

Excelsior

MINING CORP

We make copper green.

October 2020

TSX: MIN
Frankfurt: 3X3
OTCQX: EXMGF

Disclaimers

Special Note Regarding Forward-Looking Information: This presentation contains "forward-looking information" concerning anticipated developments and events that may occur in the future. Forward looking information contained in this presentation includes, but is not limited to, statements with respect to: (i) the estimation of mineral resources and mineral reserves; (ii) the robust economics, potential returns associated with the Gunnison Project, (iii) the technical viability of the Gunnison Project; (iv) the market and future price of copper; (v) expected infrastructure requirements; (vi) the results of the PFS including statements about future production, future operating and capital costs, the projected IRR, NPV, payback period, construction timelines, permit timelines and production timelines for the Gunnison Project; (vii) the timeline for a feasibility study; (viii) future exploration potential; (ix) the permitting process and permitting risk; and (x) the ability to mine the Gunnison Project using in-situ recovery mining techniques.

In certain cases, forward-looking information can be identified by the use of words such as "plans", "expects" or "does not expect", "is expected", "budget", "scheduled", "estimates", "forecasts", "intends", "anticipates" or "does not anticipate", or "believes", or variations of such words and phrases or state that certain actions, events or results "may", "could", "would", "might" or "will be taken", "occur" or "be achieved" suggesting future outcomes, or other expectations, beliefs, plans, objectives, assumptions, intentions or statements about future events or performance. Forward-looking information contained in this presentation is based on certain factors and assumptions regarding, among other things, the estimation of mineral resources and mineral reserves, the realization of resource and reserve estimates, copper and other metal prices, the timing and amount of future exploration and development expenditures, the estimation of initial and sustaining capital requirements, the estimation of labour and operating costs, the availability of necessary financing and materials to continue to explore and develop the Gunnison Project in the short and long-term, the progress of exploration and development activities, the receipt of necessary regulatory approvals, the completion of the permitting process, the estimation of insurance coverage, and assumptions with respect to currency fluctuations, environmental risks, title disputes or claims, and other similar matters. While the Company considers these assumptions to be reasonable based on information currently available to it, they may prove to be incorrect.

Forward looking information involves known and unknown risks, uncertainties and other factors which may cause the actual results, performance or achievements of the Company to be materially different from any future results, performance or achievements expressed or implied by the forward-looking information. Such factors include risks inherent in the exploration and development of mineral deposits, including risks relating to changes in project parameters as plans continue to be redefined including the possibility that mining operations may not commence at the Gunnison Project, risks relating to variations in mineral resources and reserves, grade or recovery rates resulting from current exploration and development activities, risks relating to the ability to access infrastructure, risks relating to changes in copper and other commodity prices and the worldwide demand for and supply of copper and related products, risks related to increased competition in the market for copper and related products and in the mining industry generally, risks related to current global financial conditions, uncertainties inherent in the estimation of mineral resources, access and supply risks, reliance on key personnel, operational risks inherent in the conduct of mining activities, including the risk of accidents, labour disputes, increases in capital and operating costs and the risk of delays or increased costs that might be encountered during the development process, regulatory risks, including risks relating to the acquisition of the necessary licenses and permits, financing, capitalization and liquidity risks, including the risk that the financing necessary to fund the exploration and development activities at the Gunnison Project may not be available on satisfactory terms, or at all, risks related to disputes concerning property titles and interest, environmental risks and the additional risks identified in the "Risk Factors" section of the Company's reports and filings with applicable Canadian securities regulators.

Although the Company has attempted to identify important factors that could 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. Accordingly, readers should not place undue reliance on forward-looking information. The forward-looking information is made as of the date of this presentation. Except as required by applicable securities laws, the Company does not undertake any obligation to publicly update or revise any forward-looking information.

Additional information about the Gunnison Copper Project can be found in the technical report filed on SEDAR at www.sedar.com entitled: "Gunnison Copper Project, NI 43-101 Technical Report, Feasibility Study" dated effective December 17, 2016.

Qualified Person: Excelsior's exploration work on the Gunnison Property is supervised by Stephen Twyerould, Fellow of AUSIMM, President and CEO of Excelsior and a Qualified Person as defined by National Instrument 43-101. Mr. Twyerould has reviewed and approved the technical information contained in this presentation.

