



# CRITICAL METALS FOR A SUSTAINABLE FUTURE

TSXV: **BRO**  
FRA: **2NZ**  
OTCQB: **BRKCF**

INVESTOR PRESENTATION  
Sept. 2025  
Q2 FY 2026



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Historical assays contained in this Presentation have not been confirmed by Barksdale Resources, are of uncertain QA/QC standards and should not be relied upon. They are presented as a guide to future exploration.

# BARKSDALE RESOURCES: OVERVIEW

## PATAGONIA DISTRICT

### Enormous Upside Potential

Barksdale and South32 separately control nearly the entire Patagonia mining district. Sunnyside targets include extension of the Taylor and Peake CRD ore bodies, porphyry related copper, silver, zinc and manganese deposit and near surface copper manto's.

## JURISDICTION

Two key jurisdictions, friendly to mining-Mexico and the U.S.

With proximity to South 32's Assets as well as a favourable location in Arizona USA—Frasier Institute's #5 jurisdiction-- for the Company's flagship Sunnyside as well as mining-friendly Mexico.

## CRITICAL METALS

Copper and other key minerals.

Critical metals are essential raw materials used in high-tech, clean energy, and defense applications, including electric vehicles, wind turbines, and semiconductors. Their limited supply and geopolitical concentration make them strategically important for national security and economic competitiveness.

### Sunnyside Project

Barksdale is majority owner in the Sunnyside 51%-49% JV with Regal with plans to move to a 67.5%-32.5% ownership position.

Historical drill intercepts on the Sunnyside property\*:

- CRD: 17-meters of 17% Zn+Pb, 337 g/t Ag, 1.3% Cu
- CRD: 38-meters of 15% Zn+Pb, 229 g/t Ag, 0.2% Cu
- Porphyry: 415-meters of 0.36% Cu

### San Javier Project

Advanced copper deposit in Sonora, Mexico.

The property consists of twelve separate mineral concessions totaling approximately **1,184 hectares**. Drilled by Barksdale in 2021, the Company issued a NI 43-101 compliant PEA Report in 2024 that states a **M&I Resource of 70.1 Mt containing 419 million pounds of copper within a \$4.00/lb. Cu pit shell.\*\***

NOTES: Drilling at Sunnyside was completed prior to the implementation of NI 43-101 and has not been verified by a "qualified person" and therefore should not be relied upon. Intercepts are presented to provide an indication of the possible mineralization within the Sunnyside Property and as a guide to future exploration. \*\* See appendix for summary information or the Company's 2024 NI 43-101 technical report on SEDAR for detailed information.

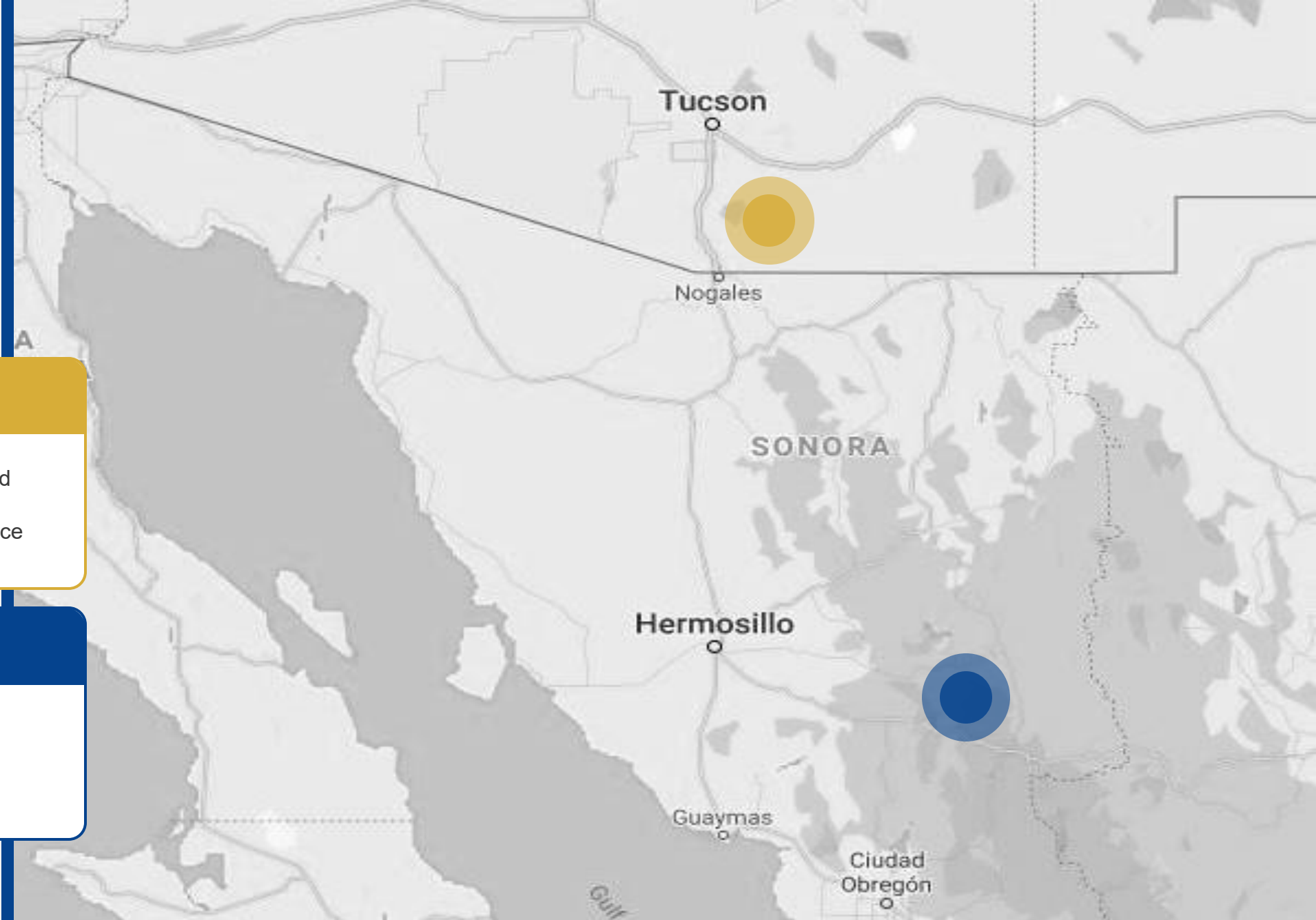
# FOCUSED ON EXPLORATION IN TWO DISTINCTIVE DISTRICTS

## Patagonia District, Arizona

- USFS PoO and FONSI Approved
- Near Term Discovery Potential
- Neighbor to World Class Resource

## San Javier District, Mexico

- Copper Oxide Resource
- Strong Leach Recoveries
- Robust PEA Economics



# SOUTH32's HERMOSA (Our SUNNYSIDE Neighbor)

## ~US\$4 Billion

Acquisition and  
Construction Approval

- Acquired for \$1.7B in 2018
- **H2 2027 Initial Production**
- 2030 Steady State Production

## 28 Year

Mine Life

- 65Mt reserve grading 4.35% Zinc, 4.9% Lead and 82 g/t Silver
- Covers first 19 years of mine life
- 153 million tonnes resource grading 3.53% Zinc, 3.83% Lead and 77 g/t Silver

## 4.3Mtpa

Annual Milling Capacity

- Production: 114kt zinc; 142kt lead; 7.4moz silver annually

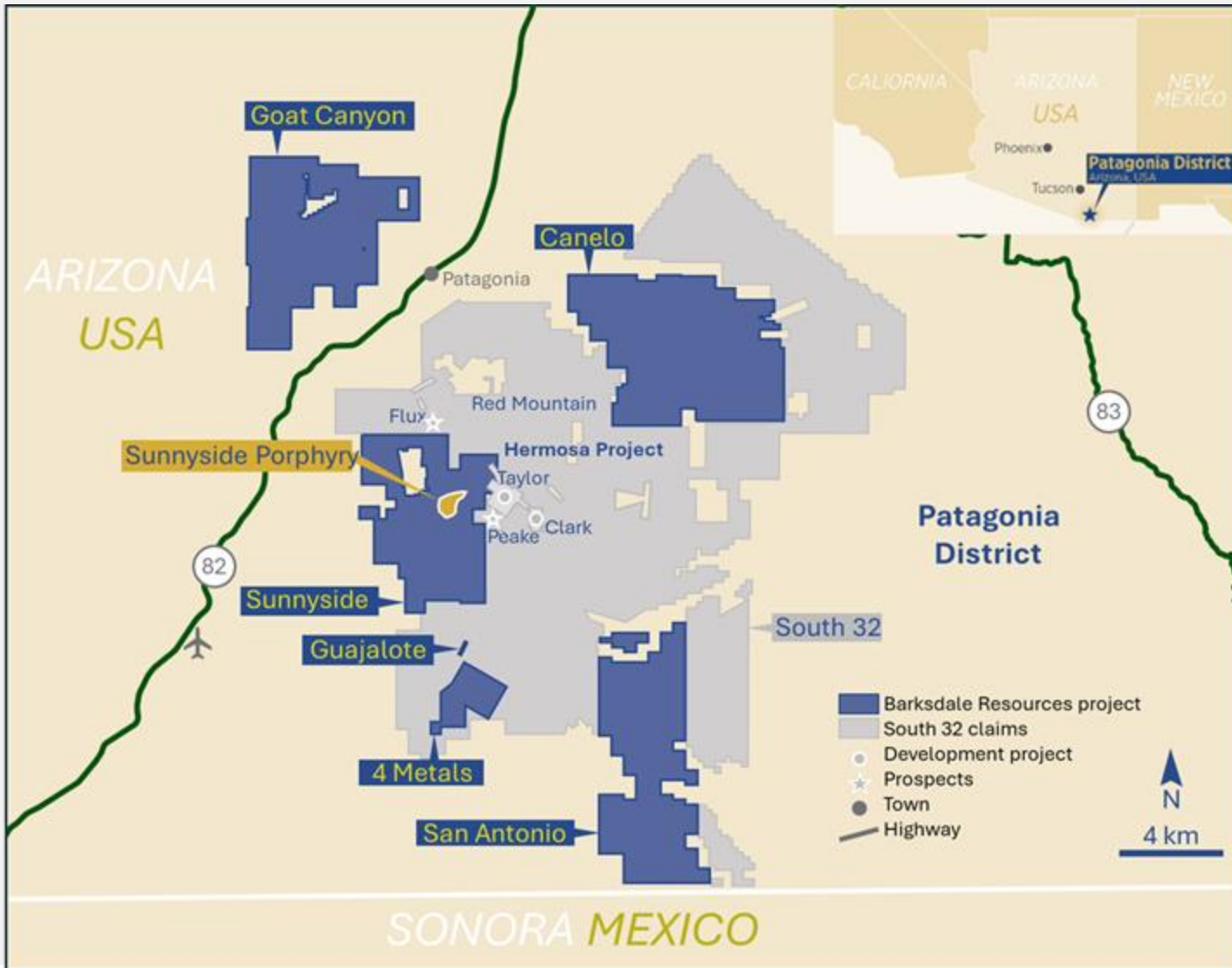
## US\$0.16/lb

All-In Sustaining Costs  
for Zinc (After Credits)

