39.6
ZINC CONCENTRATE	20.85	0.86	1.50	53.00	0.56	45.0	11.2	6.5	87.7	12.5	11.1
PLANT TAILINGS	66.48	0.24	0.88	1.19	0.75	27.8	9.8	12.2	6.3	53.8	22.0

- **Preliminary metallurgical work (1984) on drill core produced three floatation concentrates with recoveries of 88% Zinc, 78% Lead and 77% Copper**
- These are excellent recoveries in comparison to most volcanogenic massive sulphide deposits in the North American Appalachians
- Further metallurgical and base line studies will be completed for future economic studies

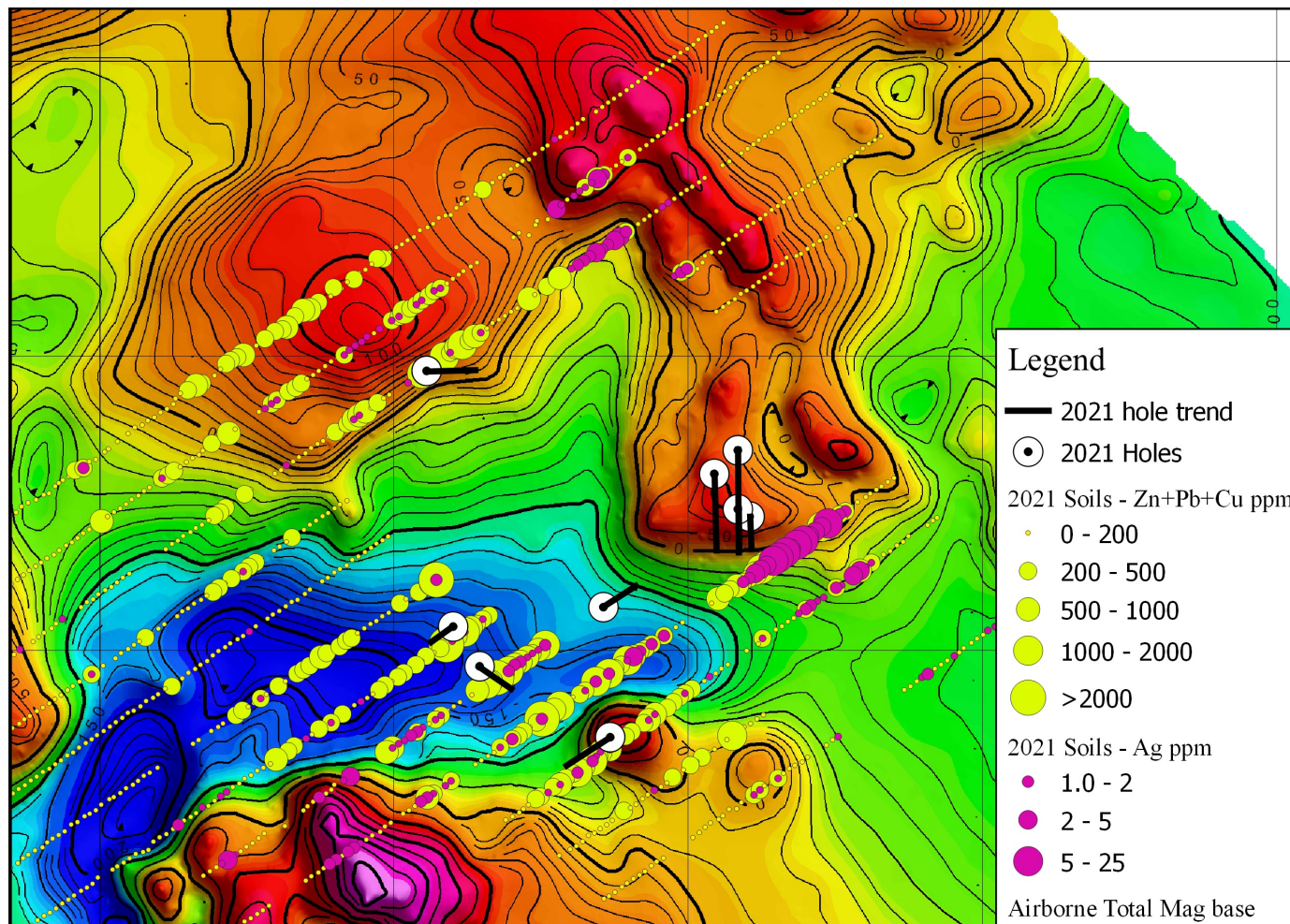






- Excellent correlation between Silver Mineralization, local magnetic highs and a large magnetic low
- Other potential similar targets in the area
- Airborne data is being re-processed to better define the cross-cutting geological features
- Underscores the rationale for additional ground acquisition
- Section lines A and B plotted