America's Next Copper Producer

- **Fully Permitted**
 - Mining friendly Arizona
- **First Copper Expected 2020**
Operations on Care & Maintenance Because of COVID-19 Pandemic
- **Low Operating Costs**
- **Pure Copper Producer**
- **World's most environmentally-friendly copper project**



Source: Gunnison Copper Wellfield

Backing of Major Base Metal Institutions



Triple Flag Mining Finance: US\$75M
(Stream & Equity)



Greenstone Resources: US\$58M
(Equity & Royalty)



Altius Minerals: US\$8M
(Equity & Royalty)

Technical Excellence



Stephen Twyerould, *Ph.D.* - *President & CEO*

- Over 30 years of mining industry and operational experience
- Co-Founded Reliance Mining Ltd. – moved from junior explorer to producer in three years
(Market cap: \$5m to \$100M). Reliance Mining was bought out by Consolidated Minerals
- Former General Manager Geology/Exploration - **Western Mining Corporation** (WMC) (**BHP**)
- Former Chief Geologist **Windarra Nickel & Gold Company**
- Doctorate in Geology and Geochemistry - University of Oregon, 1997



Roland Goodgame, *Ph.D.* - *COO*

- Over 30 years of mining industry experience
- Former Senior Geologist at **Anglo American**; responsible for global portfolio of nickel projects
- Former Manager WMC
- Doctorate in Geology - University of Oregon, 1997
- B.Sc. Geological Engineering - Colorado School of Mines, 1987

ISR Advantages

- Lower operating costs
- Flexible mine plan
- Environmentally friendly
- Low water consumption
- Excellent mine closure
- Minimal noise/dust



