

Developing the Cerro Las Minitas Project into the Next Major Silver Mine in Mexico



SouthernSilver
EXPLORATION CORP

Corporate Presentation
February, 2025



SSV: TSX-V
SSVFF: OTCQX

Some of the statements contained in this presentation may be deemed “forward-looking statements.” These include estimates and statements that describe the Company’s future plans, objectives or goals, and expectations of a stated condition or occurrence.

Forward-looking statements may be identified by the use of words such as “believes”, “anticipates”, “expects”, “estimates”, “may”, “could”, “would”, “will”, or “plan”. Since forward-looking statements are based on assumptions and address future events and conditions, by their very nature they involve inherent risks and uncertainties.

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The TSX Venture Exchange has not reviewed and does not accept responsibility for the adequacy or accuracy of the contents of this presentation, that has been prepared by management.

The scientific and technical content of this disclosure was reviewed and approved by Robert Macdonald, MSc. P.Geo, VP. Exploration, and is a Qualified Person as defined by National Instrument 43-101 – Standards of Disclosure for Mineral Projects.

All mineral resources have been estimated in accordance with Canadian Institute of Mining and Metallurgy and Petroleum (CIM) definitions, as required under NI43-101.

Mineral resources reported demonstrate reasonable prospect of eventual economic extraction, as required under NI43-101.

Mineral resources are not mineral reserves and do not have demonstrated economic viability. The mineral resources may be materially affected by environmental, permitting, legal, marketing, and other relevant issues.

The PEA is preliminary in nature, it may include mineral resources that are considered too speculative geologically to have the economic considerations applied to them that would enable them to be categorized as mineral reserves, and there is no certainty that the PEA will be realized.

An inferred mineral resource has a lower level of confidence than that applying to an indicated mineral resource and must not be converted to a mineral reserve. It is reasonably expected that most of the inferred mineral resources could be upgraded to indicated mineral resources with continued exploration.

All-in Sustaining cost (AISC) is calculated as: Operating costs (mining, processing and G&A) + Incremental PTUs + Concentrate Transportation + Treatment & Refining Charges + Penalties + Sustaining Capital + Closure Costs + Silver Revenue Royalty and is reported on using a per tonne mined, AgEq plant feed, AgEq recovered for sale, and AgEq payable basis

PEA work completed by:

Kirkham Geosystems Ltd. (KGL): mineral resource estimate from June, 2024;

Entech Mining Limited (Entech): mine design and mine OpEx and capital;

Ausenco Engineering (Ausenco): process flowsheet, mine site design and surface OpEx, CapEx and discounted cash-flow model – reviewed and scrutinized metallurgical assumptions;

Metallurgical Process Consultants Limited (MPC): metallurgy and process flowsheet

Focused on developing the Cerro Las Minitas (CLM) Ag-Cu-Pb-Zn project located in Durango, Mexico



One of the Largest and Highest Grade Undeveloped Silver Projects in the World

Mineral Resource Update

- **Ind: 116Moz AgEq at 271g/t AgEq¹**
- **Inf: 186M oz AgEq at 248g/t AgEq¹**
- Well-established silver mining district in Durango, Mexico near several major mining companies



2024 PEA Highlights

- 17yr Life-of-Mine
- **Underground Mine**
- Robust Project Economics
- **Strongly Leveraged to Silver and Zinc prices**
- High Revenues/Free Cash-flow



Corporate Highlights

- 100% ownership and control of the CLM Project
- **No Royalties**
- Treasury to continue ESG initiatives, permitting, drilling, engineering and other Corporate objectives



Company Catalysts (pending News Flow)

- **Updated PEA - announced**
- Drilling started at CLM project
- Permitting for 2025 drilling-Hermanas Au-Ag Project, NM; Oro Cu-Mo project, NM

1. Parameters for the NI 43-101 Mineral Resource Estimate are described on Slide 19 and in the SSV News Release, dated June 10th, 2024

Cerro Las Minitas

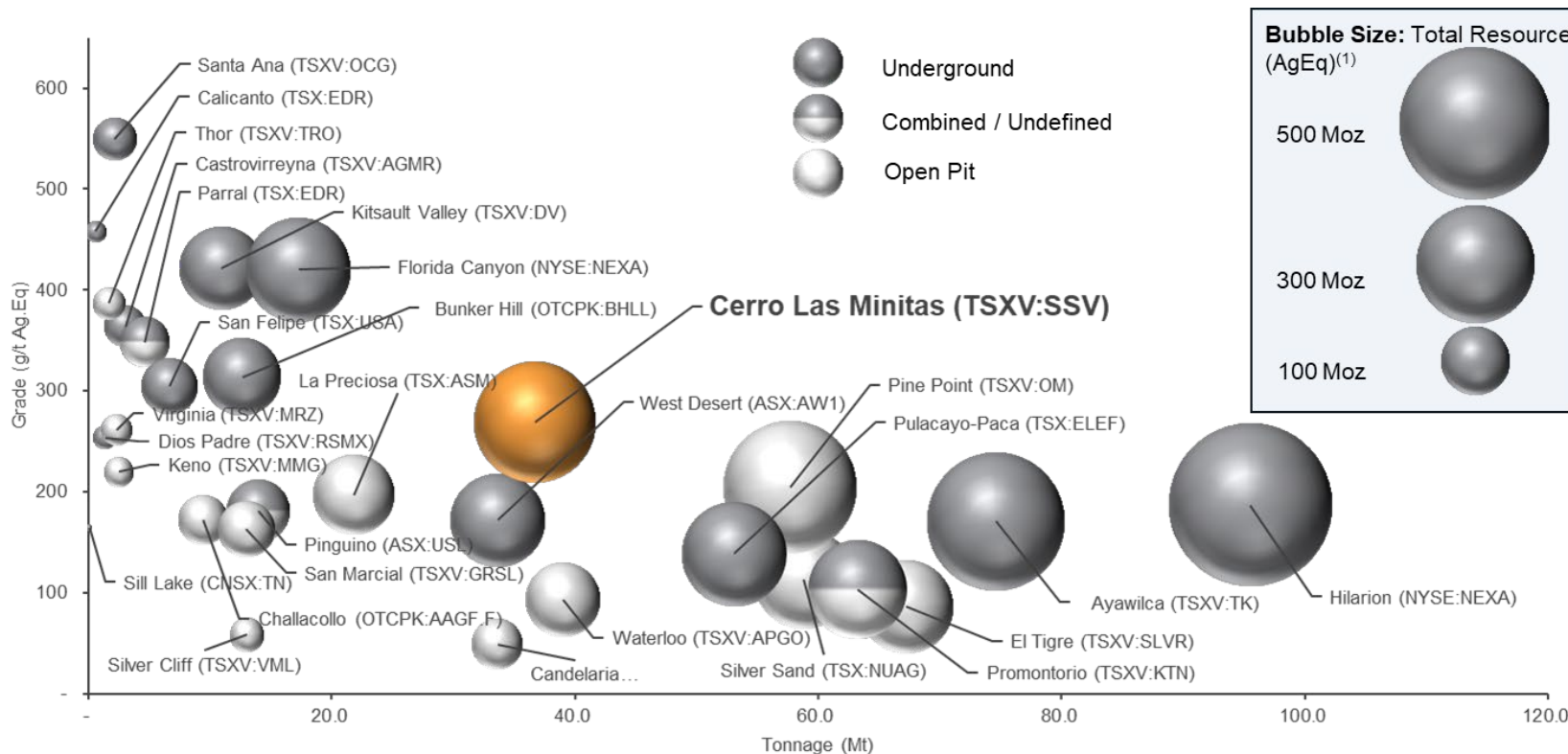
One of the Largest and Highest Grade Undeveloped Silver Assets in the World