- First quartile cash costs



# BARKSDALE AZ HOLDINGS



## SUNNYSIDE – 51%, plans to go to 67.5%

- DOWNDIP extensions of South 32's Taylor and Peake deposits, *but that's not all....*
- Near surface chalcocite deposits
- Porphyry style Cu and Au
- 286 unpatented claims, 5,223.1 acres
- Earn-in up to 67.5%

## CANELO and GOAT CANYON - 100%

- Former Kennecott/Rio Tinto property
- Early-stage Cu porphyry and CRD/Skarn projects
- 433 federal mining claims/8,700 acres
- 314 federal mining claims/6,400 acres

## SAN ANTONIO - 100%

- Southern ext. of Harshaw Creek fault system
- Copper Porphyry style system
- Teck retains a 1.5% NSR and FROR
- 315 unpatented claims, 6,300 acres

## FOUR METALS – 100%

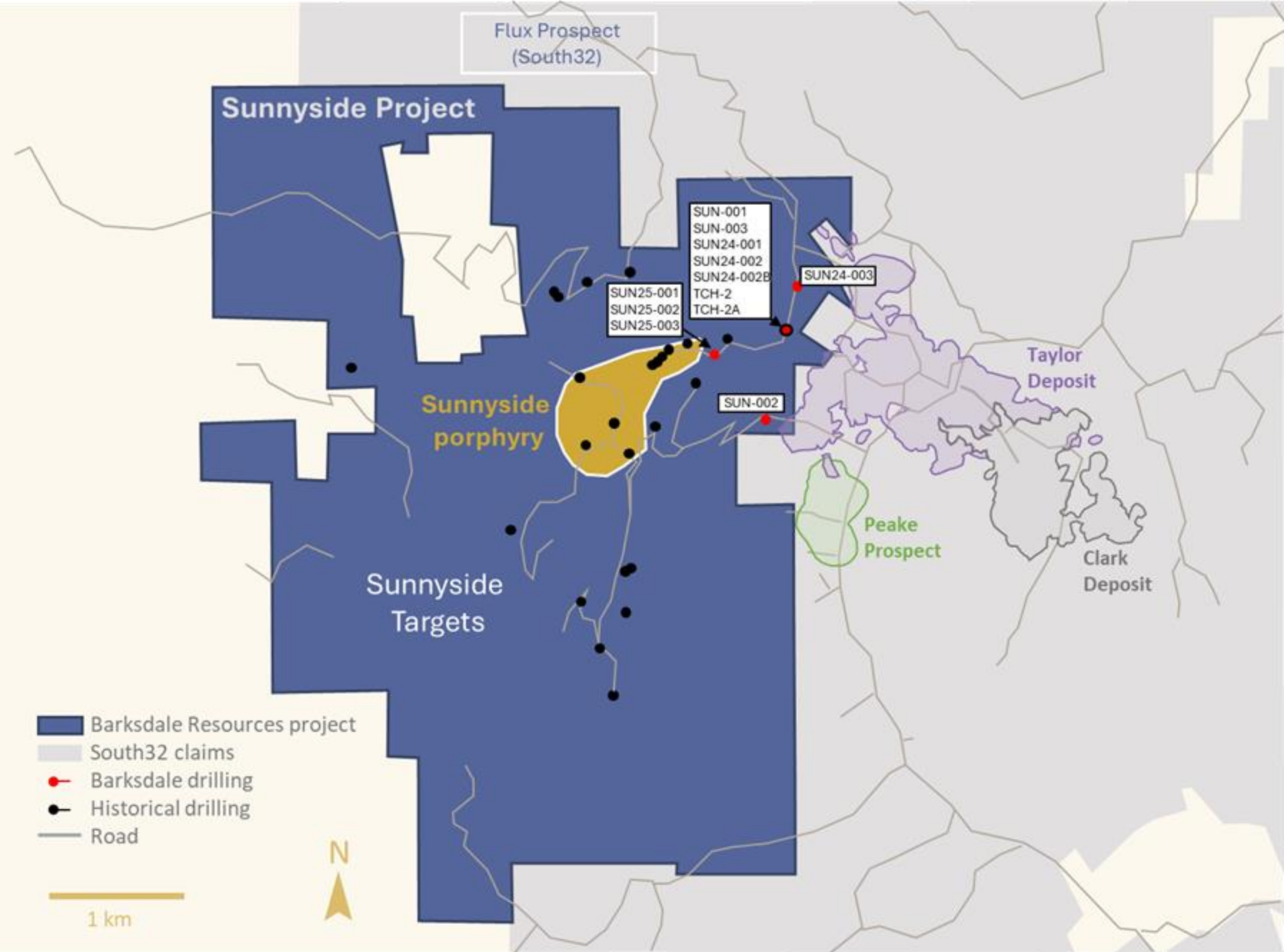
- Breccia pipes and buried porphyry-style mineralization
- 40 unpatented claims, 760 acres

## GUAJOLOTE – 100%

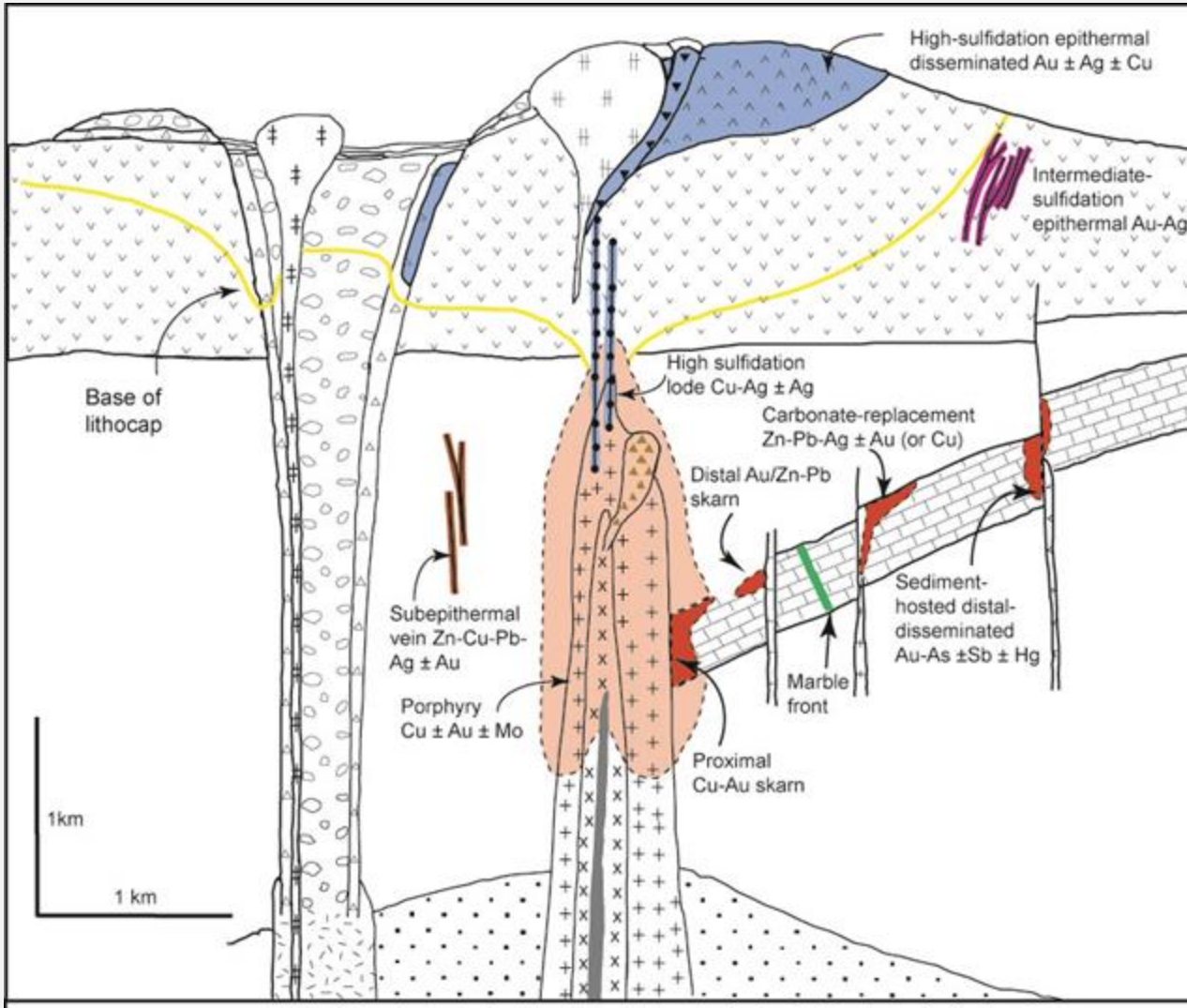
- Patented mining claim

# ONE SYSTEM, TWO PROPERTIES

- The SUNNYSIDE PROJECT borders South32's Hermosa project on the North, South and East claim boundaries
- The HEAT ENGINE responsible for mineralization at Sunnyside and Hermosa is located on the SUNNYSIDE PROJECT
- BRO exploration confirmed the *extension of the Taylor Deposit onto the Sunnyside Project* in DH SUN24-002B
- BRO Fall 2025 drill program focuses on Cu, Zn and Ag targets, including near surface Chalcocite zones, shallow vein and breccia extensions and the Upper Porphyry intrusive.