Arial view Gunnison Copper Project

The Production Wellfield

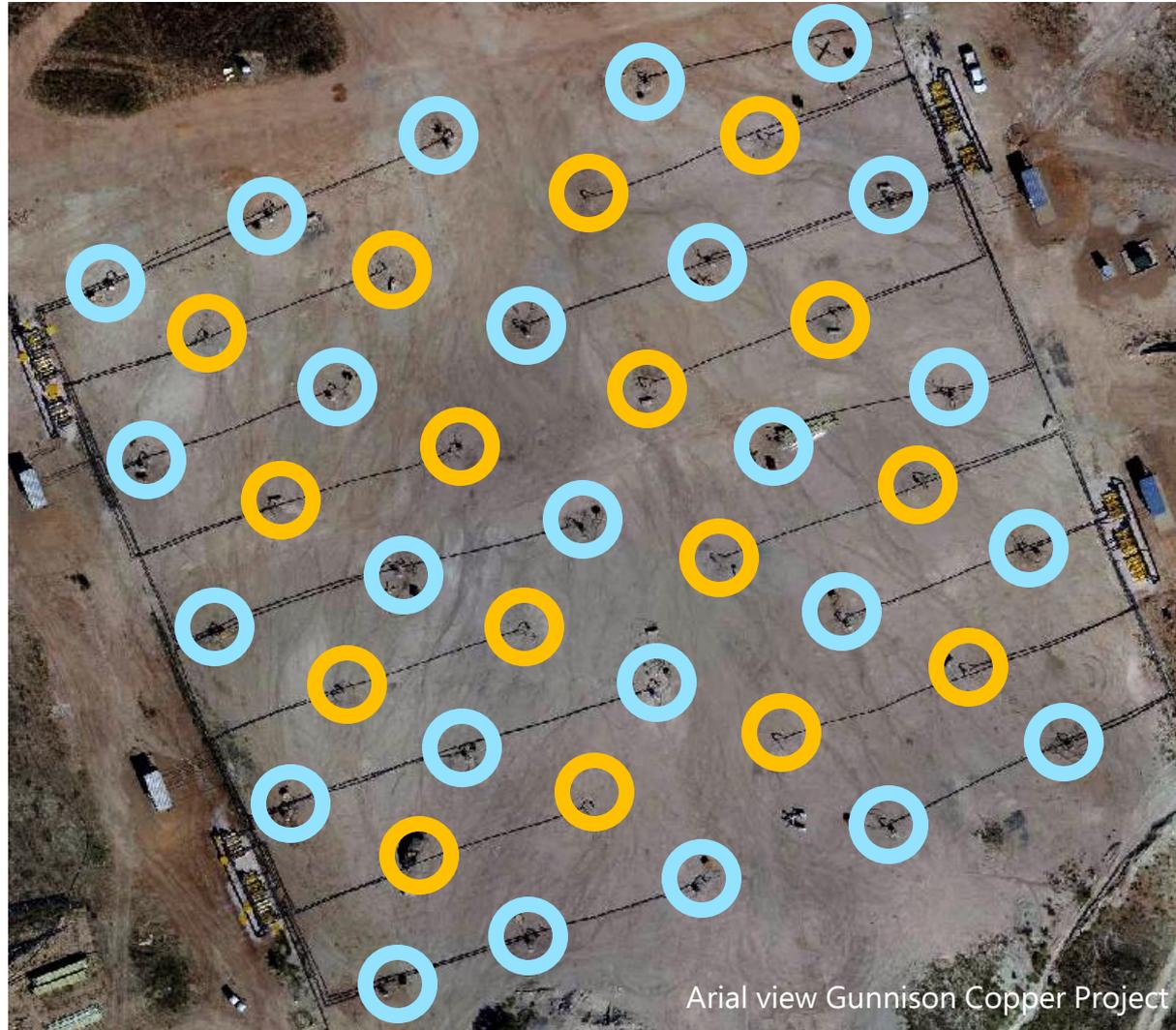
57 total wells

41 production wells

16 compliance wells

 **Injection well**

 **Recovery well**



Arial view Gunnison Copper Project

Johnson Camp Mine (SX-EW)



Wellfield

Initial 25M lb/yr production facility is ready to go...

