



Exploration Done Differently

January 7, 2025

Corporate Deck

TSX-V: RDG | OTCQB: RDGMF |
FRA: OGC0



CAUTIONARY STATEMENT

Disclaimer

Forward Looking Statements

Statements contained in this press release that are not historical facts are “forward-looking information” or “forward-looking statements” (collectively, “Forward-Looking Information”) within the meaning of applicable Canadian securities legislation and the United States Private Securities Litigation Reform Act of 1995. Forward-Looking Information includes, but is not limited to, the potential benefits of the Earn-In Agreement (including the Proposed Work Program, Year 1) and the transactions contemplated thereby (collectively the “Earn-In Transaction”). The words “potential”, “anticipate”, “meaningful”, “discovery”, “forecast”, “believe”, “estimate”, “expect”, “may”, “will”, “project”, “plan”, “historical”, “historic” and similar expressions are intended to be among the statements that identify Forward-Looking Information. Forward-Looking Information involves known and unknown risks, uncertainties and other factors which may cause the actual results to be materially different from any future results expressed or implied by the Forward-Looking Information. In preparing the Forward-Looking Information in this news release, Ridgeline has applied several material assumptions, including, but not limited to, assumptions that TSX Venture Exchange approval will be granted in a timely manner subject only to standard conditions; that all conditions precedent to the Earn-In will be satisfied in a timely manner; the current objectives concerning the Project and the Company’s other projects can be achieved and that its other corporate activities will proceed as expected; that general business and economic conditions will not change in a materially adverse manner; and that all requisite information will be available in a timely manner. Forward-Looking Information involves known and unknown risks, uncertainties and other factors which may cause the actual results, performance, or achievements of Ridgeline to be materially different from any future results, performance or achievements expressed or implied by the Forward-Looking Information. Such risks and other factors include, among others, risks related to dependence on key personnel; risks related to unforeseen delays; risks related to historical data that has not been verified by the Company; as well as those factors discussed in Ridgeline’s public disclosure record. Although Ridgeline has attempted to identify important factors that could affect Ridgeline and may cause actual actions, events, or results to differ materially from those described in Forward-Looking Information, there may be other factors that cause actions, events or results not to be as anticipated, estimated or intended. There can be no assurance that Forward-Looking Information will prove to be accurate, as actual results and future events could differ materially from those anticipated in such statements. Accordingly, readers should not place undue reliance on Forward-Looking Information. In addition, this news release contains information about adjacent properties on which Ridgeline has no right to explore or mine. Readers are cautioned that mineral deposits on adjacent properties are not indicative of mineral deposits on the Company’s properties. Except as required by law, Ridgeline does not assume any obligation to release publicly any revisions to Forward-Looking Information contained in this news release to reflect events or circumstances after the date hereof or to reflect the occurrence of unanticipated events.

Qualified Persons. Michael Harp, CPG., Vice President, Exploration, is the Qualified Person as defined by National Instrument 43-101 and has reviewed and approved the technical data in this presentation.

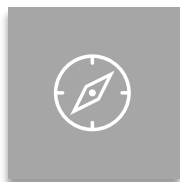
Footnotes:

- (1) Adjacent Properties. This presentation contains information about adjacent properties on which Ridgeline Minerals does not have the right to explore or mine. Investors are cautioned that mineralization on adjacent properties is not necessarily indicative of mineralization that may be hosted on the Company’s properties.
- (2) Readers are cautioned that the exploration targets at the Carlin-East, Swift, Bell Creek, Selena and Robber Gulch properties are early-stage exploration prospects and conceptual in nature. There has been insufficient exploration to define a mineral resource and it is uncertain if further exploration will result in the target being delineated as a mineral resource.
- (3) Historical information contained in this presentation, maps or figures regarding the Company’s project or adjacent properties cannot be relied upon as the Company’s QP, as defined under NI 43-101 has not prepared nor verified the historical information.
- (4) Source: Fraser Institute Annual Survey of Mining Companies 2018. Investment Attractiveness Index weights both policy perception (taxation levels, onerous regulations, quality of infrastructure, etc.) and mineral potential (40% / 60%) of 83 countries and provinces/states
- (5) Source: Barrick Gold Quarterly Reporting: https://s25.q4cdn.com/322814910/files/doc_presentations/2021/Barrick-Q4-2020-Results-Presentation.pdf
- (6) Source: Quaterra Resources Inc. Website: https://quaterra.com/wp-content/uploads/qta_bv_web_0624.pdf
- (7) Source: Barrick Gold Q3 2021 Quarterly Reporting: https://s25.q4cdn.com/322814910/files/doc_presentations/2021/11/Barrick_Q3_2021_Results_Presentation.pdf
- (8) Source: Barrick Gold., 2023 Resource & Reserve Statement: [Geologically Driven Asset Management Delivers Third Successive Year of Reserve Growth at Sustained Quality, While Unlocking Embedded Growth Portfolio \(q4cdn.com\)](https://www.barrick.com/~/media/Investor-Relations/2023-Resource-Reserve-Statement-Geologically-Driven-Asset-Management-Delivers-Third-Successive-Year-of-Reserve-Growth-at-Sustained-Quality-While-Unlocking-Embedded-Growth-Portfolio-10442023.pdf)
- (9) Source: Barrick Gold Q4, 2022 Quarterly Reporting: https://s25.q4cdn.com/322814910/files/doc_presentations/2023/Barrick_Q4_2022_Results_Presentation.pdf
- (10) Source: South32 Feasibility Study (2022) <https://www.south32.net/our-business/exploration-projects/hermosa>
- (11) Source: Reyna Silver Presentation (2020) <https://reynasilver.com/presentations/GuiguProject.pdf>
- (12) Source: Mag Silver Annual Information Form (2016) <https://magsilver.com/site/assets/files/4659/aif2015.pdf>
- (13) Source: Barrick Gold Investor Day, November 2022 Presentation https://s25.q4cdn.com/322814910/files/doc_presentations/2022/11/Barrick_2022_Investor_Day_Q7_Exploration.pdf
- (14) Source: Smith, R.M., 1976, Mineral resources of Elko County, Nevada: U.S. Geological Survey Open-File Report 76-56, 201 p.
- (15) Source: Reyna Silver <https://reynasilver.com/system/uploads/RS-PressRelease-20230117.pdf> & <https://reynasilver.com/article/auto-news-1699444971>
- (16) Source: I-80 Gold <https://www.i80gold.com/i-80-gold-hilltop-discovery-yields-bonanza-grade-crd-mineralization-at-ruby-hill/>
- (17) Source: Barksdale Resources https://barksdaleresources.com/images/pdf/Present-Fact/2023/BRO_Corporate_-_November_2023_-_pdf.pdf
- (18) Source: Barrick Gold https://s25.q4cdn.com/322814910/files/doc_presentations/2023/Barrick_Q2_2023_Results_Presentation.pdf
- (19) Source: Reyna Silver [Reyna Silver - Exploration Company with Robust Portfolio](https://reynasilver.com/~/media/Investor-Relations/Reyna-Silver-Exploration-Company-with-Robust-Portfolio-10442023.pdf)

ABOUT US

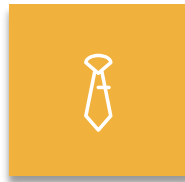
Ridgeline Minerals

Ridgeline is a US focused precious and base metal explorer with a portfolio of six highly prospective exploration projects in Nevada including three earn-in agreements (US \$60M) with Nevada Gold Mines & South32



WORLD-CLASS LOCATIONS

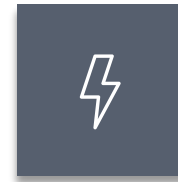
Nevada – 195km² exploration portfolio in the top ranked mining jurisdiction in the world⁽⁴⁾



\$20M SOUTH32 EARN-IN

S32 earn-in highlights the exploration upside at Selena

- high-grade Ag-Pb-Zn-Au-Cu
- Q4, 2024 MT survey in progress



NEW HIGH-GRADE GOLD DISCOVERY

NGM's first drillhole of 2024 at Swift returned up to 1.1m @ 10.4 g/t Au.

- Potential to delineate a Tier-1 discovery in a world-class district



LEVERAGED EXPLORATION

Partnerships with NGM & S32 will see US \$4.0M spent in 2024

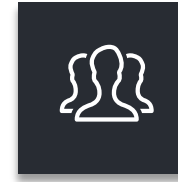
- \$US 8.5M spent at Swift & Black Ridge to-date



BIG BLUE PORPHYRY CU-AU

100%-RDG owned high-grade past producing copper mine

- RDG rock chips up to 3.9% Cu and 16.3 g/t Au



PROVEN MANAGEMENT TEAM

Team responsible for 50+ Moz of global gold discoveries over the past 30 years

Management Team



Chad Peters *B.Sc., P.Geo*
President, CEO & Director

- Led multi-million-ounce high-grade CSD Gap discovery (now I-80 Gold) in Nevada
- Discovered 10+ Moz of gold in Canada & the US with Premier Gold Mines prior to founding Ridgeline in 2018



Mike Harp *M.Sc., CPG*
Vice President, Exploration

- Led multi-million-ounce North Dark Star discovery with Gold Standard Ventures
- 13 years exploration experience in Nevada ranging from gold to CRD and porphyry copper



Duane Lo *CPA (CA)*
CFO & Director

- 20+ years of international accounting & financial management experience for various public companies
- Current CFO of Entrée Resources and former CFO of Mason Resources



Capital Structure

As at January 1, 2025



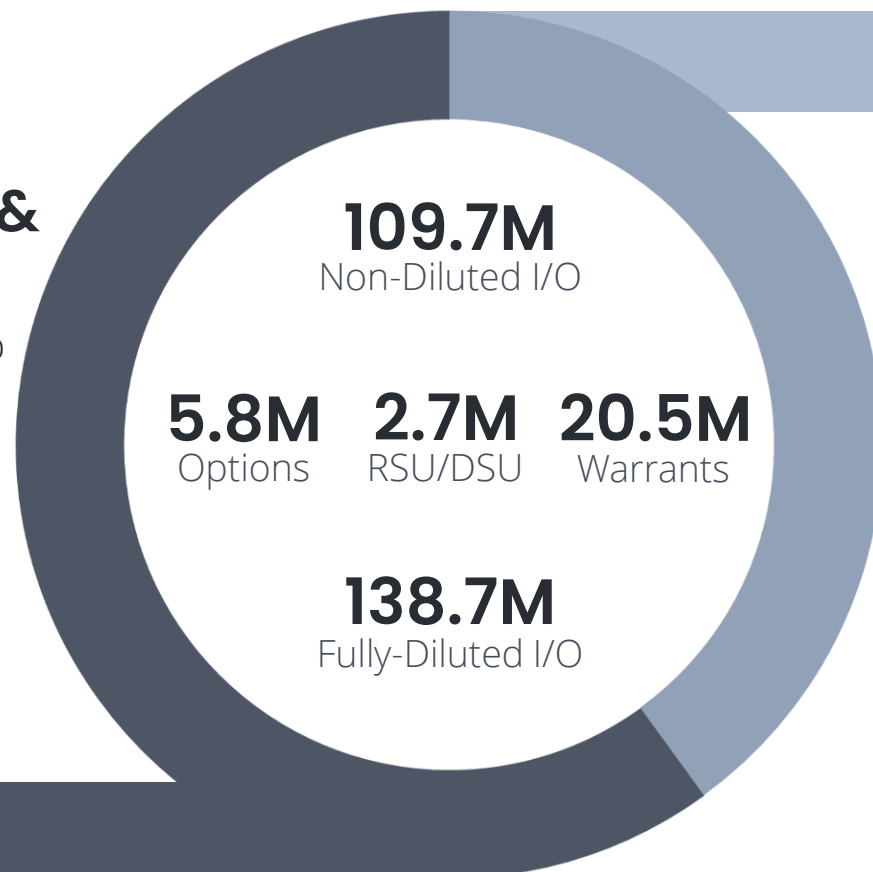
10.4% Management & Insiders

- Chad Peters – 5.3%



Large Shareholders

- Stephens Investment Mgmt.
- Rick Rule
- Merk Investments
- Extract Capital
- MJG Capital
- EMX Royalty Corp.
- VIOR Inc.
- Chad Peters



TSX-V: RDG | OTCQB: RDGMF | FRA: OGCO

- 11.3M warrants @ \$0.30 (expire April 2025)
- 9.2M warrants @ \$0.18 (expire May 2026)

*Management & Insider ownership calculated on a fully diluted basis



Hybrid Explorer



Add Value *With Discovery*

Reduce Risk *With Partnerships*

1 Exploration Pipeline & Partner Projects
**Mix of 100% owned and partner funded*

2 Discoveries advanced

3 Maiden resource

4 Monetize asset via sale

RIDGELINE MINERALS
Big Blue, Atlas Bell Creek & Coyote

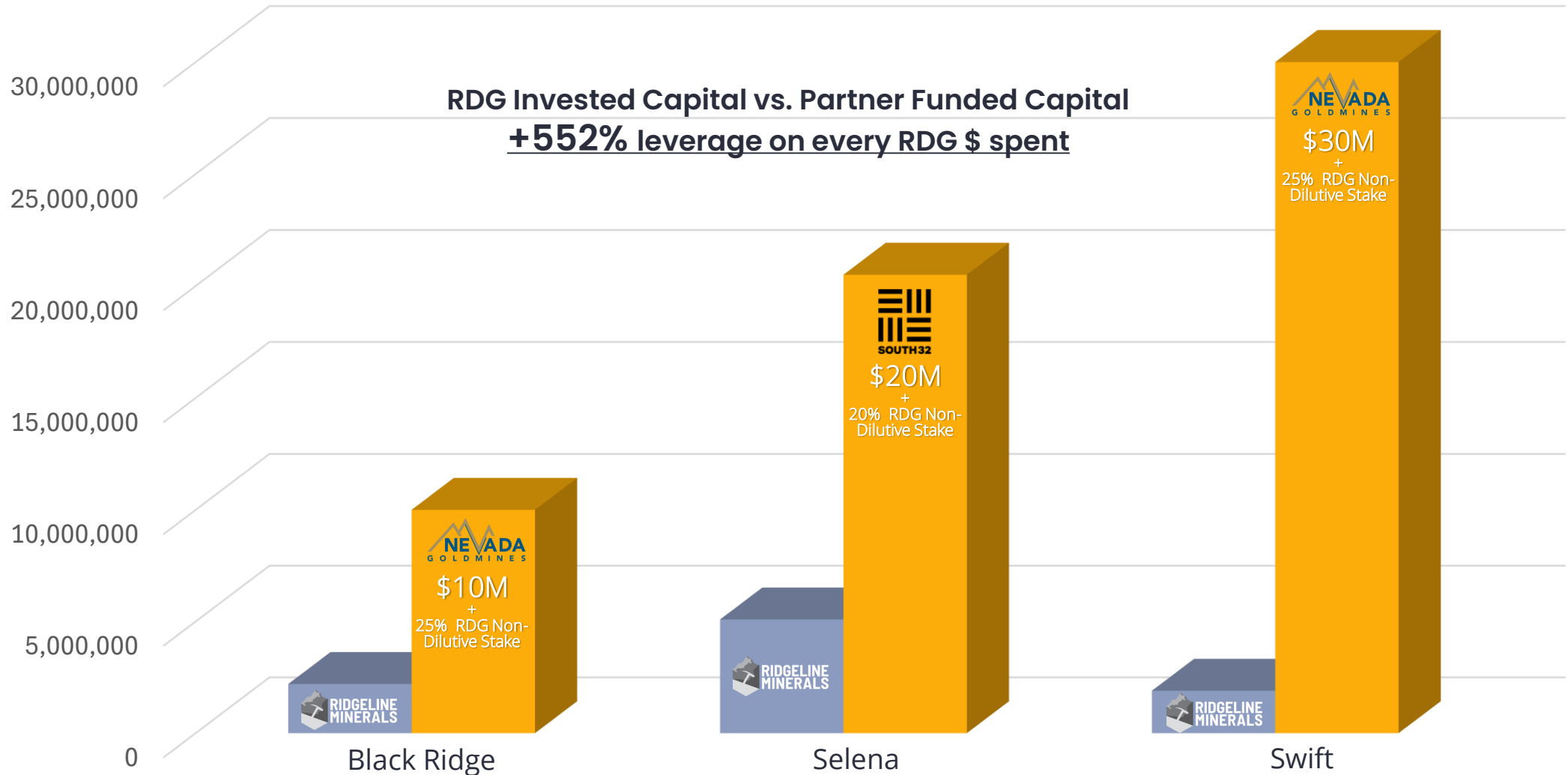
NEVADA GOLDMINES
Swift - \$30M
+25% "free-carry"

NEVADA GOLDMINES
Black Ridge - \$10M
+25% "free-carry"

SCOUT
Discoveries Corp.
Securities

SOUTH32
Selena - \$20M
+20% "free-carry"

Partner-Funded Leverage to Discovery



*Partner funding refers to the total earn-in spending requirements in the event both earn-in deals are fully executed