# PORPHYRY DEPOSIT MODEL



## SUNNYSIDE ASSOCIATED MINERAL DEPOSITS

- **Porphyry** Cu +/- Au, Mo
- **Proximal Skarn** Cu-Au
- **Distal Skarn** Au/Zn-Pb
- **CRD** Zn-Pb-Ag +/- Au/Cu
- Sed-Hosted Distal**
- **Disseminated** Au-Ag +/- Sb +/- Hg
- **Chalcocite** Cu

# ONE SYSTEM, MULTIPLE DISCOVERIES

## SUNNYSIDE TARGETS

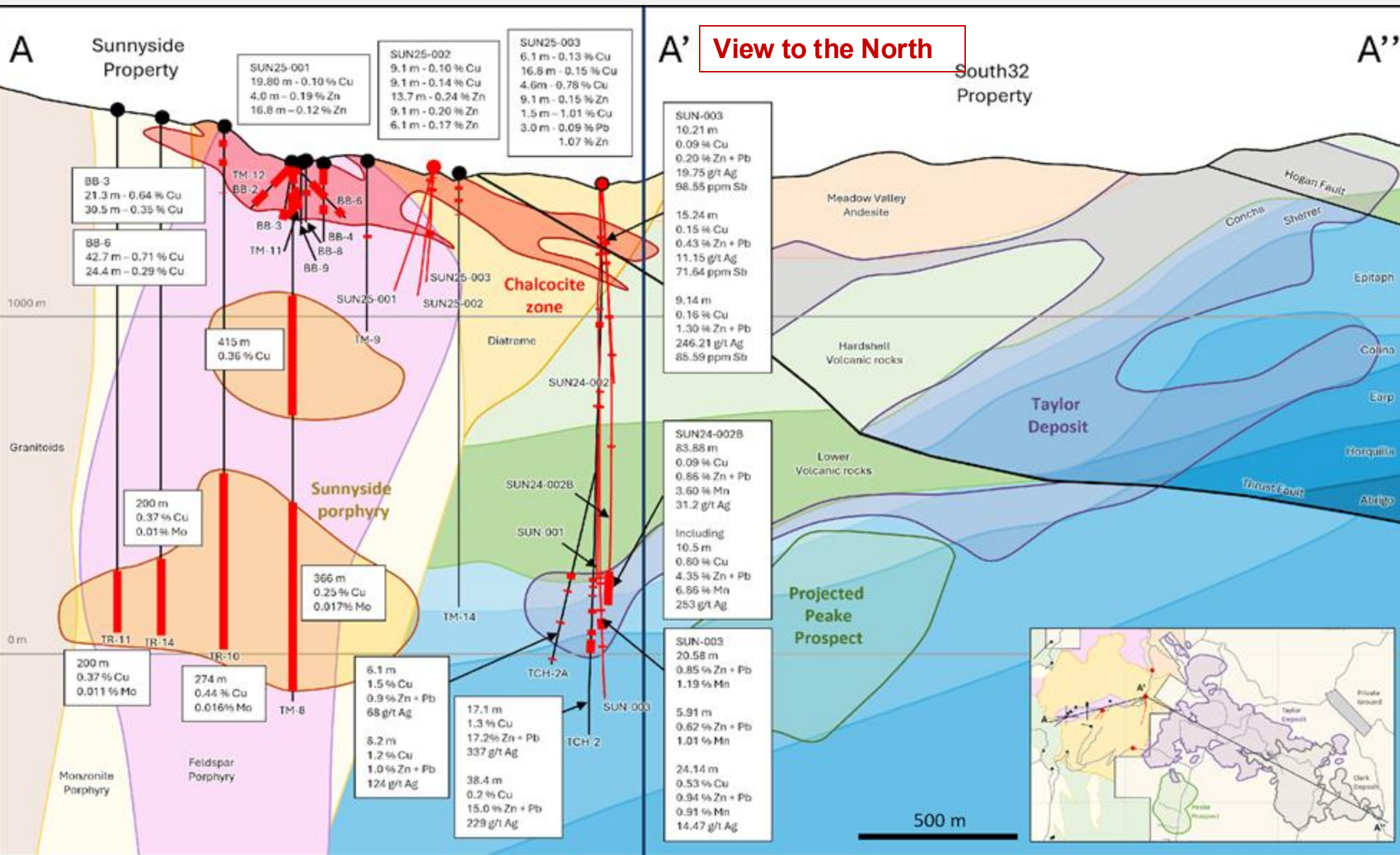
CHALCOCITE MANTO

UPPER PORPHYRY

SUNNYSIDE PORPHYRY

PEAKE EXTENSION

TAYLOR EXTENSION



Note: Initial drilling at Sunnyside prior to Barksdale Resources was completed before the implementation of NI 43-101 standards and has not been verified by a "qualified person" and therefore should not be relied upon. Intercepts are presented to provide an indication of the possible mineralization within the Sunnyside property.

# BARKSDALE DRILL PROGRAM RESULTS

## SUN-003

- 10.21m Cu, Zn+Pb, Ag and 98.55 ppm Sb
- 15.24m Cu, Zn+Pb, Ag and 71.64 ppm Sb
- 9.14 m 0.16% Cu, 1.30% Zn+Pb, 246 g/t Ag and 85.59 Sb.

## SUN-003

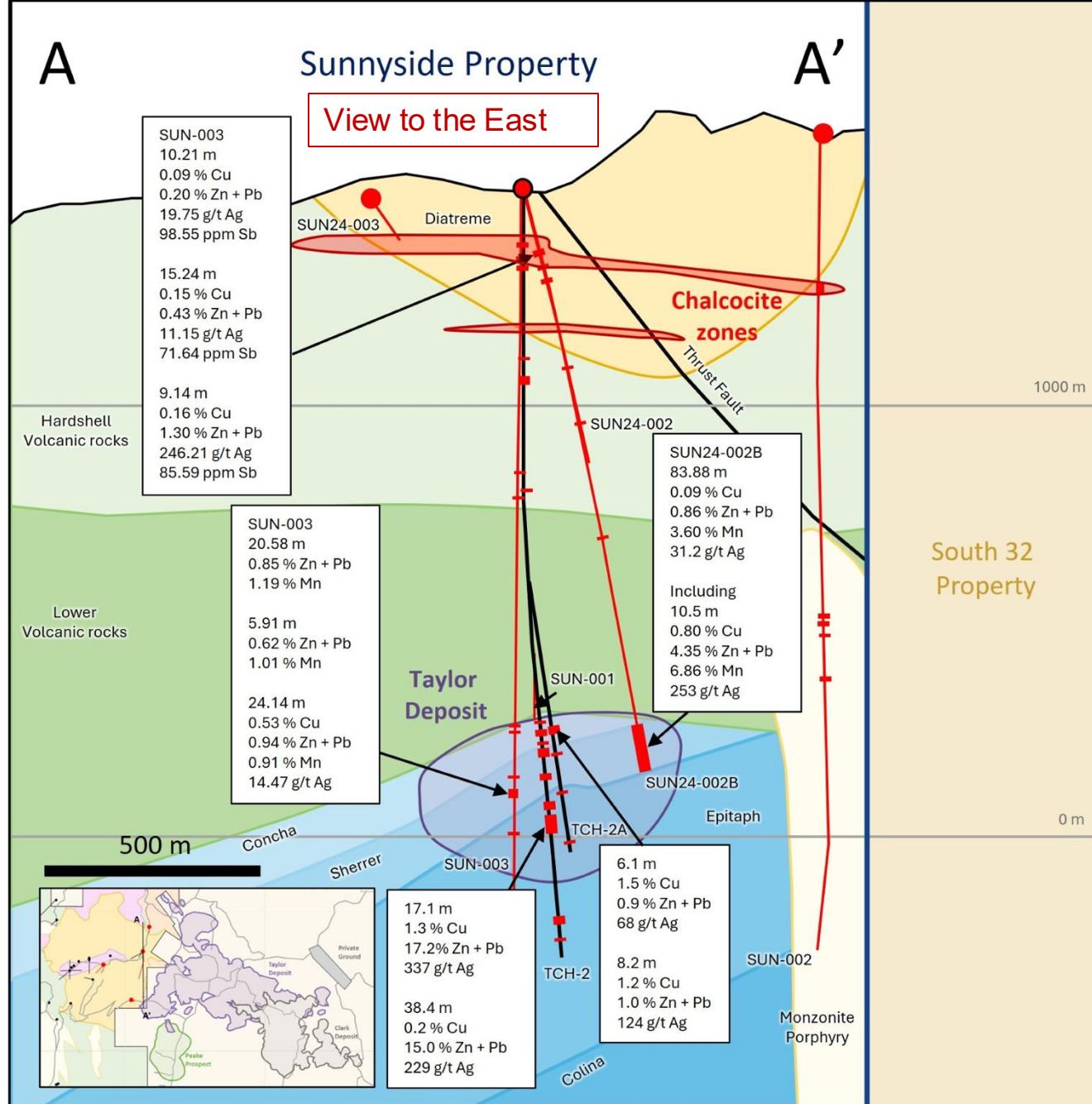
- 20.58m 0.85% Zn+Pb, 1.19% Mn
- 24.14m 0.53% Cu, 0.94% Zn+Pb, 0.91% Mn

