

## Exploration Done Differently

May 1, 2023

**Corporate Deck** 

TSX-V: RDG | OTCQB: RDGMF | FRA: 0GC0

#### CAUTIONARY STATEMENT

## Disclaimer

#### Forward Looking Statements

Statements contained in this presentation 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 anticipated benefits of the Earn-In Agreement and the transaction contemplated thereby. 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 presentation, 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; the current objectives concerning the Project 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. 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. This presentation includes market and industry data obtained from various publicly available sources and other sources believed by the Company to be true. Although the Company believes it to be reliable, the Company has not independently verified any of the data from third-party sources referred to in this presentation or analyzed or verified the underlying reports relied upon or referred to by such sources, or ascertained the underlying assumptions relied upon by such sources. The Company does not make any representation as to the accuracy of such information. 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. A potential investor should not place undue reliance on comparables when making an investment decision and comparables should not be the sole criteria used for making investment decisions. If any comparable information included herein contains a misrepresentation, investors do not have a remedy therefor under securities leaislation.

**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.g4cdn.com/322814910/files/doc\_presentations/2021/Barrick-Q4-2020-Results-Presentation.pdf

(6) Source: Quaterra Resources Inc. Website: https://guaterra.com/wp-content/uploads/gta\_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: Exvenco Resources Inc., 1986, Internal Report on Artesian City Project, Cassia County, Idaho.

(9) Source: Barrick Gold Q4, 2022 Quarterly Reporting:: https://s25.g4cdn.com/322814910/files/doc\_presentations/2023/Barrick\_Q4\_2022\_Results\_Presentation.pd

(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/GuiguiProject.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.o4cdn.com/322814910/files/doc\_presentations/2022/11/Barrick\_2022\_Investor\_Day\_07\_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: https://reynasilver.com/system/uploads/RS-PressRelease-20230117.pdf

(16) Source: https://www.i80gold.com/i-80-gold-hilltop-discovery-yields-bonanza-grade-crd-mineralization-at-ruby-hill/

## **Ridgeline Minerals**

Ridgeline is a Western US focused precious and base metal explorer with a portfolio of **six** highly prospective exploration projects in **Nevada** and **Idaho** and a partnership with **Nevada Gold Mines** (NGM)



#### WORLD-CLASS LOCATIONS

Nevada & Idaho – **192km<sup>2</sup> exploration portfolio** in two of the top ranked mining jurisdictions in the world <sup>(4)</sup>



#### **CRD DISCOVERY** 100% owned Selena highgrade silver-gold-lead-zinc

discovery with significant growth potential



#### **US\$30M NGM EARN-IN**

Nevada Gold Mines earn-inagreementattheSwiftprojecthighlightsTier-1discovery potential



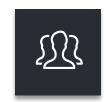
#### STRATEGIC HOLDINGS

Bell Creek and Carlin-East projects strategically positioned adjacent to high-grade NGM resources



#### PROVEN TRACK RECORD

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



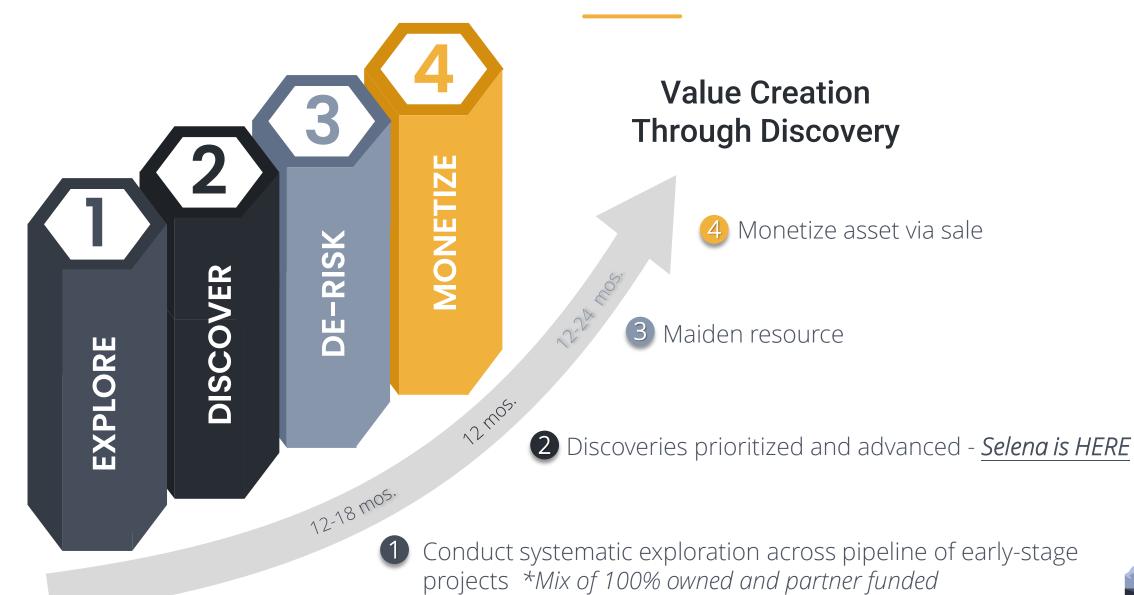
#### SHAREHOLDER FRIENDLY STRUCTURE

Tight share float with 10% management ownership



## **Business Model**

HYBRID EXPLORER

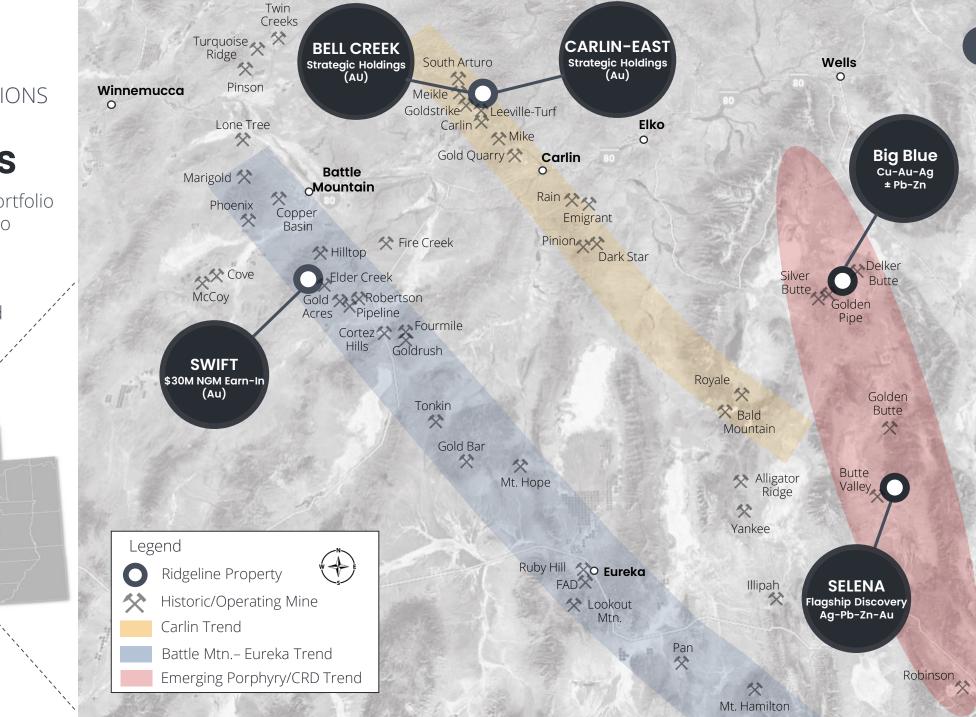






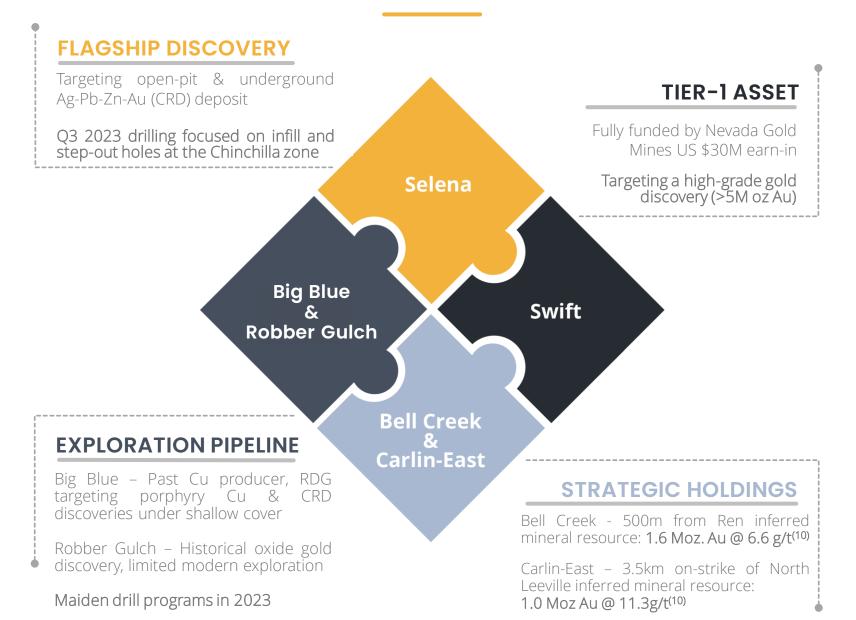
## **6 Projects**

192km<sup>2</sup> Exploration Portfolio in Nevada & Idaho Porphyry/CRD Carlin-Type Gold **IDAHO** Robber Gulch**O** Swift UTAH 0 Selena NEVADA



Ely

# Diversified project pipeline Exploration Strategy





#### SUMMARY

## Near-Term Catalysts



#### Q2 2023

- Financing C\$4.5M
- Big Blue Backpack drilling
- Robber Gulch Backpack drilling
- Selena Permitting initiatives

## **Corporate Catalysts**

- Selena CRD discovery exhibits significant growth potential with 2023 to focus on infill and step-out along high-grade "chimney" and "manto" horizons
- US \$4.9M in NGM exploration expenditures spent at Swift as of January 2023
  - Additional drilling anticipated in 2023, fully funded by NGM (Tier-One discovery potential)
- Maiden drill programs at both Robber Gulch and Big Blue planned in 2023
- Strategic Carlin Trend land positions at Carlin-East and Bell Creek adjacent to multi-million-ounce resource base at North Leeville and Ren



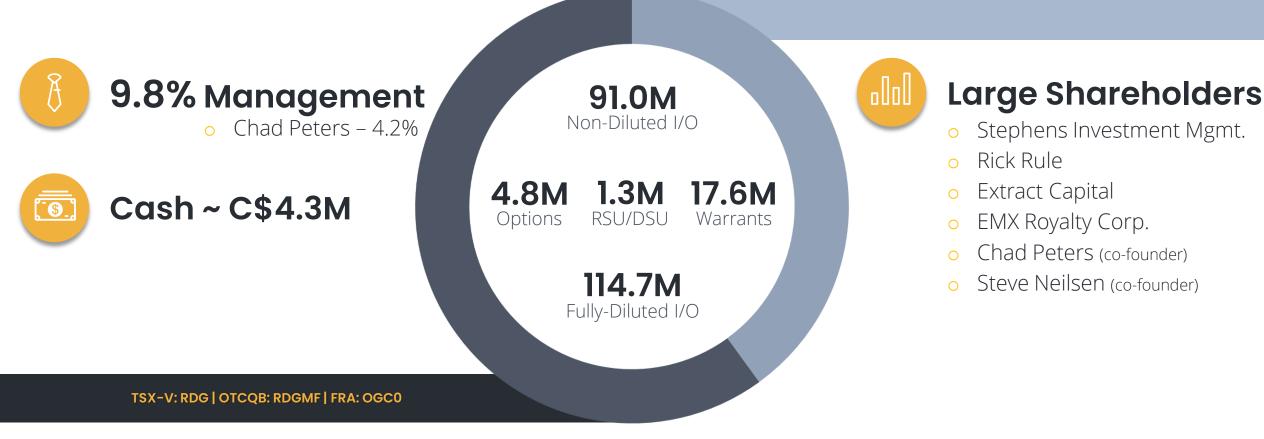
7

#### Q3 2023

- Selena Approval of 200 acre PoO drill permit in early Q3
  - Infill and step-out drilling at Chinchilla zone
- Swift NGM drill program anticipated
- Big Blue & Robber Gulch Target generation and permitting to prepare for maiden drill programs