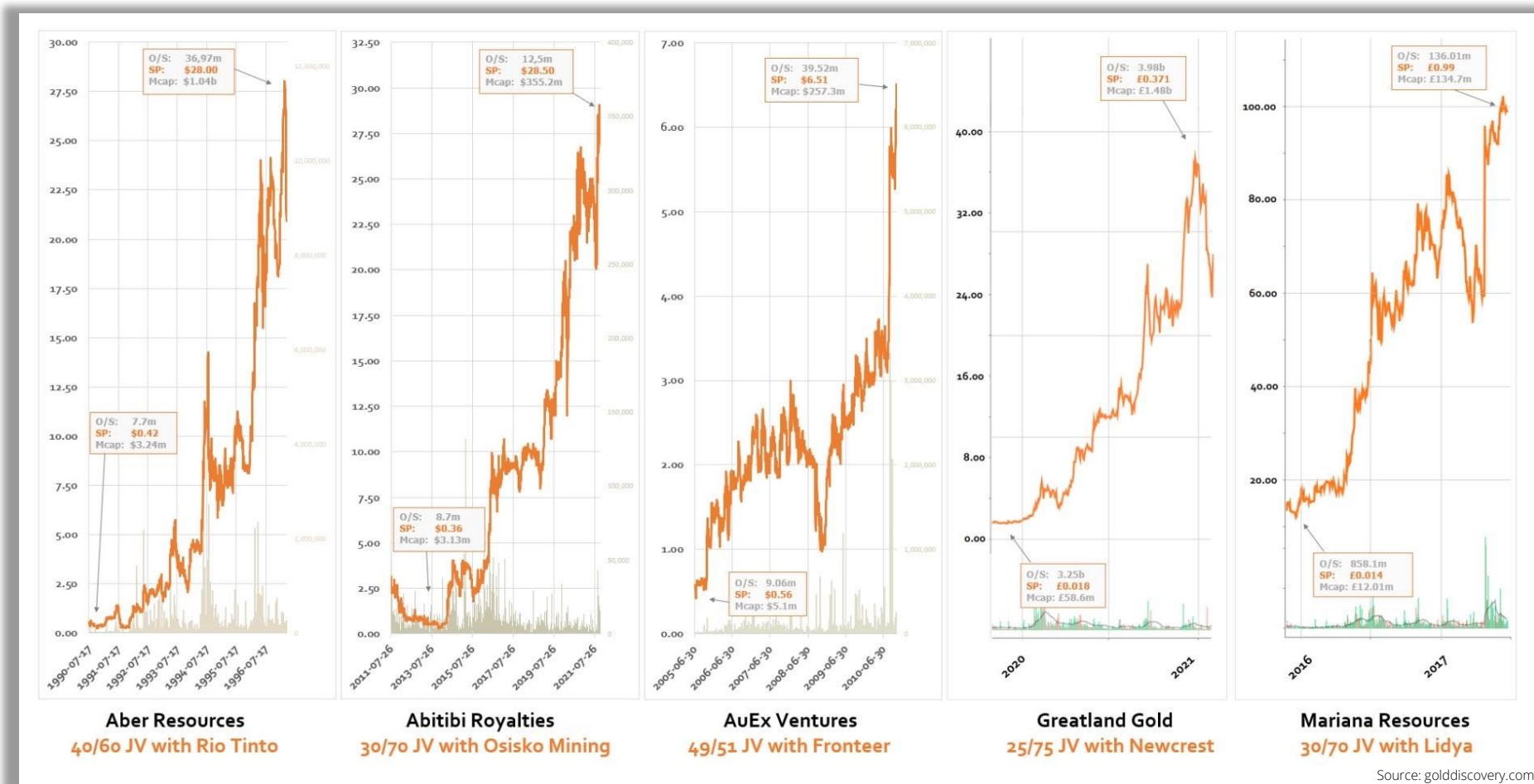
*RDG Non-Dilutive Stake refers to each deals pre-arranged debt facility to be provided by NGM or S32 to fund RDG pro-rata interest in the project until commencement of commercial production

■ RDG Invested Capital (US \$9.2M) ■ Partner Funding (US \$60.0M)



Why a Minority Joint Venture Interest Matters

- There are many past examples of minority interests in major discoveries yielding outsized returns for investors
 - Ridgelines earn-in deals with NGM and South32 have the potential for similar trajectories if a discovery is made



Source: golddiscovery.com

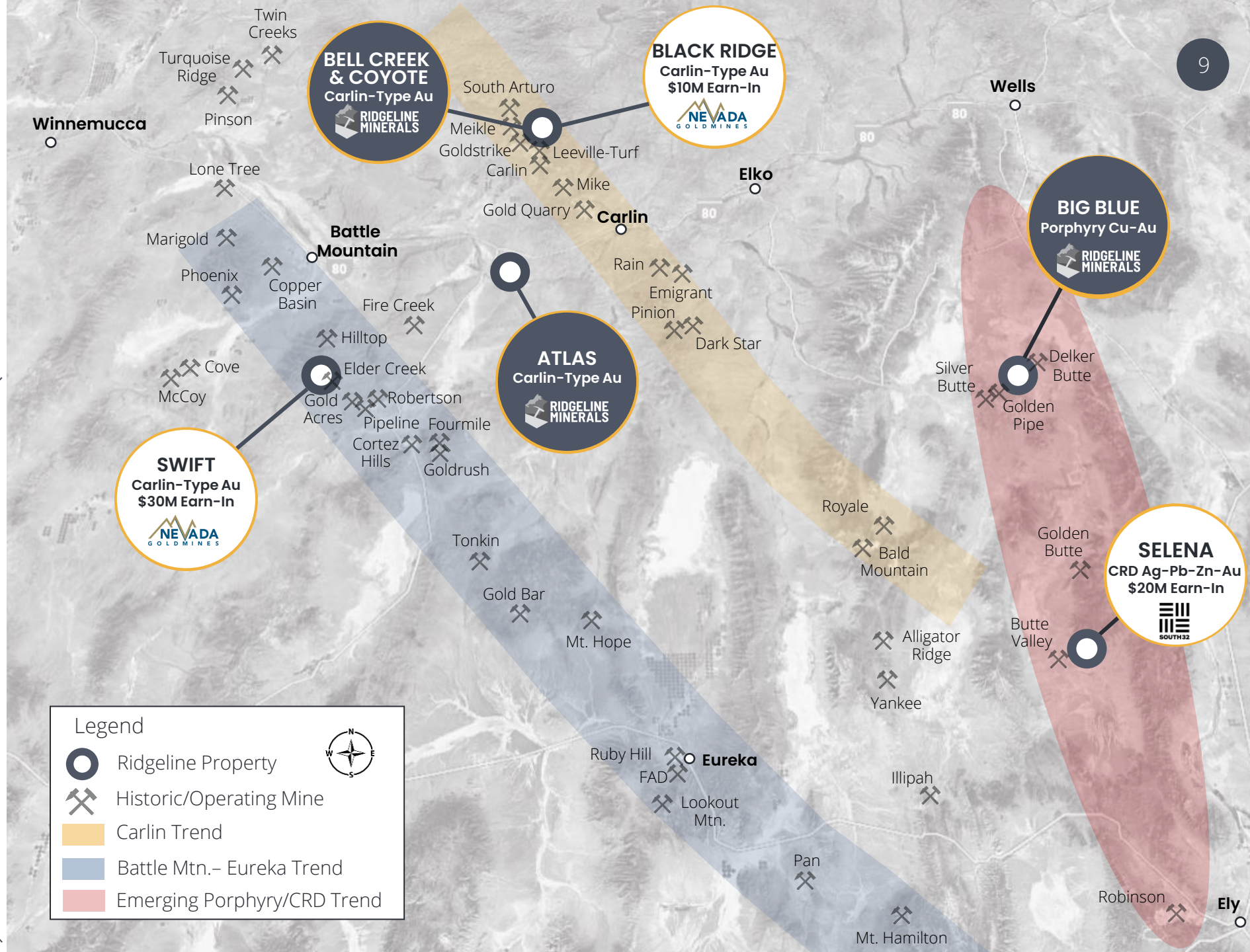
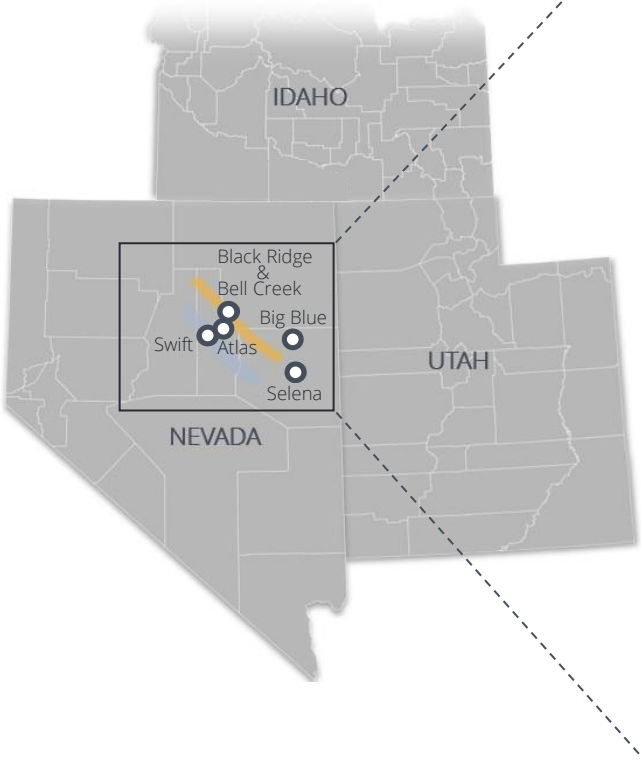


CORE LAND POSITIONS

7 Projects

200 km² Exploration Portfolio
in Nevada

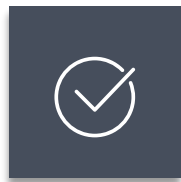
Porphyry Cu-Au & CRD
&
Carlin-Type Au



FLAGSHIP PROJECT

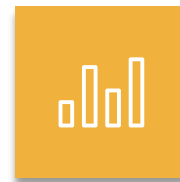
Big Blue

50 km² Land Package
Porphyry & CRD
Cu-Au-Ag ± Pb-Zn



100% OWNED

50km² land package covers past producing Delker and Skarn Hill Mines and is located directly adjacent to Reyna Silvers Medicine Springs CRD project



HIGH-GRADE

Delker Mine produced 94,434 pounds Cu @ 6.2% average grade (1916-1917⁽¹⁴⁾)

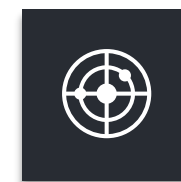
- Delker Trench: **0.6m @ 15.5% Cu within 2.4m @ 4.6% Cu**
- Skarn Hill Rock Chips: **6.44% Cu, 0.16 g/t Au, 53.75 g/t Ag**



THE OPPORTUNITY

Potential to discover porphyry/skarn Cu-Au and CRD type Ag-Pb-Zn deposits

- (deposit analogues include Butte Valley Porphyry, Robinson Cu Mine, Selena Project)



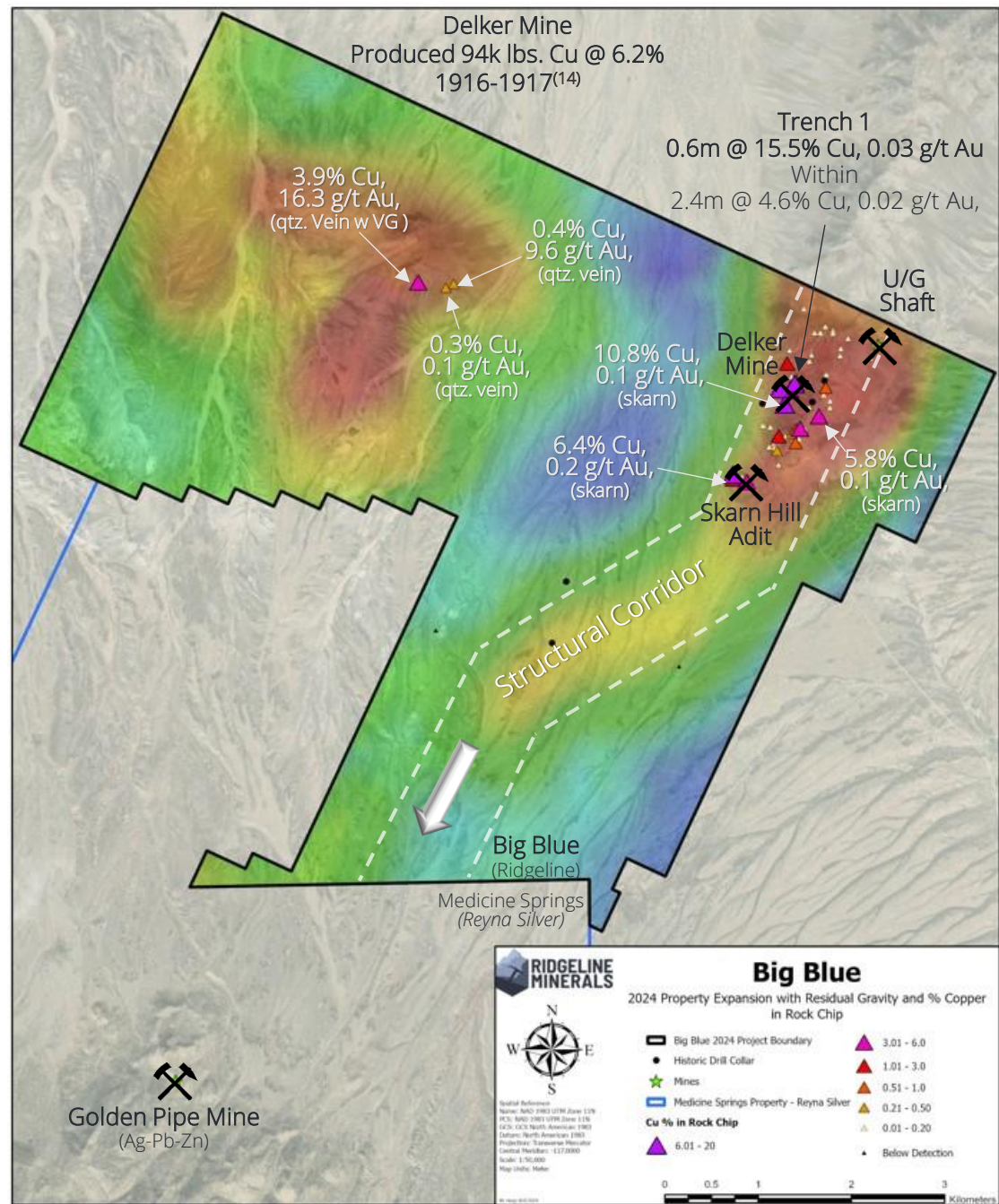
2025 OBJECTIVE

- Q1- Maiden drill program to test porphyry target beneath Delker Trend

BIG BLUE

Historic Cu District

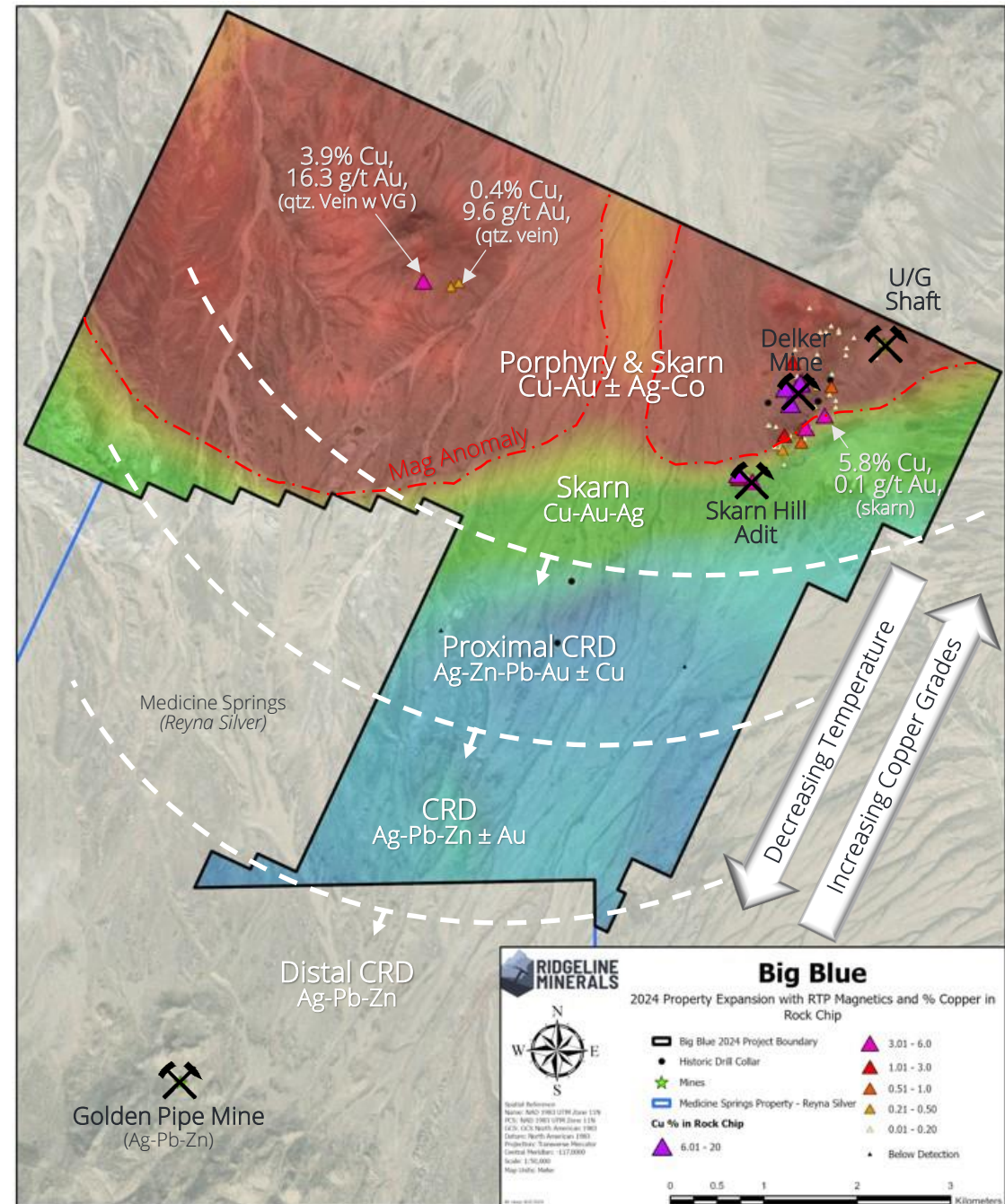
- The Big Blue Project includes the past producing Delker Mine, which produced 94,434 pounds of copper at an average grade of 6.2% Cu between 1916-1917⁽¹⁴⁾
 - Ridgeline Trench #1 confirmed grades at Delker with up to 0.6m @ 15.5% Cu
- Porphyry-Skarn Cu and CRD targets have not been adequately tested at depth or along strike towards Medicine Springs
- Proposed northeast structural corridor connects with Reyna Silver’s Medicine Springs Ag-Pb-Zn Carbonate Replacement (“CRD”) project