## SUN24-002B

- 83.88m 0.09% Cu, 0.86% Zn+Pb, 3.60% Mn 31.2 g/t Ag

## including

- 10.5m 0.80% Cu, 4.35% Zn+Pb, 6.86% Mn and 253 g/t Ag



**ONE  
SYSTEM,  
MULTIPLE  
DISCOVERIES**

**SUNNYSIDE TARGETS**

CHALCOCITE MANTO

UPPER PORPHYRY

SUNNYSIDE PORPHYRY

PEAKE EXTENSION

TAYLOR EXTENSION

# SECOND HALF 2025 STRATEGY



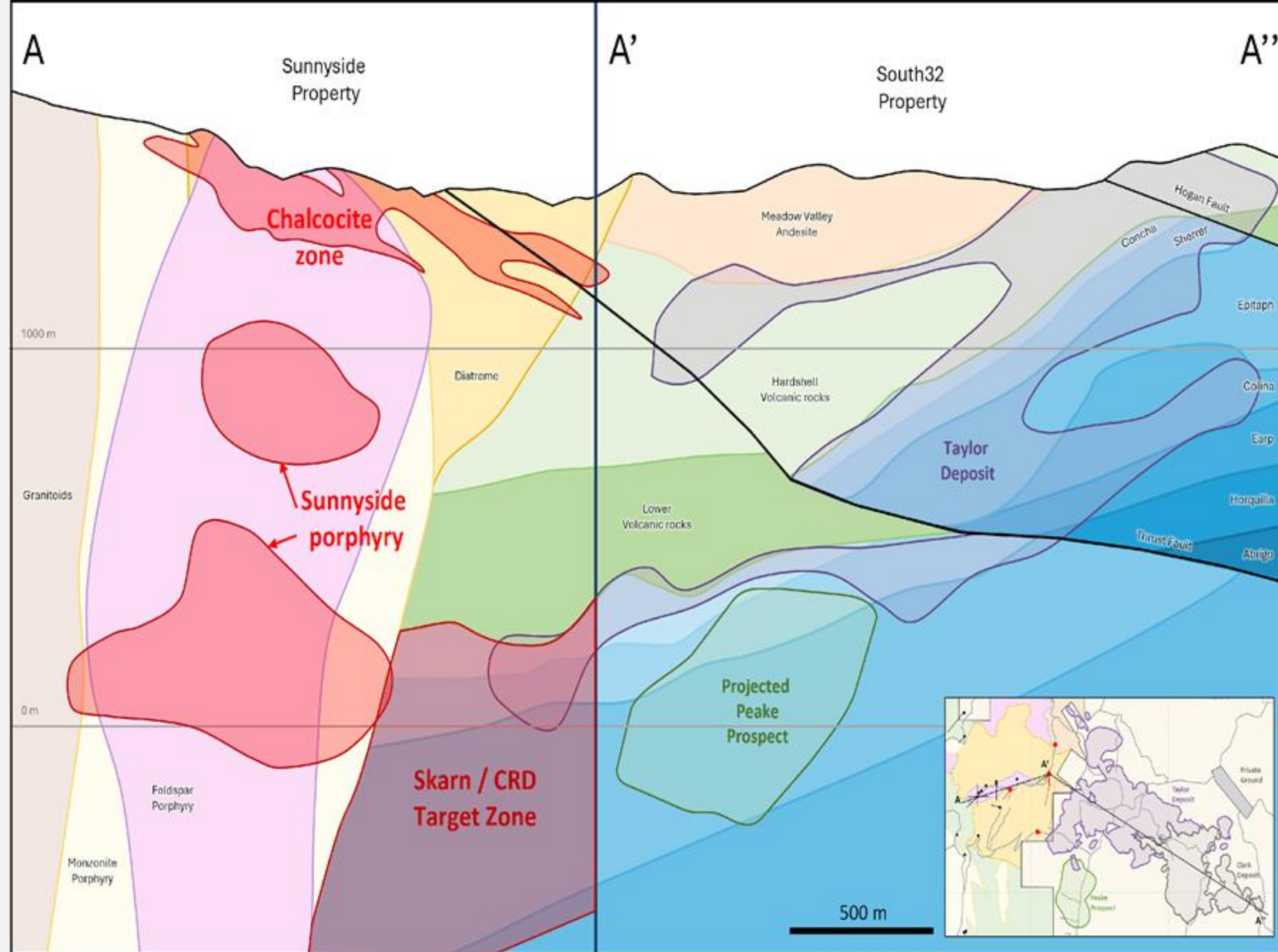
**1. Complete all stipulations in the Phase II earn-in agreement with Regal resulting in a 67.5% ownership of the Arizona Standard – Sunnyside Project.**

**2. Target & Test near surface chalcocite occurrence for infill and exploration drilling.**

**3. Evaluate Chalcocite Target results for Resource classification.**

**4. Target & Test NSAMT, structural and upper porphyry occurrences.**

**5. Evaluating deep level targets at Taylor and Peake to be drill tested in 2026.**



## FALL 2025 TARGETS (proposed)

**Chalcocite Zone**

- Cu and Ag

**Upper SS Porphyry**

- Cu, Zn and Pb

## SPRING 2026 TBD

**Lower SS Porphyry**

- Cu, Zn and Pb

**CRD and Skarn Deposits**

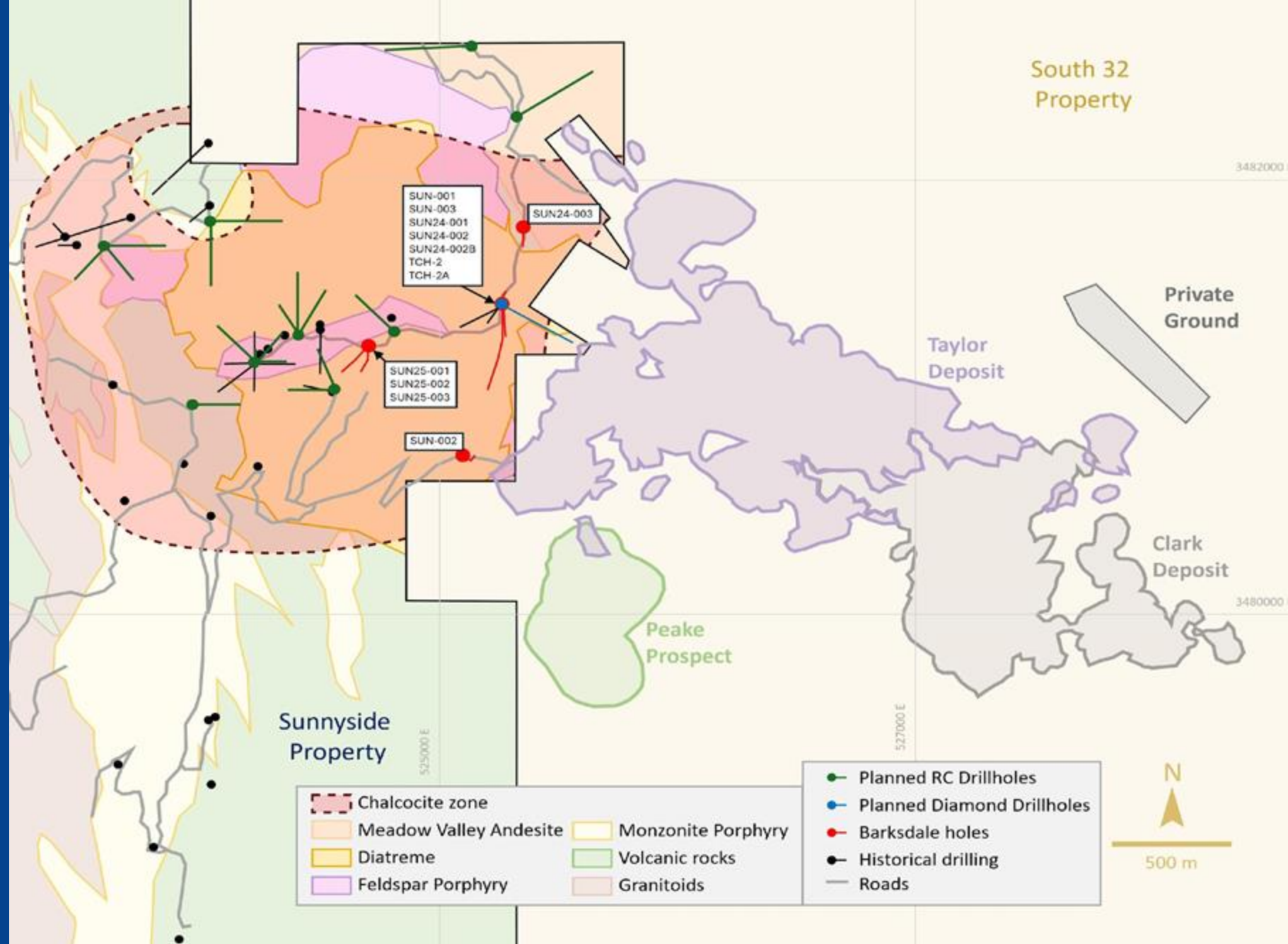
- Zn, Pb and Mn
- Extensions of Taylor and Peake

# FALL 2025 TARGETS (proposed)

## Chalcocite Targets

Aerial view of the extensive surface and near surface presence (dashed outline) of Chalcocite (Cu<sub>2</sub>S) recognized by ASARCO, Kerr McGee and others in historical exploration programs.