2017 Feasibility Study Economics

Post 2018 Project Financing*

(After-tax, 7.5% discount rate, \$US)

Copper Price: **\$2.75**

Net Present Value: **\$730M** (6x current market cap.)

Internal Rate of Return: **35.6%**

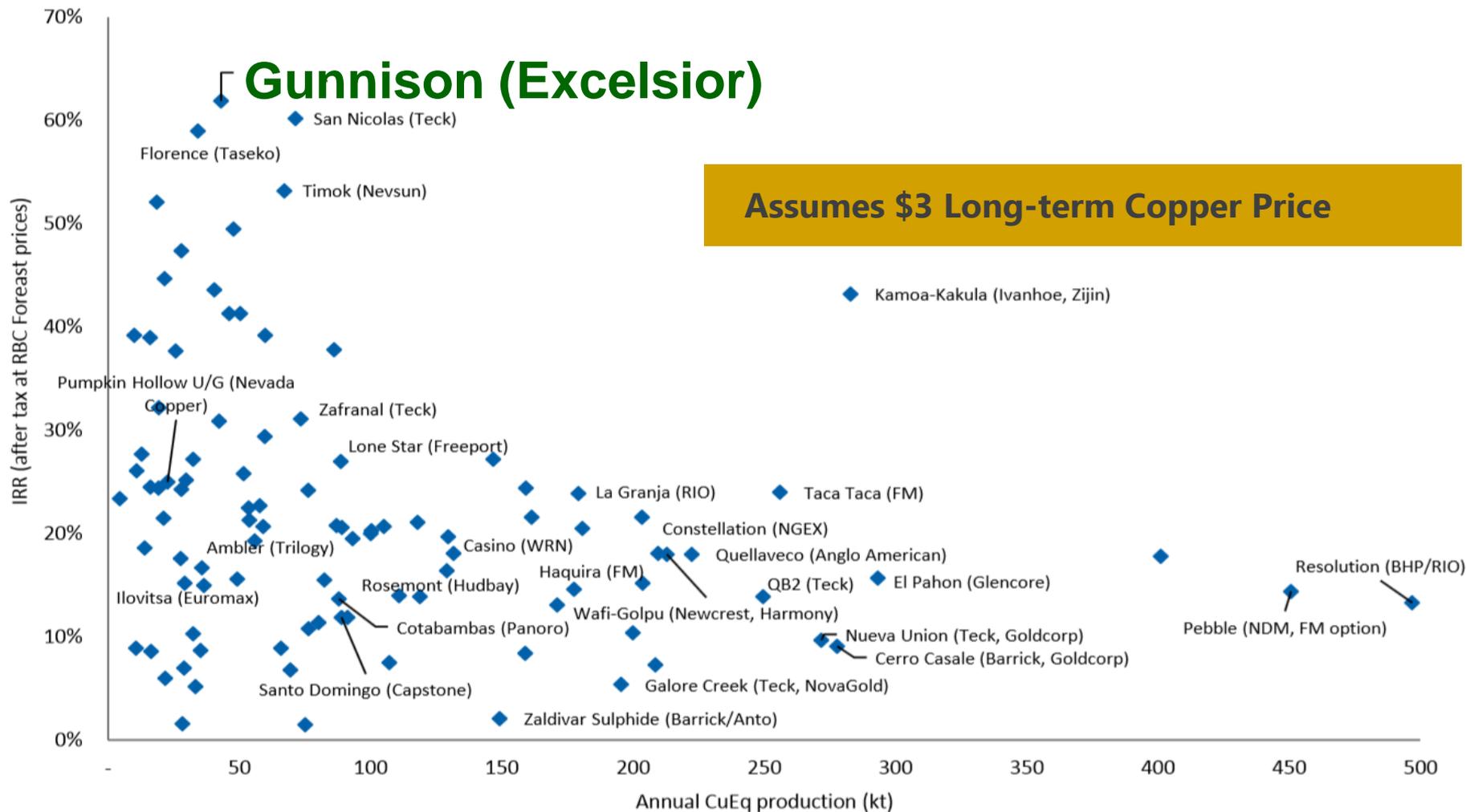
Life of Mine All-in Sustaining Costs: **\$1.33/lb**