**Figure 3. Soil Sample Map 2021— Combined Zn + Pb + Cu ppm and Ag ppm (g/t) on airborne magnetic base**



# Big Silver Historic Drill Highlights



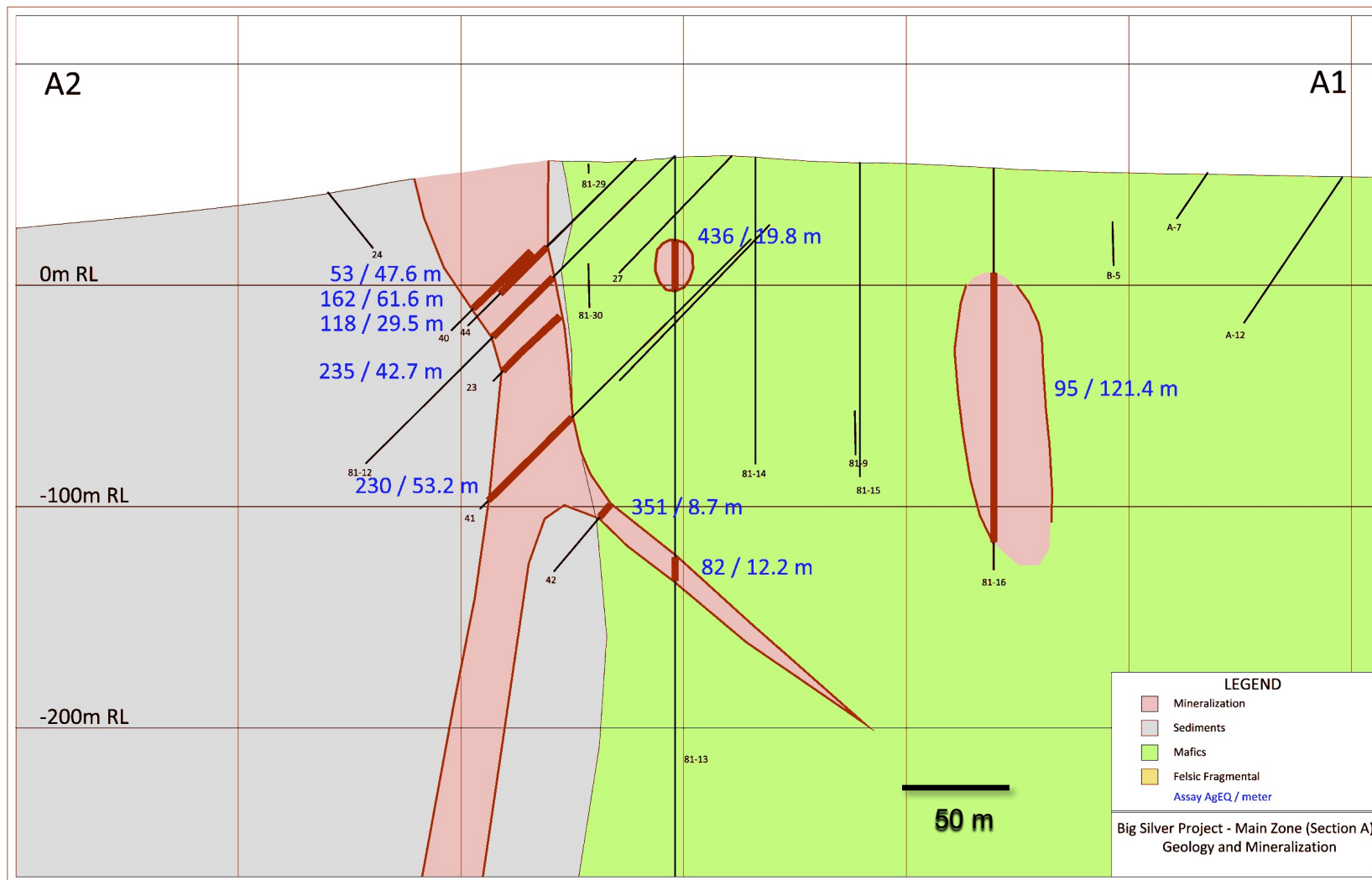
**WOLFDEN**

Hole ID	From (m)	To (m)	Length (m)	AgEq Oz/t	\$ Value/t	Zn %	Cu %	Pb %	Ag g/t	Zn+Cu+Pb
BH-27	106.7	137.6	30.9	11.77	\$ 212	2.48	0.15	1.07	139.27	3.71
80-1	37.5	86.0	48.5	7.65	\$ 138	2.11	0.03	0.58	116.36	2.71
83-11	10.7	64.3	53.6	6.24	\$ 112	0.96	0.00	0.25	140.76	1.21
BS-41	162.5	203.0	40.5	8.54	\$ 154	1.86	0.22	0.59	133.46	2.66
BS-21	159.2	207.3	48.1	6.88	\$ 124	1.55	0.20	0.31	107.95	2.07
A-8	208.0	301.7	93.6	3.75	\$ 68	1.80	0.00	0.79	4.27	2.59
BS-40	34.4	96.0	61.6	4.96	\$ 89	1.04	0.00	0.38	92.17	1.42
BS-23	93.9	137.6	43.7	7.01	\$ 126	2.07	0.18	0.76	70.64	3.01
81-13	38.6	55.4	16.8	15.60	\$ 281	3.56	0.00	1.14	279.06	4.70
BS-29	150.9	195.6	44.7	5.85	\$ 105	1.81	0.19	1.05	38.16	3.05
83-9	60.7	91.4	30.8	4.93	\$ 89	0.64	0.00	0.17	117.49	0.81
B-1	36.6	61.0	24.4	6.26	\$ 113	0.51	0.00	0.67	146.02	1.18
81-30	24.1	64.0	39.9	3.66	\$ 66	0.41	0.00	0.10	91.41	0.50
BS-34	189.6	243.8	54.3	3.12	\$ 56	1.26	0.13	0.53	4.88	1.92
BS-5	38.9	56.4	17.5	7.93	\$ 143	1.88	0.00	0.32	148.92	2.19
BS-28	119.5	160.6	41.1	3.68	\$ 66	1.33	0.12	0.40	24.46	1.85
BS-32	181.4	207.9	26.5	5.66	\$ 102	2.15	0.13	0.85	30.54	3.13
81-12	77.7	122.0	44.3	3.13	\$ 56	1.35	0.00	0.33	22.71	1.69
A-4	142.8	158.5	15.7	8.72	\$ 157	4.30	0.00	1.42	20.50	5.72
81-16	140.2	160.3	20.1	6.39	\$ 115	3.08	0.08	0.68	23.15	3.84
BS-24	97.1	124.4	27.2	4.43	\$ 80	1.65	0.14	0.57	24.69	2.36
BS-3	69.6	91.0	21.4	5.68	\$ 102	2.99	0.00	0.74	11.87	3.73
BS-34	246.9	288.0	41.1	2.70	\$ 49	1.07	0.14	0.42	3.53	1.62