BRO plans a series of holes to confirm, extend and infill the central and other occurrences.



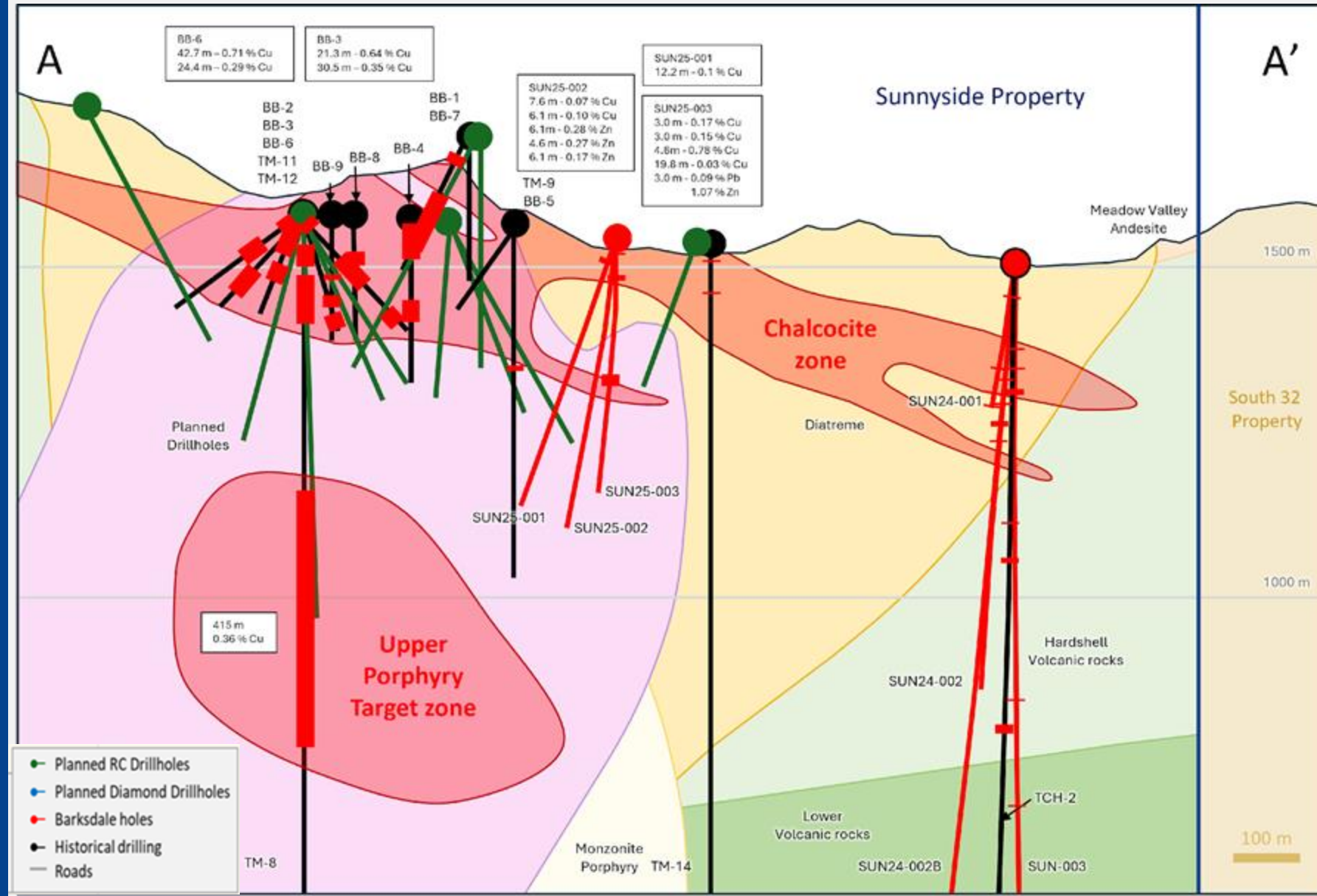
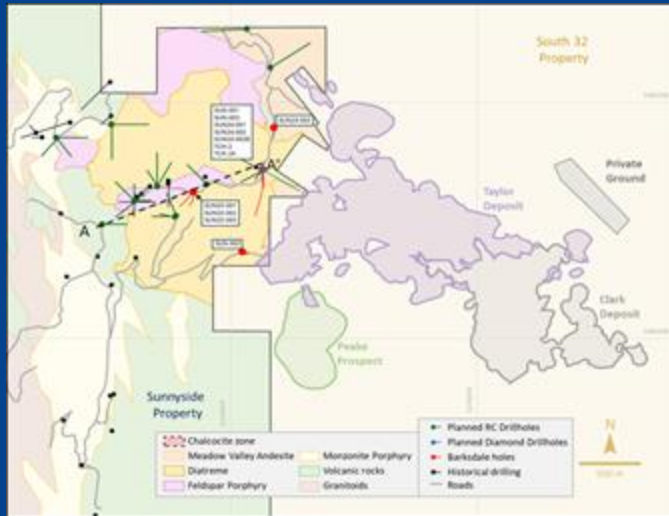
# FALL 2025 TARGETS (proposed)

## Chalcocite Target Infill

- Follow up 1990 ASARCO recommendations to infill.

## Upper Porphyry Target

- Offset and twin TM-8 to begin definition of the upper porphyry system for Cu and Zn as hit in SUN25-002 and 003.



# SAN JAVIER RESOURCE

	Tonnes X1000	Tcu %	As+Cn Cu %	AsCu %	CnCu %
Measured	12,485	0.278%	0.203%	0.172%	0.032%
Indicated	57,664	0.270%	0.184%	0.148%	0.037%
<b>Total M&amp;I</b>	<b>70,149</b>	<b>0.271%</b>	<b>0.187%</b>	<b>0.152%</b>	<b>0.036%</b>
<b>Inferred</b>	<b>5.965</b>	<b>0.240%</b>	<b>0.152%</b>	<b>0.114%</b>	<b>0.038%</b>

	Total Contained Cu Lbs x 1000	Soluble Contained Cu Lbs x1000
Measured	76,573	55,938
Indicated	342,669	233,504
<b>Total M&amp;I</b>	<b>419,242</b>	<b>289,442</b>
<b>Inferred</b>	<b>31,563</b>	<b>19,923</b>

**NI 43-101 Report** can be found on [www.SEDAR.com](http://www.SEDAR.com) or at [www.BarksdaleResources.com](http://www.BarksdaleResources.com)

## MINERAL RESOURCE NOTES

- Tcu = total copper grade; AsCu = acid soluble copper; CnCu = cyanide soluble copper
- AsCu + CnCu cutoffs vary by oxidation type: leach cap & oxide = 0.04%, mixed = 0.07%, sulfide = 0.08%
- Contained pounds = ktonnes x Tcu x 22.04; Soluble pounds = ktonnes x AsCu + CnCu x 22.04
- Mineral Resource tonnage and grades are restricted to the Cerro Verde Deposit
- Total pit shell tonnage = 95,175 ktonnes; ratio of ktonnes below cutoff to above cutoff = 0.25
- Grade capping was applied to reduce the influence of outlier samples; 2.5% Cu was used for the oxide and mixed zones and 1.5% Cu was used for the sulfide zones
- The economic parameters used to define mineral resources is US\$4.00 per pound copper
- Recovery estimates were 85% for leach cap and oxide, 75% for mixed, and 60% for sulfide
- Numbers may not add due to rounding

# 2017 TO 2025 ACCOMPLISHMENTS

**1. Permitted, drilled and completed ALL stipulations to now permanently OWN 51% of the Sunnyside Property**

**2. Drill hole SUN24-002B hit the downdip extension of the SOUTH32 Taylor Deposit on the Sunnyside Property**

**3. BOD approved decision to pursue Phase II earn-in requirements to obtain 67½ % ownership.**

**4. Successfully drilled San Javier and produced a positive PEA**

**5. Operated in a SAFE and efficient manner with NO LOST TIME ACCIDENTS over the past 8-year period.**



# LEADERSHIP TEAM

## WILLIAM WULFTANGE

### CEO and Director

William began his career in Nevada as an exploration geologist contributing to the discovery of the world class Paradise Peak Mine in 1983. During the following 38 years, William contributed to the discovery, development and production of highly successful precious metal mines including the El Peñón mine in Chile and the Cerro Negro project, now a mine, in Argentina. He has critical experience in precious metal and copper project evaluations and has acted as a Qualified Person for resource and reserve reporting for Meridian Gold, Andean Resources, and Yamana Gold. He is a past President of the SEG Foundation and currently serves within the foundation on a volunteer basis.

## ALAN ROBERTS

### VP Exploration & QP

A seasoned professional with over three decades of experience in mineral exploration and mining. He holds a Bachelor of Science in Geology from Goldsmiths, University of London (1989) and a Master of Science in Mineral Exploration and Geophysics from Imperial College London, Royal School of Mines (1992).

## MICHAEL WALDKIRCH, CPA

### CFO

A Certified Public Accountant with extensive experience providing a variety of financial and business consultancy services to public and private companies since 1998.

## NANCY HEISER

### Director of External Relations

Ms. Heiser has many years of experience working in community and government relations in southern Arizona. Prior to joining Barksdale, Nancy worked for Hudbay Minerals and spent several years leading the community relations team for Congresswoman Martha McSally.

## BRAD NORLING

### Senior Permitting Consultant

Over 27 years experience providing biological, permitting, regulatory compliance, and environmental assessment services for the natural resource and renewals industries.

## IRA M. GOSTIN, MBA, APR

### Head of Investor Relations

Ira is an award-winning investor relations and capital markets strategist with a dynamic background in marketing and strategic communications. He is a veteran IRO having worked in the mining and energy sector for two decades. He was a found executive at Tahoe Resources, head of IR at Rye Patch Gold and has worked with numerous other exploration and mining companies.