BIG BLUE

Porphyry Zonation

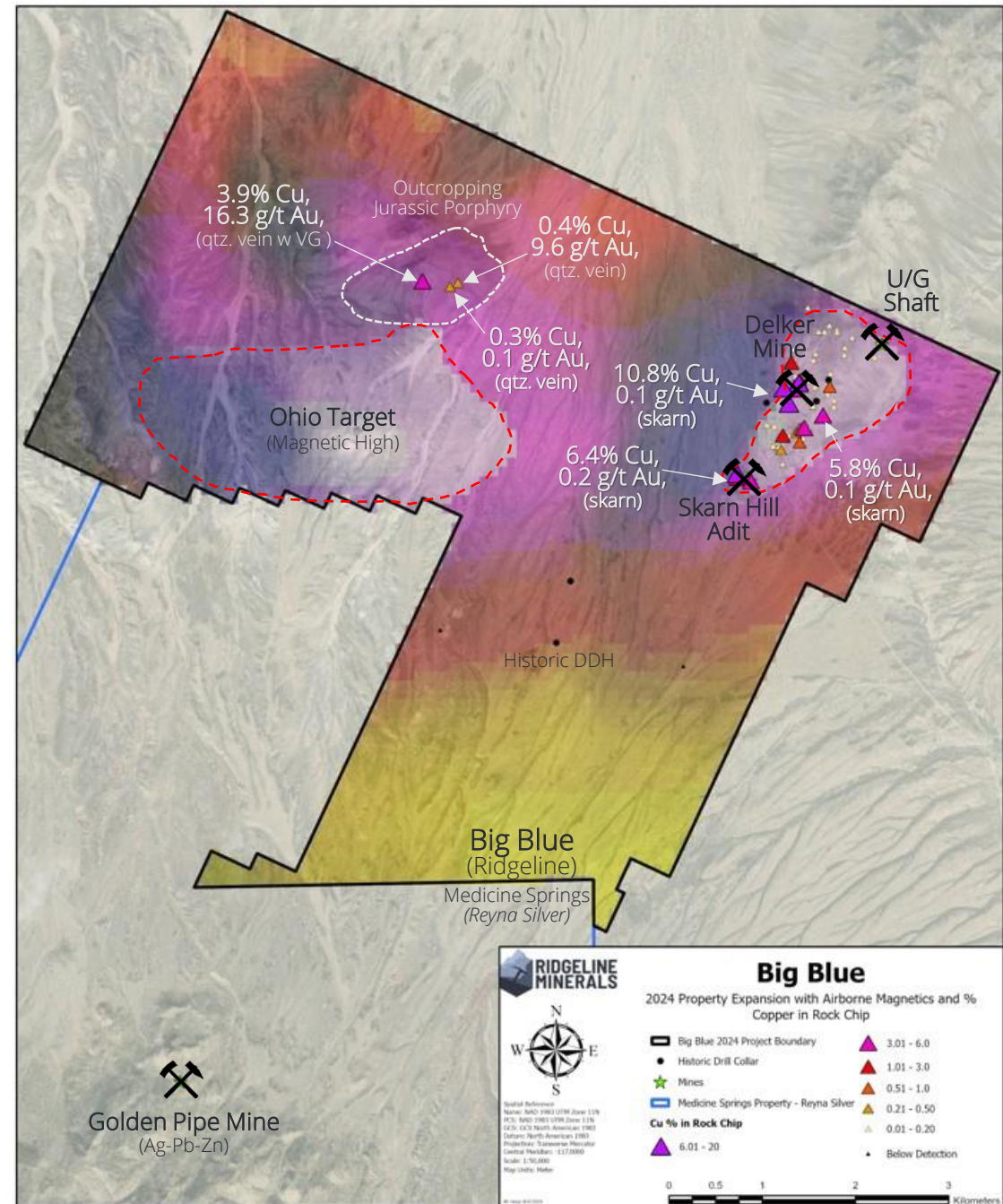
- Porphyry's exhibit systematic zonation patterns that transition from higher-temp porphyry-skarn (Cu-Au-Ag) mineralization to lower temperature CRD (Ag-Pb-Zn) over multiple kilometers of strike
- Proposed porphyry Cu target at Big Blue interpreted source to:
 - Proximal Cu Skarn at the Delker Mine
 - Distal CRD at the Golden Pipe mine (Reyna Silver)
- Big Blue exhibits 6km of untested strike with potential for discovery of the full porphyry-CRD spectrum



BIG BLUE

Two Porphyry Centers

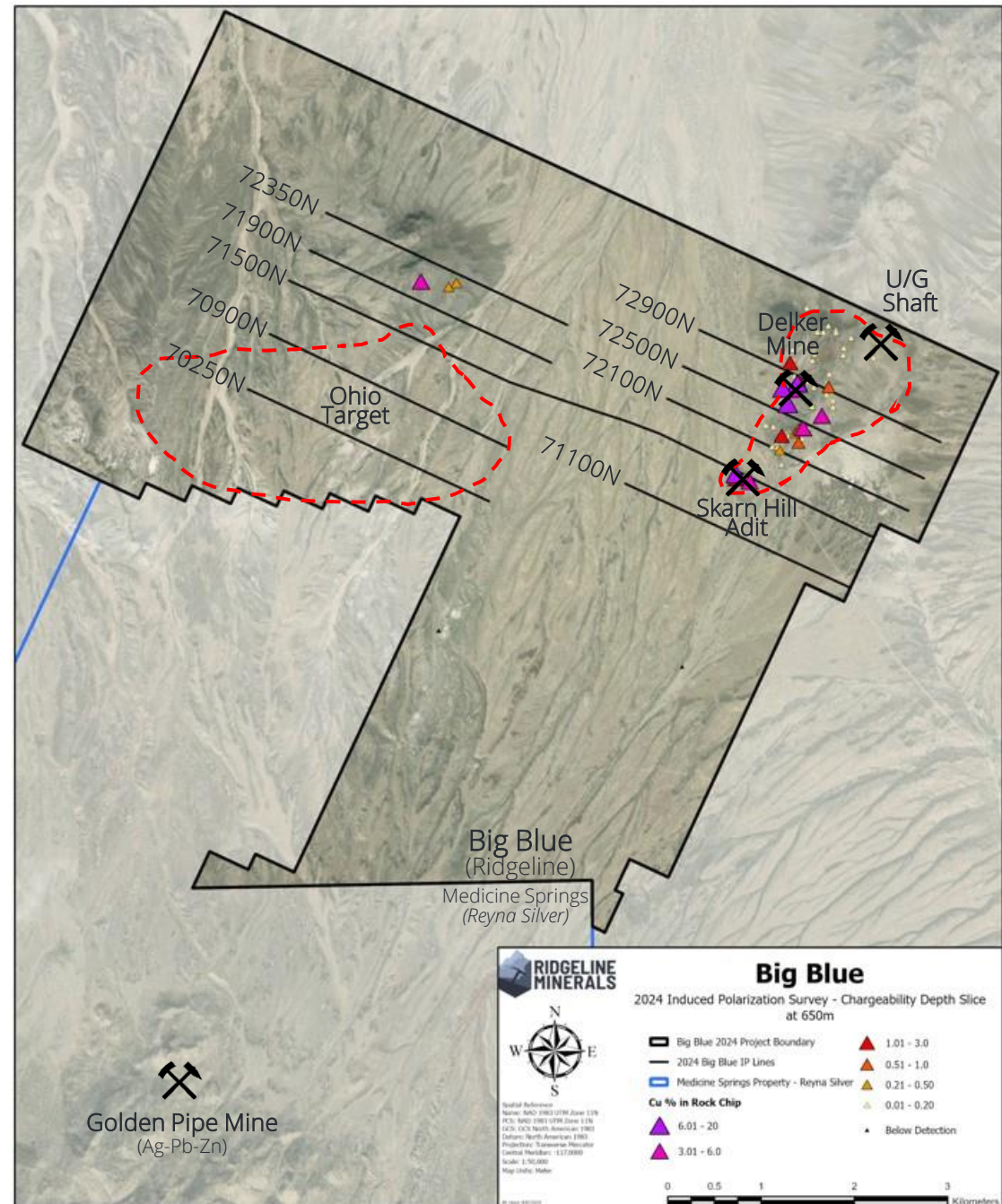
- Airborne magnetics data supports the potential for two porphyry centers at Big Blue
 - Larger of the two magnetic highs (Ohio Target) is buried under alluvial cover
- Outcropping Jurassic porphyry located directly to the north (white dash) of the buried mag high does not show a similar magnetic signature
- Similar tenor of magnetic response as the Delker Mine area suggests the two mag highs are related and a different age than the older Jurassic porphyry's across the district



BIG BLUE

2024 IP Survey Lines

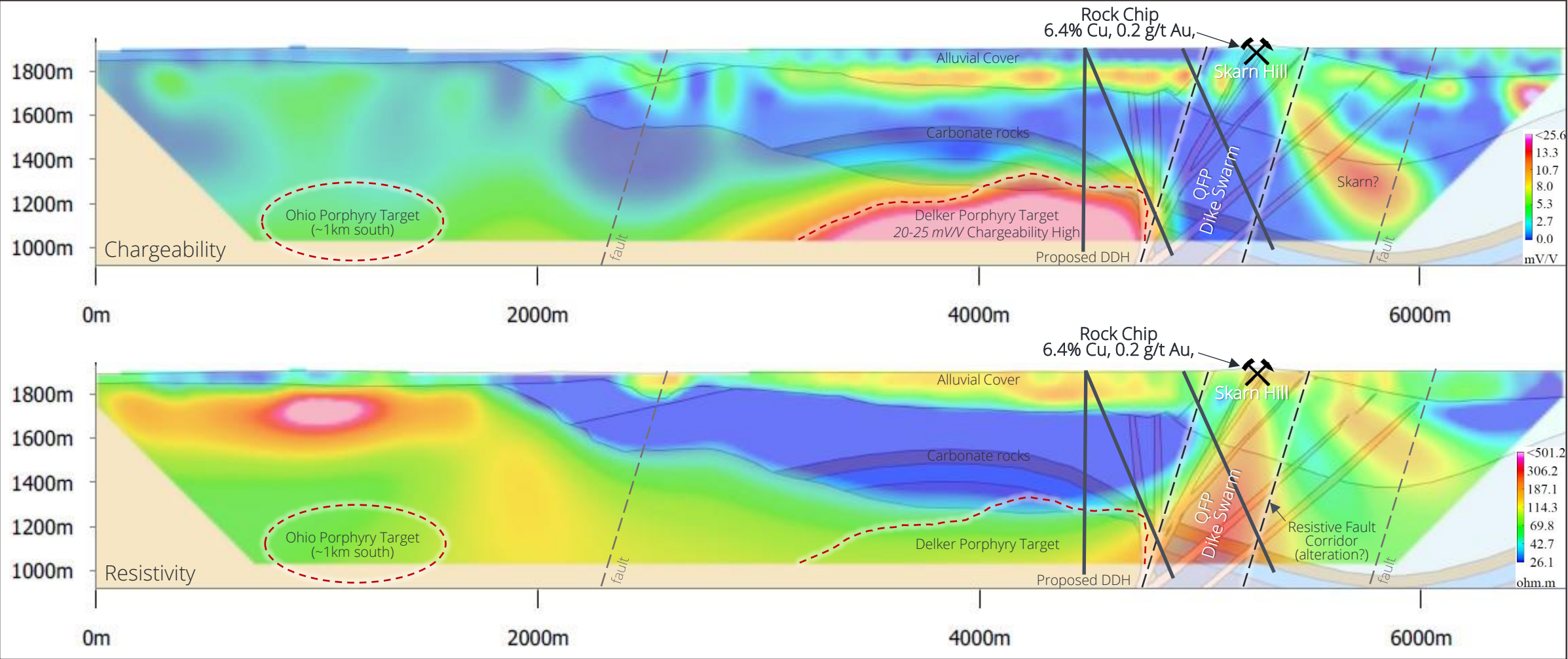
- IP survey was designed as a first-pass survey over both the Delker and Ohio porphyry targets
 - Additional lines completed in late 2024 to connect targets across the basin and increase survey resolution prior to initiating maiden drill program in Q1 2025



DELKER TARGET

IP Line 71500N X-Sections

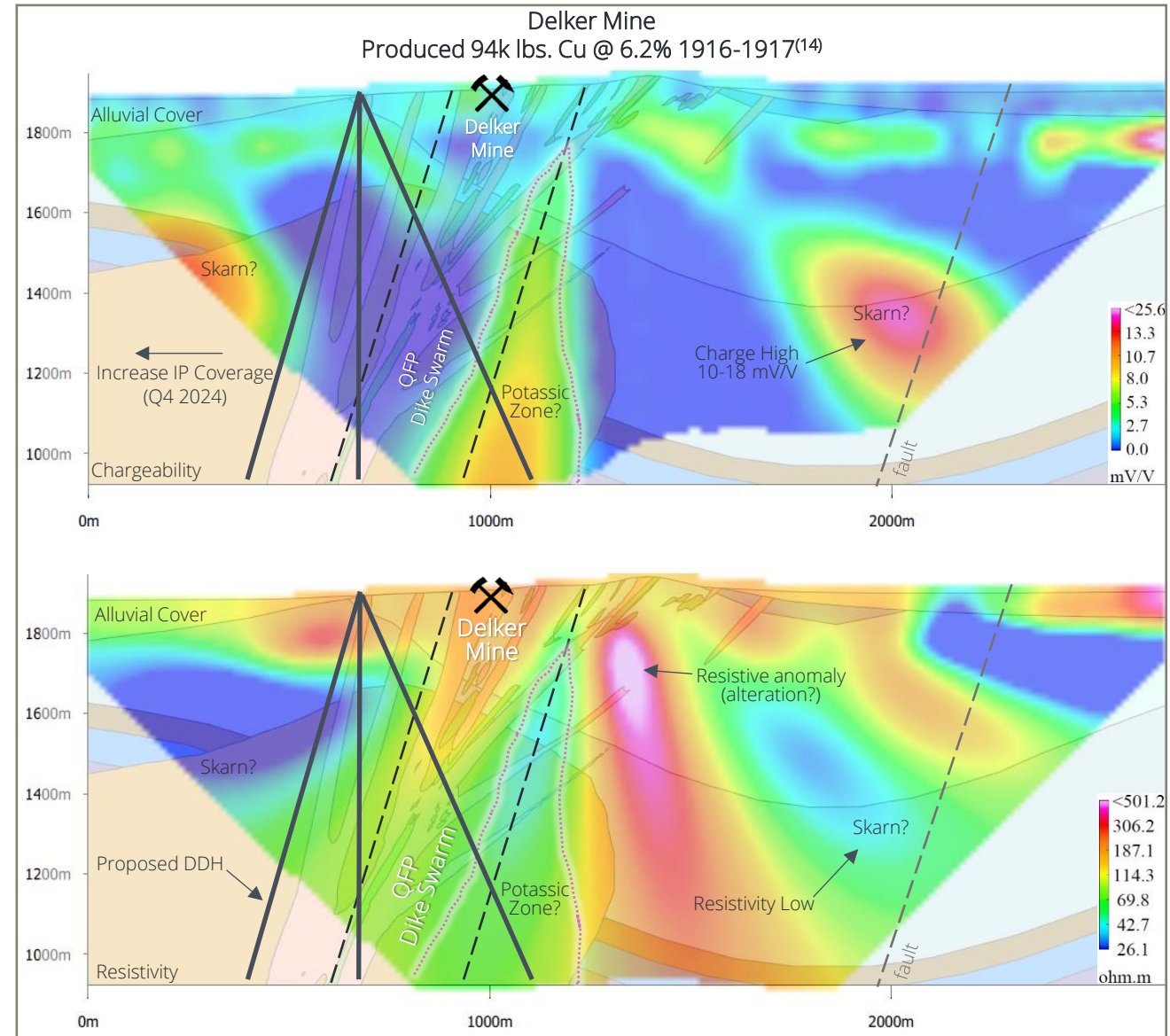
- Strong chargeability anomaly (25 mV/V = ~5x background) down-dip of the historical Skarn Hill Adit supports Ridgeline's interpretation that there is a blind porphyry target feeding the Delker Mine trend (2+ km of strike)