# Big Silver Project – Historical Drill Section



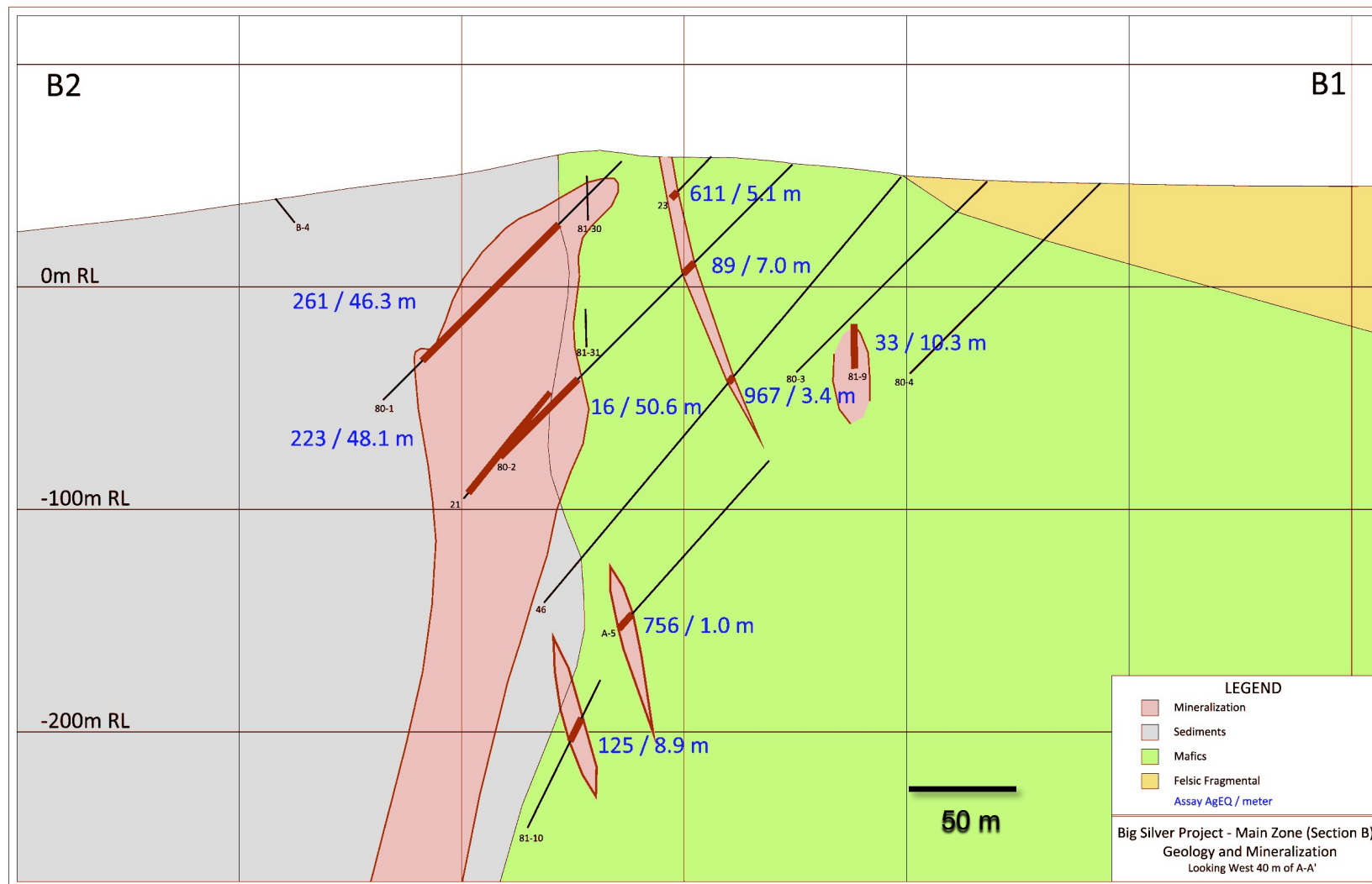
**WOLFDEN**

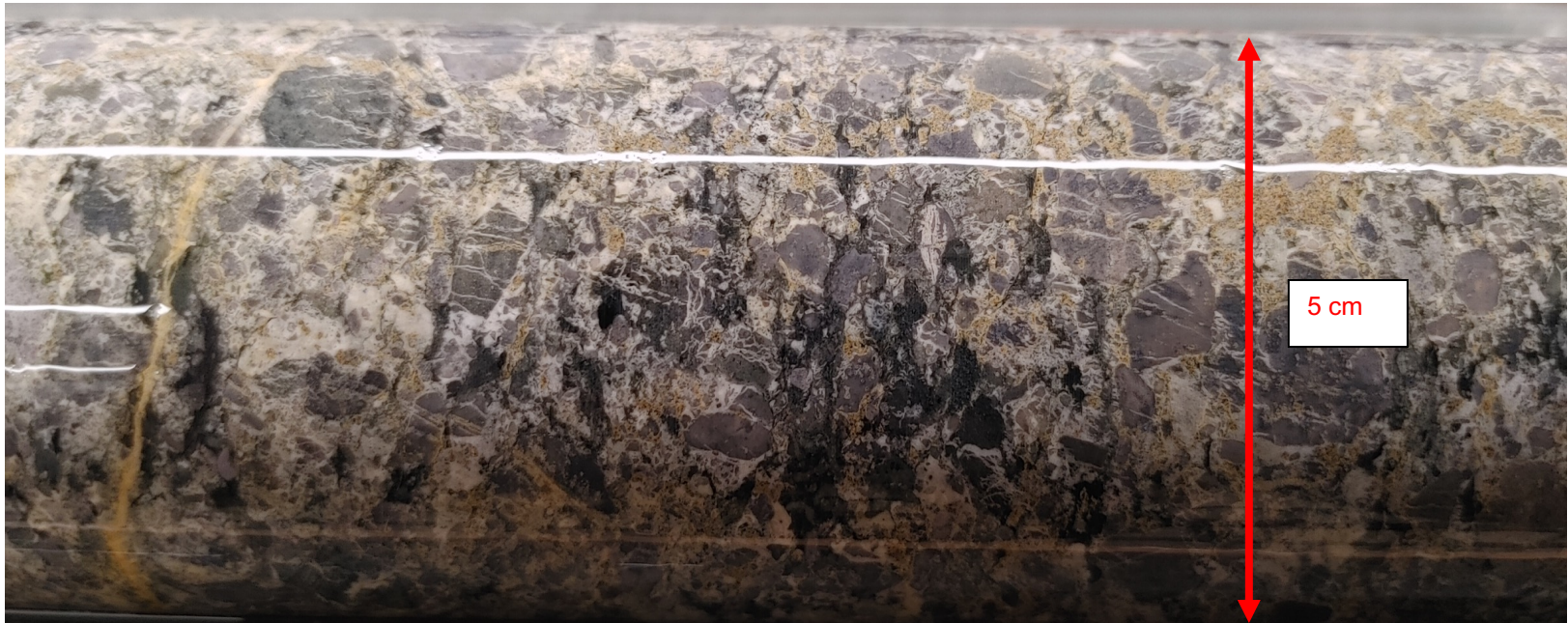


# Big Silver Project – Historical Drill Section



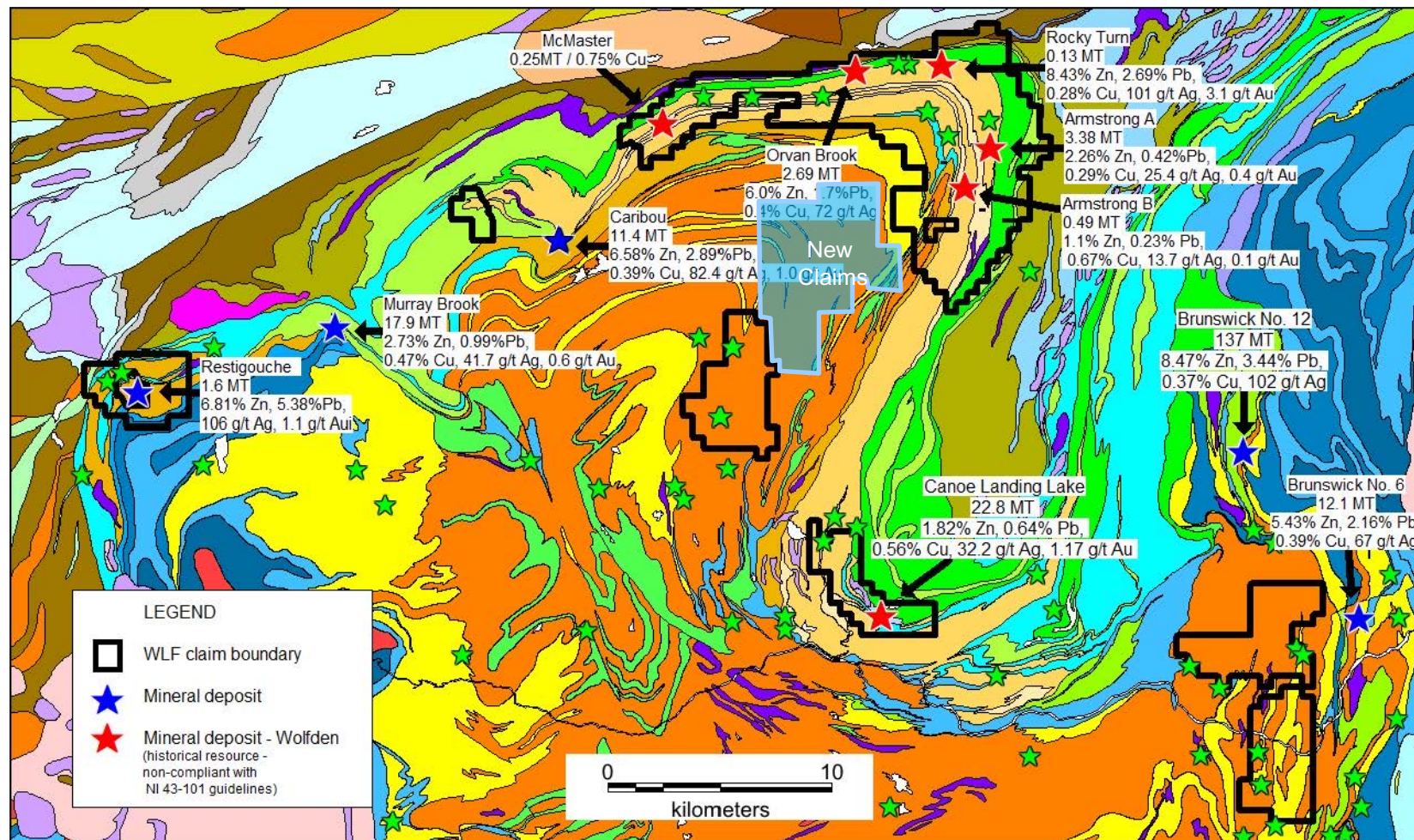