## Board of Directors

## DARREN BLASUTTI

### Chairman

CEO of Americas Gold and Silver

## QUINTON HENNIGH

### Director

President of San Cristobal Mining and Technical Director of Crescat Capital

## PETER McRAE

### Director

SVP Corporate Affairs at Americas Gold and Silver

## JEFF O'NEILL

### Director

Owner of JMO Enterprises

## WILLIAM WULFTANGE

### Director

# CAPITAL STRUCTURE

As of July 1, 2025. All prices in CAD

30 DAY SHARE PRICE RANGE	<b>\$0.085 – \$0.12</b>
SHARES OUTSTANDING	<b>136.8 million</b>
OPTIONS	<b>12.2 million</b>
WARRANTS	<b>68.4 million</b>
FULLY DILUTED	<b>217.4 million</b>
MARKET CAP	<b>\$16.2 million</b>
CASH	<b>\$1.5 million</b>
CONVERTIBLE DEBT	<b>\$4.5 million</b>
Matures Dec. 31, 2027 / Conv Price - \$0.12	

## TOP SHAREHOLDERS

- Teck Resources
- Crescat Capital
- Osisko Dev Corp
- US Global Investors
- Eric Sprott
- Commodity Discovery Fund
- Delbrook Capital Advisors
- Tusk (private)

# WHY INVEST IN BARKSDALE RESOURCES?



## CRITICAL METALS

Barksdale is committed to energy independence in the Americas through the exploration and development of critical metals such as Copper, Zinc, Manganese, Silver and Lead.



## EXPLORATION

Down dip extensions of South 32's Taylor and Peake discoveries include; Feeder system with multiple 1990s ASARCO porphyry discoveries; further greenfield prospectivity all on the Sunnyside property.



## JURISDICTION

Our present emphasis is on our Sunnyside project in the Patagonia District of Arizona, USA, adjacent to the South32 properties. We feature exploration assets in Arizona and Mexico.



## MANAGEMENT

Our leadership team is highly experienced and come from great names in the industry such as: Yamana Gold, Barrick, Meridian Gold and America's Gold and Silver.



## CREATE VALUE

The Company is committed to creating significant shareholder value through exploration and by increasing ownership to 67.5% of Sunnyside Project in the next 6 months

# CONTACT

IRA M. GOSTIN

Head of Investor Relations

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[www.BarksdaleResources.com](http://www.BarksdaleResources.com)

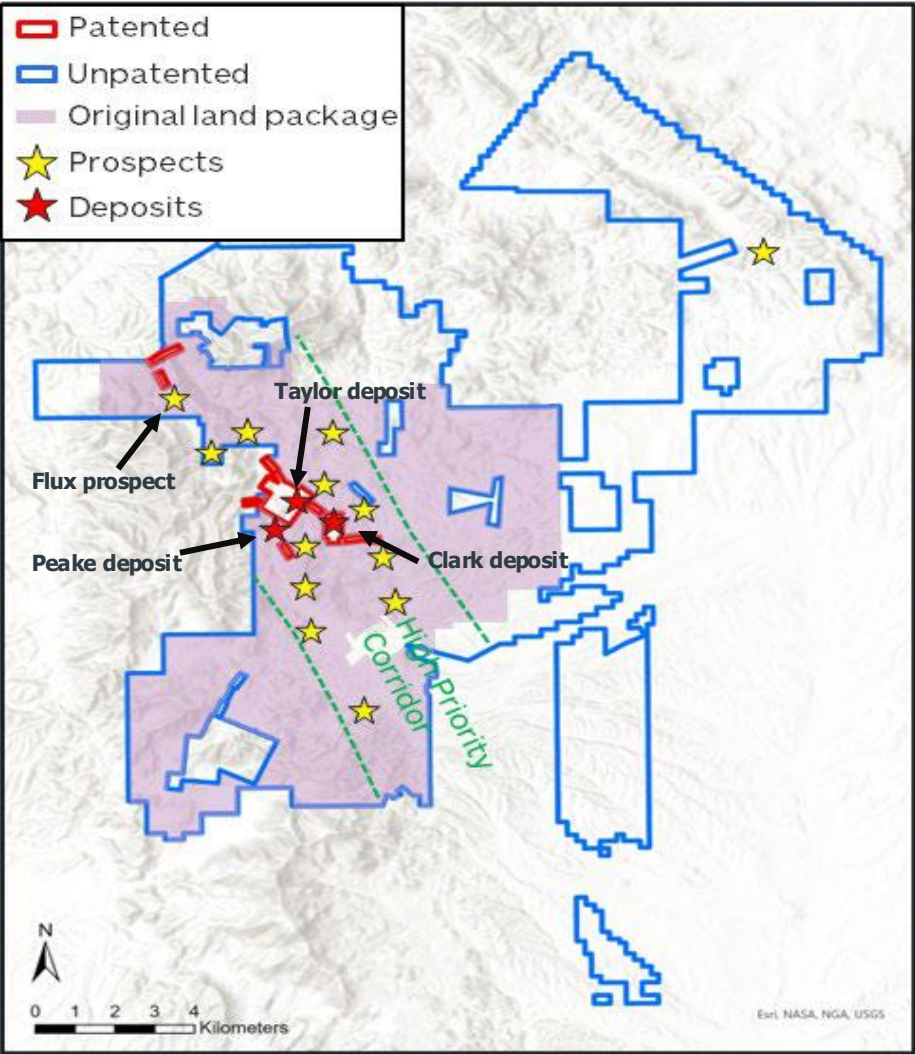


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# **SUPPLEMENTAL INFORMATION**

# SOUTH32 HERMOSA PROJECT (2025)

Hermosa to bring significant base metals production growth



**Taylor deposit**  
**Zinc-lead-silver**

- Future top 10 global zinc mine<sup>4</sup> in the industry’s first cost quartile<sup>5</sup>
- Initial 28-year<sup>(a)</sup> operating life, with significant extension potential
- Construction underway with first production expected in H2 FY27

**Clark deposit**  
**Battery-grade manganese**

- Potential to produce HPMSM<sup>(b)</sup> for the North American EV market
- Phased approach to development, in line with market growth
- Potential development supported by grant funding from US Department of Defense and US Department of Energy

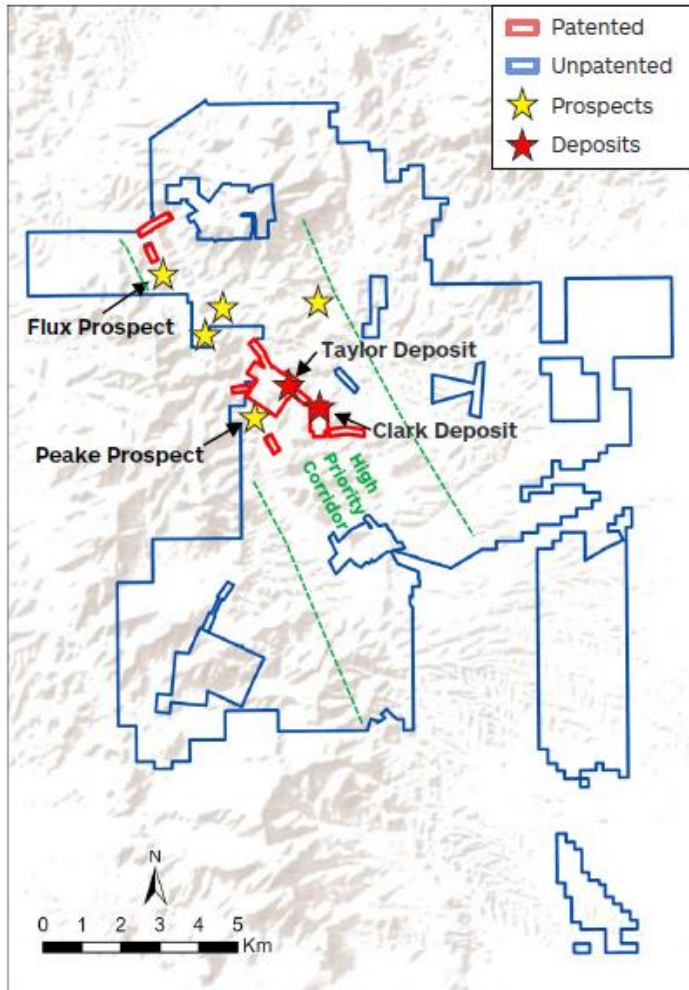
**Exploration land package**  
**Copper, zinc**

- Highly prospective land package with 15+ polymetallic targets
- High-grade copper and zinc intersected at Peake and Flux
- Potential to produce copper from Peake via the Taylor processing plant<sup>(a)</sup>

Notes:  
a. Refer to important notices (slide 2) and Annexure 1 for additional disclosure.  
b. High-purity manganese sulphate monohydrate.

# SOUTH32 HERMOSA PROJECT (2022)

## Hermosa land package



Notes:

- a. Refer to important notices (slide 2) for additional disclosure.
- b. Refer to footnotes (slide 29) for additional disclosure.