Life of Mine: **24 years**

Start at 25M lbs per year  Expand to 125M lbs per year

*Results of the January, 2017 Feasibility Study are in USD using the “Acid Plant” option; prepared by M3 Engineering, Tucson, Arizona. The impact of the 2018 project financing is expressed as an effective increase in the base-case LOM All-in costs from US\$1.23/lb to US\$1.33/lb or approximately 8.1%; this falls within the parameters of the sensitivity analysis for increased operating costs that is disclosed in the 2017 Feasibility Study.

Comparative IRR

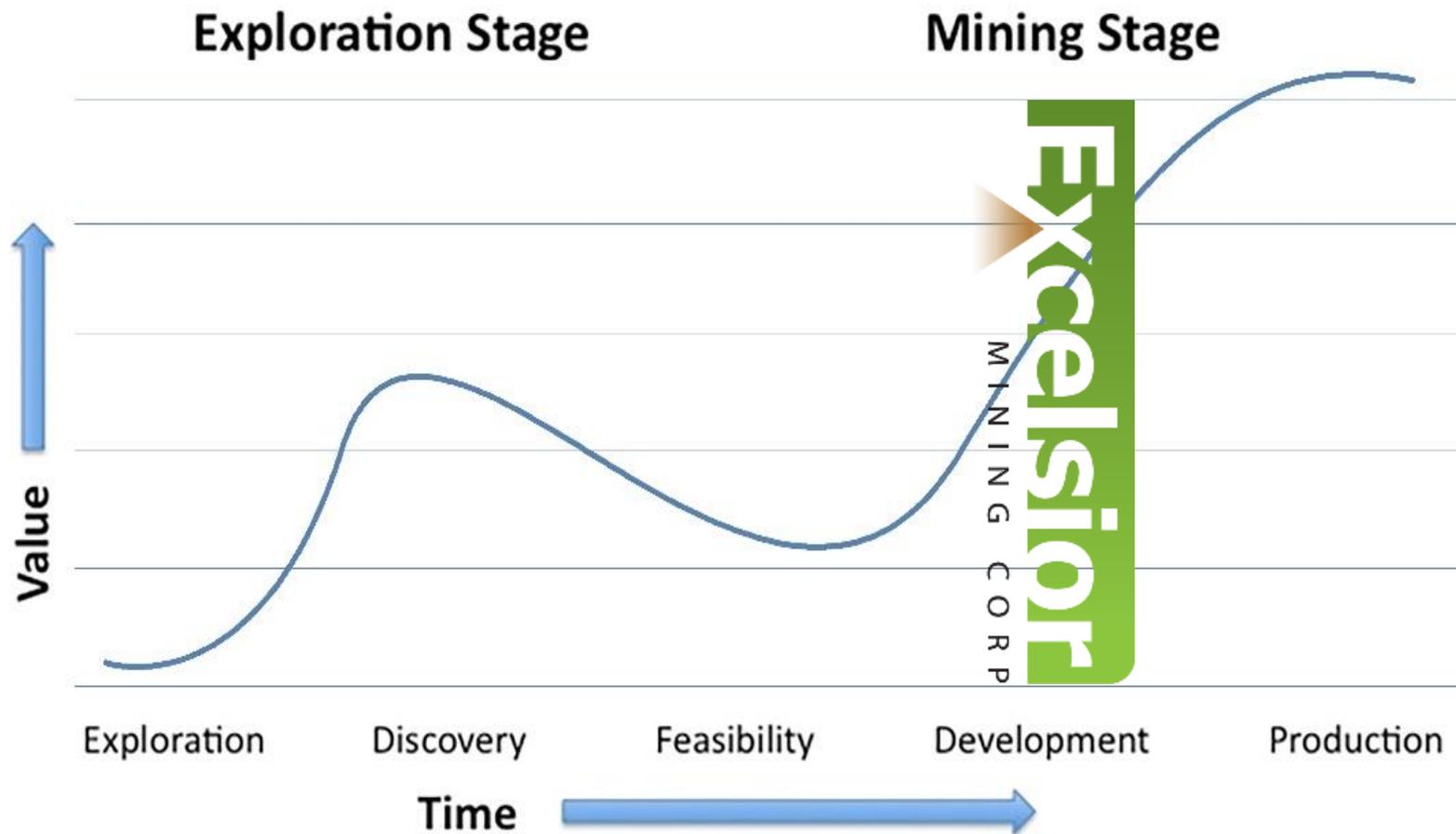


RBC copper forecasts: \$3.25/lb for 2018/19, \$3.50/lb in 2020, \$3.75/lb in 2021/22, \$3.00/lb long term
 Source: RBC Capital Markets estimates, Wood Mackenzie, Company Reports