# ALIGNED WITH SHAREHOLDERS Capital Structure

As at April 28, 2023



- 6.3M warrants @ \$0.30 (expire Sep 2024)
- 11.3M warrants @ \$0.30 (expire April 2025)



# GLOBAL EXPERIENCE – DISCOVERY FOCUSED

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

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

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

- Led multi-million-ounce North Dark Star discovery with Gold Standard Ventures
- 10+ years exploration experience in Nevada

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



See Slide #34 for Directors and Advisors

#### NEVADA PROJECTS

## Selena

39 km<sup>2</sup> Land Package Carbonate Replacement Deposit Ag-Pb-Zn-Au

VRIFY Click Here





#### **100% OWNED**

39km<sup>2</sup> land package located directly adjacent to Freeport-McMoRan's US \$33M earn-in at the Butte Valley Porphyry

## .0o0

#### 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,)



#### 2023 OBJECTIVE

- Q3 Initiate core drill program to infill Chinchilla & CRD discovery's
- Q3-Q4 Plan of Operations Exploration permit approval and continued drilling



#### SELENA

## **District-Scale Property**

- 39km<sup>2</sup> 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 <u>HERE</u>)
- Project was historically explored for Au-Ag but unrecognized as a Carbonate Replacement
   Deposit (CRD) until discovered by Ridgeline
   Minerals in 2021





#### SELENA

## **Discovery Potential**

\*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 **CRD Discovery - Nevada** 

Hilltop

CRD Discovery - Nevada

Hermosa-Taylor

CRD Deposit - Arizona

**Cinco De Mayo** 

**CRD Deposit - Mexico** 

Selena (Ridgeline)  $\bigcirc$ OPEN 3.7km + Strike Discovery Holes (2021-2022<sup>(2)</sup>) 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<sup>(16)</sup>) 28.3m @ 515.3 g/t Ag, 28.9 % Pb, 10.5 % Zn & 0.9 g/t Au – iRH22-43



#### Hermosa/Taylor (south32)

Pre-Feasibility Study (2022<sup>(10)</sup>) 138 MT @ 81.0 g/t Ag, 3.8% Zn, 4.3% Pb





4.0km + Strike

(2)

## **CRD** Zonation

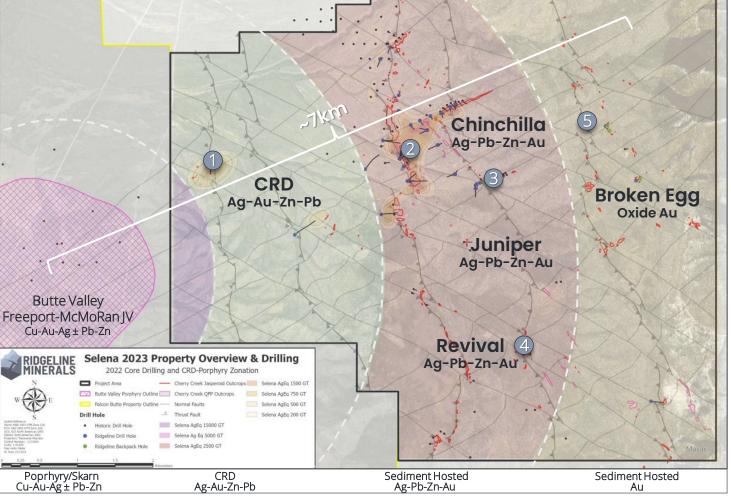
3 deposit styles across 5 target areas

#### Highlight Drill Intercepts By Target

3.0m @ 40.2 g/t Ag, 7.0% Pb-Zn, 3.0 g/t Au - SE22-037

- 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) 7.6m @ 237.8 Ag, 3.9% Pb-Zn, 0.2 g/t Au (SE21-025)
- 1.0m @ 2,467.2 g/t Ag, 2.5% Pb-Zn, 5.1 g/t Au within (3) 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)
  - 2.7m @ 34.57 g/t/ Ag, 1.4% Pb-Zn, 1.0 g/t Au (SEBP-005)
  - 4.4m @ 0.68 g/t Au starting at 0.6m (SE22-044)

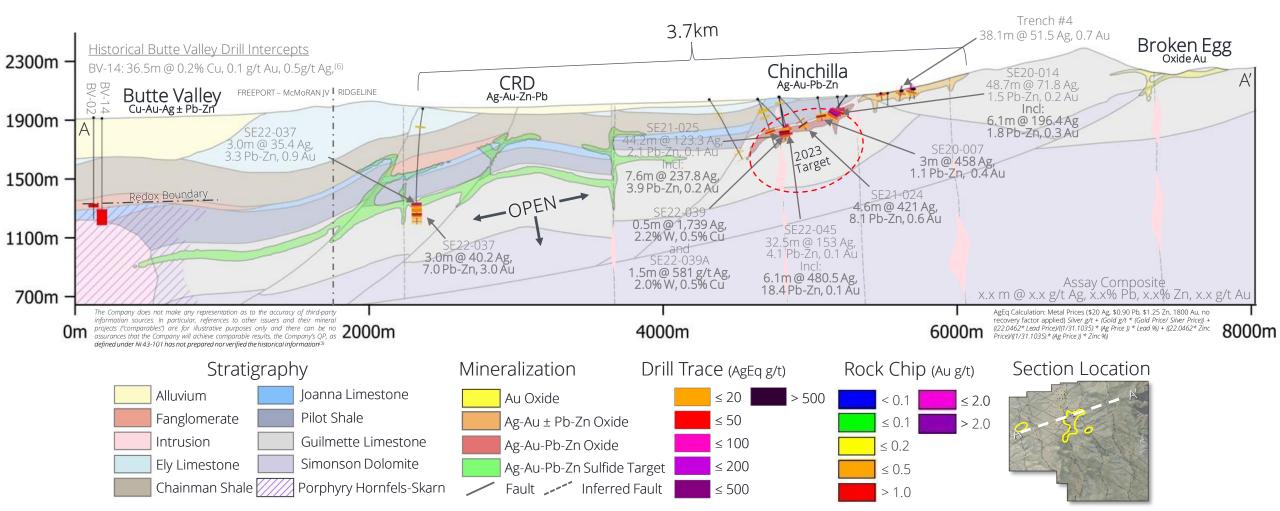






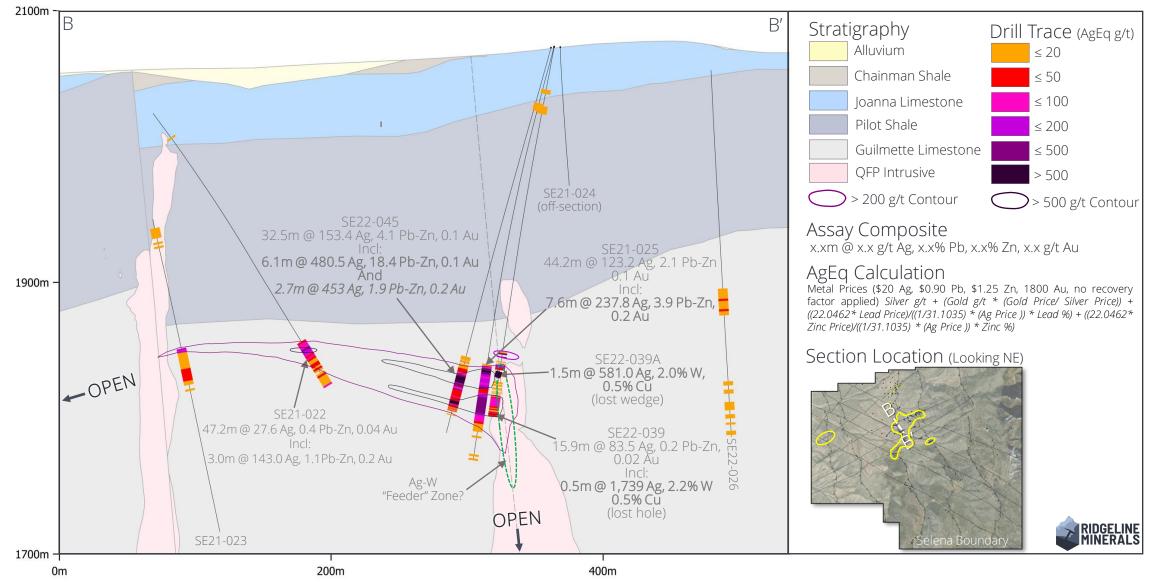
# Chinchilla Long Section A-A'

- Chinchilla zone exhibits open-pit and underground potential over 3.7+ km of drilled strike that outcrops at surface
  - Q3 2023 drilling will target high-grade stacked Chimney and Manto CRD horizons adjacent to feeder faults at depth



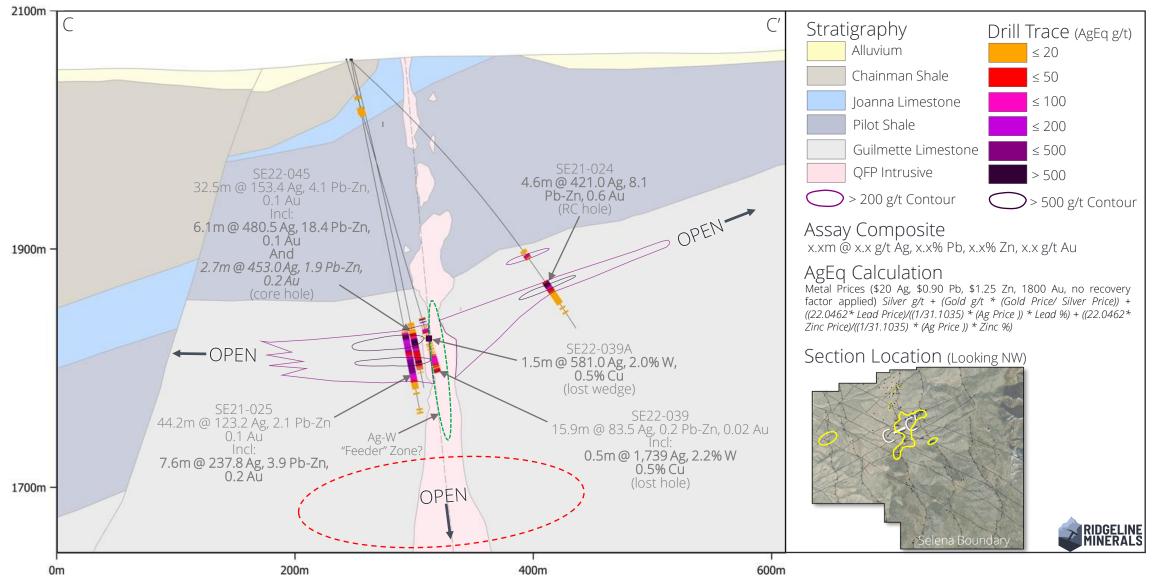
#### SELENA

### Chinchilla X-Section B-B'



#### SELENA

## Chinchilla X-Section C-C'



#### NEVADA PROJECTS

## **Big Blue**

29 km<sup>2</sup> Land Package Porphyry & CRD Cu-Au-Ag ± Pb-Zn





#### 100% OWNED

29km<sup>2</sup> land package located directly adjacent to Reyna Silvers Medicine Springs CRD project

## .lol

#### HIGH-GRADE

Skarn Hill Rock Chips

- 6.44% Cu, 0.16 g/t Au, 53.75 g/t Ag Delker Mine Rock Chips
- 4.88% Cu, and 0.10 g/t Au

#### THE OPPORTUNITY

....×

Potential to discover new porphyry Cu-Au and Carbonate Replacement Ag-Pb-Zn deposits (deposit analogues include Butte Valley Porphyry, Selena Project)



#### 2023 OBJECTIVE

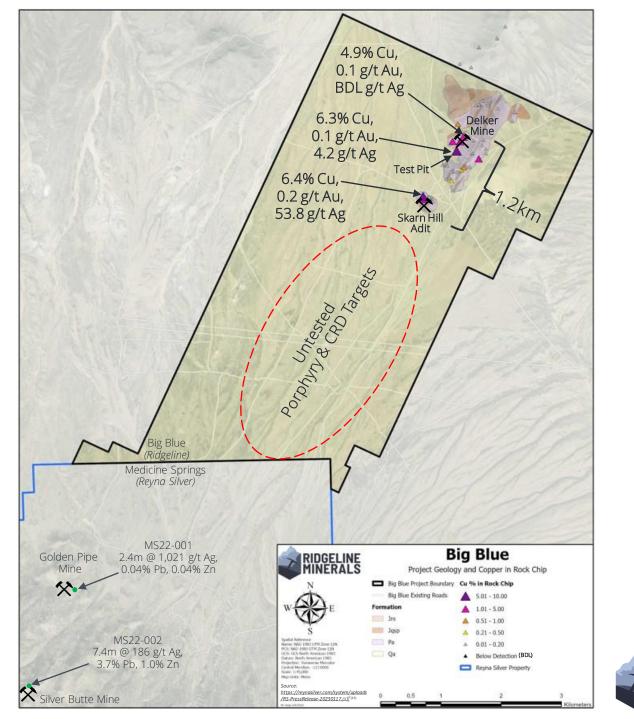
- H1 Database compilation, geologic model, backpack drilling
- H2 Maiden drill program