**Taylor is an attractive base metals development option**

- 138Mt zinc-lead-silver sulphide Mineral Resource with a Hermosa Exploration Target ranging from 10 to 95Mt(a)
- PFS demonstrates potential for a sustainable, low cost operation with 20+ year initial resource life(b)
- Final investment decision expected in mid CY23

**Clark offers the separate potential to produce a battery-grade manganese product for North America**

- 55Mt zinc-manganese-silver oxide Mineral Resource(b)
- Scoping study(a) has confirmed the potential to produce battery-grade manganese into rapidly-growing markets
- Manganese listed as a critical mineral in the United States
- Studies to consider a potential integrated development of Taylor and Clark, unlocking operating and capital synergies

**A highly prospective land package**

- Since acquisition, we have increased our tenure by 66%, consolidating the most prospective areas
- Through soil sampling, geophysics and mapping, we have defined a highly prospective corridor
- High-grade copper-lead-zinc-silver mineralisation intersected at the Peake prospect, south of the Taylor Deposit
- Planning to drill the Flux prospect in late CY22, located down-dip of an historic mining area

# SOUTH32 HERMOSA PROJECT (2025)

## Developing a large-scale, long-life zinc mine in Arizona, USA

Construction of main shaft (left), ventilation shaft (right) and tailings storage (rear)



### Taylor feasibility study highlights<sup>(a)</sup>

Annual average production	~290kt ZnEq
Initial operating life	~28 years <sup>(b)</sup>
Operating unit costs	~US\$86/t
Pre-production capital	~US\$2,160M
Sustaining capital (average)	~US\$36M p.a.
Free cash flow (average) <sup>6</sup>	~US\$320M p.a.
Net present value <sup>7</sup>	~US\$686M
Internal rate of return <sup>8</sup>	~12%
First production	H2 FY27
Nameplate production	FY30

### Development progress

- State environmental approvals received
- Draft EIS under FAST-41 published in May 2025
- Ventilation shaft sinking is underway
- Process plant construction commenced in April 2025
- Main shaft sinking to commence in June 2025

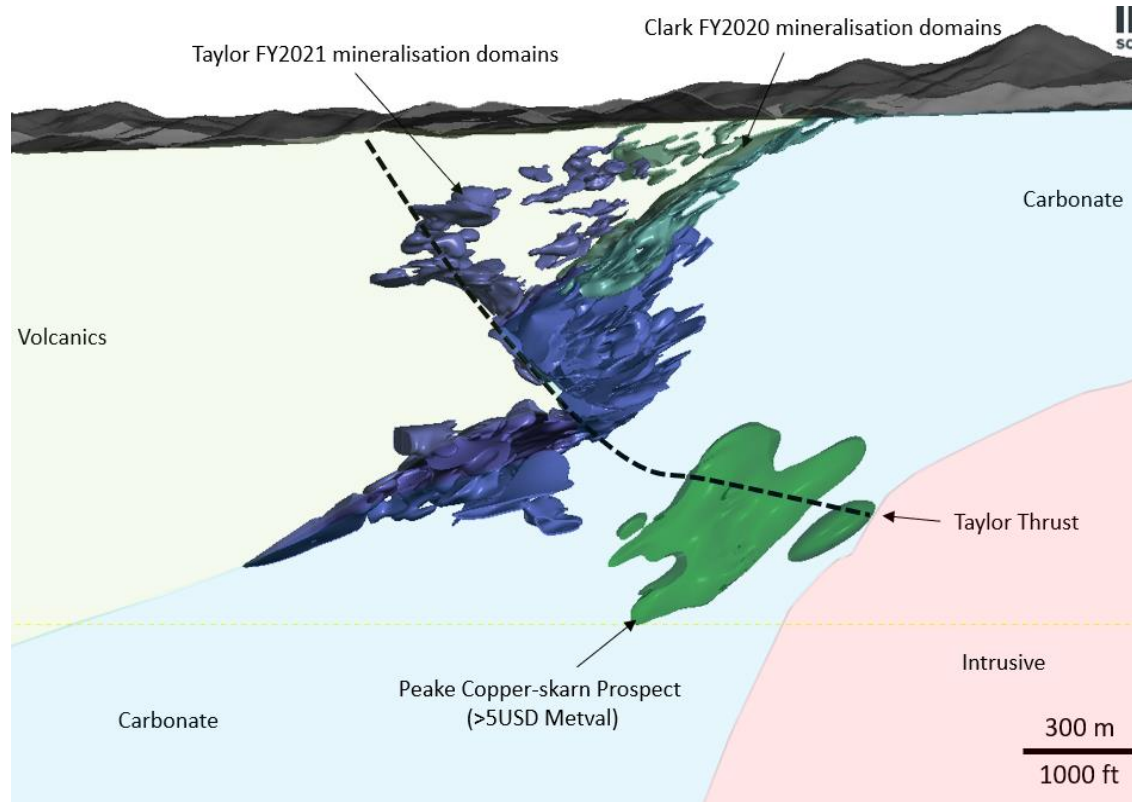
Notes:

- a. Refer to market release "Final Investment Approval to Develop Hermosa's Taylor Deposit" dated 15 February 2024. The Feasibility Study has been completed to an AACE International Class 3 estimate standard, with an accuracy level of -10% / +20% for operating and capital costs. The cost estimate has a base date of H2 FY23. Unless stated otherwise, currency is in US dollars (real) and units are metric. The feasibility study outcomes assume the following commodity prices (from FY31): zinc (US\$3,207/t), lead (US\$2,069/t) and silver (US\$20.2/oz).
- b. Refer to important notices (slide 2) for additional disclosure.

SLIDE 12

# HERMOSA EXPLORATION POTENTIAL – PEAKE PROSPECT

## Exploration results support the potential for large copper system



- Exploration drilling has identified near-mine exploration targets, including the Peake prospect
- High-grade copper-lead-zinc-silver mineralisation has been intersected at the skarn hosted Peake prospect, south of the Taylor Deposit
- Interpretation of these results and recently acquired data indicates the potential for a continuous structural and lithology controlled system connecting Taylor Deeps and Peake, a deeper zone prospective for copper
- Further exploration drilling is planned in CY22

## Peake prospect – selected drilling results

Hole ID	From (m)	To (m)	Cut off	Width (m)	Zinc (%)	Lead (%)	Silver (ppm)	Copper (%)
HDS-540	1279.2	1389.0	0.2% Cu	109.7	0.1	0.3	15	0.62
	1303.6	1309.7	0.2% Cu	6.1	0.2	0.4	61	3.48
	1308.2	1384.7	0.2% Cu	76.5	0.2	0.4	25	1.52
HDS-552	1309.9	1328.6	0.2% Cu	18.8	0.1	0.2	40	2.77
	1364.3	1384.7	0.2% Cu	20.4	0.1	0.3	37	2.44
	1322.2	1374.6	0.2% Cu	52.4	0.1	1.1	105	1.73
HDS-661	1322.2	1346.0	0.2% Cu	23.8	0.1	0.8	81	3.32
	1322.2	1330.1	0.2% Cu	7.9	0.1	0.4	81	7.89
	1386.8	1460.6	0.2% Cu	73.8	0.5	0.7	67	1.06
HDS-717	1399.6	1410.3	0.2% Cu	10.7	0.7	1.5	227	2.84
	1456.6	1466.7	0.2% Cu	10.1	0.5	1.0	78	2.57