DELKER TARGET

IP Line 72900N X-Section

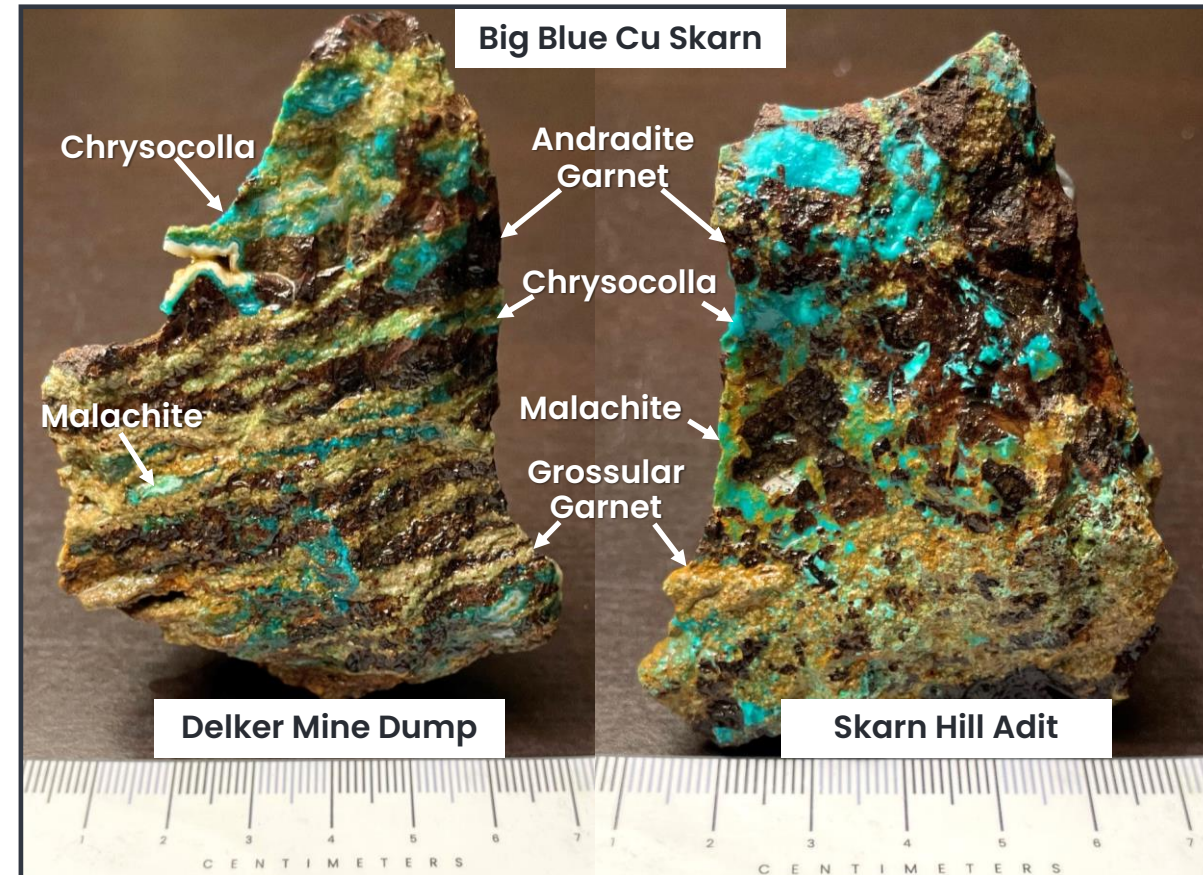
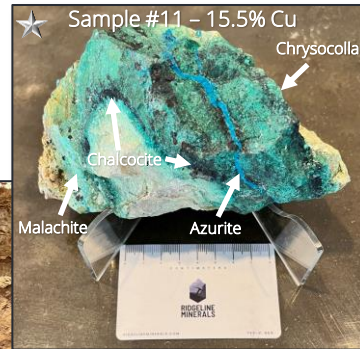
- Subtle chargeability high beneath the Delker Mine parallels the QFP dike swarm and increases in intensity at depth
 - Interpreted as the potential potassic core (chalcopyrite - bornite - magnetite \pm gold - molybdenum) feeding the high-grade Cu skarn at the Delker Mine
 - Partially oxidized CP-BN in skarn noted ~1.2km south at Skarn Hill
 - Chargeability highs interpreted as possible skarn bodies flank both sides of the QFP dike swarm/potassic core
- Highly resistive anomaly parallels the interpreted potassic core and may represent calc-silication



BIG BLUE

Delker Porphyry Target – Cu Skarn

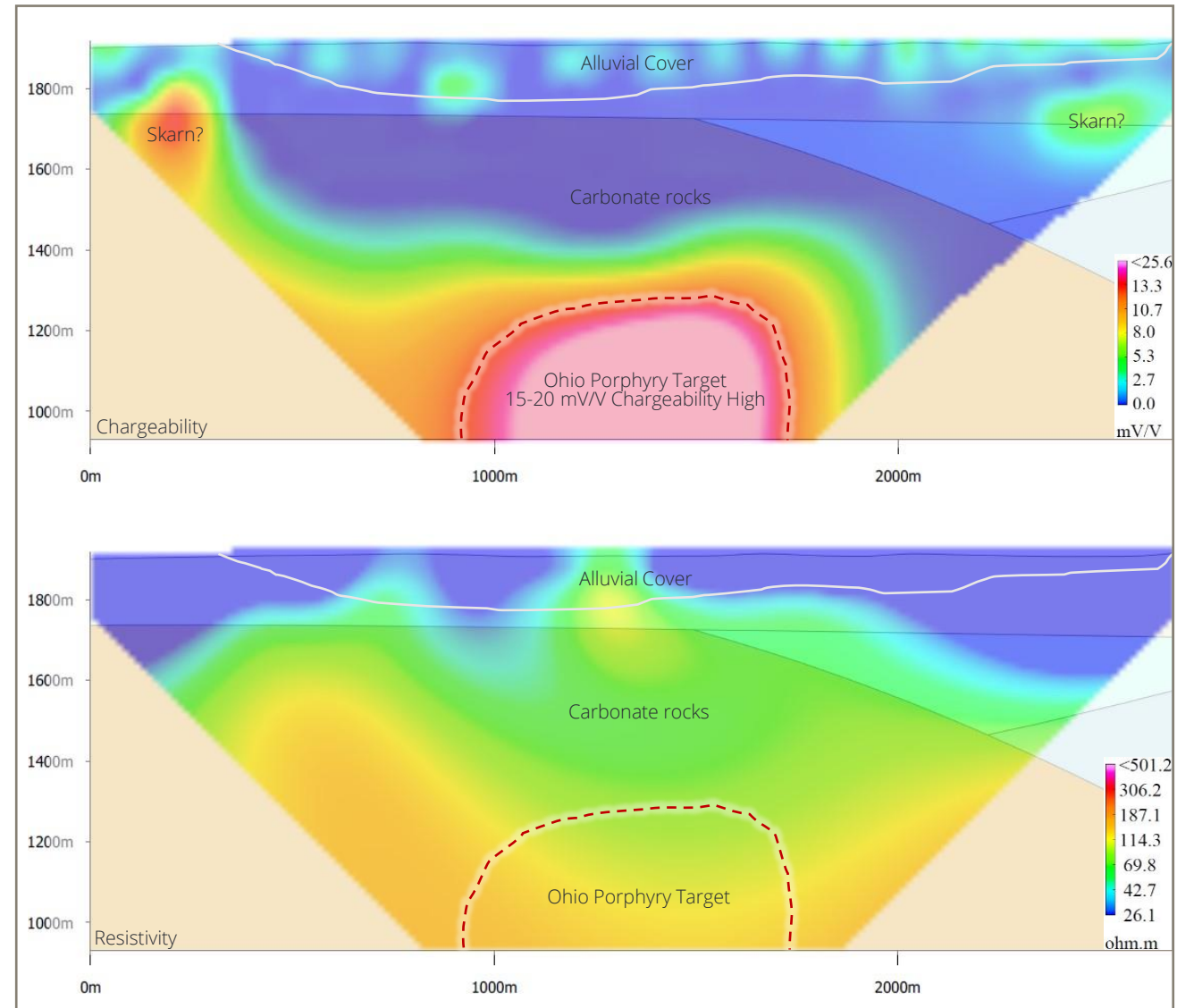
- Mining at the Delker Mine targeted enriched oxide Cu skarn within 5 meters of the surface
- Historical operators did not explore at depth to target the potential porphyry Cu-Au source



OHIO TARGET

IP Line 70250N X-Section

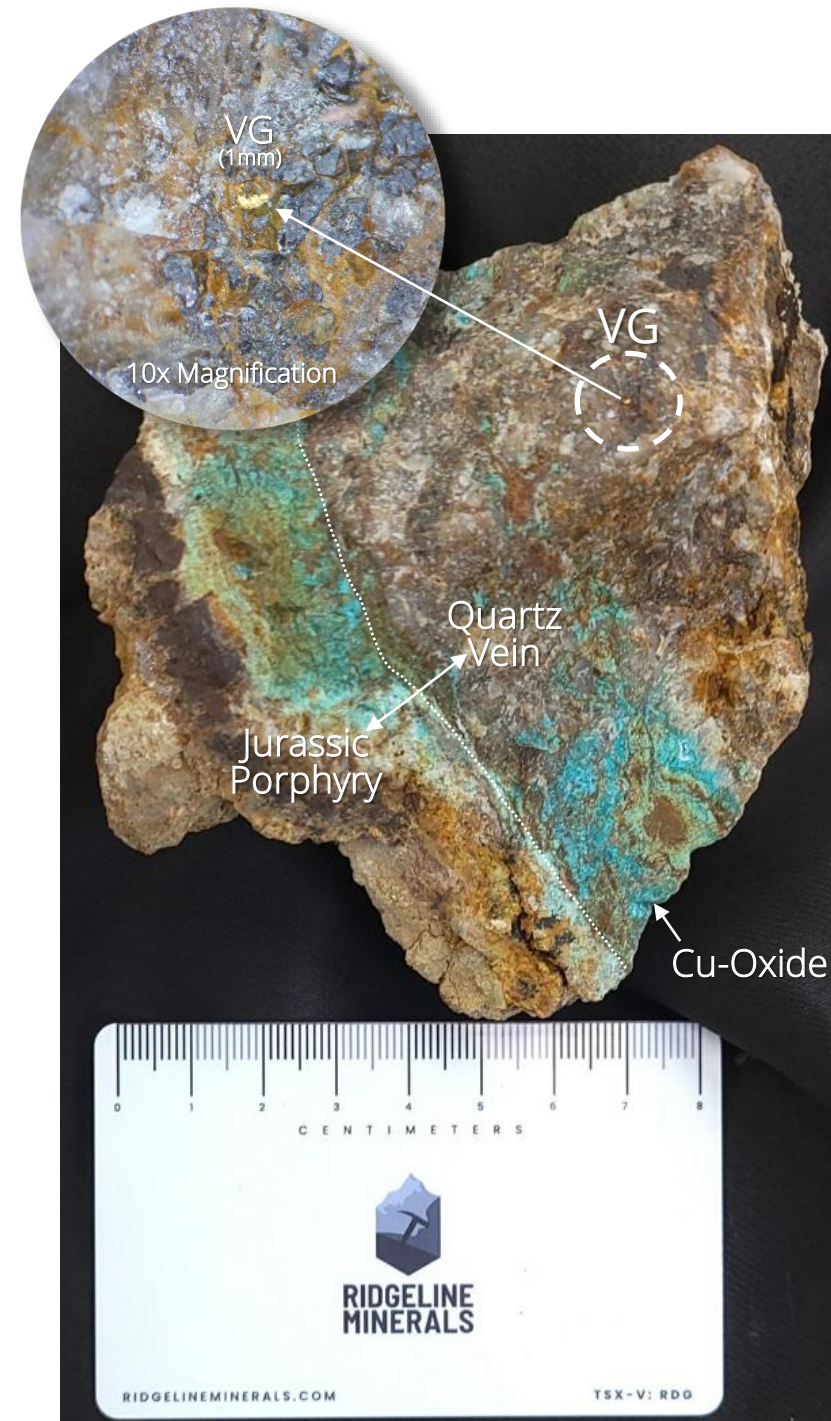
- Strong chargeability high (15-20 mV/V) that is ~800m wide to the E-W at the Ohio target exhibits a coincident magnetic anomaly (slide #30) that suggests potential for a deeper porphyry source
 - Ohio chargeability anomaly is interpreted as either a faulted off portion of the Delker porphyry or a standalone porphyry center (potential cluster)
 - High-grade Cu-Au samples <1km north of Ohio target returned up to **16.3 g/t Au** and **3.9% Cu** with visible gold in qtz. veins
- Resistivity results are low resolution but do show a widespread, weak-moderate resistive anomaly at depth



BIG BLUE

Ohio Porphyry Target – VG

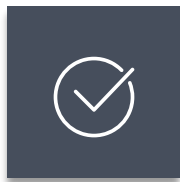
- Team has identified Visible Gold (VG) with strong copper oxides within quartz veins at the Ohio Target
- Quartz veins occur as northwest trending discrete and stockwork vein sets that crosscut the outcropping Jurassic age granodiorite
 - Mineralized quartz veining interpreted as an upper-level expression of the proposed Ohio porphyry target at depth
 - The outcropping granodiorite represents the only surface exposure in the Ohio Target area with the proposed porphyry target located ~1km south and under alluvial cover



PIPELINE PROJECT

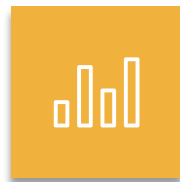
Atlas

5.0 km² Land Package
Carlin-Type Oxide Au



100% OWNED

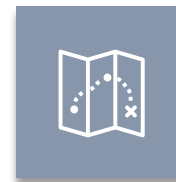
5.0km² land package covers a 3km long surface gold anomaly with private rancher and NGM "checkerboard" ground on all sides



OXIDE GOLD

Multi-gram Au in rock chips at surface with highlights including:

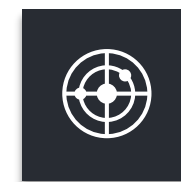
- Atlas North: 3.2 g/t Au, 2.9 g/t Au and 7.7 g/t Au
- Atlas South: 0.9 g/t Au, 0.8 g/t Au, and 0.3 g/t Au



THE OPPORTUNITY

Untested prospect with identical host rocks to Orla Mining's 1.0+ Moz Dark Star deposit

- Potential to discover a 1.0-2.0 Moz oxide Au deposit @ > 0.5 g/t avg. grade



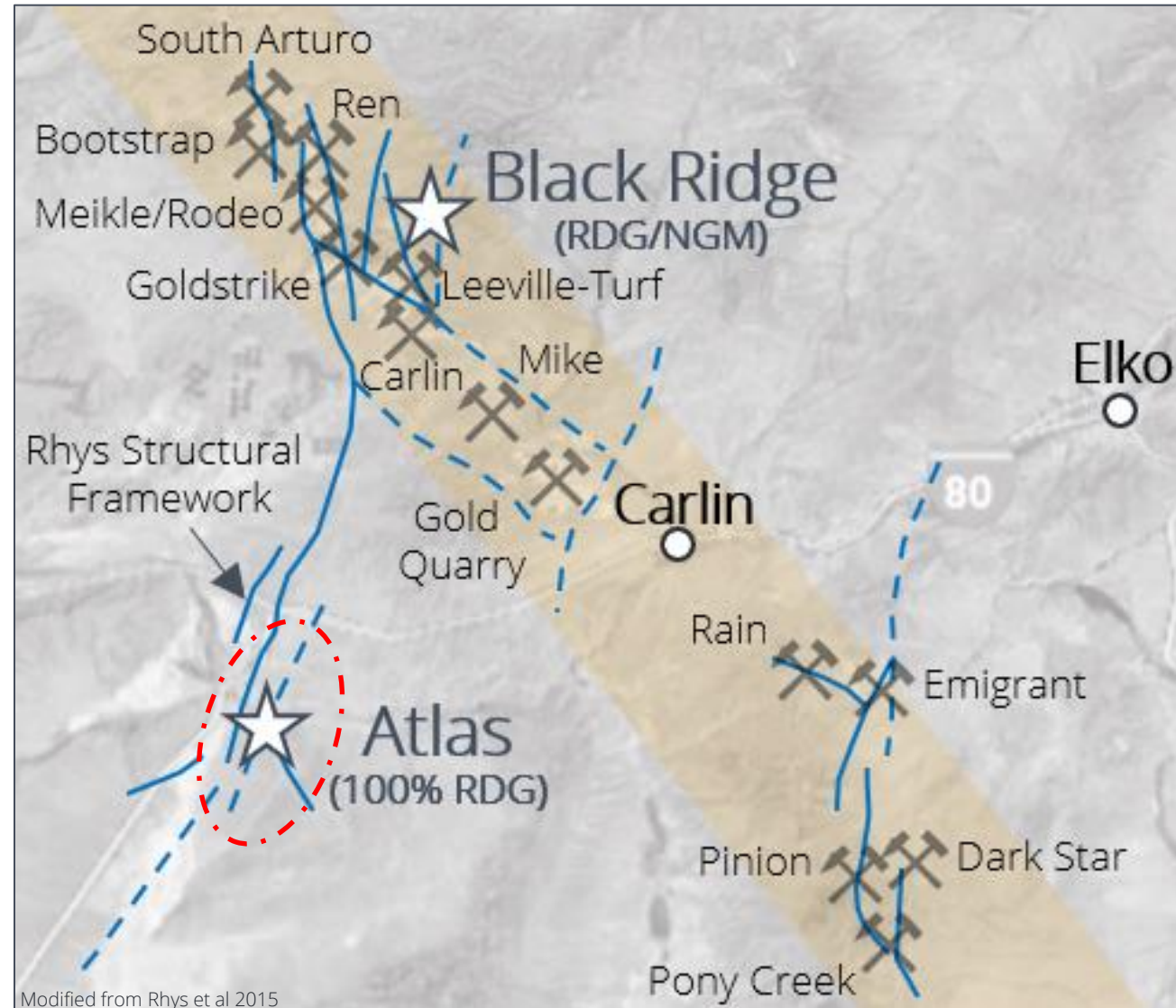
2025 OBJECTIVE

- Q1 - Permitting
- Q2 - Maiden drill program (3-5 holes)

ATLAS

Carlin Trend Framework

- Regional fault structures, (Rhys et al 2015) suggest there are two parallel N/NE gold trends branching off the North Carlin Trend
 - Rain/Emigrant to Dark Star/Pony Creek (8.0+ Moz. Au trend)
 - Atlas (undrilled target)
- Northwest and N/NE fault intersections are key controls for gold deposition across the Carlin Trend