2024 Mineral Resource Estimate (as of March 20nd, 2024 using a \$60NSR/t cut-off)¹;

Indicated – 116Moz AgEq 43Moz Ag, 32Kozs Au, 49Mlb Cu, 374Mlb Pb and 921Mlb Zn

Inferred – 186Moz AgEq: 83Moz Ag, 104Kozs Au, 111Mlb Cu, 582Mlb Pb and 1,106Mlb Zn

Silver or Zinc primary development assets in the Americas with a resource or study published since January 1, 2020 and whose primary owners have market capitalization between US\$10M and US\$1B



The CLM project remains on the leading edge of the Grade vs Tonnage curve of peer group deposits throughout the world

Notes:

1. Parameters for the NI 43-101 Mineral Resource Estimate are described on Slide 19 and in the SSV News Release, dated Jun 10th, 2024

Notes for chart

Note: Data as of August 30, 2024

Prices Used (US\$): Gold - \$1,850/oz, Silver - \$22.50/oz, Copper - \$3.78/lb, Lead - \$0.94/lb, Zinc - \$1.25/lb

A 100% basis

Excludes assets with resources that exceed 120 Mt

Capital Structure

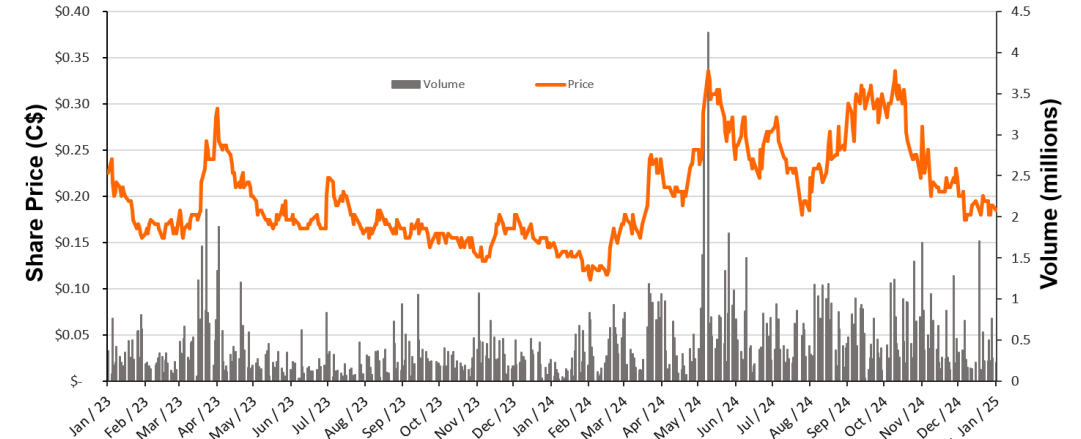
Ticker	TSX-V:SSV
Share Price (Jan 9, 2025)	C\$0.19
Current Shares Outstanding	309M
Options	27.6M ¹
Warrants	46.0M ²
Fully Diluted Shares Outstanding	383M
Market Capitalization	C\$58.8M
Cash & Cash Equivalents	C\$1.3M
Enterprise Value	C\$62.7M
Enterprise Value	US\$45.2M
EV/Oz AgEq	US\$0.15
P/NAV	0.12x

Top Shareholders

Institutional	34%
Management & Directors	2.3%

- Includes 24.3M options outstanding with a weighted average exercise price of C\$0.37/share and a weighted average remaining term of 3.8 years
- Includes 49.8M warrants outstanding with a weighted average exercise price of C\$0.44/share and a weighted average remaining term of 1.8 years

Share Price and Volume (Last 24 Months)



Analyst Coverage

Timothy Lee – *Red Cloud Securities Ltd.*
Siddharth Rajeev – *Fundamental Research Corp.*

Recent Ratings

	Date	Reccomendation (C\$)
<i>Red Cloud Securities</i>	Jun-11-2024	Buy (\$0.90)
<i>Fundamental Research</i>	Jun-21-2024	Buy (\$0.60)

Newsletter Coverage

Caesars Report – Thibaut Lepouttre
Silver Stock Investor – Peter Krauth
GoldSilver.com/SilverChartist – Jeff Clark

Management Team and Board

Experienced Mine Finders with a History of Success in Mexico



Lawrence Page (LL.B, KC)

President, Director

- Director and Officer of a number of public prominent exploration and mining companies
- Major Projects and Mines involvement: Penasquito, Mexico; Hemlo and Eskay Creek, Canada

Rob MacDonald (MSc, PGeo)

VP, Exploration

- VP of Geological Services for the Manex Resource Group of Companies and Exploration Manager for several publicly listed companies
- Overseen the exploration of many projects throughout North America including the discovery and delineation of the Homestake Ridge high-grade 1.2M oz Au-Ag deposit in northern British Columbia

Killian Ruby (CPA, CA, B. Sc.)

Chief Financial Officer

- President and CEO of Malaspina Consultants & Manex Resource Group
- Served as an Assurance Partner at Wolrige Mahon LLP and served as Served as Senior Manager of KPMG LLP

Arie Page

Corporate Secretary

- Currently serves as corporate secretary to several public resource companies in the minerals sector including Bravada Gold Corporation, Pacific Ridge Exploration Ltd., Southern Silver Exploration Corp. and Valterra Resource Corporation.