Source: Royal Bank - 2018

Excelsior – The Value Proposition

Life Cycle of a Deposit





We make copper green.

Stock Symbol: EXMGF

Excelsior
MINING CORP

Contact

Concord Place
Suite 300
2999 North 44th Street
Phoenix, AZ
USA, 85018
www.excelsiormining.com

JJ Jennex, VP Corporate Affairs
jjennex@excelsiormining.com
info@excelsiormining.com

604 723-1433

Appendix

In-Situ Copper Production in Arizona

Arizona has a positive track record for ISR mining

San Manuel (BHP/Magma Copper)

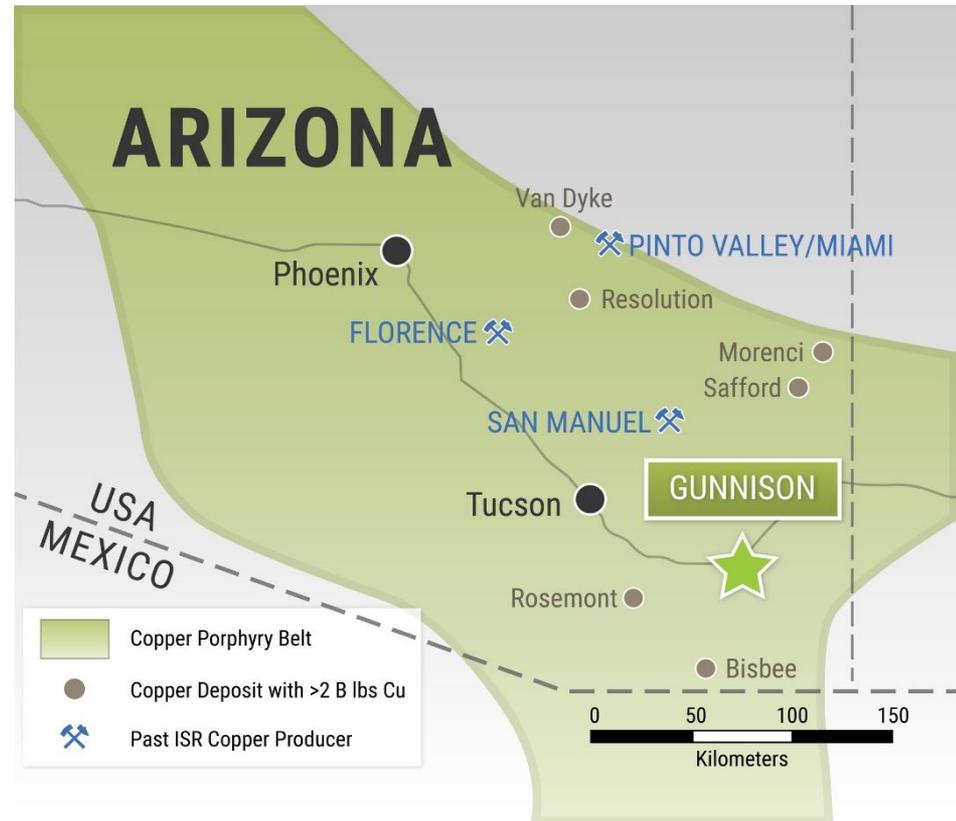
- Historical in-situ mine (+ open pit & U/G)
- 10+ years of production (>1000 wells)
- Produced copper at less than US\$0.40 per lb
- 3.25 billion lbs of Cu (284M tonnes at 0.52%)