## Our PFS mine design employs conventional methods, delivering high productivity from multiple faces

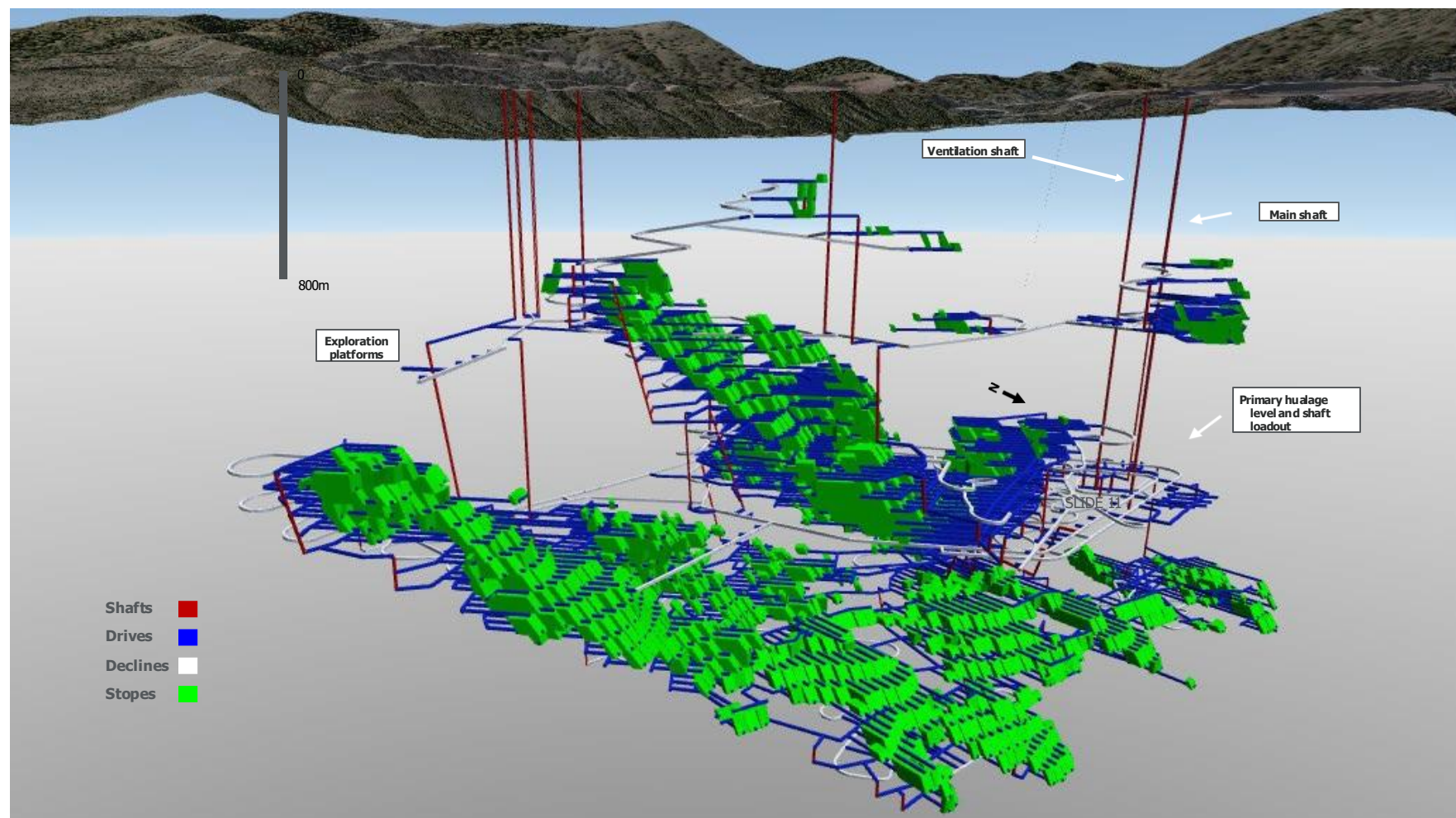
Taylor Deposit underground mine design

**Dual shaft access prioritises higher grade ore in early years**

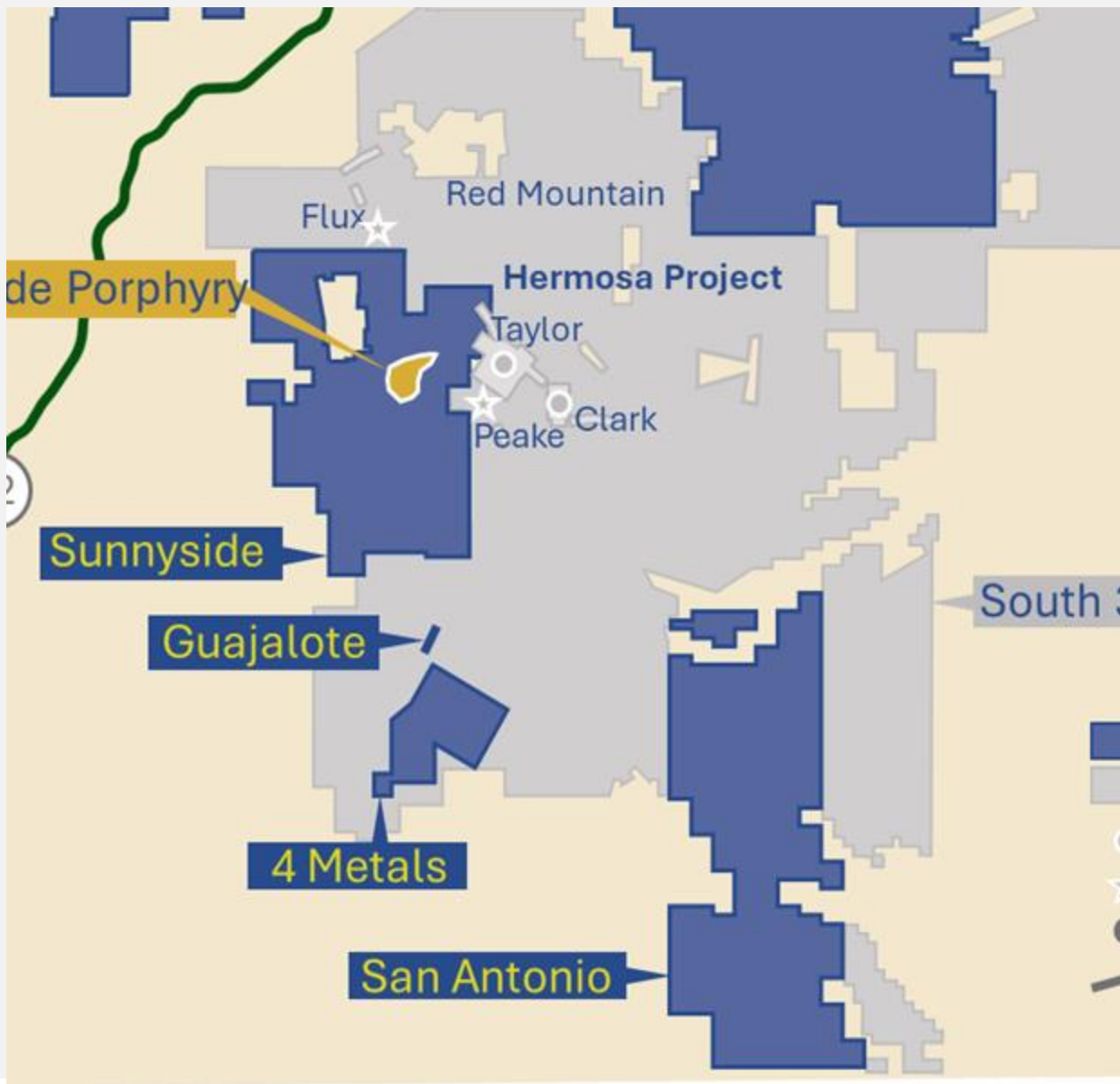
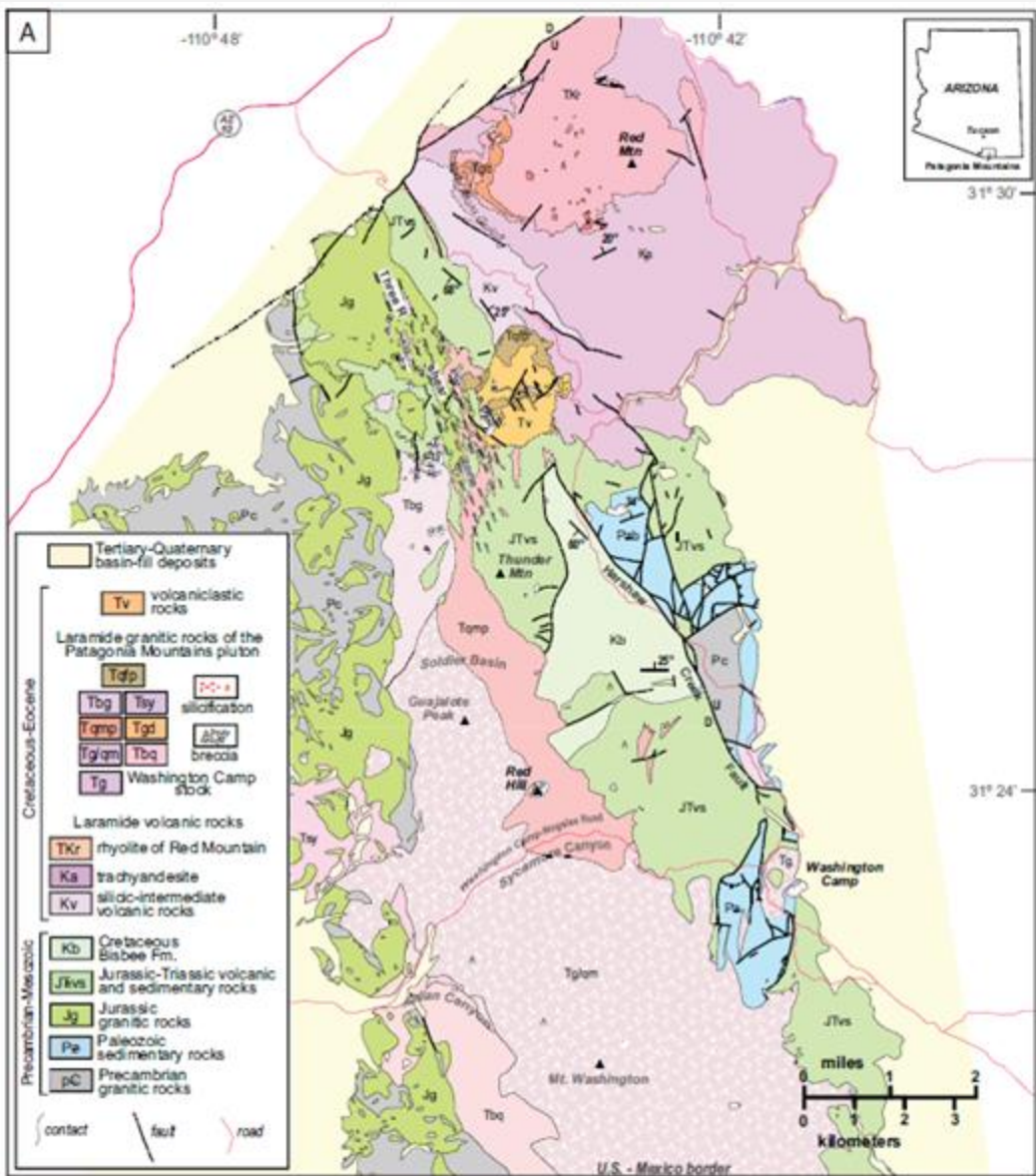
**Proposed mining method is low technical risk, employing longhole open stoping, similar to Cannington**

**Multiple concurrent mining areas expected to support high productivity**

**Single stage ramp-up following orebody dewatering to nameplate production**



# PATAGONIA DISTRICT GEOLOGY



# ARIZONA OPTION AGREEMENT

- Barksdale maintains a initial **51%** of Sunnyside over a two-year period.
- It may then elect to increase to **67.5%** over an additional two-year period.

Period	C\$ Cash	Exploration Requirement (C\$)	Drilling Footage	Number of Shares	
On execution of agreement	\$750,000 (paid)			1,250,000 (issued)	51%
On or before end of Year 1*	\$1,200,000 (paid)	\$3,000,000 (Incurred PI)		3,850,000 (issued)	
On or before end of Year 2	\$1,000,000 (paid)	\$3,000,000 (Incurred PI)	25,000 feet (completed)	5,000,000	67.5%
On or before end of Year 3	-	\$3,000,000 (Incurred PI)		-	
On or before end of Year 4	\$550,000	\$3,000,000 (Incurred PI)	25,000 feet	4,900,000	
<b>Total:</b>	<b>C\$3,500,000</b>	<b>C\$12,000,000</b>		<b>15,000,000</b>	

\*Year 1 began on September 8, 2023