Russell Ball (CA, CPA)

Director

- Managing Director of QDBS Resources Inc. and former CEO, Director and Exec. Chairman of Calibre Mining Corp
- Former EVP and CFO of Goldcorp Inc as well as varying capacities with Newmont Mining Corp

Peter Cheesbrough (CA)

Director

- President, Exploration Division, Electrum Group
- Served as CFO, Echo Bay Mines

Gina Jones (CPA, CA, CF, ICD.D)

Director

- Currently serves as CFO, CCO PenderFund Capital Management Ltd., Served as CFO for two Vancouver Investment Dealers and CFO, COO for an independent Vancouver brokerage firm.

Roger Scammell (BSc, PGeo)

Director

- Served as President Scorpio Mining Corporation and VP Exploration of Tamaka Gold Corporation
- Major Projects and Mines involvement: San Nicolas, El Limon and Nuestra Senora, Mexico

Nigel Bunting

Director

- Served as director Suffolk Life Pensions Ltd

Cerro Las Minitas, Durango, Mexico – Flagship

- 100% owned
- Silver-enriched Skarn/CRD deposits
- +US\$28M spent on acquisition and exploration since 2011
- Further Upside on both Exploration and Engineering basis

Oro Project, New Mexico

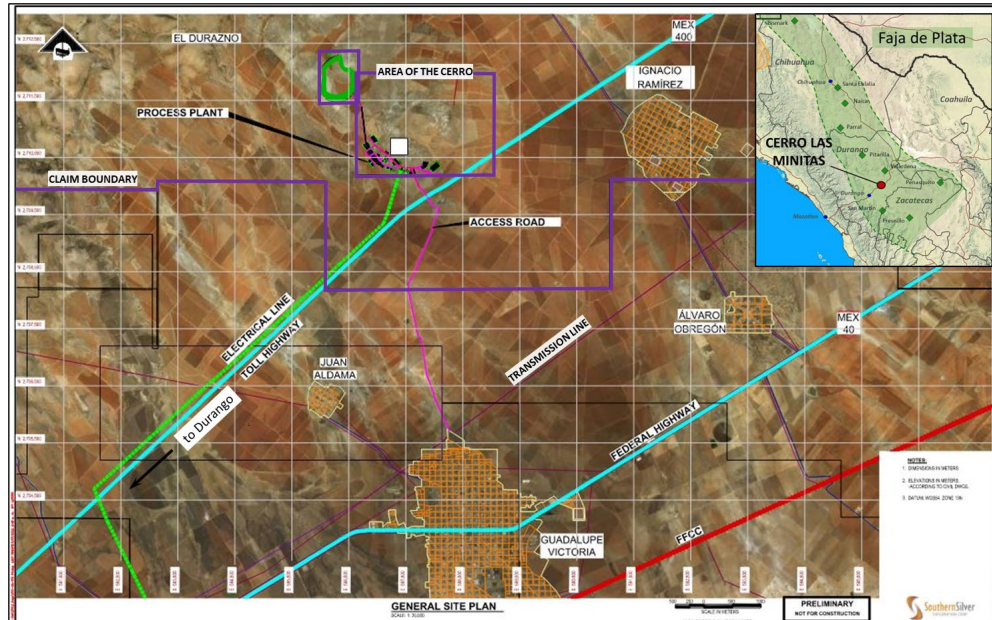
- 100%-owned
- Large Laramide Cu-Au-Mo porphyry system with an adjacent near surface gold target
- New targeting developed based on recent drill results

Hermanas Project, New Mexico

- Option to 100% own
- Large early-stage Au-Ag epithermal vein system



Well Located in an Active Exploration and Development Jurisdiction with Superior Infrastructure



- Safe jurisdiction, around non-narcotic related agriculture
- Located 70km NE of Durango (pop. ~650,000)
- The property is transected by infrastructure including two federal highways, a railway line and transmission lines
- Property is accessed via the town of Guadalupe Victoria (pop: ~35,000) located just 6km to the south

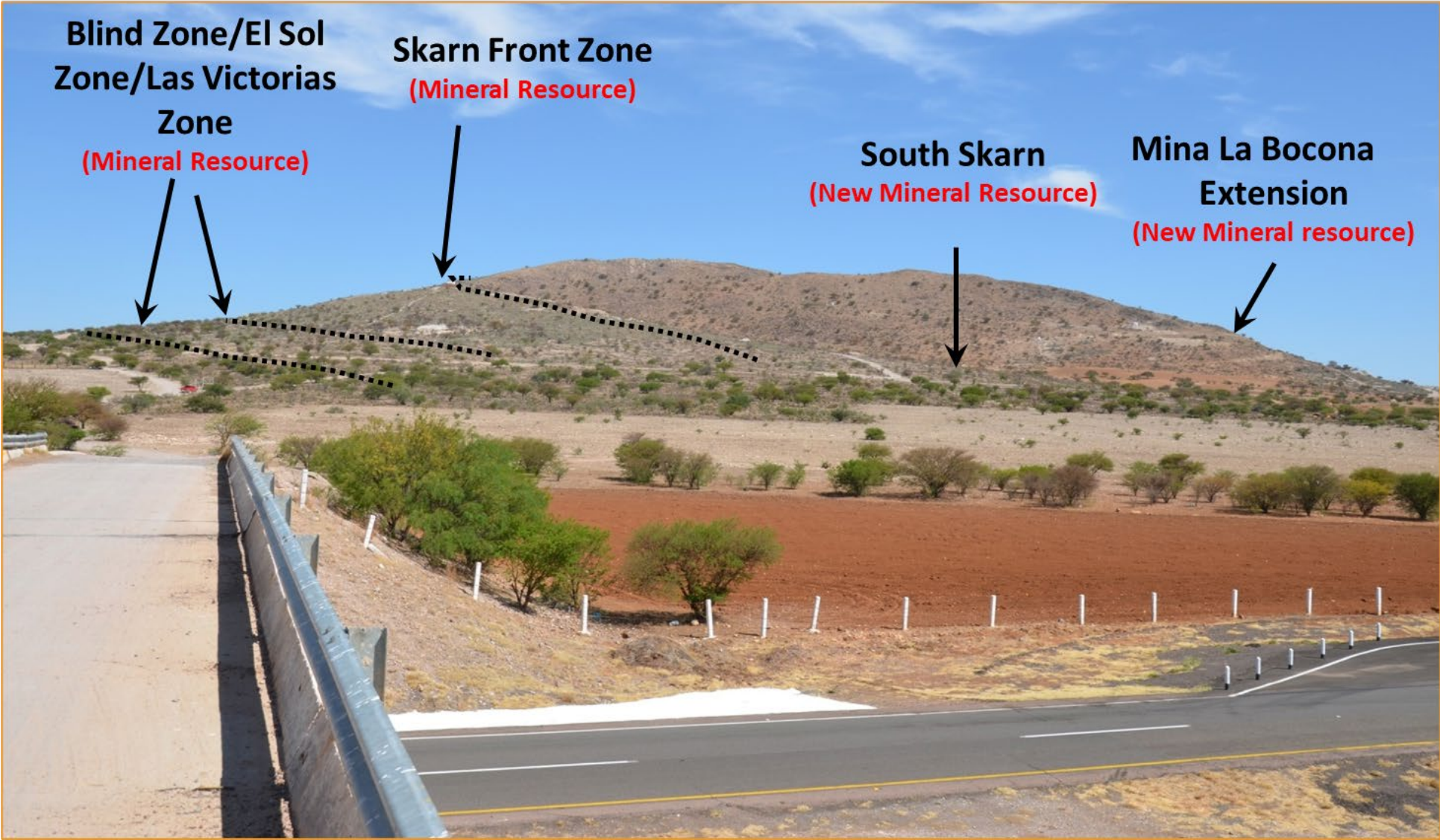
Knowledgeable and Supportive Local Community