Florence (Taseko, formally Curis Resources)

- Temporary permits have been issued
- 2.84 billion lbs of oxide Cu (429M tons at 0.33% measured & indicated)
- Test facility in operation

Globe - Miami Unit (BHP/Magma Copper)

- Operations: Miami unit: ISR and SX-EW
- Combined underground and in-situ
- 20+ years of production
- 1.47 billion lbs of Cu (214M tonnes at 0.31%)



Note: Production from, and mineralization on, these properties is not necessarily indicative of the production from, or mineralization on, the Gunnison Project.

ISR in Arizona

Arizona has a positive track record for ISR mining

Florence Copper (Taseko)

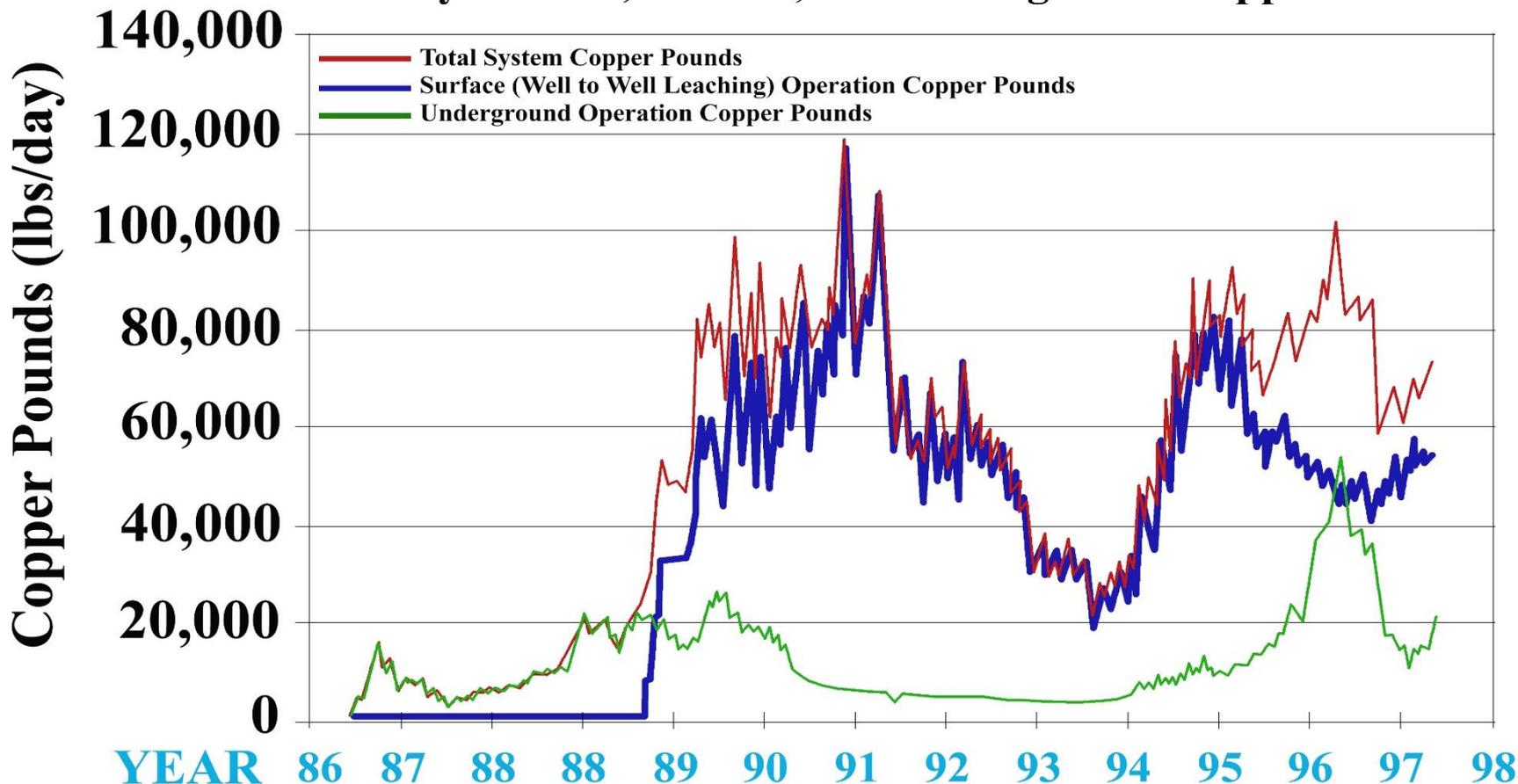
- Test facility permitted and in operation
- **April 12, 2019**: first copper produced after a three-month leaching period
- **April 25, 2019**: 3,700 lbs of 99.9% Copper produced
- **June 20, 2019**: Commercial grade Copper levels achieved