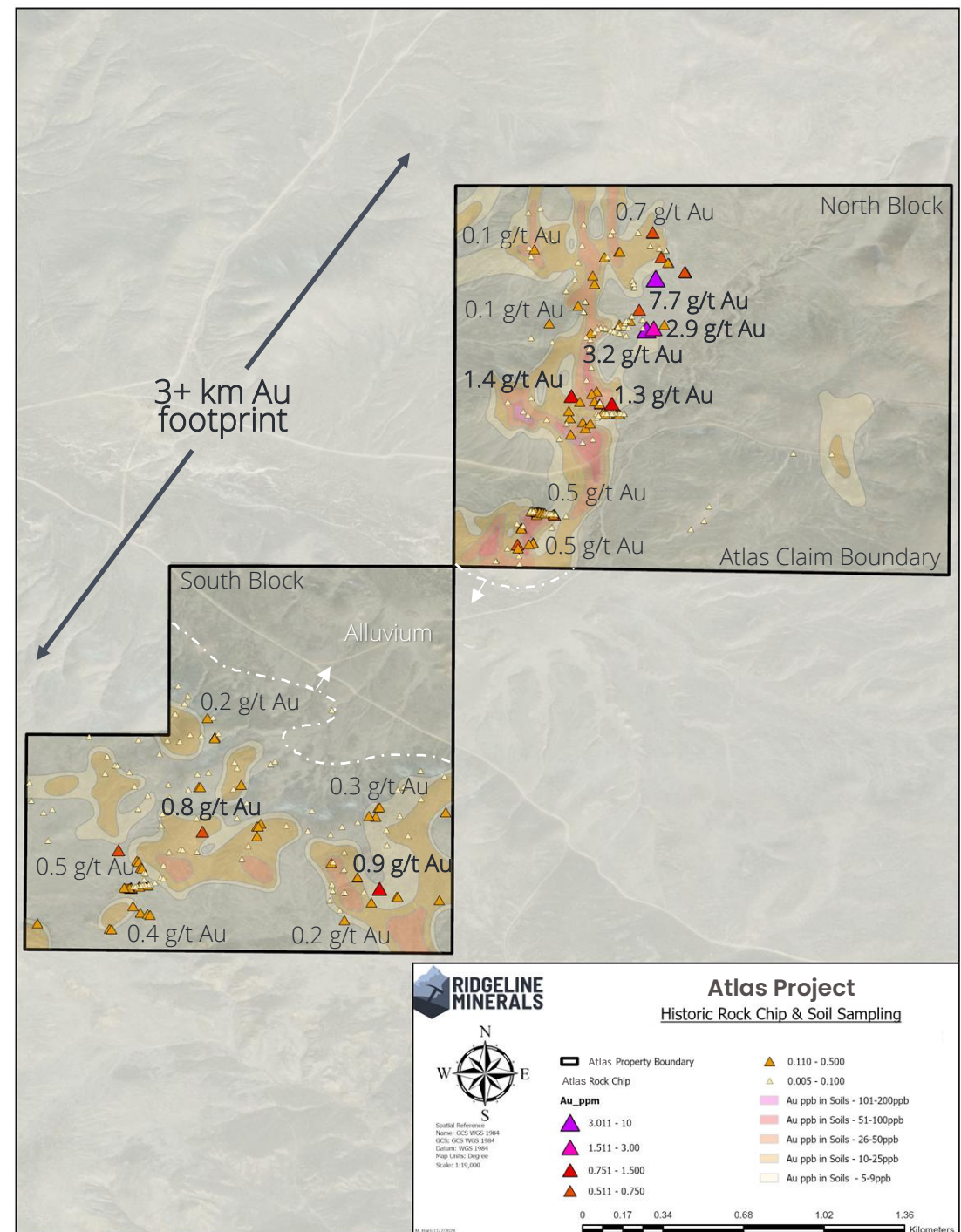


ATLAS

Oxide Gold Target

- Historically explored with extensive surface geochemical data but never drilled
- Carlin-Type Au system is hosted in Penn/Perm rock package (historically considered a poor host)
 - Gold Standard Ventures 2016 discovery of the Dark Star Deposit (~1.0Moz Au @ ~0.9 g/t) in Penn/Perm rocks changed that perception
 - Discovery Hole 126.2m @ 3.95 g/t Au

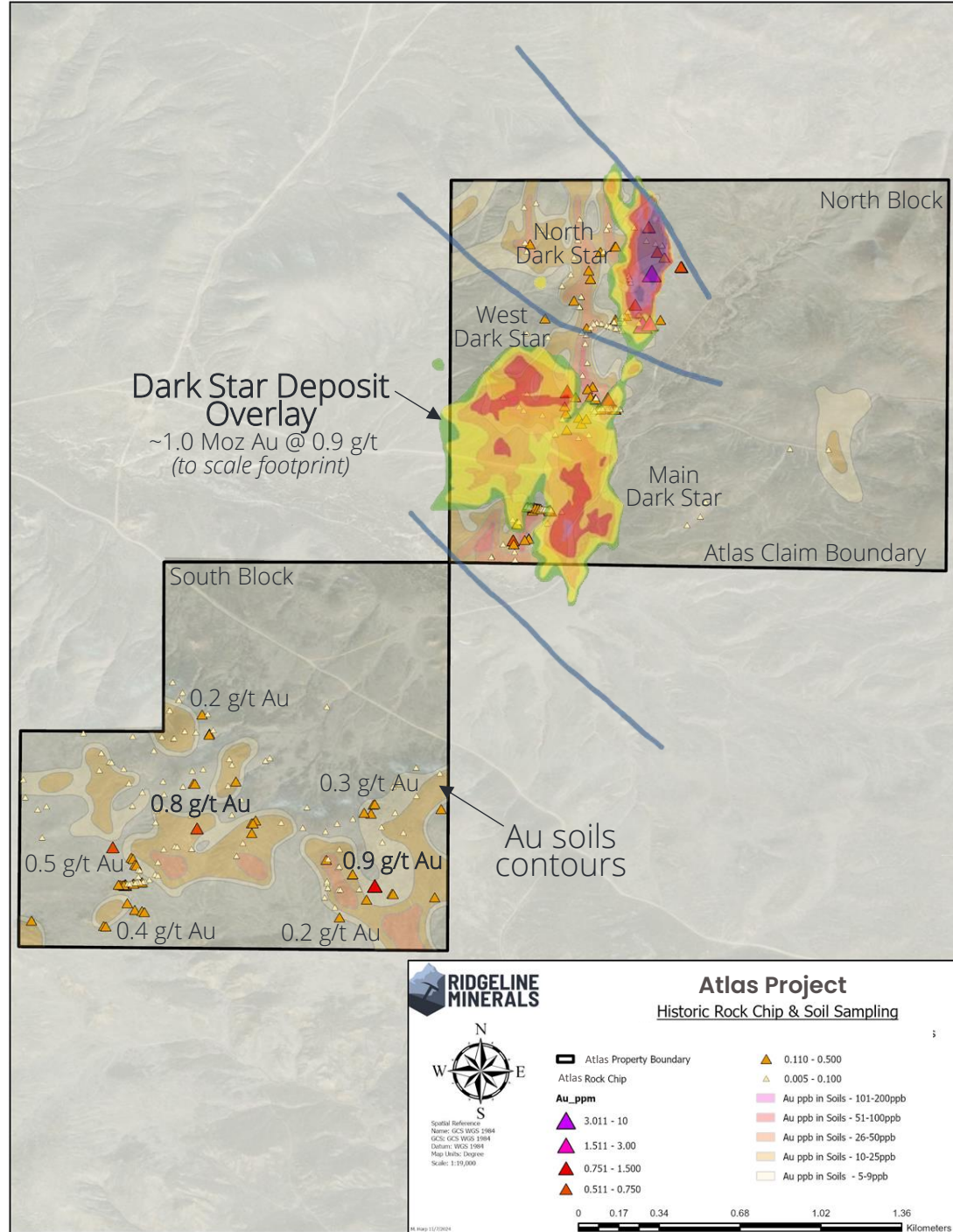
*discovery was made by RDG VP. Ex. Mike Harp



ATLAS

Dark Star Analogue

- Using Dark Star as a direct analogue, Atlas North exhibits the scale potential to host an open-pit, oxide Au deposit
- Atlas South exhibits a similar mineralized footprint with soils and rock chip mineralization oriented in the NW direction instead of N/NE like at Atlas North



**Qualified Persons. Michael Harp, CPG., Vice President, Exploration, is the Qualified Person as defined by National Instrument 43-101 and has reviewed and approved the technical data in this presentation. The Company does not make any representation as to the accuracy of third-party information sources. In particular, references to other issuers and their mineral projects ("comparables") are for illustrative purposes only and there can be no assurances that the Company will achieve comparable results. Mineralization hosted on adjacent and/or nearby and/or geologically similar properties is not necessarily indicative of the potential mineralization hosted at Atlas*



PARTNER PROJECTS

Swift

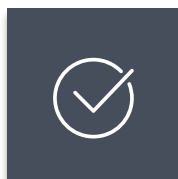
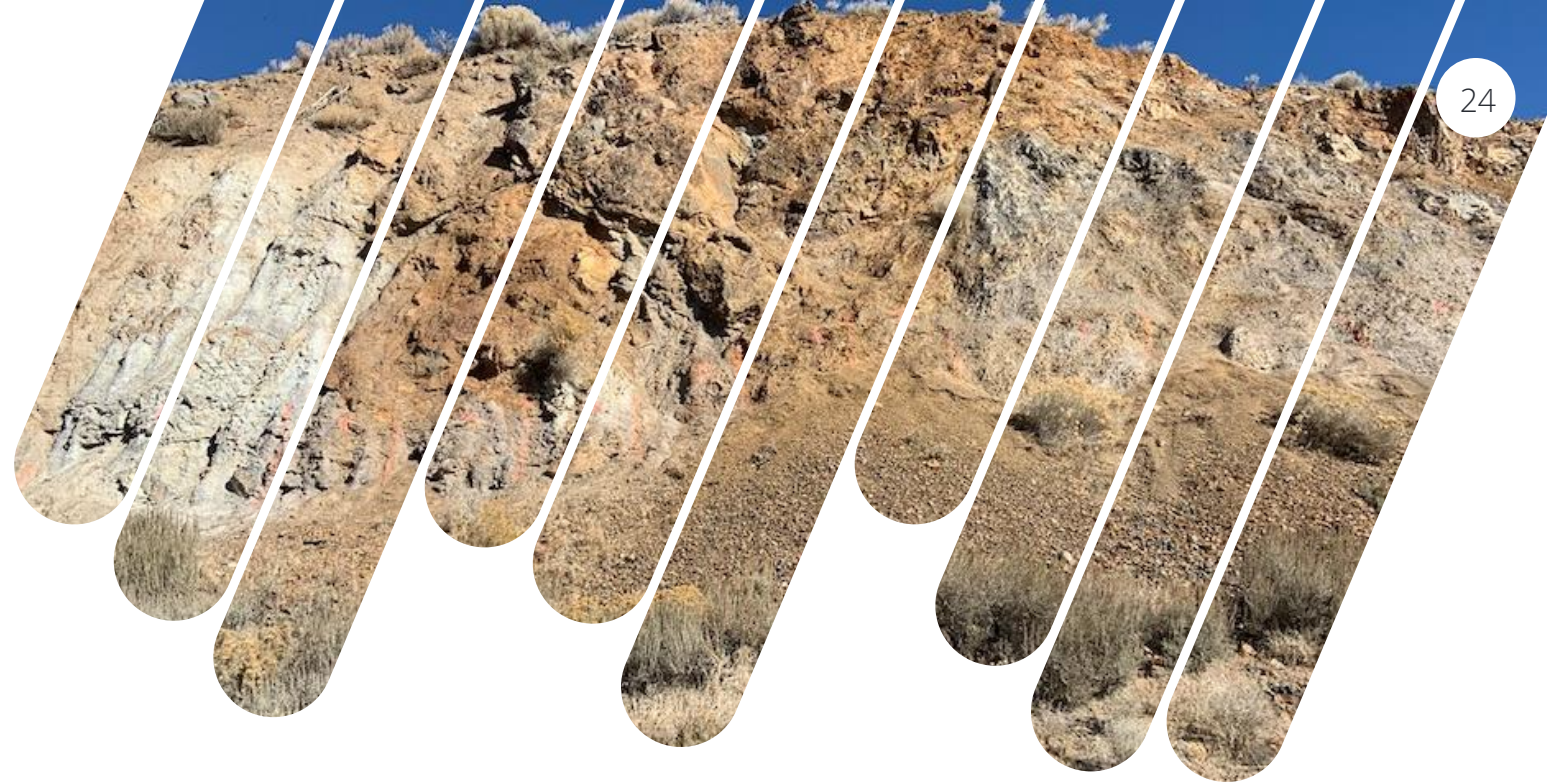
Optioned – Nevada Gold Mines

75 km² Land Package

Carlin- Type Au-Ag

VERIFY

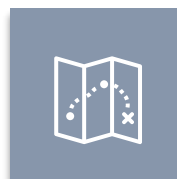
[Click Here](#)



NGM EARN-IN

US \$30M earn-in agreement signed with NGM ([09-22-2021 PR](#))

- NGM has incurred **US \$8.2M** in exploration expenditures through Q3 2024



LOCATION

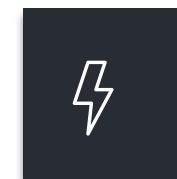
District-scale land package on the Cortez Trend. ~7km NW of the Nevada Gold Mines owned Cortez Complex⁽¹⁾



THE OPPORTUNITY

NGM targeting a 5+ Moz high-grade Au deposit. Earn-in validates **Tier-1 discovery potential**

- SW24-006 high-grade zone returned **1.1m @ 10.4 g/t Au** within **2.7m @ 7.0 g/t Au**



2024 OBJECTIVE

\$3.0M NGM exploration budget drill up to 3 deep holes in 2024

- New high-grade discovery developing at the Southwest Swift target (SW24-006)

SWIFT

Nevada Gold Mines Earn-In

- Partnering with NGM at Swift eliminates the high exploration risk and cost associated with deep drilling
- Deal structure provides Ridgeline with exposure to Swift across all levels of project development with zero corporate dilution
- NGM aggressively exploring project with US \$8.2M spent through Q3 2024



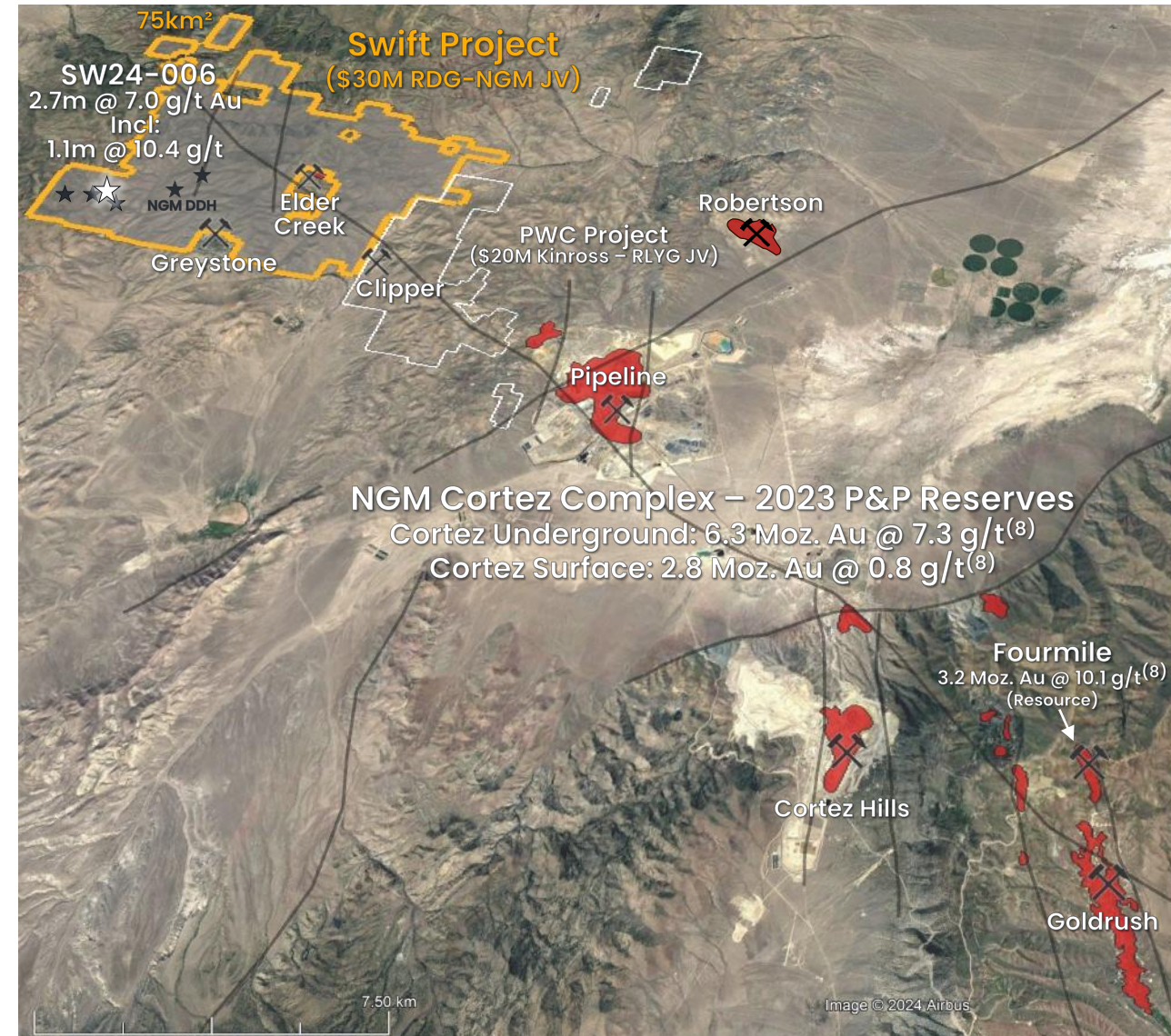
SWIFT

Discovery Potential

- First six NGM framework holes (2021-2024) at Swift have hit significant gold intercepts including:
 - 1.1m @ 10.4 g/t Au within 2.7m @ 7.0 g/t Au in SW22-006
 - 51.1m @ 0.19 g/t Au,
Incl: 1.5m @ 1.51 g/t Au in SW22-002
 - 48.8m @ 0.45 g/t Au,
Incl: 3.4m @ 1.92 g/t Au in SW22-003