Big Blue

## **Historic Cu District**

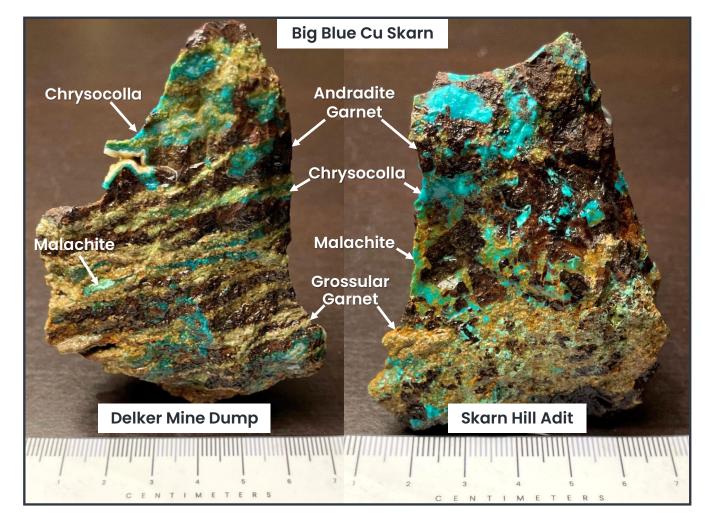
- The Big Blue Project includes the past producing Delker Mine, which produced
   94,434 pounds of copper at an average grade of 6.2% Cu between 1916-1917<sup>(14)</sup>
- Shared southern boundary with Reyna Silver's Medicine Springs Ag-Pb-Zn Carbonate Replacement ("CRD") project
- High-grade oxide Cu at surface at the Delker Mine and Skarn Hill adit have not been adequately tested at depth or along strike towards Medicine Springs





### Big Blue Cu Skarn Rock Chips

- Historical mining at the Delker Mine targeted enriched oxide Cu skarn within 25 meters of the surface
- Historic operators did not explore under alluvial cover to target a conceptual porphyry Cu-Au source





#### NEVADA PROJECTS

### **Swift** Optioned - Nevada Gold Mines

75 km<sup>2</sup> Land Package Carlin- Type Au-Ag **V R I F Y** Click Here







#### NGM EARN-IN

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

 NGM has incurred US \$4.9M in exploration expenditures as of January 2023

#### LOCATION

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

## 

#### THE OPPORTUNITY

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



#### 2023 OBJECTIVE

NGM drilling anticipated in 2023. "framework" drilling will build off success of the 2022 program which intersected widespread alteration and gold mineralization



SWIFT

## Nevada Gold Mines Earn-In

- with NGM Partnering 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 \$4.9M spent as of January 2023



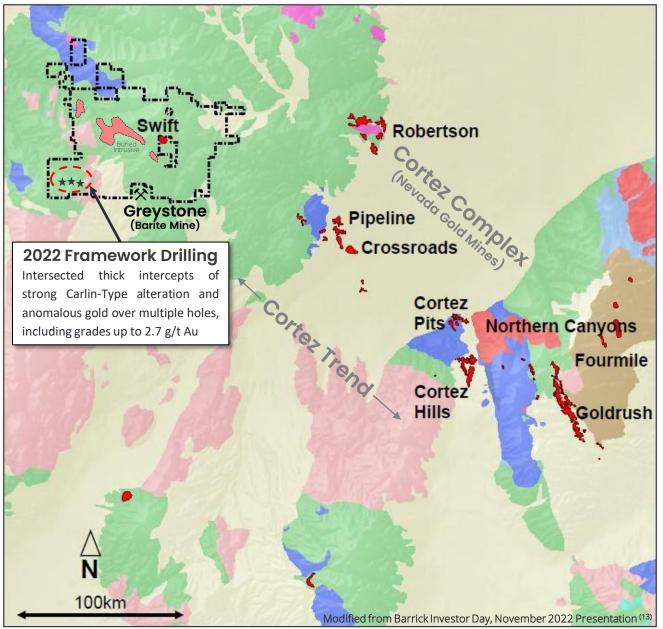
To view the September 22, 2021, Press Release click HERE

#### SWIFT

## World-Class Location

- 50+ Moz. Au of past production and current resource/reserves across the Cortez Trend (NGM)
  - Cortez Trend hosts some of the largest and most profitable gold mines globally
- Swift exhibits the same host rocks, structural framework and multi-phase intrusive rocks as all known Cortez Trend deposits

"Framework drilling on the Swift project, intersects Lower Plate carbonates at only 570 meters depth with several low angle structures, significant alteration and anomalous gold" Barrick Quote – Investor Day, November 2022<sup>(13)</sup>



See Ridgeline February 16, 2023 Press Release <u>HERE</u> See Barrick Investor Day, November 2022 Report <u>HERE</u>



22

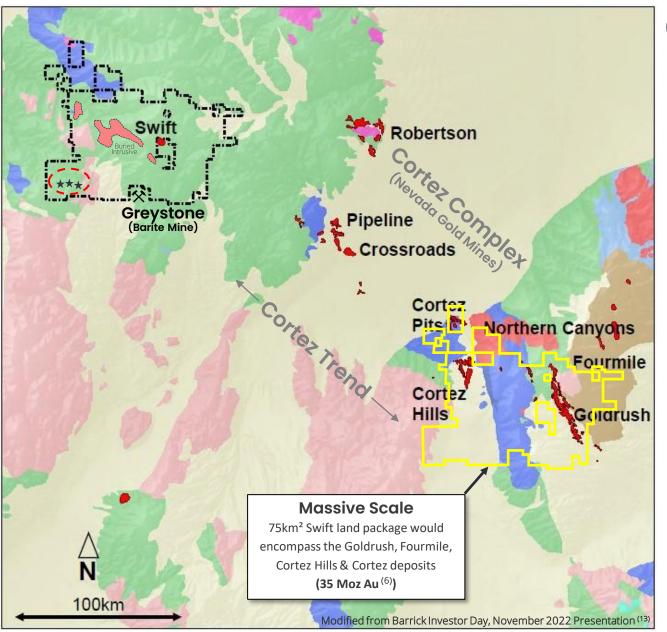
#### SWIFT

## **Discovery Potential**

- First 4 NGM framework holes hit significant intercepts of alteration and gold including:
  - 51.1m @ 0.19 g/t Au, 1.14 g/t Ag
     Incl: 1.5m @ 1.51 g/t Au, 0.16 g/t Ag in
     SW22-002
  - 48.8m @ 0.45 g/t Au, 0.98 g/t Ag
     Incl: 3.4m @ 1.92 g/t Au, NSV Ag in
     SW22-003

#### Fourmile Deposit (NGM)

- The first 10 framework holes at Fourmile in 2015 were dusters...the 11<sup>th</sup> hole hit 5.8m @ 49.7 g/t Au
- 3.2Moz. Au MI&I resource @ 10.4 g/t<sup>(9)</sup> as of Q4, 2022



\*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 Swift

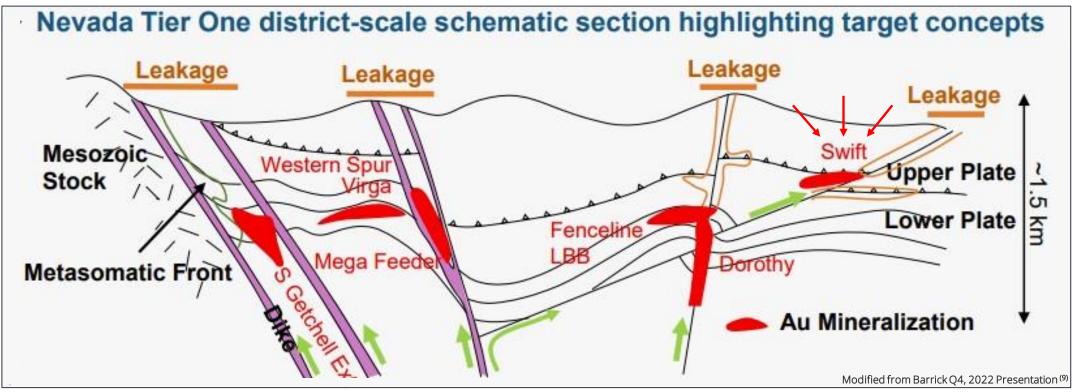


23



## Tier-One Target For Nevada Gold Mines

 Swift has been noted in Barrick's (Operator of NGM Joint Venture) Q4, 2022 report as one of Nevada Gold Mines Tier-One exploration targets (see schematic section modified from Barrick Q4, 2022 report below)





See Barrick Q4,2022 Presentation HERE

## **Bell Creek**

5 km<sup>2</sup> Carlin Trend Land Package Carlin- Type Au-Ag

VRIFY Click Here





## .000

#### 100% OWNED

Lease with option to purchase 100% of the private mineral rights

#### STRATEGIC LOCATION

Shared property boundary with the NGM owned Ren deposit resource boundary located ~500m west of Bell Creek



#### THE OPPORTUNITY

Potential for extension of Ren Deposit (NGM) to extend onto Bell Creek. Ren inferred mineral resource **1.6 million ounces Au @ 6.6 g/t**<sup>(9)</sup>



#### 2023 OBJECTIVE

Assess potential for strategic exploration partnerships to advance project



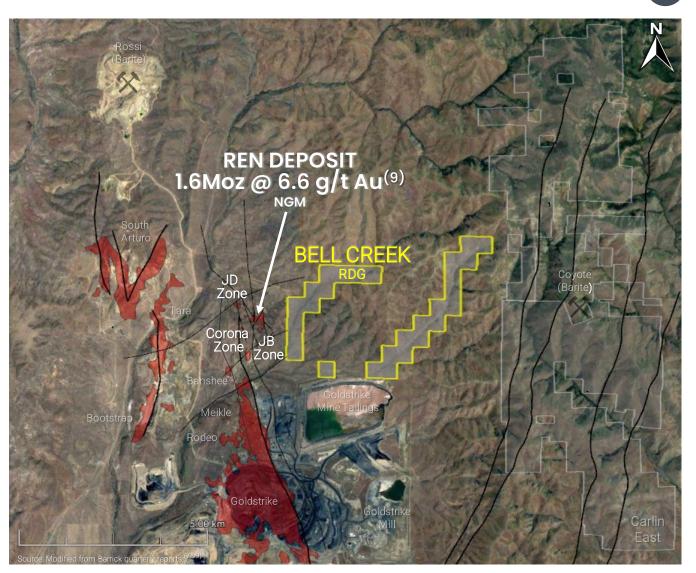
#### BELL CREEK

## Strategic Mineral Rights

- NGM announced maiden Ren Deposit inferred mineral resource on February 10, 2022, of 1.60Moz Au grading 7.3 g/t Au<sup>(9)</sup>
  - Bell Creek boundary located ~550m to the east of the proposed Ren resource

"Both projects represent future growth for the Carlin complex and drilling continues on both targets, with mineralization open in all directions" Barrick Quote - Ren and North Leeville maiden resources<sup>(9)</sup>

Q2, 2022 results state that mineral resource expansion expected along Corona and JB zones by year-end