- Exploration permits in place
- Social license initiatives: exploration access agreements in place with the local Ejido;
- Exploration/development team is embedded in the community with a local workforce

Cerro Las Minitas

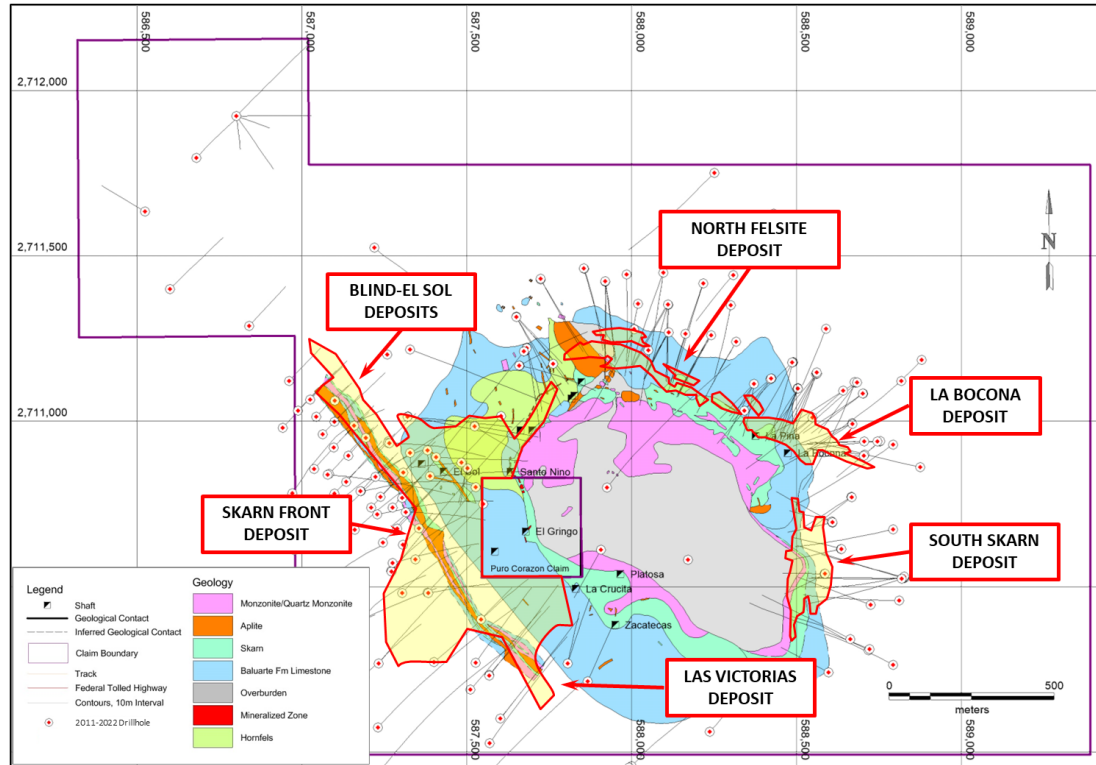
Looking North from the Autopista (Highway)