Fourmile Discovery (Barrick Gold, operator of NGM)

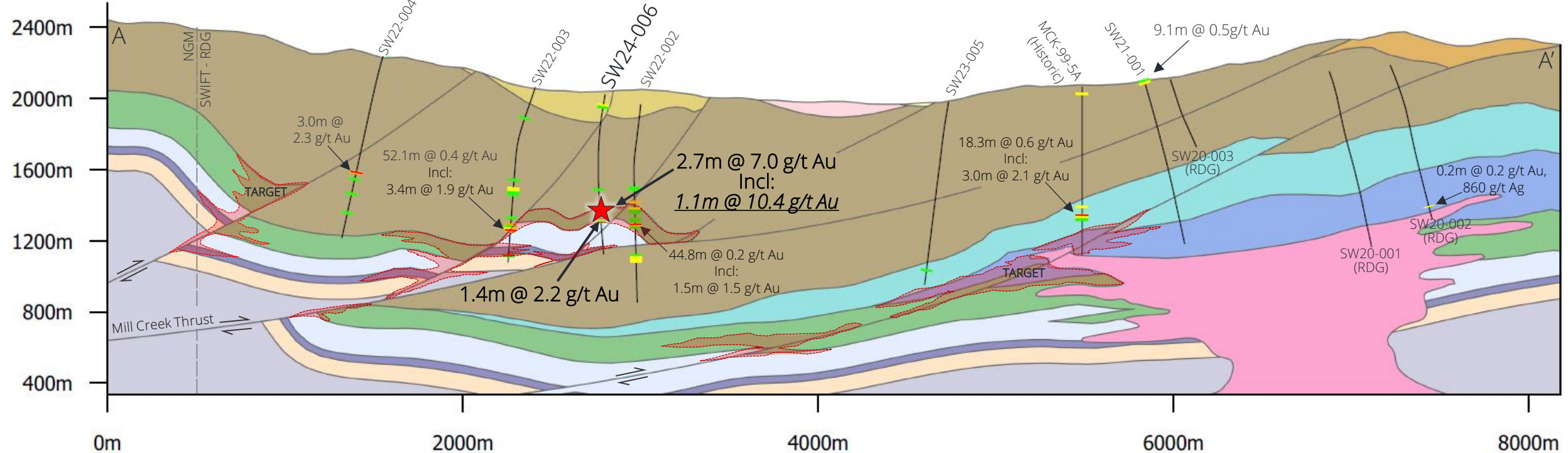
- First 10 framework holes at Fourmile missed... the 11th hole hit 5.8m @ 49.7 g/t Au
- Now a 3.2Moz. Au MI&I resource @ 10.1 g/t⁽⁸⁾ as of Q4, 2023



SWIFT

Schematic Long Section A-A'

- SW24-006 returned the highest-grade drill results in project history including 1.1m @ 10.4 g/t Au within 2.7m @ 7.0 g/t
- Comparable grades to the P&P reserve grade of 6.3Moz Au @ 7.27⁽⁸⁾ for NGM's Cortez Complex Underground



Stratigraphy

Alluvium	Wenban Fm.
Tertiary Volcanics	Roberts Mtn. Fm.
Elder Sandstone	Hanson Creek Fm.
Valmy Quartzite	Slope Facies Limestone (new horizon?)
Valmy Fm.	Eureka Quartzite
Horse Canyon Fm.	Hamburg Dolomite

Drill Trace (Au g/t)

≤ 0.2	Target
≤ 0.5	Proposed DDH
≤ 1.0	Fault Zone
≤ 5.0	
≤ 10.0	
> 10.0	



SWIFT

SW24-006 High-Grade Zone

SW24-006 Mineralized Intercept
2.7m @ 7.0 g/t Au including 1.1m @ 10.4 g/t Au



SW24-006 Core Photo Source: modified from Nevada Gold Mines

Click [HERE](#) for a full table of Swift Assay Results

Higher Au grades related to zones of strong decalcification, silicification and sulfidation of limestone host rocks (i.e. "Carlin-Type" mineralization)



Barrick Q3 2024 Results Presentation

Nevada Gold Mines... Growth and Exploration

Carlin

- **Leeville** continues to provide world class growth as underground drilling consistently delivers significant results, including **48.5m @ 15.00g/t** and **35.7m @ 20.97g/t Auⁱ**
- New growth prospects being defined in the Greater Leevilleⁱⁱ area, highlighted by multiple open corridors planned for aggressive follow-up in 2025

Cortez

- Recent drilling at **Hanson**, beneath CHUG, confirms along-strike continuity over 1.2km for well defined "Heart of Hanson" orebody
- Targeted framework drilling at Swift has shown first indications of high grade within the broad alteration cell

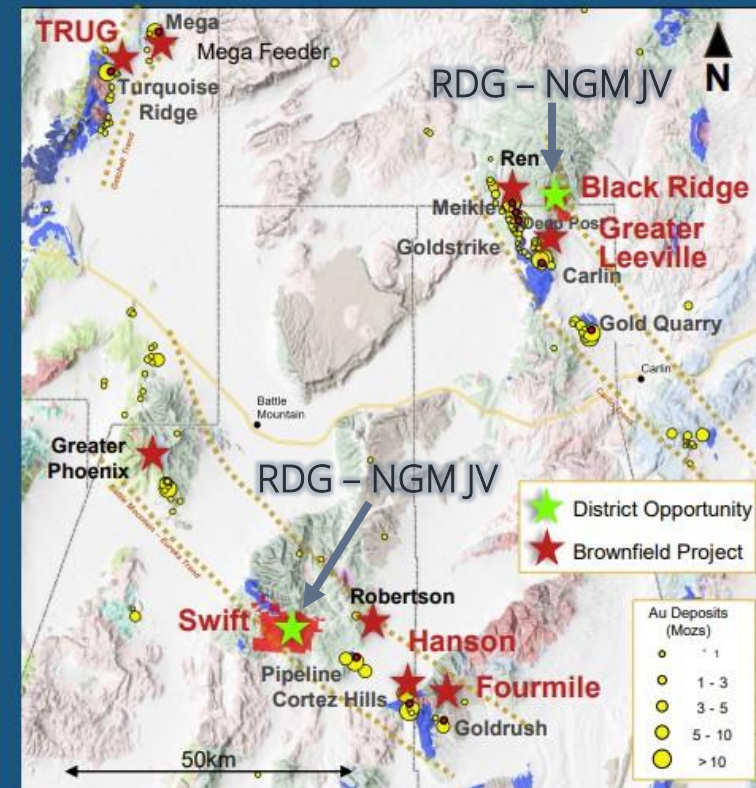
Fourmile

- Delivered several high-grade intercepts, strengthening our upside view and confirming a path towards **updated resource declaration with PFS decision¹¹**

Turquoise Ridge

- Model upgrades at TRUG deposit led to definition of several new near-mine targets within and on the margins of the current orebody, testing NE oriented folds that remain open in multiple directions

Nevada Gold Mines...near-mine Growth and Exploration continues to **identify** and **grow** exciting expansion opportunities, both proximal to existing infrastructure as well as larger step-outs with a view to provide the next generation of potential Tier One deposits



PARTNER PROJECTS

Selena

Optioned – South32

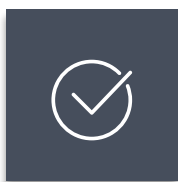
39 km² Land Package

Carbonate Replacement Deposit

Ag-Pb-Zn-Au ± Cu-W

VERIFY

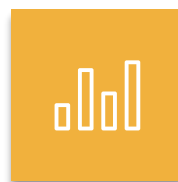
[Click Here](#)



SOUTH32 EARN-IN

US \$20M earn-in agreement signed with S32 ([08-22-2024 PR](#))

- 39km² land package located directly adjacent to Freeport-McMoRan's US \$33M earn-in at the Butte Valley Porphyry



HIGH-GRADE

Chinchilla Zone

- 6.1m @ 480 g/t Ag, 12.0% Pb, 6.4% Zn, 0.1 g/t Au, in SE22-045

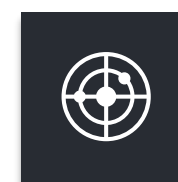
Juniper Zone

- 7.7m @ 725.2 g/t Ag, 1.3% Pb, 0.9% Zn 1.5 g/t Au, in LB-072



THE OPPORTUNITY

Define a large open-pit and underground CRD deposit (deposit analogues include Hilltop, Hermosa-Taylor, Cinco De Mayo,)



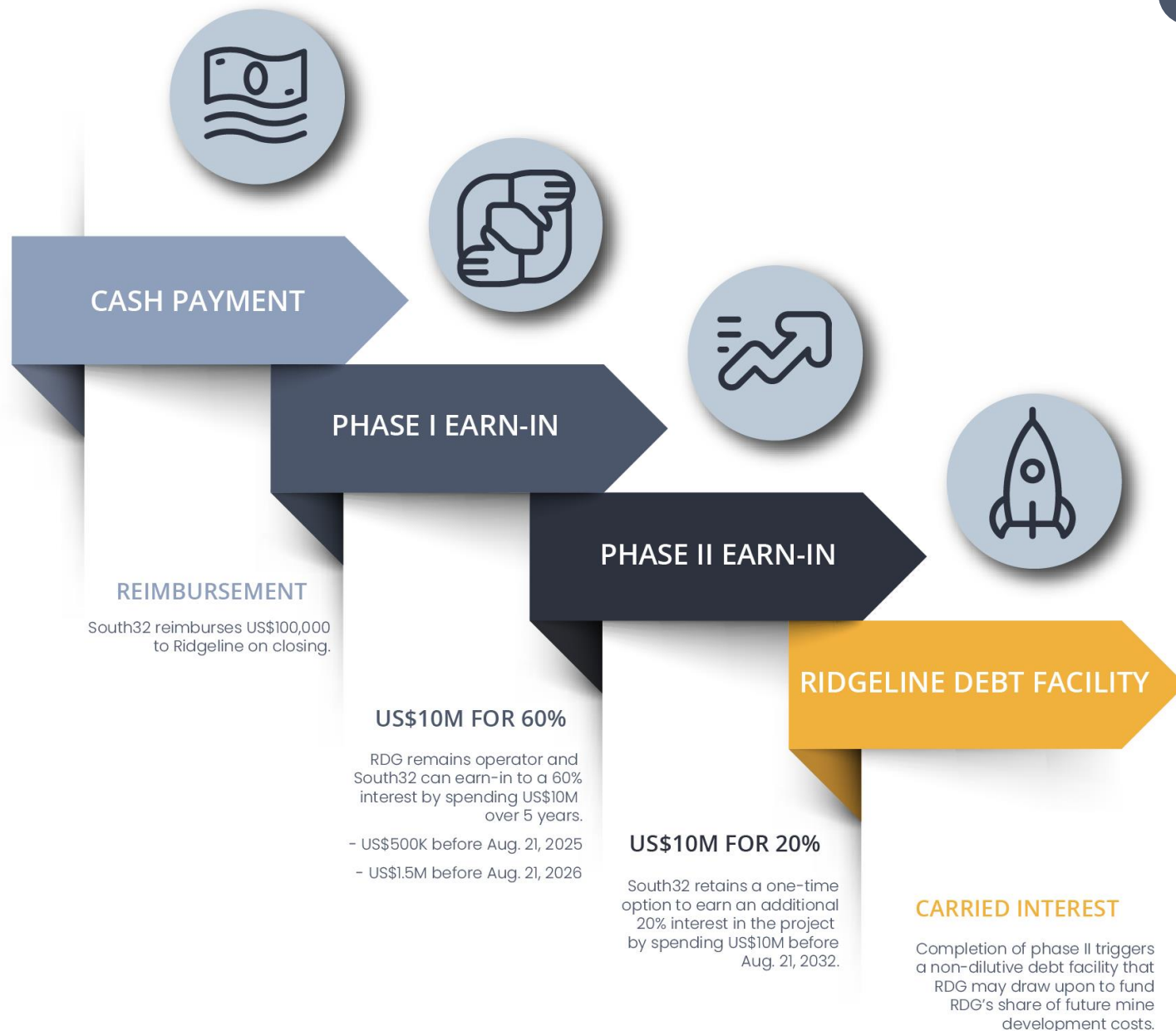
2024 OBJECTIVES

- Complete MT geophysics survey over Chinchilla Sulfide target
- Drill & case water well to support 2025 drill program

SELENA

South32 Earn-In

- Partnering with South32 at Selena secures the necessary funding for deep drilling (1,000+ meters) at the high-priority Chinchilla Sulfide CRD target
- Deal structure provides Ridgeline with a 40% to 20% stake in Selena dependent on Phase I & Phase II milestones
 - RDG “fully-carried” to production (20%) in the event the Phase II Ridgeline Debt Facility is triggered
- Ridgeline remains project operator throughout Phase 1 (10% mgmt. fee)



To view the August 22, 2024, Press Release click [HERE](#)

SELENA

Discovery Potential



Ridgeline's discovery at Selena suggests the potential to define a system of similar scale & grade to other significant CRD discoveries in the US and Mexico

Selena (RDG – South32 Earn-In) → OPEN 3.7km + Strike
 Discovery Holes (2021-2022 ⁽²⁾)
 6.1m @ 480 g/t Ag, 6.4% Zn, 12.0% Pb, 0.1 g/t Au – SE22-045
 4.6m @ 421.0 g/t Ag, 3.7% Zn, 4.4% Pb, 0.6 g/t Au – SE21-024

Hilltop (I-80 Gold) → 3.0km + Strike
 Discovery Hole (2022⁽¹⁶⁾)
 28.3m @ 515.3 g/t Ag, 10.5 % Zn , 28.9 % Pb, 0.9 g/t Au – iRH22-43

Hermosa - Taylor (South32) → 4.0km + Strike
 Pre-Feasibility Study (2023⁽¹⁰⁾)
 153 MT @ 77.0 g/t Ag, 3.5% Zn, 3.8% Pb

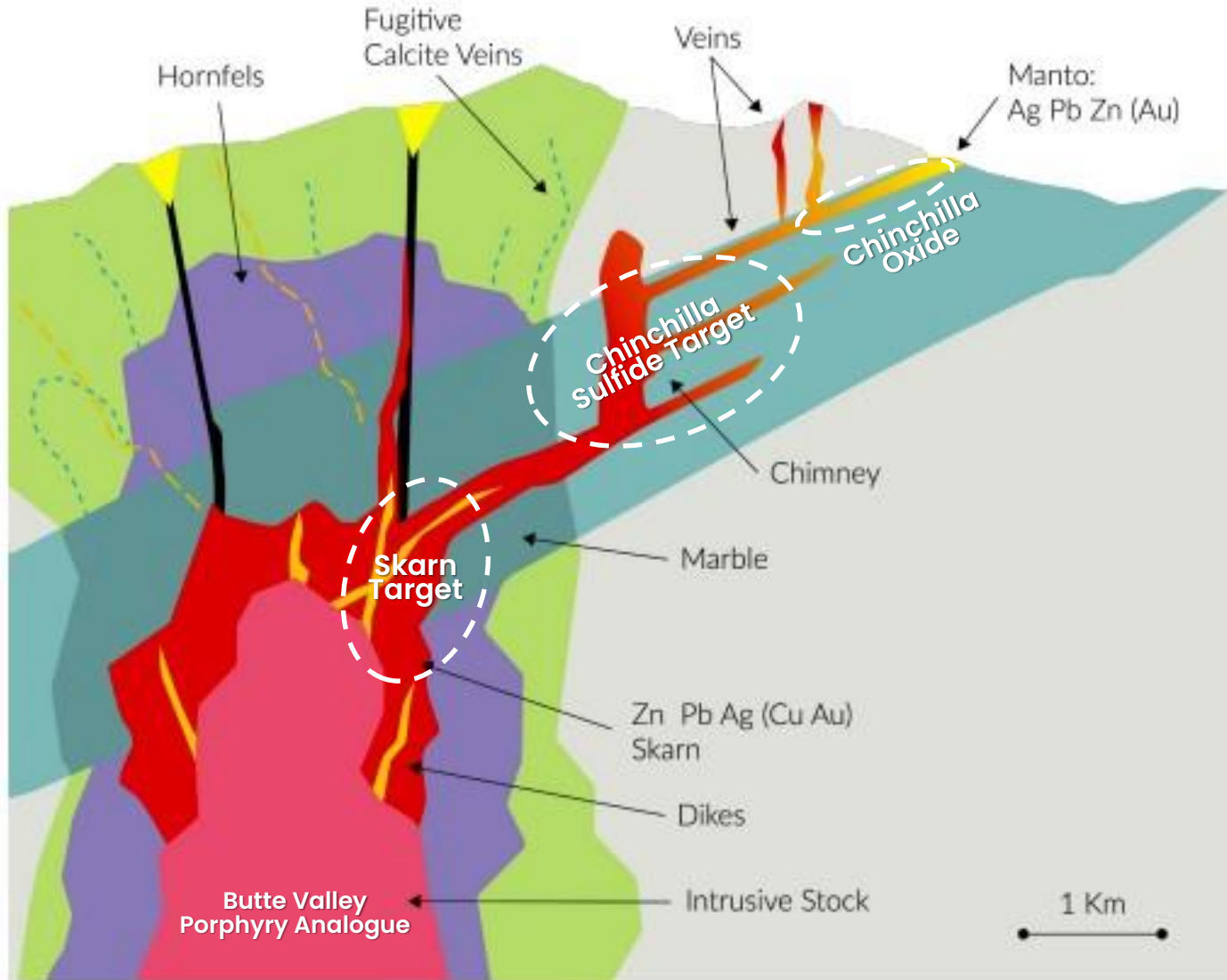
Cinco De Mayo (Mag Silver) → 3.0km + Strike
 Inferred Mineral Resource (2012 ⁽¹²⁾)
 12.5 MT @ 132.0 g/t Ag, 6.5% Zn, 2.9% Pb, 0.2 g/t Au