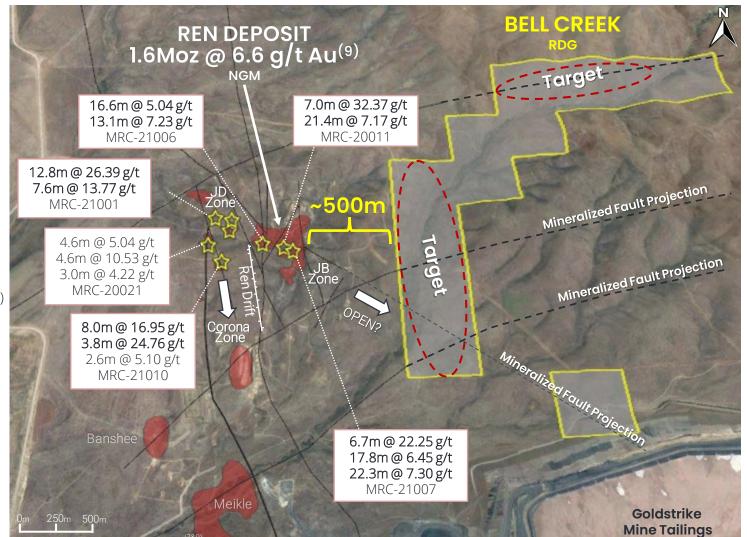




See Barrick Q4 2021 Quarterly Report HERE

## **Exploration Upside**

- NGM Exploration drilling from the Ren underground drift is returning significant intercepts in the JD, Corona, and JB zones
  - 12.8m @ 26.39 g/t Au in MRC-21001<sup>(7)</sup>
  - 7.0m @ 32.37 g/t Au in MRC-20011<sup>(7)</sup>
- The NE projections of multiple mineralized fault zones cut across the Bell Creek property
  - Potential for additional high-grade mineralization along fault projections





See Barrick Q3 2021 Quarterly Report HERE

NEVADA PROJECTS

## **Carlin-East**

35 km<sup>2</sup> Carlin Trend Land Package Carlin- Type Au-Ag **VRIFY** 

**Click Here** 





# .lol

#### 100% OWNED

100% owned land package in the heart of the Carlin Trend Carlin-East (BLM Claims)

#### STRATEGIC LOCATION

4km down-strike of the Leeville mine<sup>(1)</sup> and the North Leeville inferred mineral resource: **0.7 million ounces Au @ 11.5 g/t<sup>(9)</sup>** 



#### THE OPPORTUNITY

Significant discovery potential. Carlin-East is the largest land position on the North Carlin Trend not owned by NGM



#### 2022 OBJECTIVE

Assess potential for strategic exploration partnerships to advance project



#### CARLIN-EAST

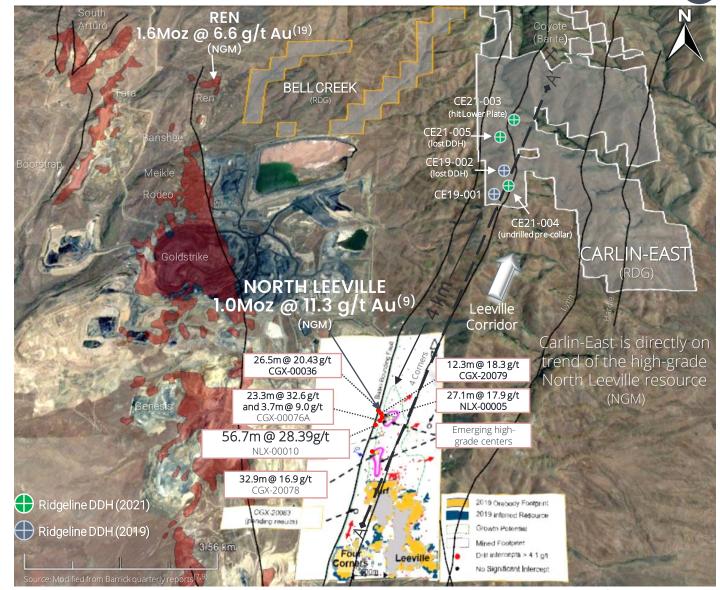
## **Strategic Location**

 Directly on-strike of NGM's high-grade maiden North Leeville inferred mineral resource of 1.0 Moz. Au @ 11.3 g/t<sup>(9)</sup>

#### Highlight NGM Drill Intercepts

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

"...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<sup>(7)</sup>



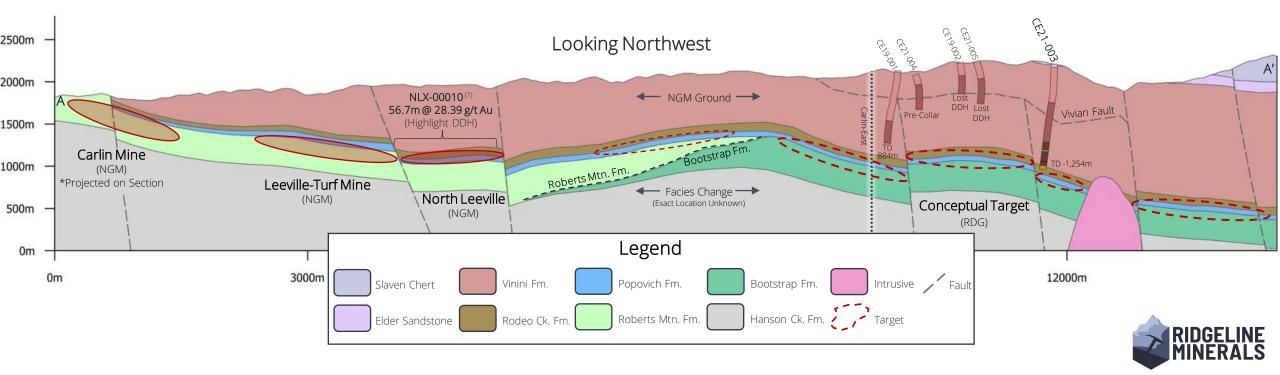


See Barrick Q4 2021 Quarterly Report HERE



## **Leeville Schematic Long Section**

- CE21-003 intersected unaltered Rodeo Creek Formation (a host at North Leeville) and is interpreted to have drilled the deeper, down-dropped side of a major NW fault Zone
- Uplifted horst block beneath CE19-002, CE21-004 and CE21-005 exhibits the greatest potential to hit shallower Lower Plate (~1,000m vertical)



IDAHO PROJECT

## **Robber Gulch**

9 km<sup>2</sup> Land Package Carlin-Type Oxide Au





#### **100% OWNED**

Option to exercise 100% purchase option from underlying owner (EMX Royalty Corp.)



#### EMERGING AU DISTRICT

32km southeast of Burley, Idaho and 88km northwest of Liberty Gold's Black Pine Deposit (3.0+ Moz Au)<sup>(1)</sup>



#### THE OPPORTUNITY

Discover a 1 Moz. + shallowoxide gold deposit



#### 2023 OBJECTIVE

Q2 backpack drilling on strike of historic outcropping drill intercepts. Mapping and prospecting to refine targets for 2023 maiden drill campaign



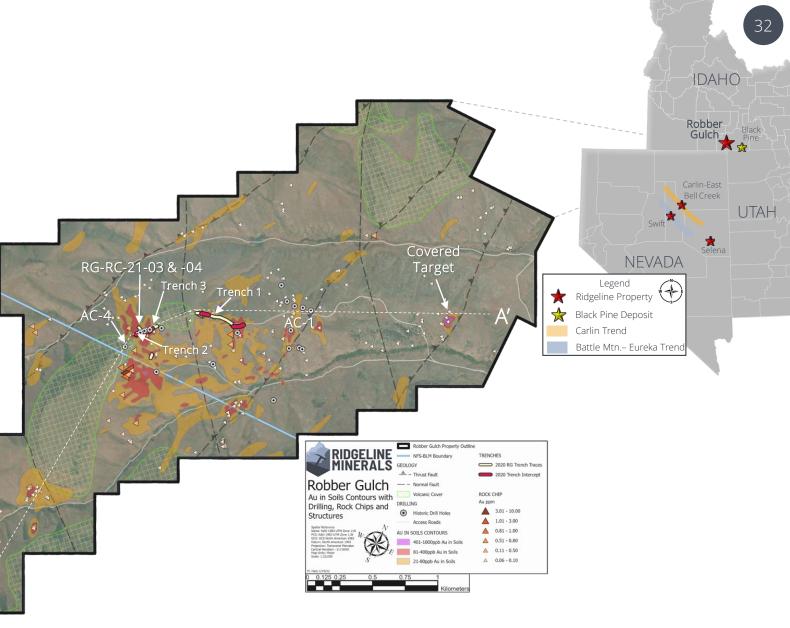
## **Proven Discovery**

Historical Drill Highlights<sup>(3,8)</sup>

- AC-4: 12.2m @ 0.90 g/t Au within
   57.9m @ 0.34g/t Au (bottomed in 0.3 g/t Au)
- RG-RC-21-03: 12.2m @ 0.65 g/t Au (from surface)
- RG-RC-21-04: 6.1m @ 1.46 g/t Au\*
   (\* TD @ 6.1m cased and ready for re-entry)

#### Highlight Trench Results<sup>(3)</sup>

- Trench 1: 52m @ 0.26 & 48m
  @ 0.26 g/t Au
- Trench 2: 60m @ 0.40 g/t Au
- Trench 3: 189m @ 0.43 g/t Au







#### **PRESIDENT & CEO**

#### Chad Peters, P.Geo

775-304-9773 cpeters@ridgelineminerals.com

#### **INVESTOR RELATIONS**

#### David Jan

604-828-2255 info@ridgelineminerals.com

TSX-V: RDG | OTCQB: RDGMF | FRA: 0GC0

ridgelineminerals.com



# GLOBAL EXPERIENCE – DISCOVERY FOCUSED 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

#### 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

#### 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

#### Geoff Chater, Strategic Advisor

30+ years of mineral exploration experience across four continents and capital markets consultant to publicly traded companies. Current Independent Director of New Gold Inc., Former Director of Nevsun Resources and Resevoir Minerals

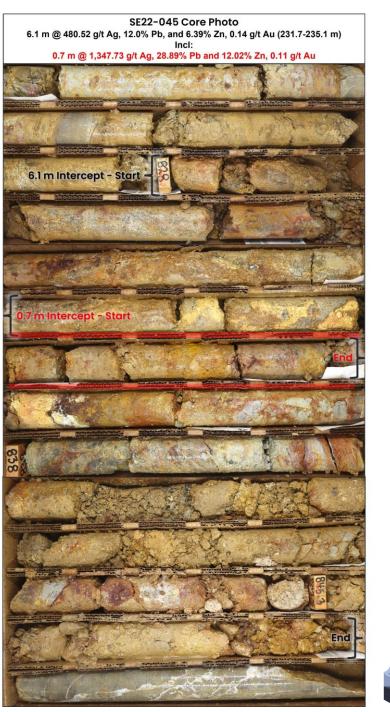




#### SELENA

## SE22-045 High-Grade

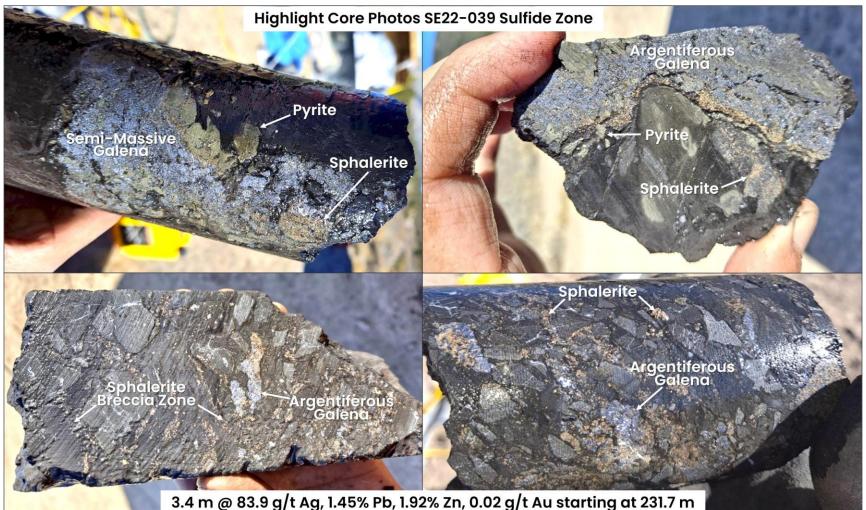
- SE22-045 returned the single best Ag-Au-Pb-Zn CRD drill intercept in the project's history
  - 32.5 m grading 153.42 g/t Ag, 2.51% Pb, 1.60% Zn,
     0.09 g/t Au, starting at 235 m true vertical depth
  - Including: 6.1 m grading 480.52 g/t Ag, 12.0% Pb, and
     6.39% Zn, 0.14 g/t Au in SE22-045
    - Including 0.7 m grading 1,347.73 g/t Ag, 28.89% Pb and 12.02% Zn, 0.11 g/t Au
  - Core vs RC drilling upgraded Ag-Pb-Zn grades throughout with increases ranging from 50-70% when compared to the same high-grade zone interested in 2021 RC drill hole SE21-025