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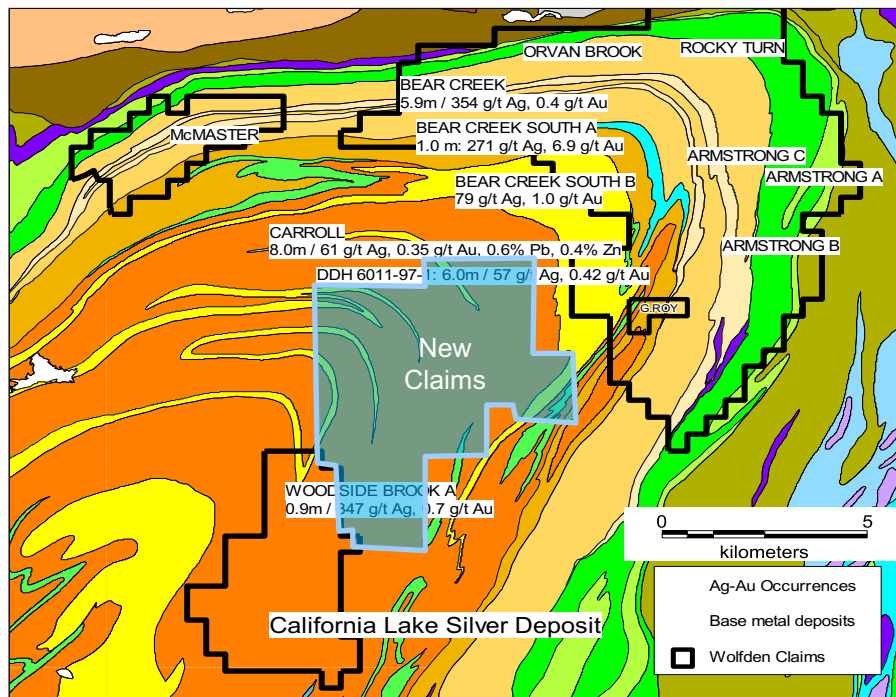


**Figure 1. Big Silver Core photo – sedimentary breccia with silicified clasts and 10-15% light brown sphalerite (zinc mineralization)**