Cerro Las Minitas

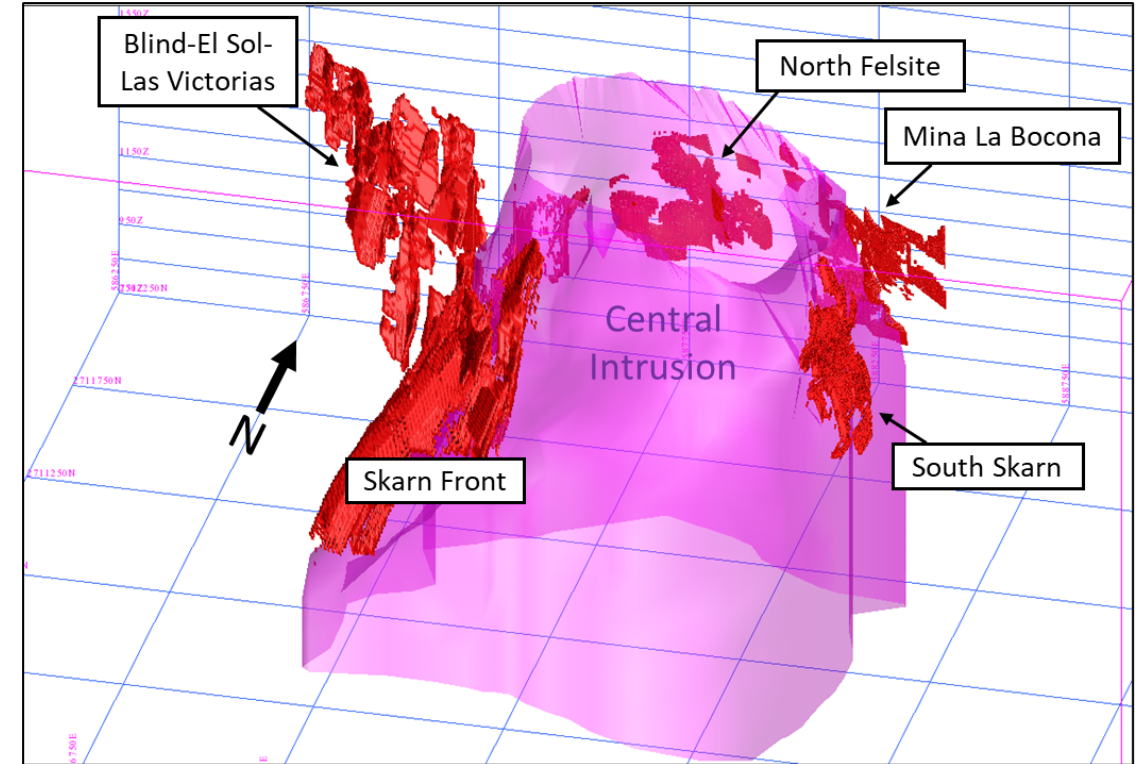
Site Geology and Deposit Distribution

A classic Ag-Pb-Zn CRD/Skarn system similar to major polymetallic Mexican deposits



- A Central Monzonite acts as the heat pump to the mineralizing system
- Historic Mines are localized in the skarn/hornfelsed margin of the monzonite

Seven deposits make up the current Mineral Resources



- Mineralization is localized in sub-vertical structures and on dyke margins in the Blind and El Sol deposits; and
- Semi-massive and massive sulphide lenses occur at the marble-skarn transition, adjacent to the monzonite contact in the Skarn Front, South Skarn and Mina La Bocona deposits

Robust Project Economics:

- Base Case¹: post-tax NPV5% = **US\$501M** (C\$682M) and IRR of **21.2%**;

Excellent Silver and Zinc Price Leverage:

- Base-case +20%²: after-tax NPV5% of **US\$875M** (C\$1,193M) and IRR of **30.2%**;

A Large-Scale Underground Mining Operation: 17-year mine life

Annual average plant feed: **14.3 Mozs AgEq** (inc. 5.8 Mozs Ag)

Life-of-Mine (LOM) feed: **242.7 Mozs AgEq** (inc. 98.6 Mozs Ag). LOM sales total 194.3 Mozs AgEq at an AISC of US\$13.23/oz AgEq sold; and

Base-case gross revenues: **US\$4.5B** with silver and gold representing 45% of revenues, and zinc representing 35% of projected revenues.

Initial CapEx: **US\$388M**,

NPV5%-to-CapEx ratio: of **1.3X** and a paydown of **48** months;

In comparison to the earlier 2022 economic model, the updated PEA now:

- Increases the Life of Mine (LOM) production by **5Mt**, representing an approximate 20% increase;
- Increases daily mine production to up to **5300tpd**, representing an approximate 18% increase;
- Extends the mine life by **2.6yrs**;
- Increases the LOM Revenue by **US\$765M**, representing an approximate 17% increase in revenues.
- Increases the after-tax NPV5% by 45% and
- Similarly, increases the IRR by 3.3%

1. Base Case Metal Prices (\$US): Ag- \$23.00/oz, Au - \$1850/oz, Cu – \$4.00/lb, Pb – \$1.00/lb and Zn - \$1.25/lb
2. Base Case +20% metal prices (\$US): Ag- \$27.60/oz, Au - \$2220/oz, Cu – \$4.80/lb, Pb – \$1.20/lb and Zn - \$1.50/lb

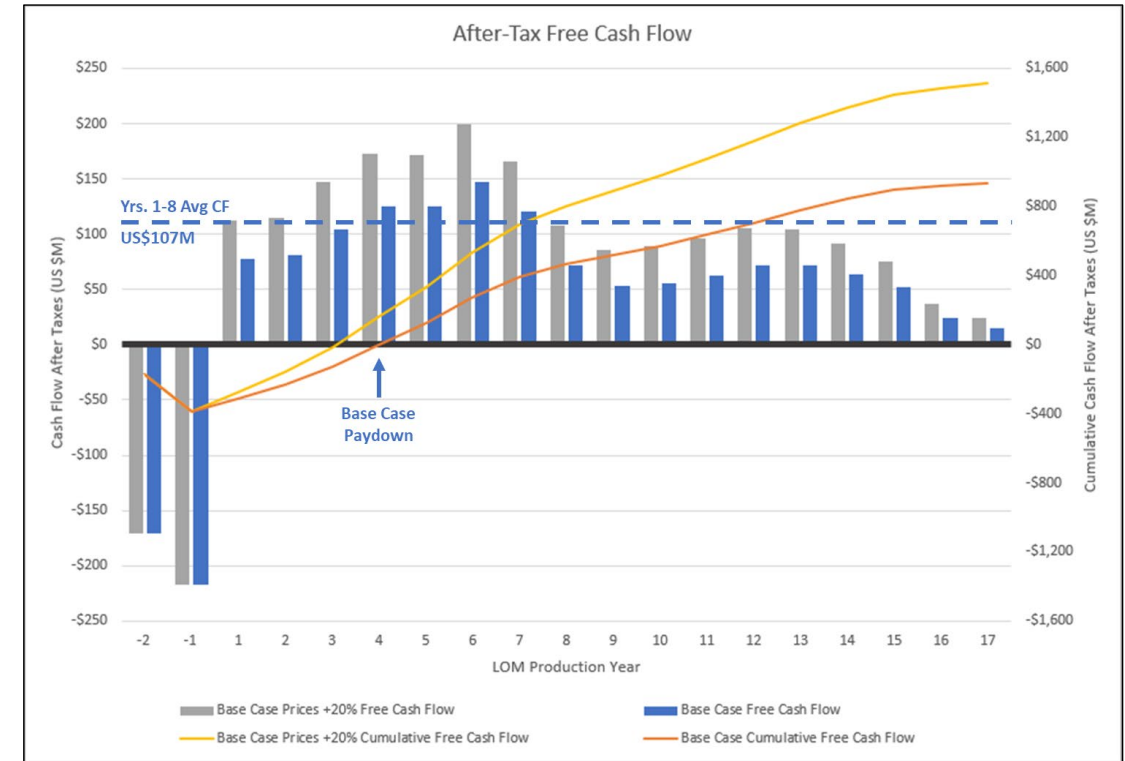
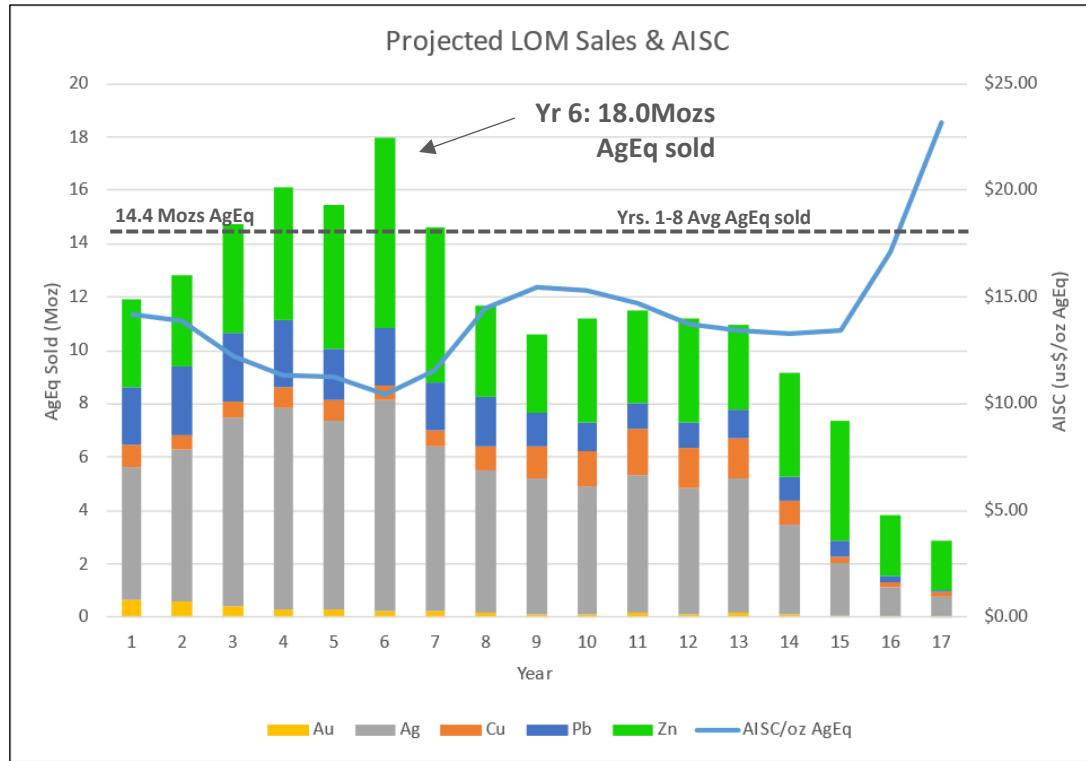
Cerro Las Minitas