# SE22-039 Sulfide Zone

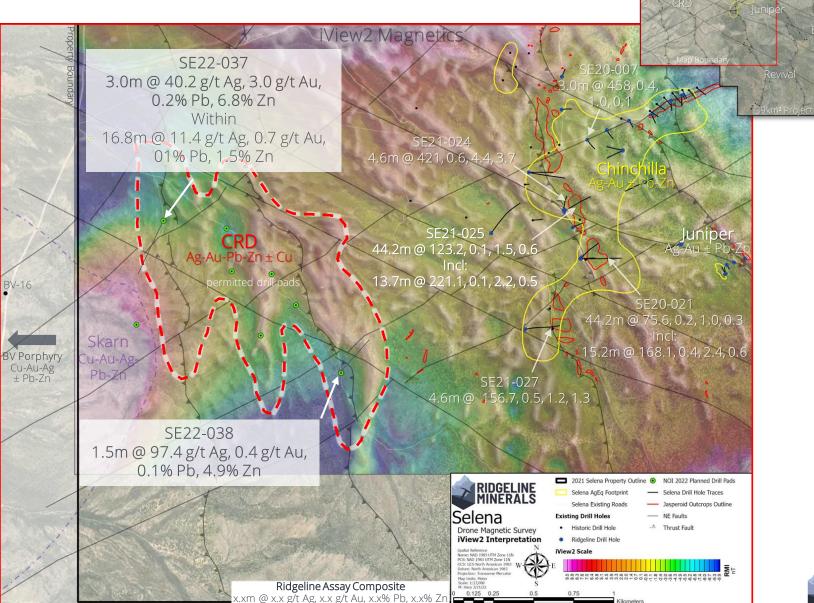
 SE22-039 drilled the first intercept of known sulfide CRD mineralization at Selena and highlights potential for additional zones of sulfide mineralization along strike and at depth





### **CRD** Target

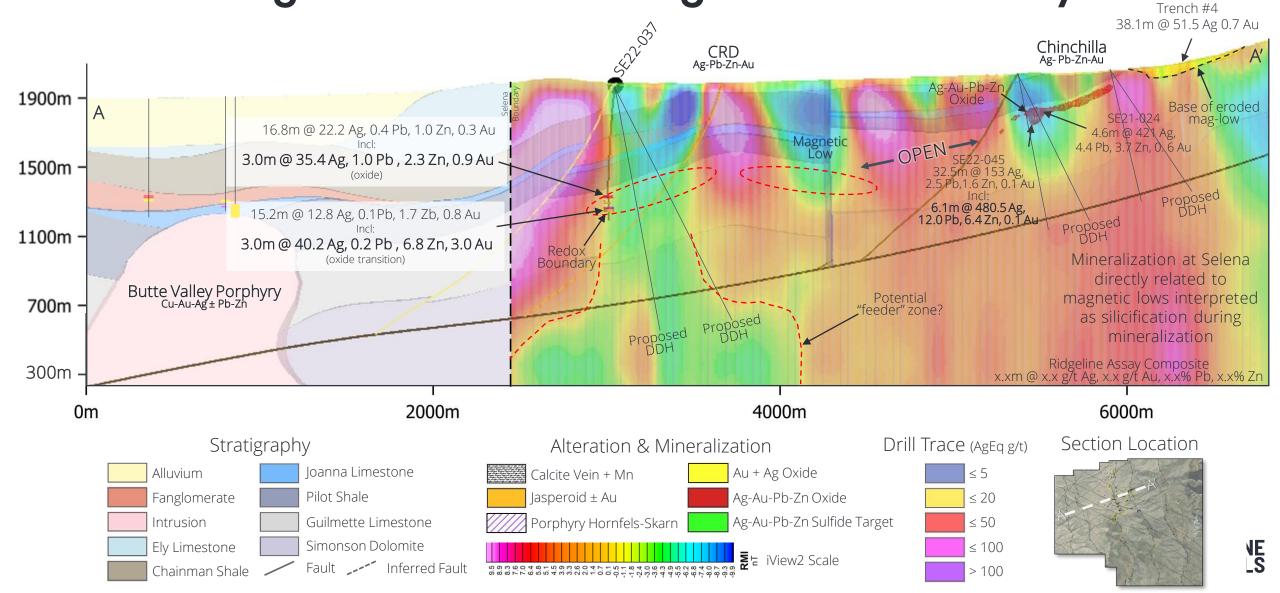
- Q2, 2022 drone magnetics survey highlights untested potential at the CRD Target
- SE22-037 and SE22-038 confirmed CRD target and greater porphyry zonation model





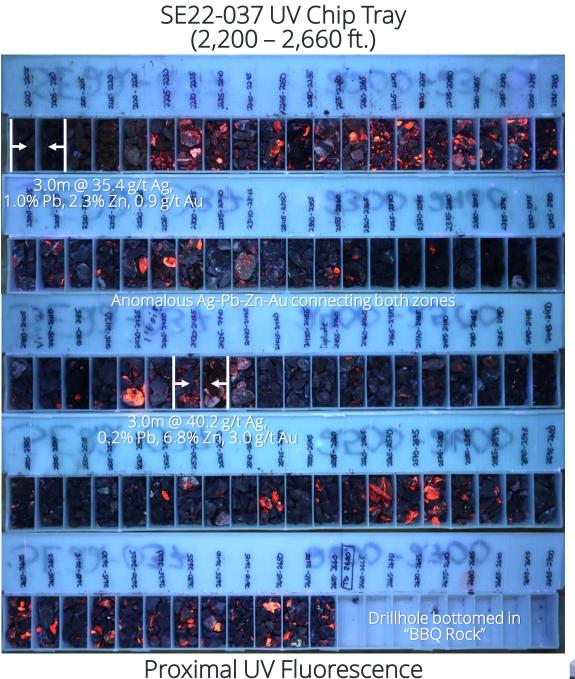


### Long Section A-A' – Mag Inversion Overlay



# **CRD** Target

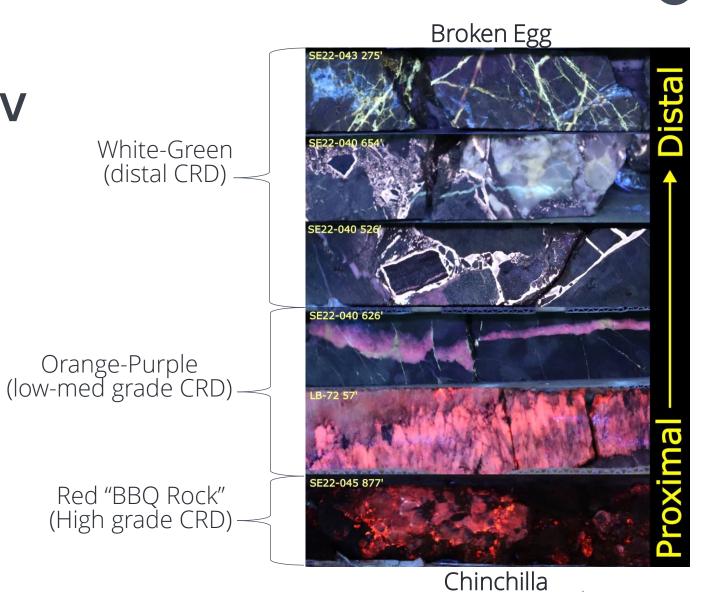
- SE22-037 RC chips exhibit classic "BBQ Rock" UV fluorescence
  - Indicates SE22-037 intercept was close to a potentially higher-grade CRD zone





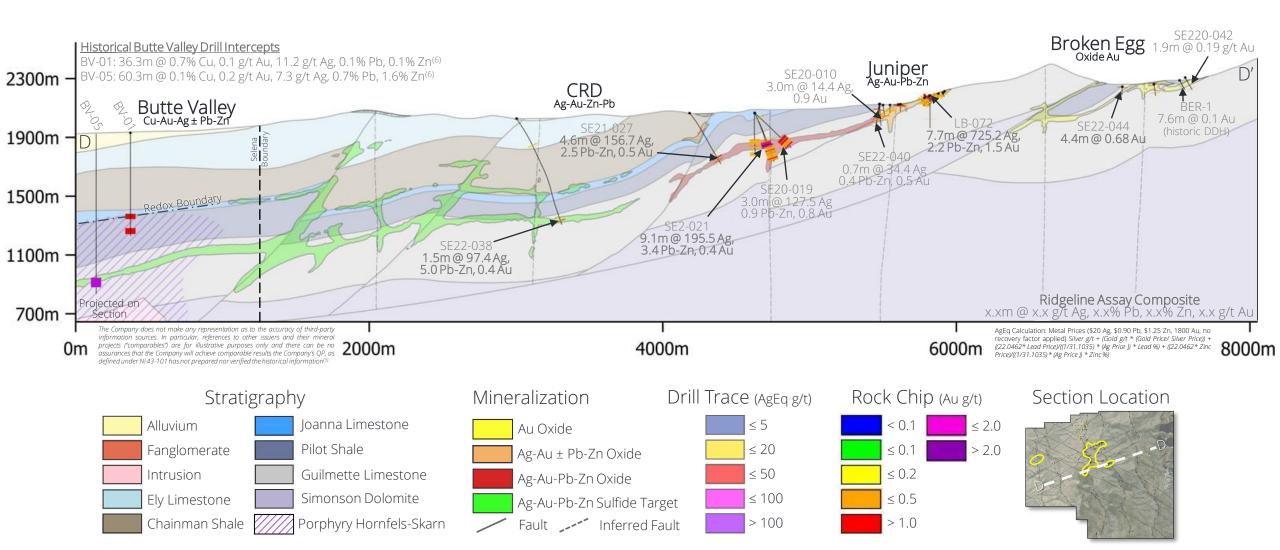
### **BBQ Rock - Shortwave UV**

- Shortwave UV (Black Light) will cause mineralized rock to fluoresce with different color and intensity depending on proximity to the core of a CRD deposit
- Selena exhibits classic "BBQ Rock" UV fluorescence in its high-grade zones at Chinchilla, CRD and Juniper
- Effective exploration tool used by experts such as Dr. Peter Megaw to assist in vectoring towards CRD deposits



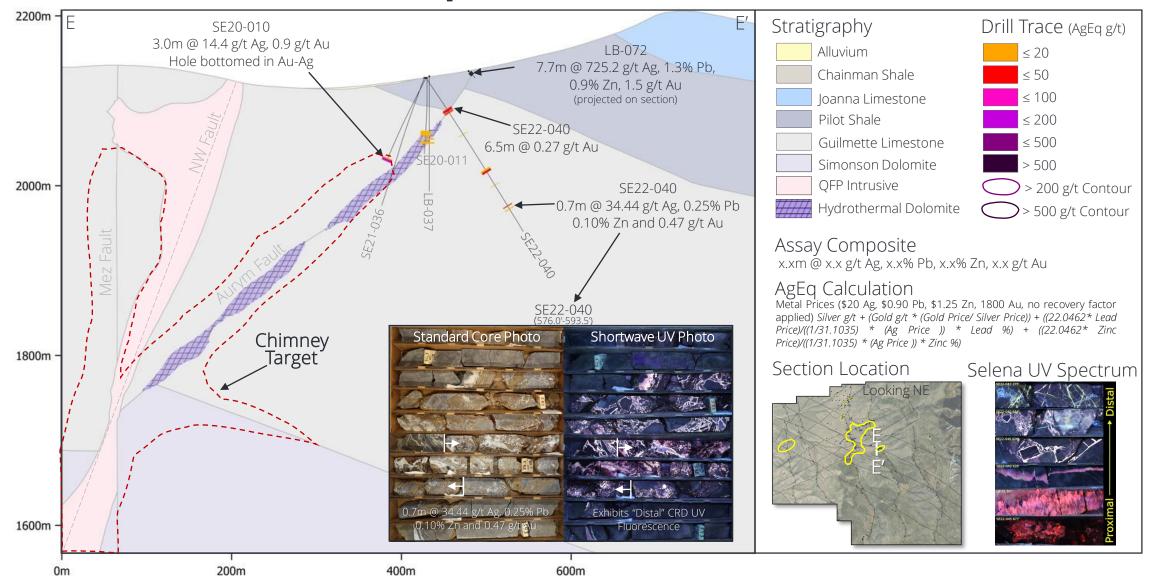


# Juniper Long Section D-D' (~1km south of Chinchilla Zone)



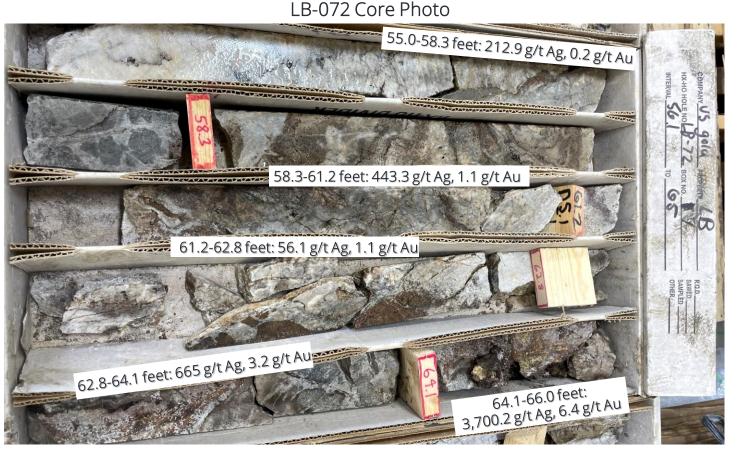


### **Juniper X-Section E-E'**



### **Juniper Zone**

- Ridgeline acquired historic dataset from NevGold Corp. (via McEwen) in May 2022
- LB-072 (2010) intersected the highest grades ever drilled on the Selena property
- 7.7m @ 725.2 g/t Ag, 1.5 g/t Au, 1.3% Pb and 0.9% Zn
  - Incl: 0.3m @ 6,667 g/t Ag, 7.7 g/t Au, 1.6% Pb, and 0.2% Zn
  - And 1.0m @ 2,467.2 g/t Ag, 5.1 g/t Au, 1.1% Pb and 1.4% Zn