- Wolfden has a dominant land position in the prolific VMS Bathurst Camp
- 100% interest in 6 historic massive sulphide deposits



## California Lake

3.5 m at 579 g/t Ag, 1.13 g/t Au  
3.0 m at 442 g/t Ag, 0.72 g/t Au  
4.7 m at 459 g/t Ag, 0.45 g/t Au  
1 km strike that is open along strike and depth  
Au and BM assays incomplete

## Woodside Brook

Single hole 0.9 m at 347 g/t Ag, 0.70 g/t Au  
Large silver-arsenic soil anomaly associated with the prospect

## Carroll

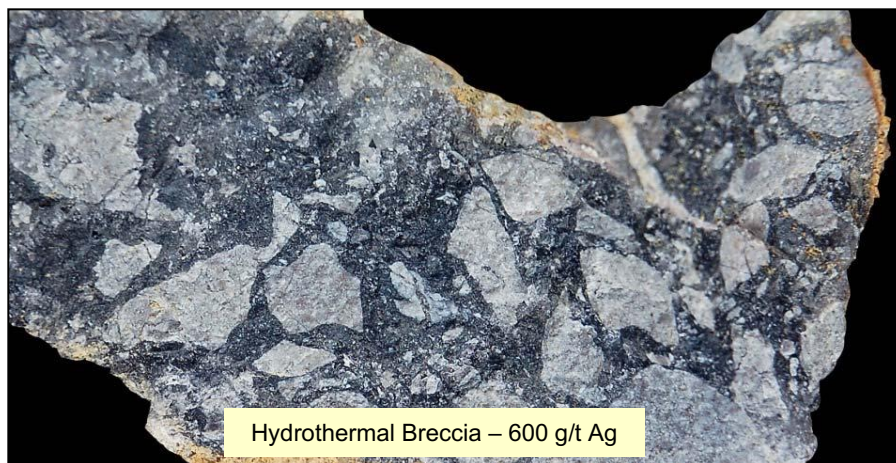
8 m at 61 g/t Ag, 0.34 g/t Au

## Bear Creek

5.9 m at 353 g/t Ag, 0.34 g/t Au  
7.7 m at 175 g/t Ag, 0.66 g/t Au  
9.7 m at 146 g/t Ag, 1.52 g/t Au