Project Economics – Production Schedule and Cash Flow



Modelled LOM Production: 29.5 Mt @ 104 g/t Ag, 0.11g/t Au, 0.19 % Cu, 1.06 % Pb, and 2.41 % Zn - Average NSR of \$US 131/t

Higher Margin Mineralization Targeted in the First Eight Years of Production Leading to Improved Economics.



LOM Ag/Au/Cu/Pb/Zn sales are shown on an AgEq basis based on: Ag = \$23.00/oz, Au = \$1850/oz, Cu = \$4.00/lb, Pb = \$1.00/lb and Zn = \$1.25/lb

All-in Sustaining cost (AISC) is calculated as: Operating costs (mining, processing and G&A) + Concentrate Transportation + Treatment & Refining Charges + Penalties + Sustaining Capital + Closure Costs and is reported on co-byproduct basis using AgEq.

1. Base Case Metal Prices: Ag- \$23.00/oz, Au - \$1850/oz, Cu – \$4.00/lb, Pb – \$1.00/lb and Zn - \$1.25/lb
2. Base Case +20% metal prices: Ag- \$27.60/oz, Au - \$2220/oz, Cu – \$4.80/lb, Pb – \$1.20/lb and Zn - \$1.50/lb

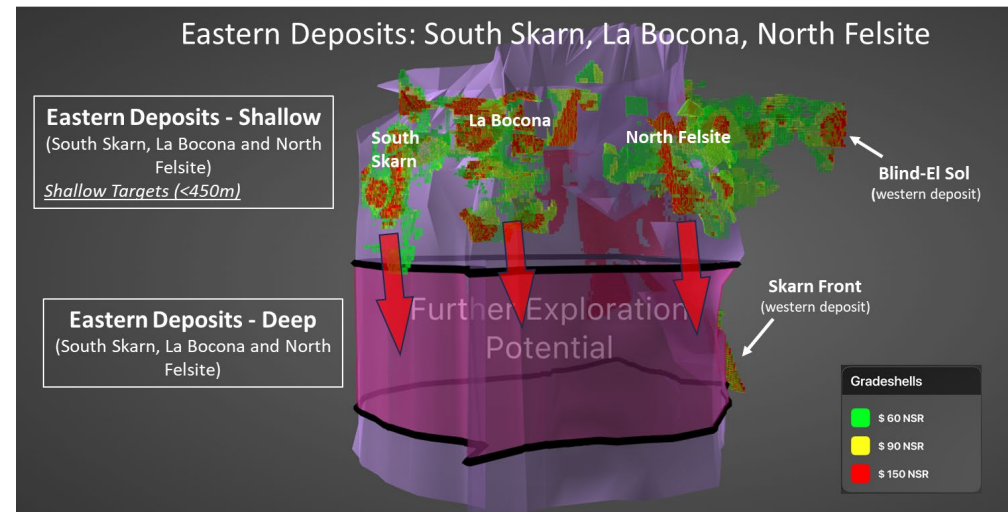
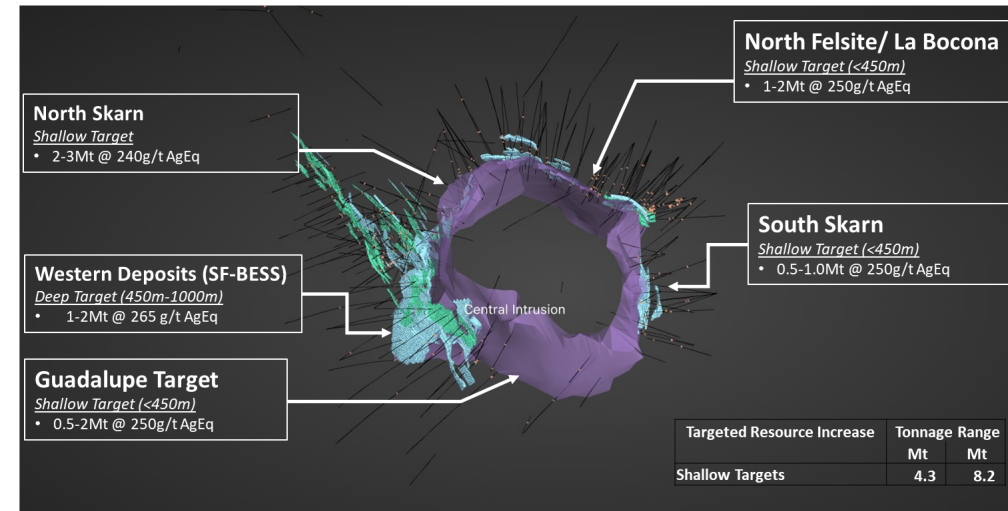
Several Significant Shallow Extensions to Existing Deposits Remain to be Tested