 Future holes will test for preserved Upper (Dgc) and Lower zones (Dgf) down-dip of partially eroded discovery outcrops

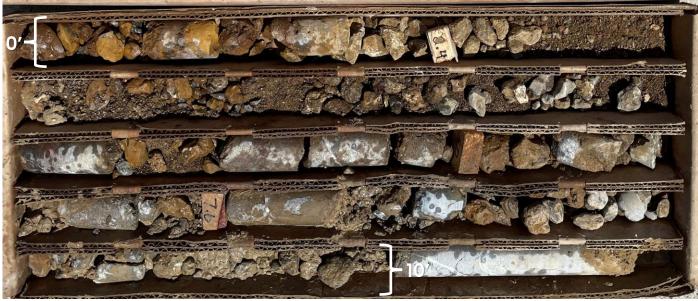


See June 8, 2022 Press Release HERE

# **Backpack Drill Rig**

- Operated by Ridgeline geologists in conjunction with portable
   XRF for real-time results (samples also submitted for lab analysis)
- Low-cost exploration tool that bridges the gap between surface sampling/mapping and traditional drilling

#### SEBP-002 (Juniper) 0-3.0m (10ft.) @ 95.2 g/t Ag, 1.1 g/t Au, 0.1% Pb, 0.3% Zn



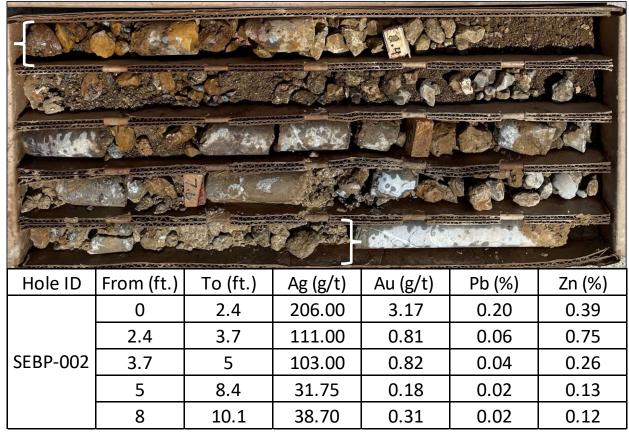




# Juniper Zone

- SEBP-002 was the first backpack hole at the Juniper target
  - Drilled ~150m west of McEwen holes
- 0-3m returned 94.7 g/t Ag and 1.1 g/t Au
  - TD at 9.8m in difficult drilling conditions
- Hole collared into the upper jasperoid zone (Dgc: see appendix) with the lower zone (same high-grade zone as LB-072) anticipated at ~10-15m downhole

SEBP-002 (Juniper) 3.0m (10 ft.) @ 94.7 g/t Ag, 1.1 g/t Au, 0.1% Pb, 0.3% Zn





# Broken Egg Target

- SEBP-001 was the first backpack hole at the Broken Egg target
  - Hole collared into the partially eroded upper Guilmette (Dgc)
- Drilled 8.5m of mineralized and brecciated zone with a highlight of 0.9m grading 2.4 g/t Au starting from surface
- Collaring hole to the west of SEBP-001 beneath the pilot shale contact would allow team to drill fully preserved upper and lower Guilmette in future holes

See August 31, 2022 Press Release HERE

#### SEBP-001(Broken Egg) 0.9m (3 ft.) @ 2.37 g/t Au



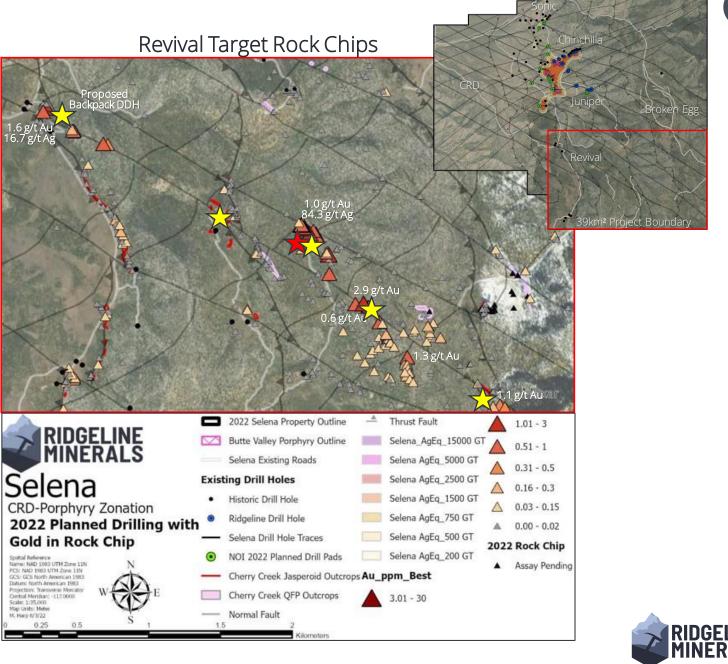
Hole ID	From (ft.)	To (ft.)	Au (g/t)	As (ppm)	Sb (ppm)	Hg (ppm)
	0	3	2.37	1658.9	611.09	24.2
	3	6	0.03	60.2	22.79	0.9
	6	10	0.01	300.8	112.88	4.5
	12	13	0.01	333.5	111.87	4
SEBP-001	13	15	0.01	226.5	86.78	3
	16	17	NSV	509.5	213.41	7.6
	17.4	21.3	NSV	282.4	76.03	4
	21.3	23.4	0.02	757.7	251.92	10.3
	23.4	26.8	0.07	1103.2	424.9	12.5
	26.8	27.8	0.04	783.2	231.98	8.4



## **Revival Target**

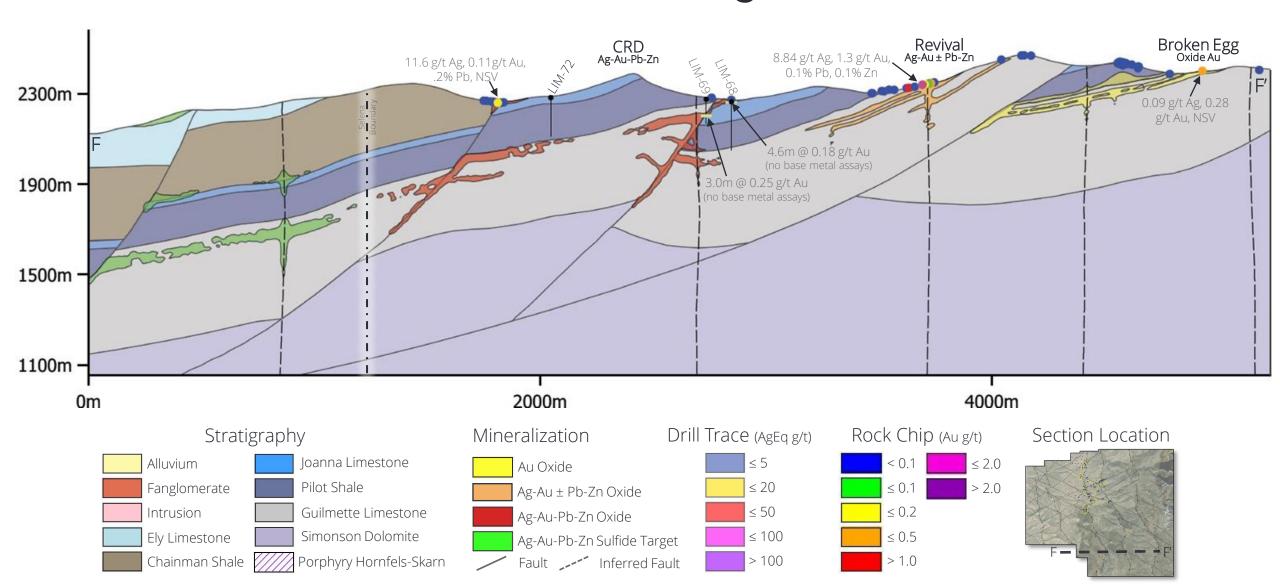
- Earliest-stage target with strong NW fault control that extends through the CRD – Revival – South Broken Egg targets
- Backpack rig will test multiple mineralized jasperoid outcrops in Q3 with 10-15m core holes





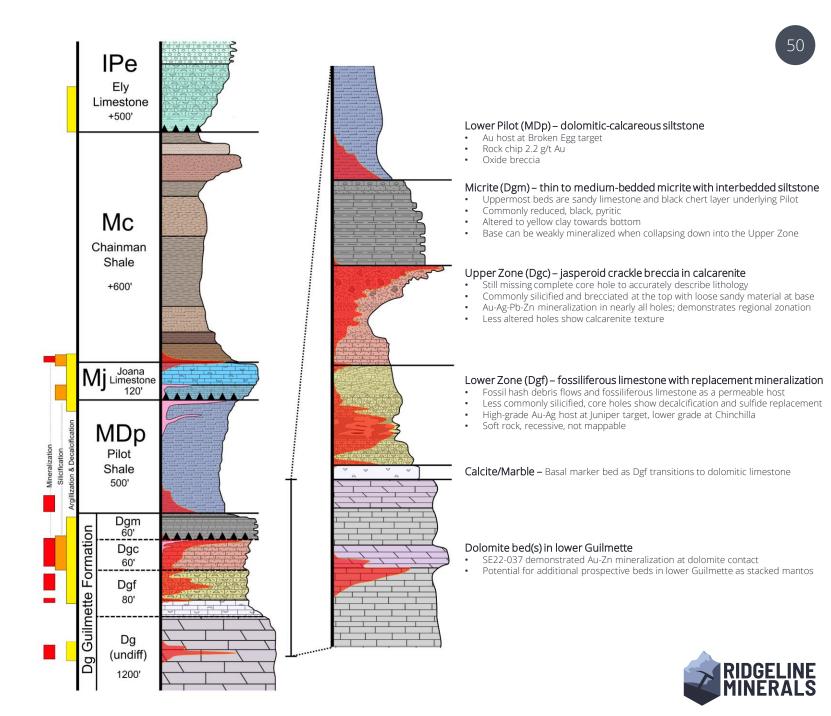


### **Revival Schematic Long Section F-F'**



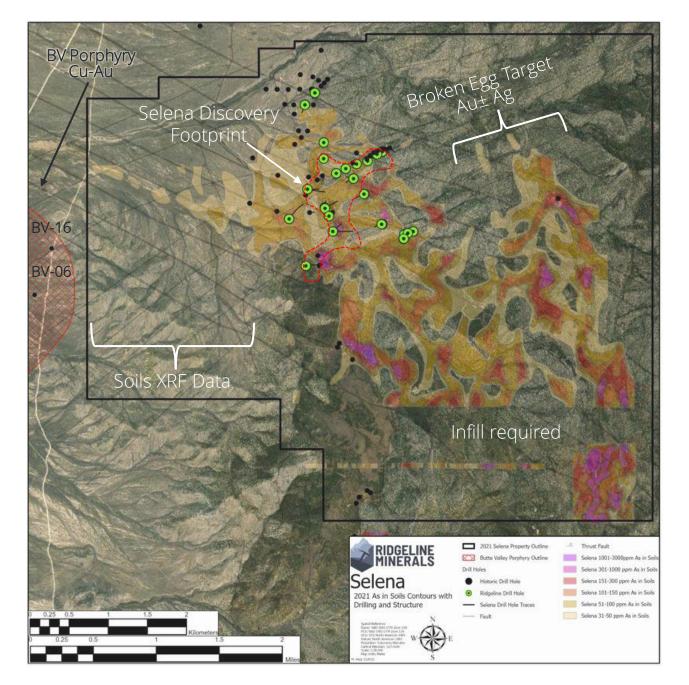
### Strat Column

- Mapping combined with McEwen and RDG backpack core drilling has added 4 distinct subunits to the Guilmette Formation
- Dg exhibits distinct "Upper" and "Lower" zones as well as a third zone in the lower dolomite section of the Dg
- Outcropping jasperoid at Chinchilla and Juniper is interpreted as the base of the Upper Zone of the Dgc