## Upsalquitch

6 m at 156 g/t Ag, 731 g/t Sb



True widths are ~80% of lengths shown

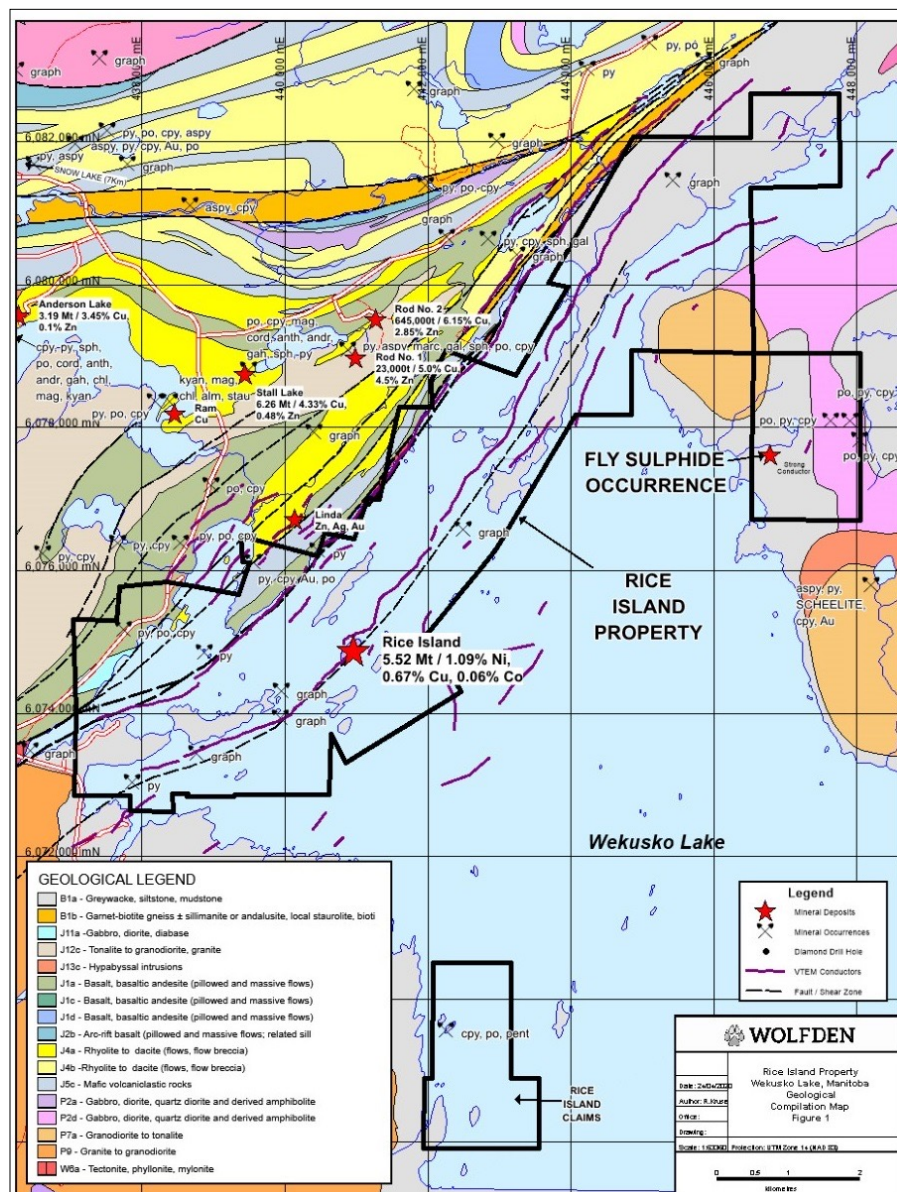




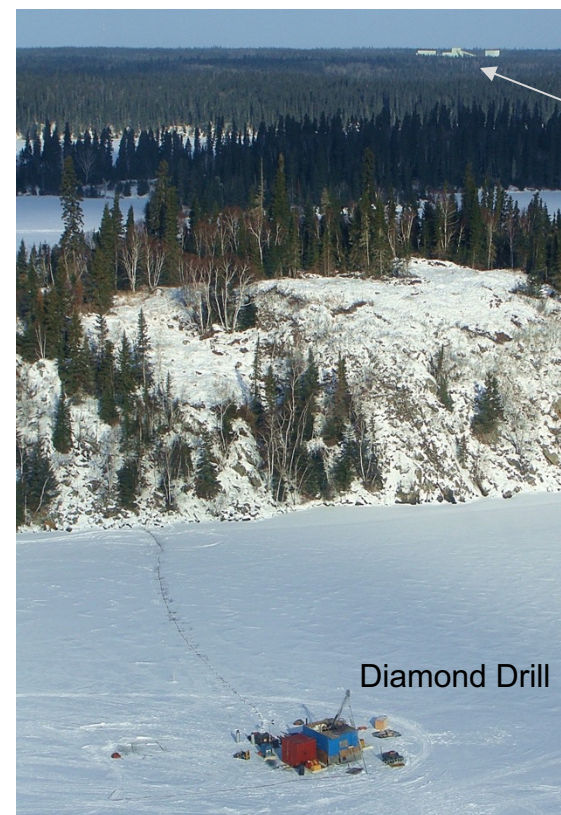
**Figure 2. California Lake Zone core photo – multi-stage cross-cutting hydrothermal breccia. Darker areas contain fine grained sulphides including sphalerite, galena, tetrahedrite and arsenopyrite. Fractures, outside of breccia are also sulphide-bearing.**



# Rice Island Property – High Grade Nickel



- 38 km<sup>2</sup> property near town of Snow Lake
- Ni-Cu-Co deposit associated with a NE-trending magnetic high and coincident conductor (Eastern Magnetic Trend)
- Priority Drill Targets along trends with similar signature to the Rice Island deposit



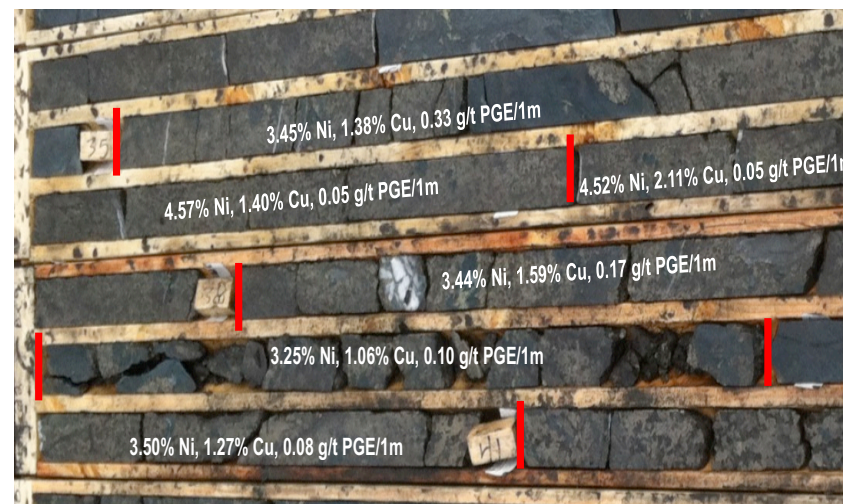
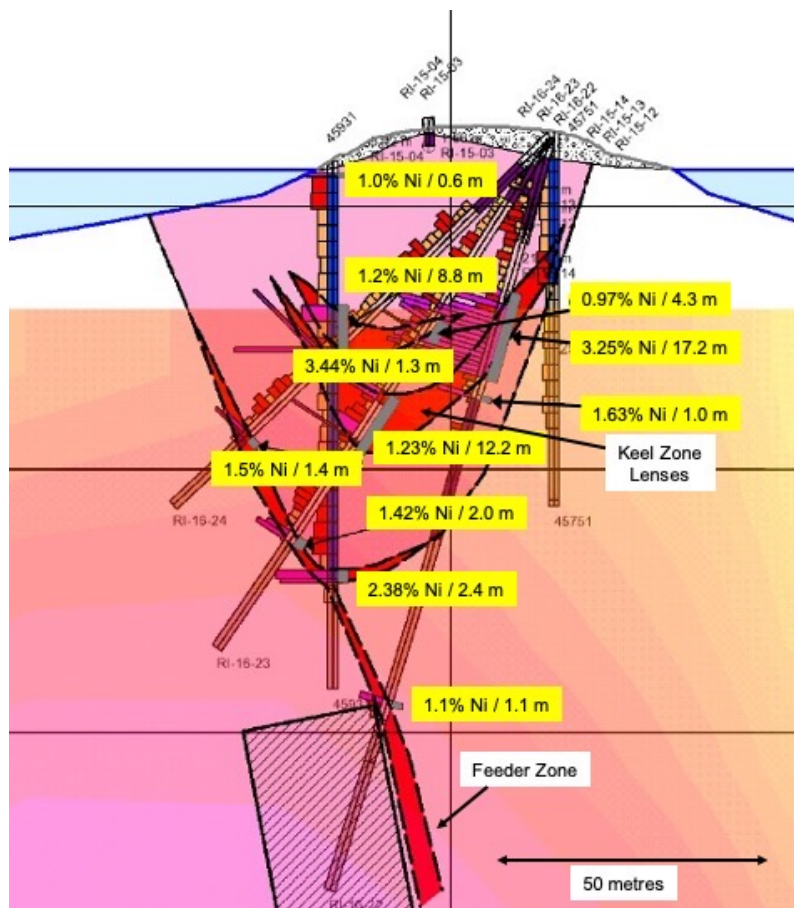
Stall Lake Complex 4km