25,000m of new drilling is identified which would target Resource Expansion in the Eastern and Northern Deposits

- Potential Staged Program:
 - 6000m to test shallow targets around the eastern and northern deposits
 - Up to 19,000m to test down-dip projections of the South Skarn and Bocona deposits
- Exploration target of 4Mt to 8Mt

Near Term Milestone:

- Increase the total resources of the project to 45Mt
- Deeper Targets are more speculative and will require significantly more drilling but could add further value to the project

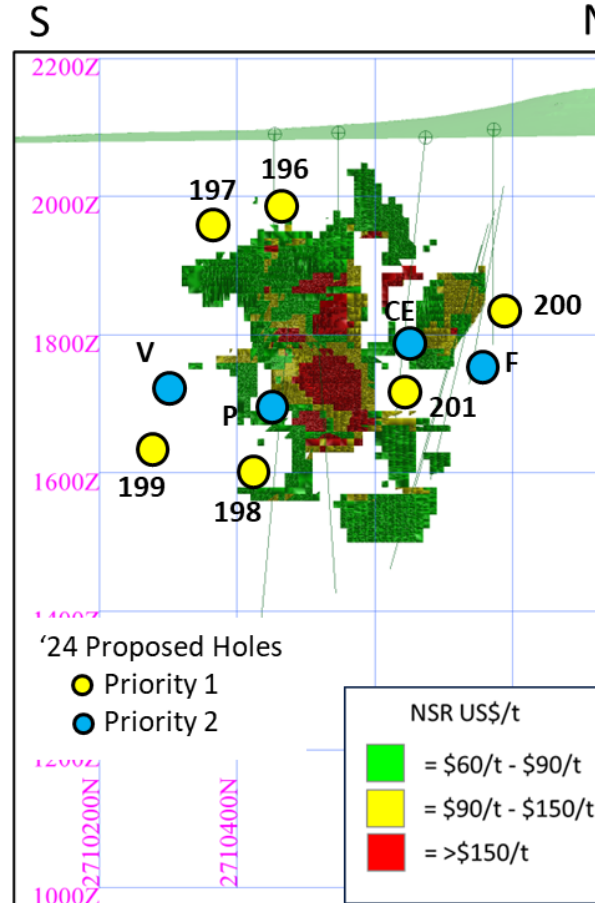


The exploration targets are conceptual in nature and rely on projections of mineralization that are beyond the standard CIM classification of mineral resources and should not be relied on as a mineral resource estimate

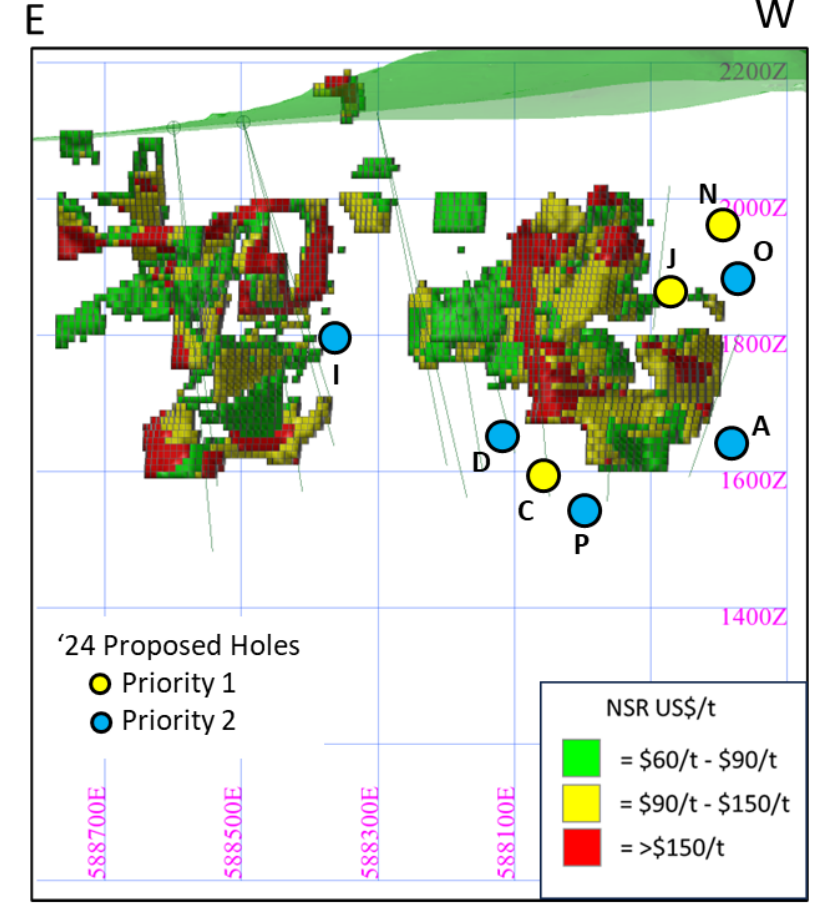
Mine Life Extension

- **Priority:** Fill in Gaps in both the resource model and near-term expansion of the existing mine-plan
- Initial 6000m program; shallow targets <500m
- 6 holes completed = 2395m
- **Assays Pending**
- Next step: drilling at N. Felsite

South Skarn



La Bocona - North Felsite



The PEA has modelled robust annual average cashflow particularly in the first eight years of mine-life. Further work could enhance the profitability of the project