**Qualified Persons. Michael Harp, CPG., Vice President, Exploration, is the Qualified Person as defined by National Instrument 43-101 and has reviewed and approved the technical data in this presentation. The Company does not make any representation as to the accuracy of third-party information sources. In particular, references to other issuers and their mineral projects ("comparables") are for illustrative purposes only and there can be no assurances that the Company will achieve comparable results. Mineralization hosted on adjacent and/or nearby and/or geologically similar properties is not necessarily indicative of the potential mineralization hosted at Selena*



SELENA

Selena CRD Checklist



After Megaw 1988, 1999, 2020

Features Common to all Known Large CRD Deposits

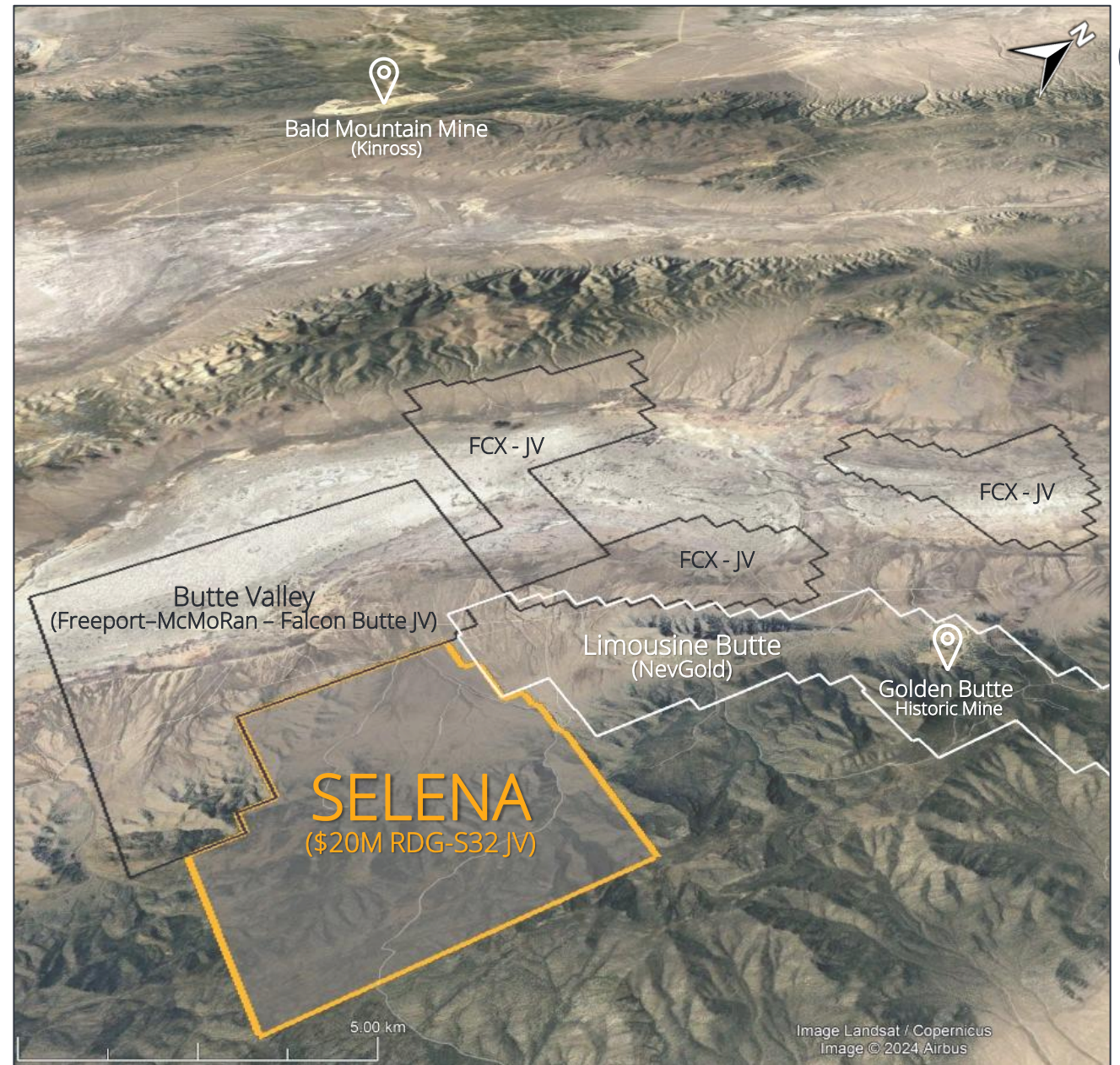
- Location – Main Street CRD/Porphyry belt
- Location – Top of carbonate section (room to grow)
- Ag (+400 g/t), Au-Zn-Pb-Cu ± Mn-As-W...
- Multiple mineralization and alteration stages
- Large-scale zoning
- Presence of felsite dikes
- Presence of skarn
- Discordant geometry (= not syngenetic)
- Replacement mineralization
- High iron sphalerite
- Pyrite pseudomorphs after pyrrhotite
- Molybdenum mineralization
- Granitic stock contact skarn = target

Megaw et al., 1996, 1998, 2020

SELENA

District-Scale Property

- 39km² contiguous land package in the historic Limousine Butte mining district in Nevada
- Shared boundary with the Butte Valley Porphyry, a US \$33M Freeport – McMoRan earn-in agreement with Falcon Butte Minerals (see October 3, 2022 Press Release [HERE](#))
 - Butte Valley drilled by FCX in 2023
 - FCX doubled land position in 2024
- Project historically explored for Au-Ag but unrecognized as a Porphyry Cu and Carbonate Replacement Deposit (CRD) until Ridgeline Minerals re-interpreted the deposit



SELENA

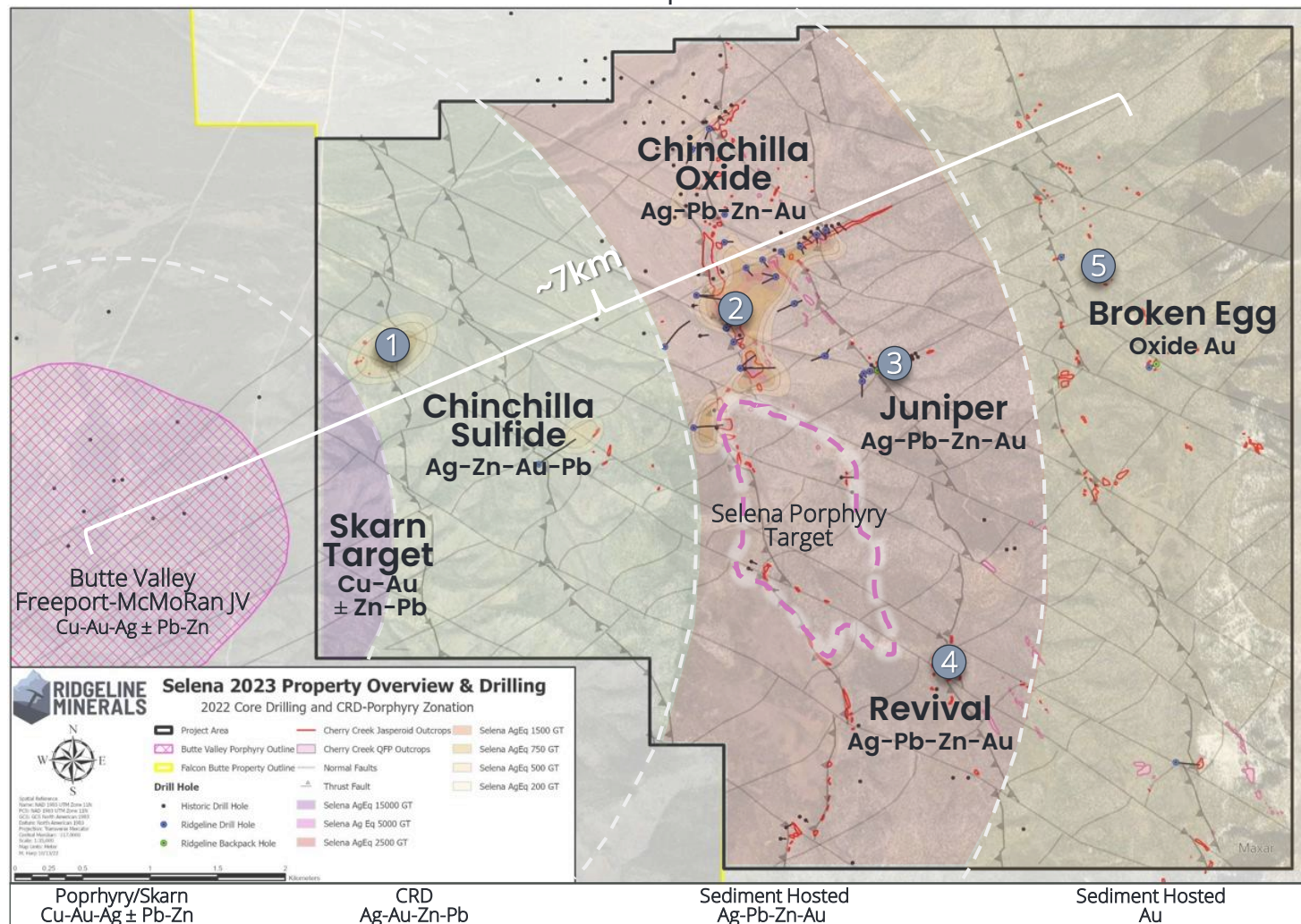
Porphyry Zonation

Multiple deposit types across 5 target areas

Highlight Drill Intercepts By Target

- 1 3.0m @ 40.2 g/t Ag, 7.0% Pb-Zn, 3.0 g/t Au - SE22-037
- 2 6.1m @ 480.0 g/t Ag, 18.4% Pb-Zn, 0.1 g/t Au (SE22-045)
4.6m @ 421.0 g/t Ag, 8.1% Pb-Zn, 0.6 g/t Au (SE21-024)
4.9m @ 229.7 Ag, 10.0% Pb-Zn, 0.2 g/t Au (SE23-050)
And 0.1m @ 3,335 g/t Ag, 1.3% Pb, 1.1% Cu, 3.4% W
- 3 1.0m @ 2,467.2 g/t Ag, 2.5% Pb-Zn, 5.1 g/t Au within
7.7m @ 725.2 g/t Ag, 2.2% Pb-Zn, 1.5 g/t Au (LB-072)
1.0m @ 1,195.2 g/t Ag, 0.3% Pb-Zn, 3.0 g/t Au (LB-070)
- 4 2.7m @ 34.57 g/t Ag, 1.4% Pb-Zn, 1.0 g/t Au (SEBP-005)
- 5 4.4m @ 0.68 g/t Au starting at 0.6m (SE22-044)

Selena Deposit Zonation

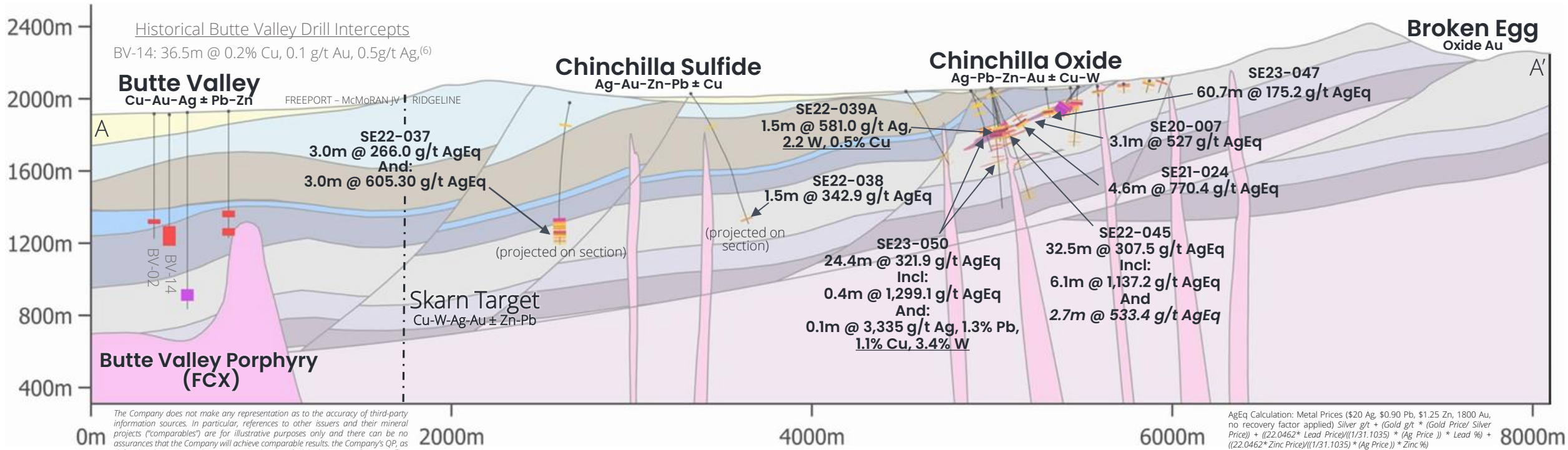


For a full table of Selena assay results click [HERE](#)

SELENA

Chinchilla Long Section A-A'

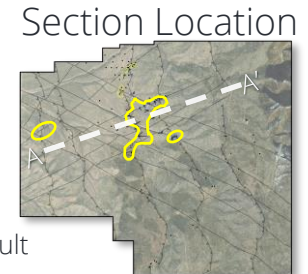
- Chinchilla zone exhibits both open-pit and underground potential over 3.7+ km of drilled strike that outcrops at surface



Stratigraphy	
	Alluvium
	Fanglomerate
	Porphyry
	Ely Limestone
	Chainman Shale
	Joanna Limestone
	Pilot Shale
	Guilmette Limestone
	Simonson Dolomite
	Porphyry Hornfels-Skarn

Mineralization	
	Au Oxide
	Ag-Au ± Pb-Zn Oxide
	Ag-Au-Pb-Zn Oxide
	Ag-Au-Pb-Zn Sulfide Target

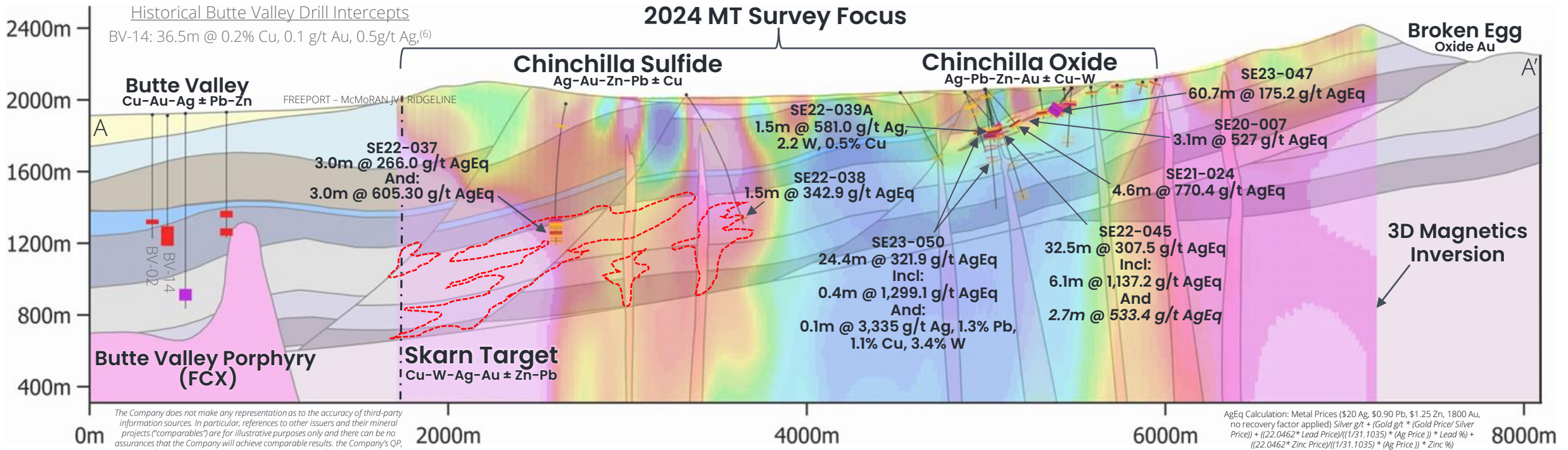
Drill Trace (AgEq g/t)	
	≤ 20
	≤ 50
	≤ 100
	≤ 200
	≤ 500
	Fault
	Inferred Fault