# As in Soils

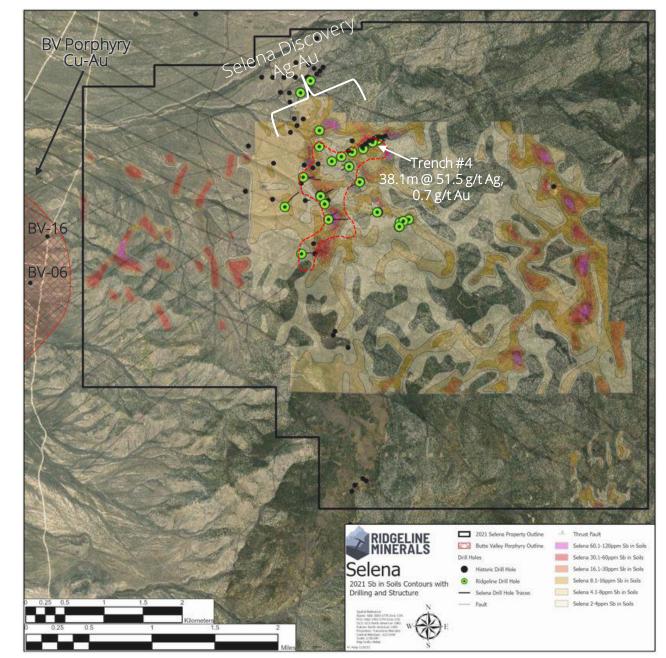
- Arsenic is strongest at the Broken Egg target (farthest from BV porphyry)
  - Highlights the Carlin-Type Au end-member of the zonation pattern





# Sb in Soils

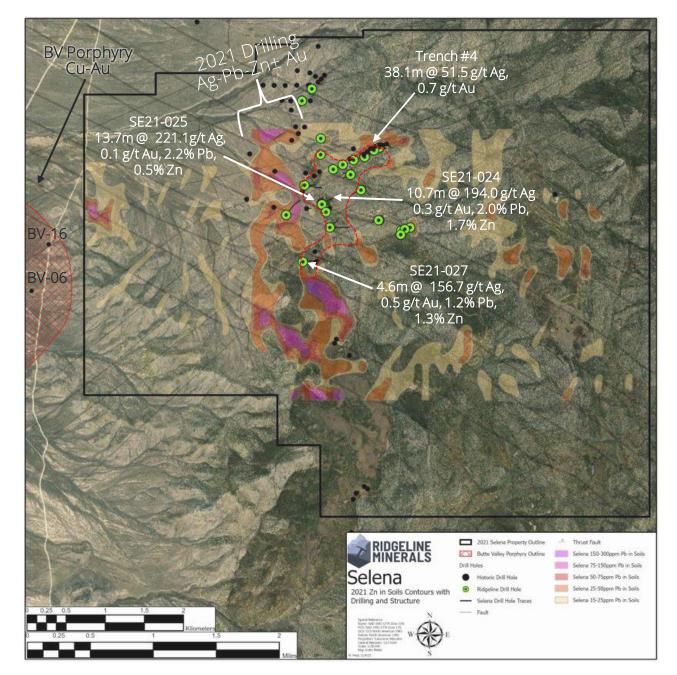
- Antimony highlights zone of highest Ag grades drilled todate on the property within discovery footprint
  - Au grades progressively decreasing to the west
  - Inverse relationship to Pb-Zn





# Pb in Soils

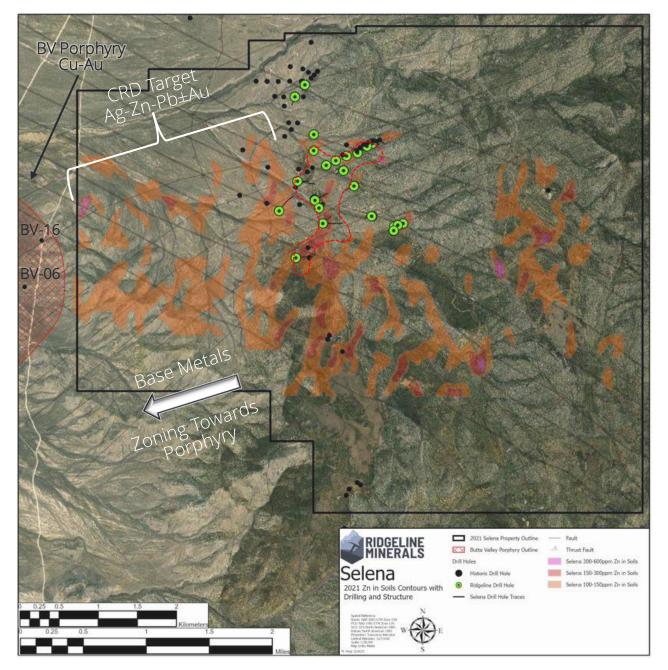
- Pb in soils values increasing towards the Butte Valley porphyry with highest values concentrated along a N/S trending thrust fault
  - Corresponding increase in downhole Ag-Pb-Zn and decrease in Au values





# Zn in Soils

- Zn in soils values increase considerably across CRD target relative to Pb-Sb-As
- Soils will be submitted to lab in November with results expected in late 2021
  - Anticipate improved resolution vs XRF data





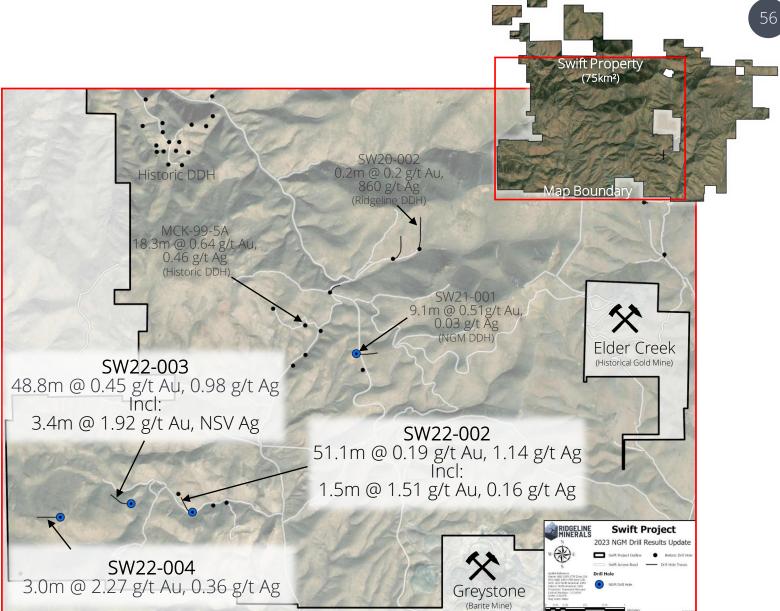


### **2022 Drill Results**

 NGM Q3-Q4 2022 drill program has intersected thick intercepts of alteration and anomalous gold grading up to 2.7 g/t Au

"It's well known that large Carlin-Type gold deposits tend to form kilometer-scale gold and trace element halos around them, and today's results suggest a significant gold system is present at Swift" Chad Peters, President, CEO & Director

February 16, 2023 Press Release HERE



See Ridgeline's February 16, 2023 Press Release HERE



#### Swift Appendix

# **Table of Assay Results**

 NGM Framework drilling has intersected widespread intercepts of gold across more than 3km of strike between MCK-99-5A and SW22-004 with individual grades of up to 2.7 g/t Au and 64.3 g/t Ag in select samples

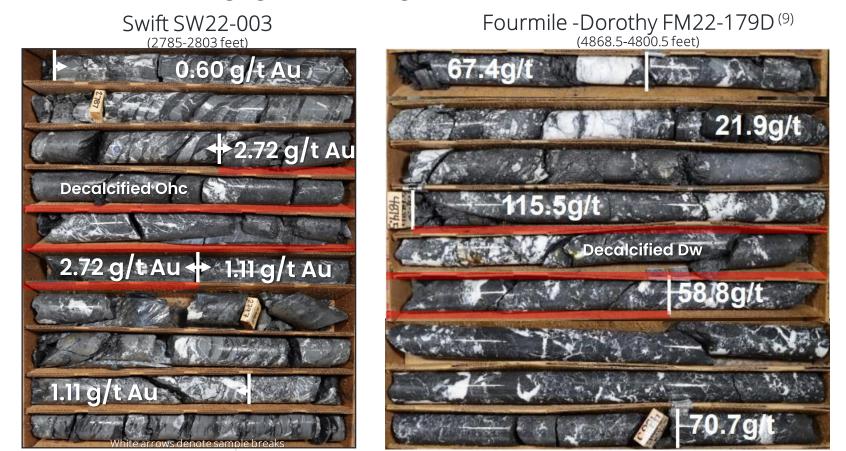
Swift Assay Composites									
Drill hole	Az/Dip	Total Depth (m)	From (m)	To (m)	Interval (m)	Au (g/t)	Ag (g/t)	Comments	
SW21-001	098/-65	962.3	8.5	17.6	9.1	0.51	0.03	Upper plate Valmy Fm. oxide zone	
SW22-002			565.1	572.1	7.0	0.76	0.49	Upper Plate Valmy Fm. at RMT thrust	
			594.2	626.9	32.7	0.18	1.38	Low-grade Au in Srm host rocks	
	273/-84	84 1,143.30	667.5	718.6	51.1	0.19	1.14	Low-grade Au in thrusted Srm and Ohc	
Including	luding		696.5	698.0	1.5	1.51	0.16	Elevated Au grades at Srm/Ohc contact	
			874.5	911.7	37.2	0.29	2.60	Mineralized low-angle thrust with Ohc over top of Ovi	
SW22-003 Including	9 1,030.80	598.3	641.3	43.0	0.27	0.51	Upper Plate Ovi		
		804.8	853.6	48.8	0.45	0.98	Mineralized low-angle thrust with Ovi over top of Ohc		
		850.2	853.6	3.4	1.92	NSV	Ag assays pending, assumed value of 0 g/t Ag in larger composite		
			999.6	1001.1	1.5	0.15	64.30	high-grade Ag in Ovi	
SW22-004 269/-71		724.5	727.5	3.0	2.27	NSV	Upper Plate Ovi, Ag assays pending		
	269/-71	1103.9	755.0	760.6	5.6	0.38	NSV	Upper Plate Ovi, Ag assays pending	
			842.2	848.3	6.1	0.27	NSV	Upper Plate Ovi, Ag assays pending	
SW20-002	010/-60	955.1	872.5	872.7	0.2	0.22	860.00	Ridgeline DDH, Ag hosted in quartz vein, includes 0.99% Pb and 0.27% Zr	
/CK-99-5A	000/00	0.40 5	726.9	745.2	18.3	0.64	0.46		
Including 000/-90		949.5	726.9	729.9	3.0	2.10	0.80	Historical DDH, Mineralized Dw directly beneath Roberts Mtn. thrust	
0		m. = Ovi, Roberts Mtn. Fr	n = Srm, Wenban	Fm. = Dw, H	lanson Creek Fm. =	Ohc, No Signi	icant Assay Va	dues = NSV	
rue widths unk	nown at this	time							