Rice Island

Diamond Drill

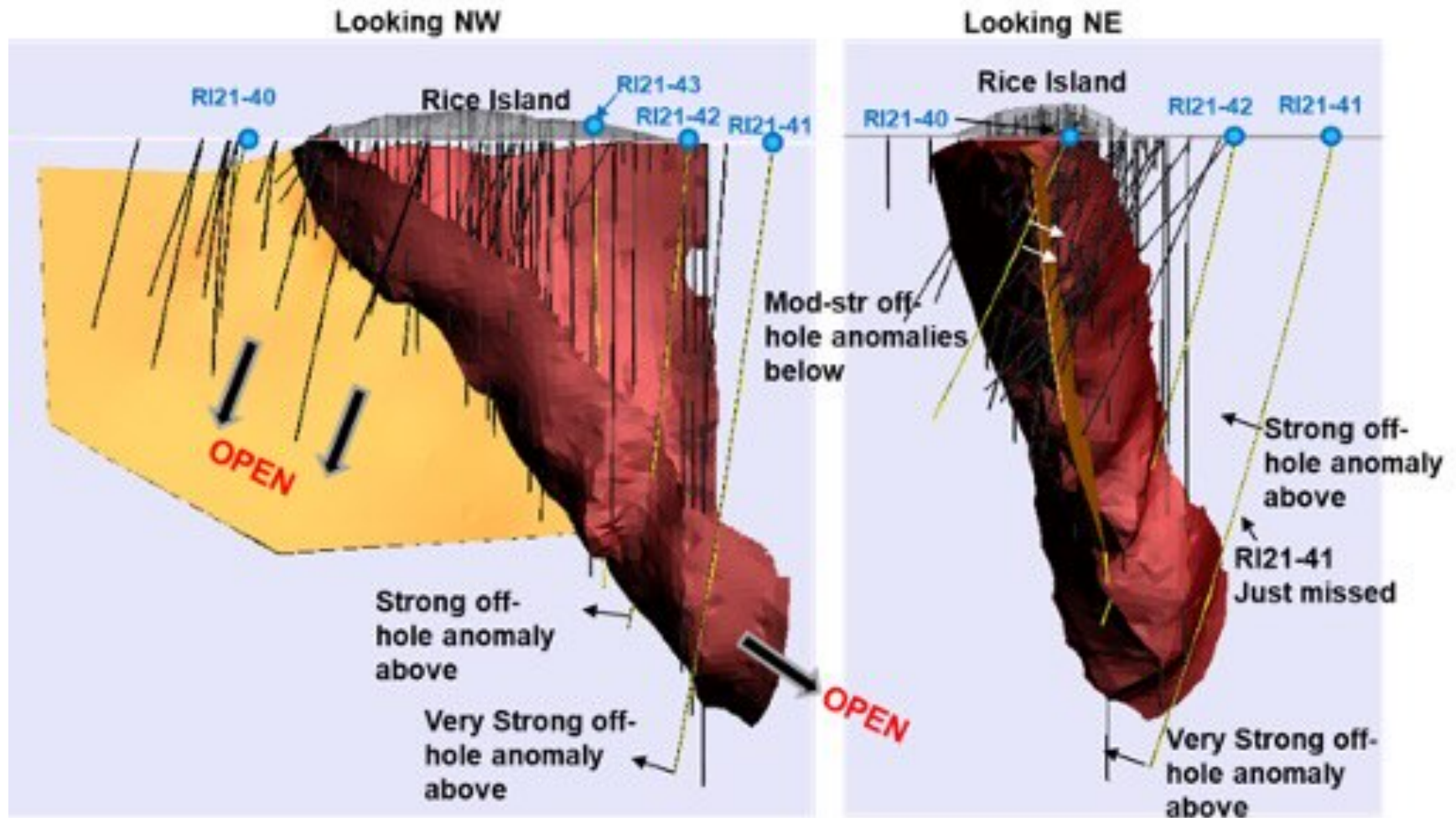


# Rice Island Deposit Cross Section

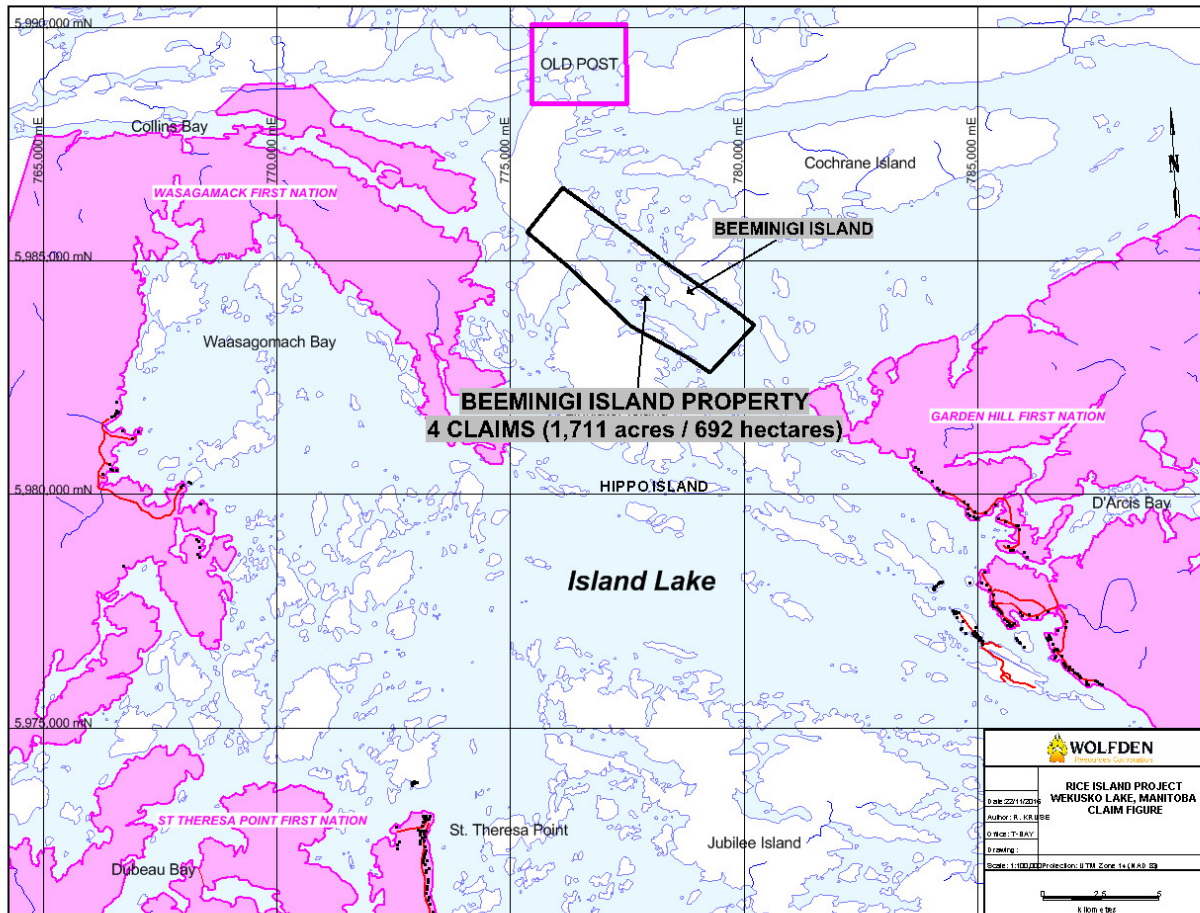


Portion of Hole 16-22  
**14.7 m at 3.63% Ni, 1.13% Cu, 0.12% Co**

- **Keel Zone Open at Depth +480 metres**
- **Several Very Strong Conductors** outside known limits of SW-Trend are untested
- Historic Non Compliant Inferred Resource:  
**5.5 Mt at 1.1% Ni, 0.7% Cu, 0.06% Co**  
 (or **5.5 Mt at 3.3% CuEq or 1.52% NiEq**)



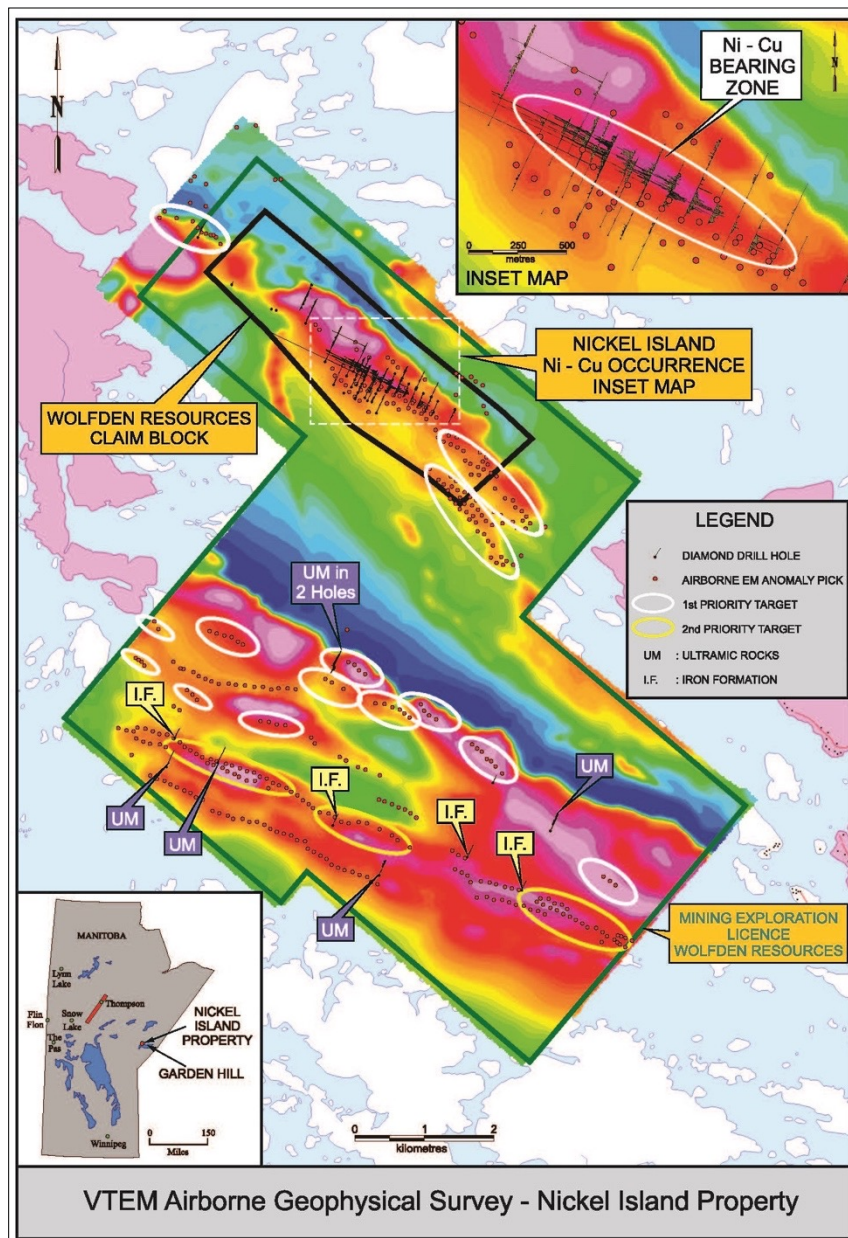
RI21-43: 9 m of 1.20% NiEq; RI21-42: 14 m of 0.80% NiEq; RI21-40: 2m of 1.30% NiEq.



- Initially, exploration will focus on the Beeminigi Island claims, currently held by Wolfden
- This area is located 5 kilometres south of the Old Post (no work to occur in the Old Post area)
- The Partnership will assess other opportunities in due course



# Nickel Island Property – High Grade Nickel



## District-Scale High Grade Nickel Opportunity

- Two large prospective target areas for nickel sulphides defined by airborne geophysics (VTEM)

### North Target Area

- Two (1 km) priority drill targets to SE of the Nickel Island occurrence with similar geophysical signatures
- Historic INCO drill intercepts not followed-up:

**4.6 m at 4.3% Ni**  
**2.9 m at 3.1% Ni**  
**7.6 m at 1.9% Ni**  
**21.3 m at 1.2% Ni**

**7.5Mt at 1% Ni (Historic non-compliant inferred)**

### South Target Area

- 10 km magnetic feature with conductors

**Joint Venture Agreement with Island Lake Tribunal Progressing after MOU signed in 2019**

**Potential Drill Campaign/Demo planned for 2021**

# Contact Details



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**Jeremy Ouellette, P.Eng**

VP Project Development

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**Rahim Kassim-Lakha**

Corp Development

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Website: [www.wolfdenresources.com](http://www.wolfdenresources.com)



Pickett Mt West Lens



Diamond Drill site



Pickett Mountain Forest Road