Further Opportunities

Mine life extension:

- 25,000 metres of drilling could add 4Mt - 8Mt of additional shallow (<500m depth) mineralization to the Mineral Resource
- Further deeper exploration potential
- 6,000m Proof-of-concept drilling initiated to test shallow targets

Engineering

- Development Rate
- Mill Through-put
- Processing Circuit Optimization
- Ore-sorting

ESG and Permitting

Continuing on the Pathway to Production

- Permitting parameters - **established**
- Baseline studies (Environmental/Hydrology) – **in progress**
- Social engagement – **ongoing**; inc. preparation for Exploitation Agreements
- Government engagement – **ongoing**

Preparation for Resource Expansion

- Technical studies to assist initial drill targeting – **completed**
- Targeting established to grow the Resource to +45Mt

US Exploration

Southern continues to advance two earlier stage projects in southern New Mexico, giving the shareholder additional exposure to copper, gold and silver



➤ Oro Project – Large Laramide Cu-Mo-Au Porphyry

- 100% Owned
- +22.4 sq. km property – large zoned porphyry system
- +\$8M Expenditures – 29 Drill holes by SSV
- New claims added
- Permitting in progress for drilling in 2025

➤ Hermanas – Widespread Epithermal Vein system

- Geology Favorable for Large Epithermal Vein System with limited historic drilling
- High-level textures suggesting good exploration potential at depth
- Numerous Au, Ag occurrences
- Permitting in progress for drilling in 2025



Diverse Assets

Property Package with
Exposure to both
Precious and Base/EV
Metals

CLM - PEA Results

17yr Mine life
US\$4.5B – revenues
NPV5% - US\$501M
IRR – 21.2%

Catalysts

Q4 '24 Drill Results
Metal Prices

Ongoing

CLM: Resource Expansion
targets and Project
Optimization

Appendix

2024 Mineral Resource Estimate (as of March 20, 2024 using a US\$60/t NSR cut-off);

- Indicated – 116Moz AgEq: 43Moz Ag, 49Mlb Cu, 374Mlb Pb and 921Mlb Zn (272g/t AgEq; or US\$132 NSR/t)
- Inferred – 186Moz AgEq: 83Moz Ag, 111Mlb Cu, 582Mlb Pb and 1,106Mlb Zn (247g/t AgEq or US\$124 NSR/t)

Indicated Resources		Average Grade							Contained Metal					
Zone	Tonnes (Kt)	Ag (g/t)	Au (g/t)	Pb (%)	Zn (%)	Cu (%)	AgEq (g/t)	NSR (US\$/t)	Ag TrOz (000's)	Au TrOz (000's)	Pb (Mlbs)	Zn (Mlbs)	Cu Lbs (Mlbs)	AgEq TrOz (000's)
Blind Zone	2,614	92	0.04	1.8	2.0	0.10	227	113	7,751	4	106	116	6	19,108
El Sol Zone	1,252	77	0.04	2.1	1.9	0.08	214	106	3,102	2	57	54	2	8,598
Skarn Front Zone	7,626	104	0.06	0.8	4.1	0.19	298	143	25,557	15	128	692	32	73,181
La Bocona/North Felsite Zone	1,807	121	0.19	2.1	1.5	0.23	262	135	7,039	11	82	59	9	15,243
Total	13,299	102	0.07	1.3	3.1	0.17	272	132	43,449	32	374	921	49	116,130

Inferred Resources		Average Grade							Contained Metal					
Zone	Tonnes (Kt)	Ag (g/t)	Au (g/t)	Pb (%)	Zn (%)	Cu (%)	AgEq (g/t)	NSR (US\$/t)	Ag TrOz (000's)	Au TrOz (000's)	Pb (Mlbs)	Zn (Mlbs)	Cu Lbs (Mlbs)	AgEq TrOz (000's)
Blind Zone	1,697	74	0.20	1.2	1.8	0.08	192	95	4,029	11	46	66	3	10,456
Las Victorias Zone	1,417	124	0.65	1.9	2.2	0.12	307	155	5,629	30	58	69	4	14,001
El Sol Zone	1,168	57	0.03	1.7	2.1	0.06	185	90	2,150	1	43	53	1	6,962
Skarn Front Zone	12,444	110	0.05	0.7	2.6	0.32	254	126	43,834	20	180	711	88	101,620
La Bocona/North Felsite Zone	2,666	120	0.22	1.4	1.6	0.13	243	124	10,327	19	85	95	7	20,864
South Skarn Zone	4,036	134	0.19	1.9	1.3	0.08	250	129	17,393	24	170	112	7	32,481
Total	23,428	111	0.14	1.1	2.1	0.21	247	124	83,362	104	582	1,106	111	186,384

Notes:

- 1) The current Resource Estimate was prepared by Garth Kirkham, P.Geo., of Kirkham Geosystems Ltd.
- 2) All mineral resources have been estimated in accordance with Canadian Institute of Mining and Metallurgy and Petroleum ("CIM") definitions, as required under National Instrument 43-101 ("NI43-101").
- 3) Mineral resources were constrained using continuous mining units demonstrating reasonable prospects of eventual economic extraction.
- 4) Silver Equivalents were calculated from the interpolated block values using relative recoveries and prices between the component metals and silver to determine a final AgEq value. Metal recoveries: 95% silver, 75% gold, 70% copper, 87% lead and 93.2% zinc.
- 5) Silver Equivalents and NSR\$/t values were calculated using average long-term prices of \$22.5/oz. silver, \$1,850/oz. gold, \$3.78/lb. copper, \$0.94/lb. lead and \$1.25/lb. zinc. All prices are stated in \$USD.
- 6) The formula used for NSR\$/t calculations was as follows - $NSR = (Ag\ g/t \times 0.55) + (Au\ g/t \times 34.45) + (Cu\ \% \times 48.68) + (Pb\ \% \times 13.41) + (Zn\ \% \times 15.59)$
- 7) Mineral resources are not mineral reserves until they have demonstrated economic viability. Mineral resource estimates do not account for a resource's mineability, selectivity, mining loss, or dilution.
- 8) An Inferred Mineral Resource has a lower level of confidence than that applying to an Indicated Mineral Resource and must not be converted to a Mineral Reserve. It is reasonably expected that the majority of Inferred Mineral Resources could be upgraded to Indicated Mineral Resources with continued exploration.
- 9) All figures are rounded to reflect the relative accuracy of the estimate and therefore numbers may not appear to add precisely.