### Swift & Fourmile Core Photos

- SW22-003 intercept exhibits decalcification, collapse brecciation, calcite/dolomite veining and low-grade Au in Hanson Creek Limestone (Ohc) host rocks located stratigraphically below priority targets in the Wenban Limestone (Dw)
- FM22-179D<sup>(9)</sup> is an example of a Cortez District discovery with decalcified, collapse brecciated and calcite/dolomite veined Wenban Limestone host rocks with high-grade Au throughout



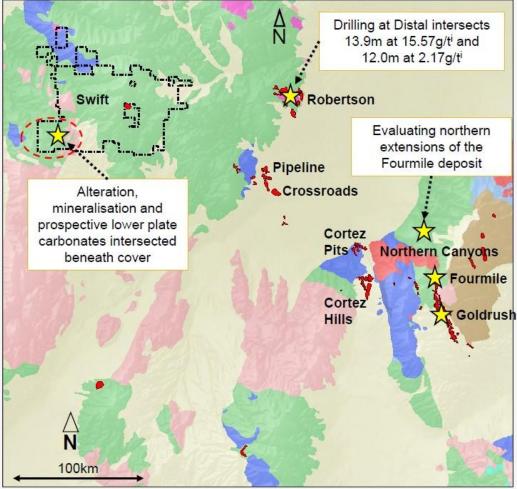


#### Swift Appendix

### Barrick Investor Day, November 18, 2022 Cortez District...

- Framework drilling at Northern Canyons intersected multiple intervals of elevated Carlintype geochemistry and anomalous gold in the northern extensions of key Fourmile structures
- Framework drilling on the Swift project, intersects Lower Plate carbonates at only 570 meters depth with several low angle structures, significant alteration and anomalous gold
- Drilling is in progress at Dorothy to test the open controlling structures around the high-grade breccia body

BARRICK





### Barrick Q4, 2022 Results – February 15, 2023

# North American exploration...new frontiers and high grade discoveries

#### **Exploring New Frontiers for both Gold and Copper**

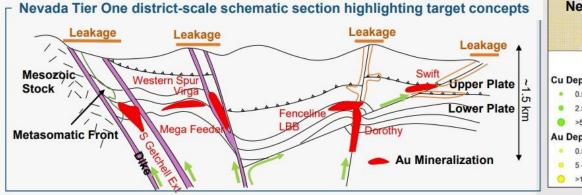
- Tier One copper country across the region
- Canada

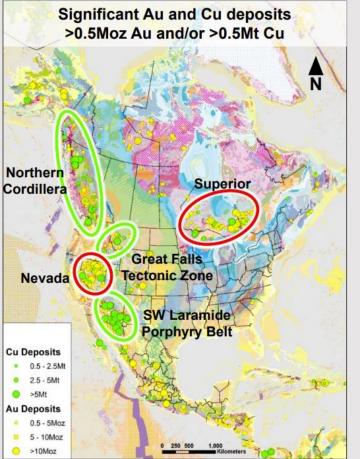
BARRICK

New greenfield districts leveraging exploration expertise

#### Nevada: High Grade Focus

- Delivering high grade discoveries
- Exciting targets advancing across all Tier One districts







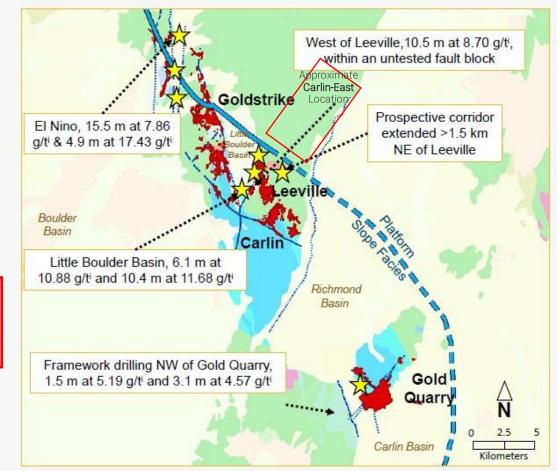




### **Barrick Investor Day, November 2022**

### Carlin Trend...multiple targets across world class camp

- West of Leeville along the Basin Bounding Fault, drilling has intersected strong mineralization, highlighting the opportunity for additional bonanza grade breccia bodies in the corridor
- Discovery of new mineralization at Virga, to the east of El Nino, continues to confirm the Western Spur as a priority target area in the camp
- New breccia body identified under cover in the Little Boulder Basin remains open for kilometres along strike
- Northeast of Leeville, drilling has intersected the thickest section ever of favourable host rocks, extending the prospective corridor over 1.5 km from the ore body
- Identification of a new fertile fault northwest of Gold Quarry with extensive alteration concealed undercover returns >100 meters of anomalism

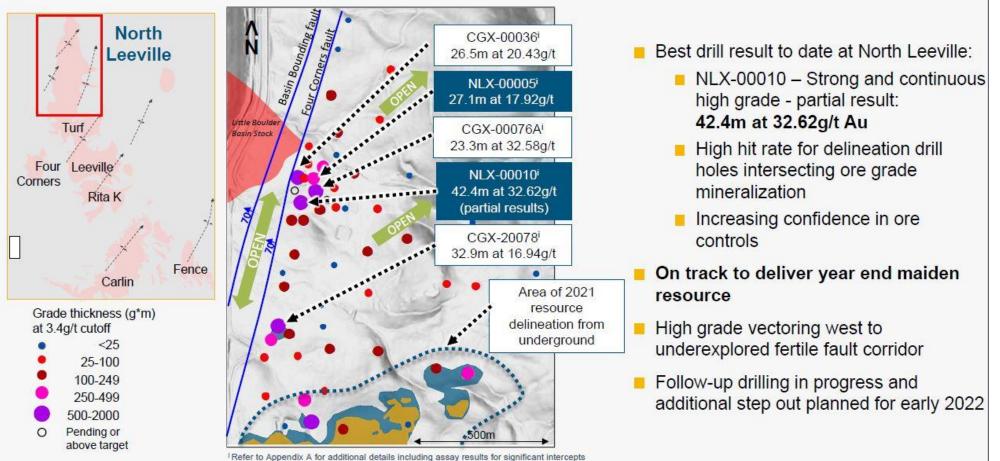




North Leeville Expansion

### Barrick Q3, 2021 Report

# North Leeville...Maiden resource and high grade potential materializing



NE LS

BARRICK

North Leeville Expansion

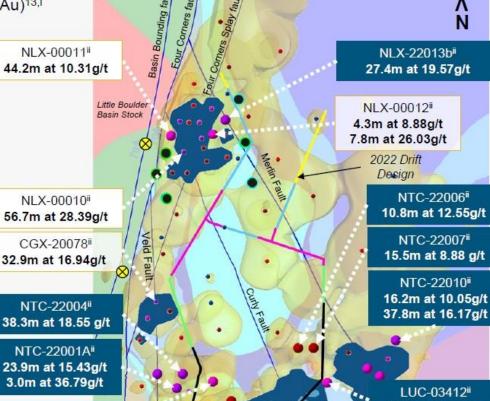
### **Barrick Q2, 2022 Report**

### North Leeville and North Turf on track for resource additions...

- North Leeville 0.7Moz maiden inferred resource (1.9Mt at 11.5g/t Au)<sup>13,i</sup>
- Resource expected to grow further in 2022:
  - NLX-22013b<sup>ii</sup>: 27.4m at 19.57g/t
- Potentially new high grade NW-NNW striking ore controls on the Eastern side (Merlin fault)
- North Turf continues to expand towards North Leeville
  - Multiple high grade-metre intercepts
- Underground drilling to reach southern part of North Leeville late in 2022 from exploration declines
- Significant alteration intercepted in exploration drilling along the Basin Bounding fault corridor and further west in the Little Boulder Basin



True widths for drillholes NTC-22001A and NTC-22010 are expected to be lower than the downhole widths presented because these holes were drilled at a low angle relative to the mineralization



Level Section at 1,100m, Dipping 10° N, 150m thick



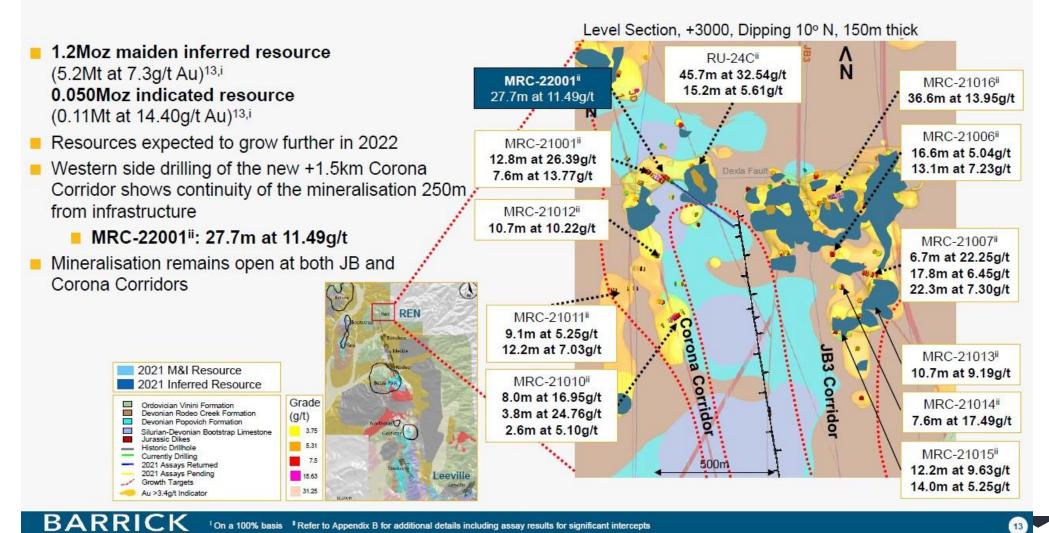
E



Ren Expansion

### **Barrick Q2, 2022 Report**

### **REN** on track for resource additions...



On a 100% basis Refer to Appendix B for additional details including assay results for significant intercepts



### Big Blue Rock Chip Table

 Ridgeline reconnaissance sampling in late 2022 focused on confirmation samples of Cu skarn at historic workings as well as baseline samples of unaltered carbonates, QFP dikes and oxide gossan

Big Blue - Rock Chip Table							
Sample ID	Cu %	Au (g/t)	Ag (g/t)	Target	Comments		
BB-RK-MH-001	0.02	0.03	0.29	100	Massive Fe Oxide		
BB-RK-MH-002	0.01	0.01	0.19		Massive Fe Oxide		
BB-RK-MH-003	0.04	0.04	0.25		Gossan on edge of hillside		
BB-RK-MH-004	0.01	0.01	BDL		Algal mat carbonate - Bio-Hornfels		
BB-RK-MH-005	0.01	0.01	0.19	Skarn Hill	Scoop sample - altered carbonate rubble		
BB-RK-MH-006	0.01	0.00	BDL		QFP Dike		
BB-RK-MH-007	0.02	0.02	BDL		Unaltered platy shale Pa?		
BB-RK-MH-008	0.02	0.01	BDL		Alterd platy shale Pa?		
BB-RK-MH-009	2.24	0.02	0.10		Oxide Cu Skarn- Adit		
BB-RK-MH-010	2.25	0.02	BDL		Oxide Cu Skarn- Adit		
BB-RK-MH-011	1.65	0.02	BDL	Delker Mine	Delcer adit Sample		
BB-RK-MH-012	6.44	0.16	53.75	Skarn Hill	Skarn Hill Adit		
BB-RK-MH-013	1.39	0.02	0.92	Delker Test Pit	Oxide Cu Skarn		
BB-RK-MH-014	0.03	0.01	BDL	Deiker Test Fil	Gossan		
BB-RK-MH-015	4.88	0.10	BDL		Delker mine dump		
BB-RK-MH-016	2.95	0.22	0.42	Delker Mine	Delker mine dump gossan		
BB-RK-MH-017	3.79	0.07	BDL		Oxide Cu Skarn- Adit		
BB-RK-MH-018	2.74	0.18	0.20		Hematite rich Gossan		
BB-RK-MH-019	6.31	0.09	4.21	Delker Test Pit	Oxide Cu Skarn		
*BDL - Below Assay	Detection Lim	it					



APPENDIX

### **Robber Gulch**



#### ROBBER GULCH

### Schematic X-Section A-A'

- Widespread oxide gold in historical drilling with mineralization starting from surface and open in all directions
- Backpack drilling by Ridgeline team in Q4 2022 will test outcropping mineralization (6.5 g/t Au) to the west of AC-4