SELENA

Chinchilla Long Section A-A' – 3D Mag Inversion

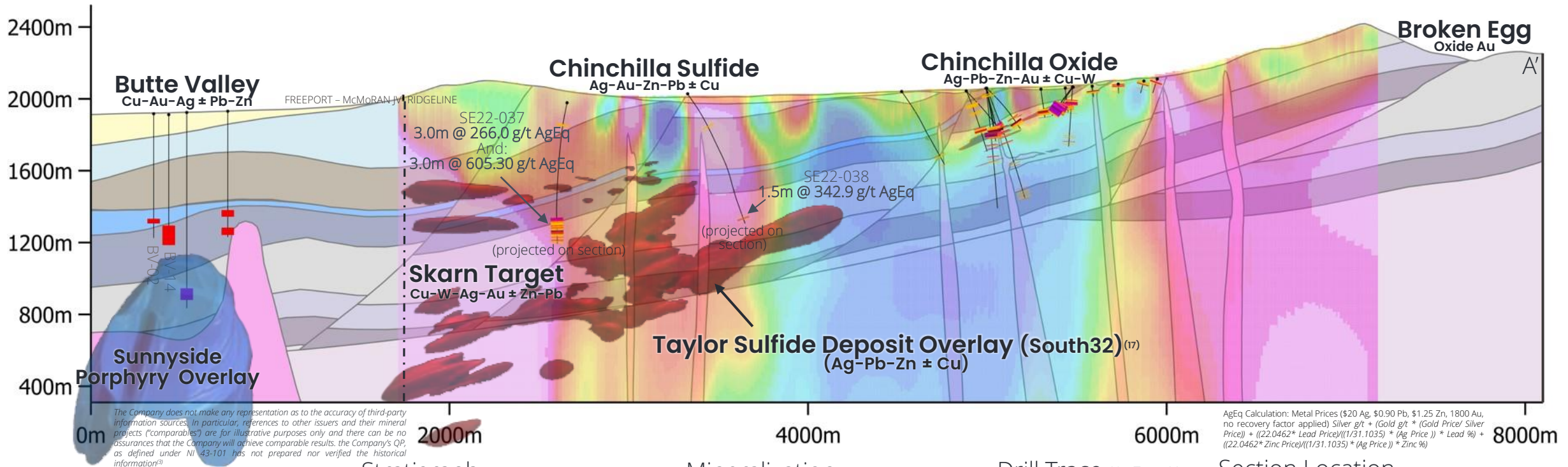
- Strong magnetic highs at the Skarn and Chinchilla Sulfide targets represent a priority exploration target
- November 2025 MT Survey (funded by South32) in-progress over the Chinchilla Sulfide to refine deep drill targets



SELENA

Chinchilla Sulfide Target vs Taylor Sulfide Deposit

- The Chinchilla Sulfide Target exhibits similar scale potential and proximity to a porphyry source as the Taylor Sulfide Deposit (South32 comparison is for illustrative purposes only) with hole SE22-037 & 038 highlighting discovery potential



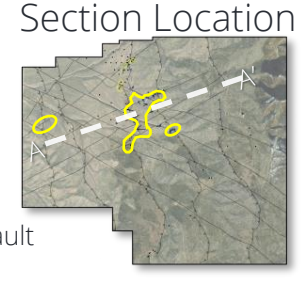
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AgEq Calculation: Metal Prices (\$20 Ag, \$0.90 Pb, \$1.25 Zn, 1800 Au, no recovery factor applied) Silver g/t + ((Gold g/t * (Gold Price/ Silver Price)) + ((22.0462 * Lead Price)/(1/31.1035) * (Ag Price)) * Lead %) + ((22.0462 * Zinc Price)/(1/31.1035) * (Ag Price)) * Zinc %

Stratigraphy	
Alluvium	Joanna Limestone
Fanglomerate	Pilot Shale
Porphyry	Guilmette Limestone
Ely Limestone	Simonson Dolomite
Chainman Shale	Porphyry Hornfels-Skarn

Mineralization	
Au Oxide	Ag-Au ± Pb-Zn Oxide
Ag-Au-Pb-Zn Oxide	Ag-Au-Pb-Zn Sulfide

Drill Trace (AgEq g/t)	
≤ 20	> 500
≤ 50	
≤ 100	
≤ 200	
≤ 500	



Fault
Inferred Fault

PARTNER PROJECTS

Black Ridge

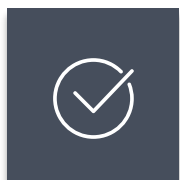
Optioned – Nevada Gold Mines

19.5 km² Carlin Trend Land Package

Carlin- Type Au-Ag

VERIFY

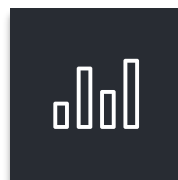
[Click Here](#)



NGM EARN-IN

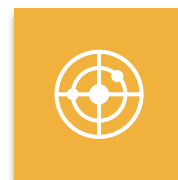
US \$10M earn-in agreement signed with NGM ([07-17-2023 PR](#))

- NGM has incurred US \$0.3M in exploration expenditures to-date



STRATEGIC LOCATION

~4km down-strike of the Leeville mine⁽¹⁾ and the Fallon (previously North Leeville) inferred mineral resource: 1.0 million ounces Au @ 11.3 g/t⁽⁹⁾



THE OPPORTUNITY

Significant discovery potential with potential for continuation of the Fallon discovery onto Black Ridge ground



2024 OBJECTIVE

NGM budget of US \$200k to complete systematic soil sampling, field mapping and target generation to support 2025 drill program

BLACK RIDGE

Nevada Gold Mines Earn-In

- Deal structure provides Ridgeline with exposure to Black Ridge from discovery to project development with zero corporate dilution
- Second Ridgeline deal with NGM totaling US\$40M in potential total expenditures across Black Ridge and Swift projects



US\$100,000

NGM reimbursed US\$100,000 to Ridgeline on closing

US\$4.5M FOR 60%

NGM assumes operatorship and can earn-in to a 60% interest by spending US\$4.5M over 5 years

- US\$1.5M before Dec. 31, 2025
- US\$3M before July 14, 2028

US\$5M FOR 10%

NGM retains a one-time option to earn an additional 10% interest in the project by spending US\$5M before July 14, 2030

CARRIED INTEREST

NGM retains a one-time option to arrange for financing of Ridgeline's portion of development debt for an additional 5% interest in the project for a total of 75%

"We are delighted to add a second earn-in agreement to our growing partnership with Nevada Gold Mines. This deal validates our business model as we continue to exhibit our ability to find and advance exploration opportunities in Tier-1 districts."

- Chad Peters

Ridgeline President, CEO & Director

To view the July 17, 2023 Press Release click [HERE](#)

BLACK RIDGE

Strategic Location

- On-strike of NGM's maiden inferred resource at Fallon (previously North Leeville) of 1.0 Moz. Au @ 11.3 g/t⁽⁹⁾

Highlight Fallon Drill Intercepts

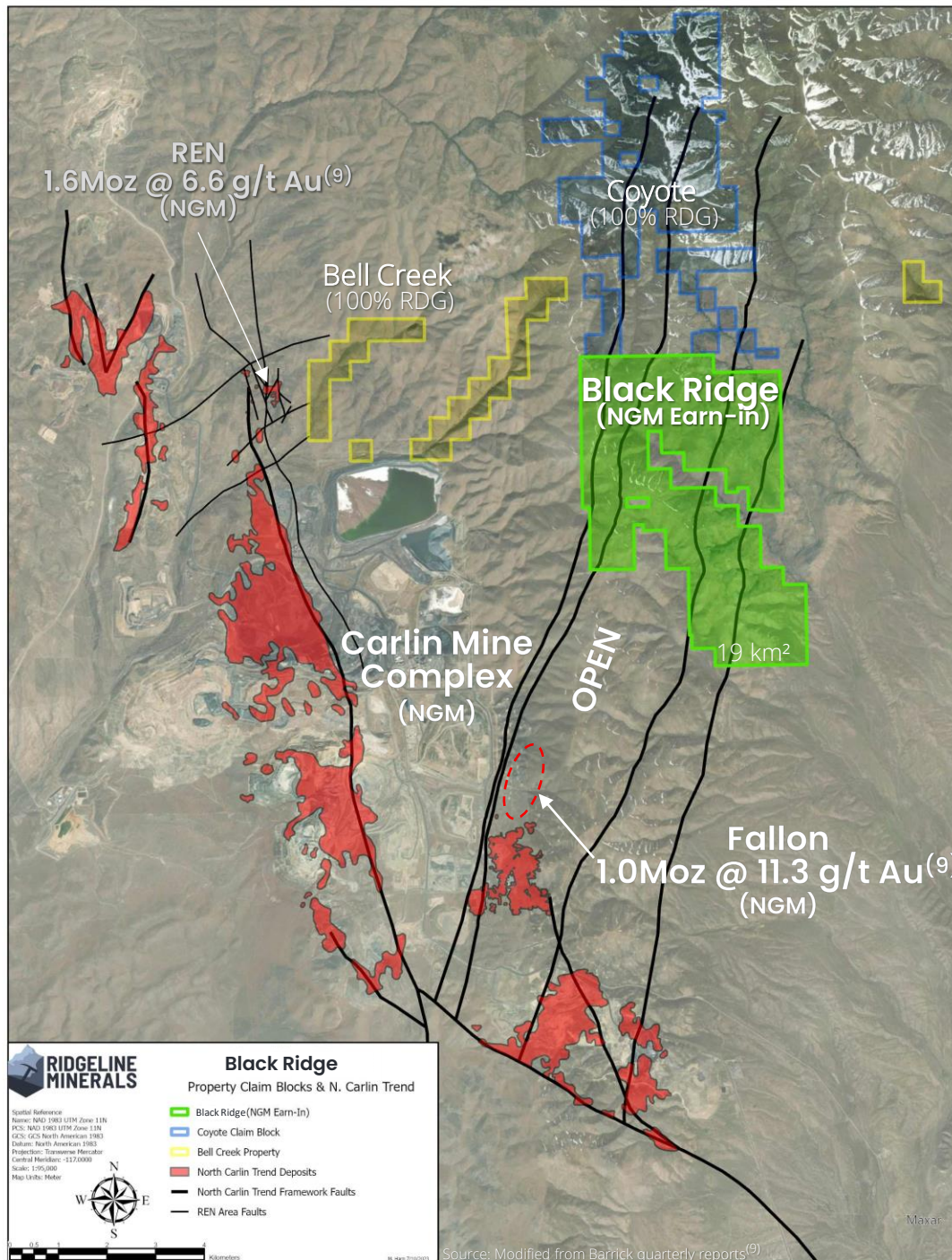
- 56.7m @ 28.39 g/t Au in NLX-00010⁽⁷⁾
- 23.3m @ 32.6 g/t Au in CGX-00076A⁽⁵⁾

"...successfully tested last year with a nine-hole drilling program that also delivered one of the best intercepts in the Carlin Trend's history:

56.7m at 28.39g/t."

Barrick Full Year 2021 Results – North Leeville⁽⁷⁾

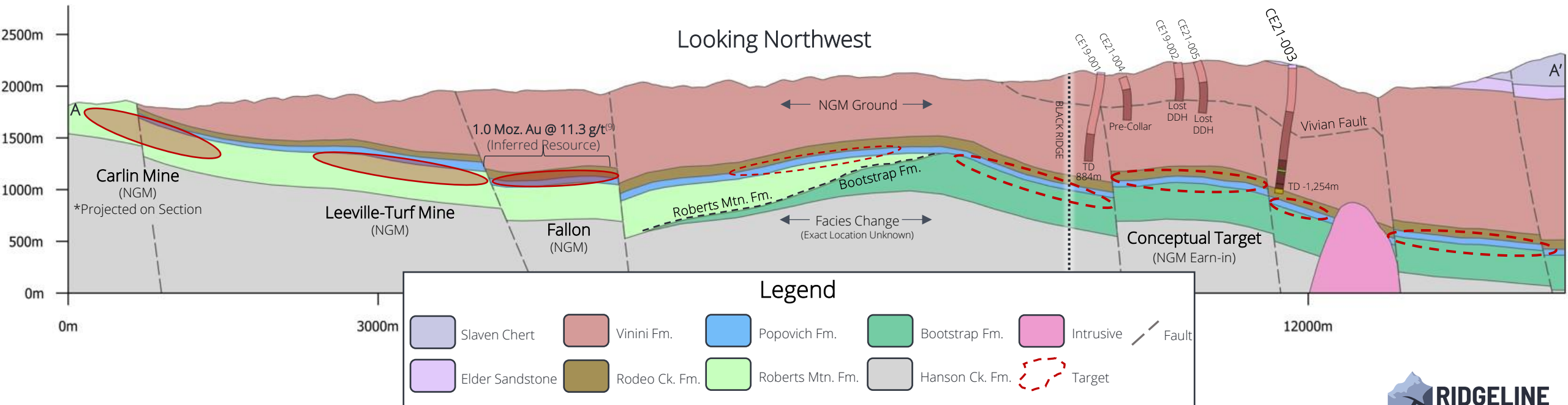
See Barrick Q4 2021 Quarterly Report [HERE](#)



BLACK RIDGE

Leeville Schematic Long Section

- Nevada Gold Mines to spend US\$200k on systematic field mapping, soil sampling and target generation in 2024 to support a maiden drill program in 2025
- CE21-003 intersected unaltered Rodeo Creek Formation (a host at the Fallon discovery and Leeville-Turf Mine) and is interpreted to have drilled the deeper, down-dropped side of a major NW fault Zone



2025 Exploration Strategy

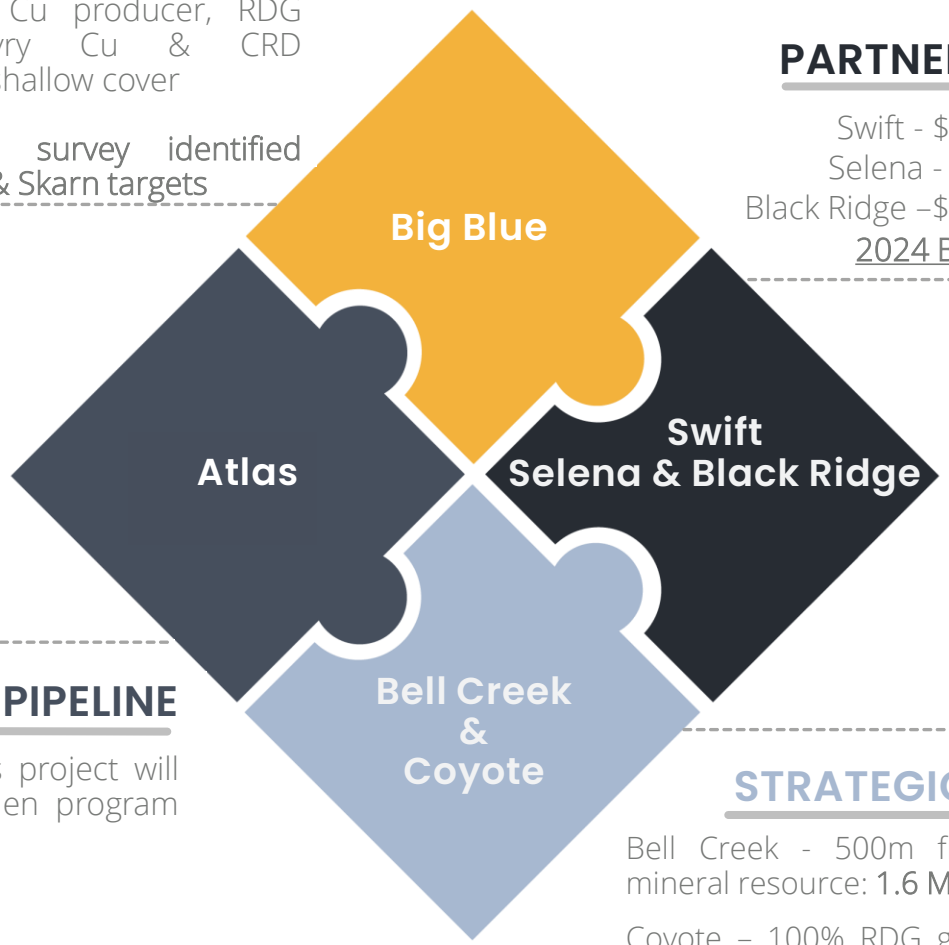
100% OWNED- PORPHYRY CU

Big Blue - Past Cu producer, RDG targeting porphyry Cu & CRD discoveries under shallow cover

August 2024 IP survey identified multiple Porphyry & Skarn targets

PARTNER PROJECTS

Swift - \$30M NGM earn-in
Selena - \$20M S32 earn-in
Black Ridge - \$10M NGM earn-in
2024 Budget - US \$4.0M



EXPLORATION PIPELINE

Recently staked Atlas project will see a 3-5 hole maiden program (1,000m)

STRATEGIC HOLDINGS

Bell Creek - 500m from Ren inferred mineral resource: 1.6 Moz. Au @ 6.6 g/t⁽¹⁰⁾

Coyote - 100% RDG ground directly on-trend of Black Ridge (NGM)

Assessing strategic partnerships to advance projects



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Chad Peters, P.Geo

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TSX-V: RDG | OTCQB: RDGMF | FRA: OGCO

ridgelineminerals.com



Directors & Advisors

Chad Peters, President, CEO & Director

15 years of exploration and production experience. Co-founded Ridgeline in 2018, former exploration manager for Premier Gold mines team credited with 10+ Moz of gold discoveries in Canada and the US.

Peter Hardie, Independent Director

20+ years of International accounting, financial management and mine development experience. Current CFO of Equinox Gold and former CFO of True Gold and Nevsun Resources

Michael Blady, Independent Director

10+ years as senior management of multiple public resource companies with extensive capital markets background. Current CEO of Golden Ridge Resources, former Co-Founder & President of Ridgeline Exploration Services

Duane Lo, CFO & Director

20+ years International accounting and financial management experience for various public companies. Current CFO of Ridgeline Minerals and Entrée Resources, former CFO of Mason Resources and Luna Gold

Lewis Teal, Independent Director

35+ years of global exploration experience including the discovery of 20+ Moz. of gold. Former Newmont Group Executive, South America and Senior Exploration Geologist, Carlin Trend

Mac Jackson, Technical Advisor

25+ years of exploration experience. Discovered 20+ Moz. of gold at the Leeville, Fiberline and North Dark Star Deposits. Former VP, Exploration at Gold Standard Ventures and Senior Exploration Geologist, Newmont