Note: Production from, and mineralization on, these properties is not necessarily indicative of the production from, or mineralization on, the Gunnison Project.

San Manuel: 10+ Years of ISR Copper Production

History of Total, Surface, and Underground Copper Pounds



Over 1000 Operating Wells / Copper produced at <\$0.40/lb

Source: 1998 Dissertation – University of Arizona: Case Study – BHP Copper, San Manuel, Arizona

Large Deposit – Excellent Infrastructure

- 2.5 hour drive SE of Phoenix; 65 miles SE of Tucson
- Mining district with direct access to major road, rail, power and water infrastructure
- 9,560 acres (3,868 ha)

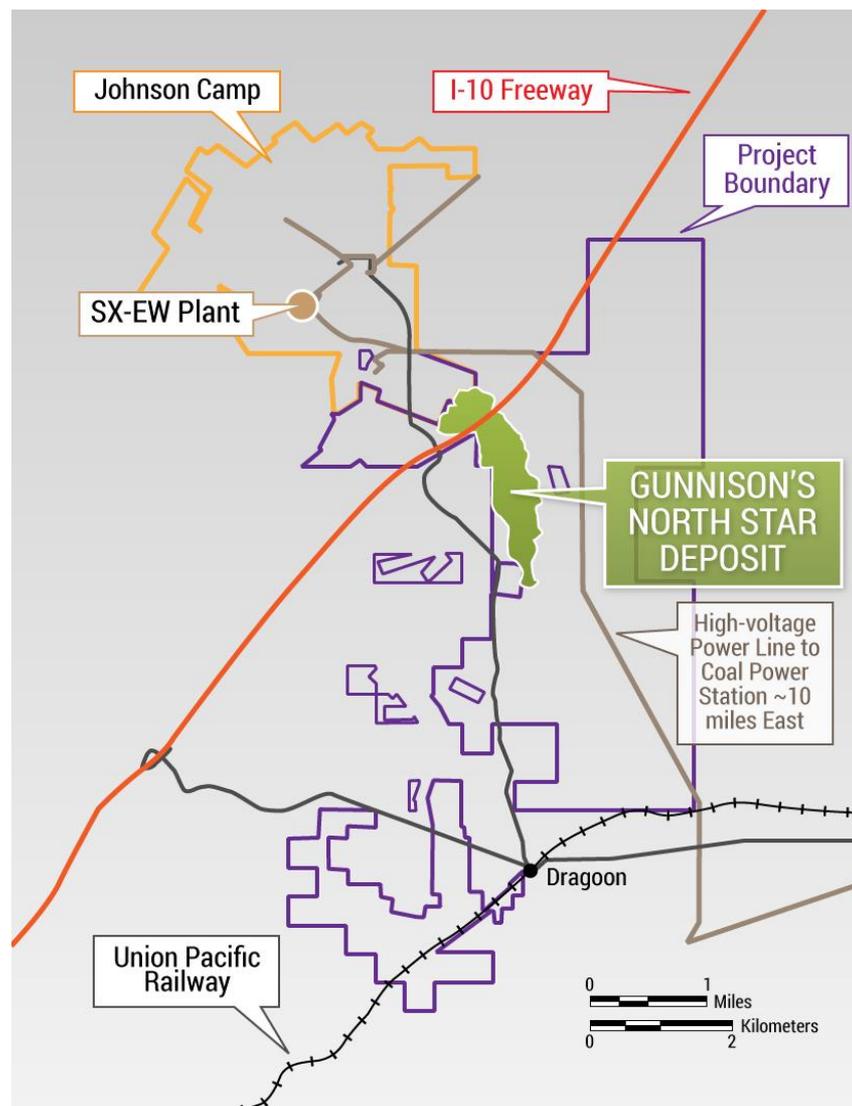
North Star Mineral Reserves

	Short Tons (millions)	Total Copper %	Pounds of Cu (billions)
Probable	782	0.29	4.5

North Star Mineral Resources (as of July 7, 2015)

	Short Tons (millions)	Total Copper %	Pounds of Cu (billions)
Measured	199	0.36	1.43
Indicated	674	0.27	3.57
Measured + Indicated	873	0.29	4.99
Inferred	187	0.17	0.63

The Mineral Resources (0.05% cut-off) are inclusive of Mineral Reserves (0.05% cut-off). The oxide and transition portion of the Mineral Reserve has the potential to be mined using in-situ recovery methods with an estimated total copper recovery of 48%.

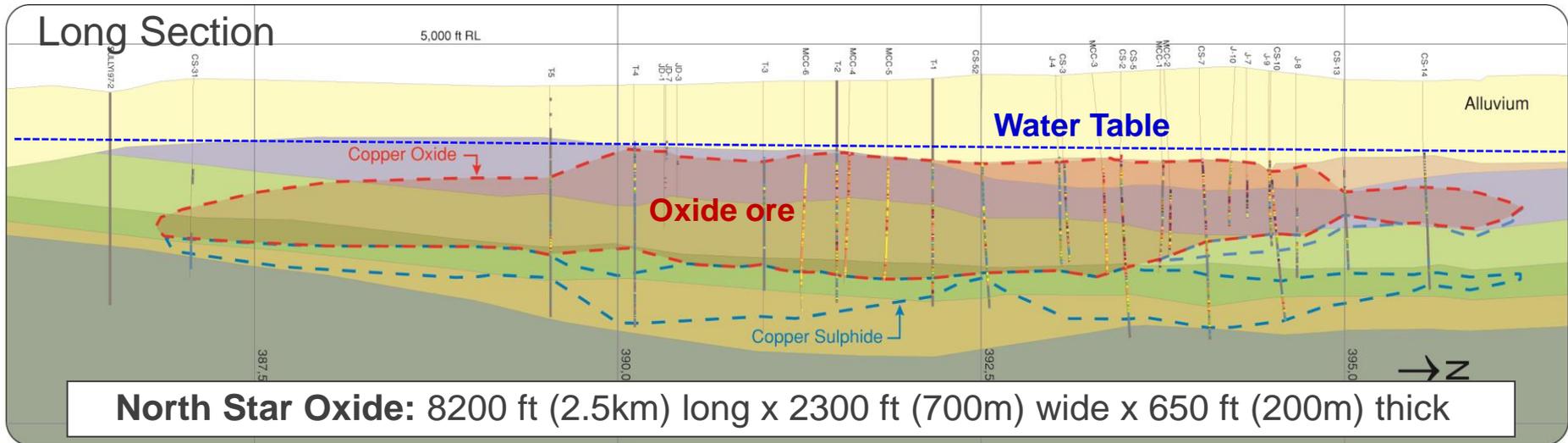


Unique Requirements for ISR

- Orebody is **naturally broken, fractured and permeable** (no fracking)
- Deposit is **below the water table** (very unusual for Cu oxides)
- Solutions **controlled by differential pumping pressures**
- **Very established mining method**: e.g. Uranium for over 40 years



Geology of North Star

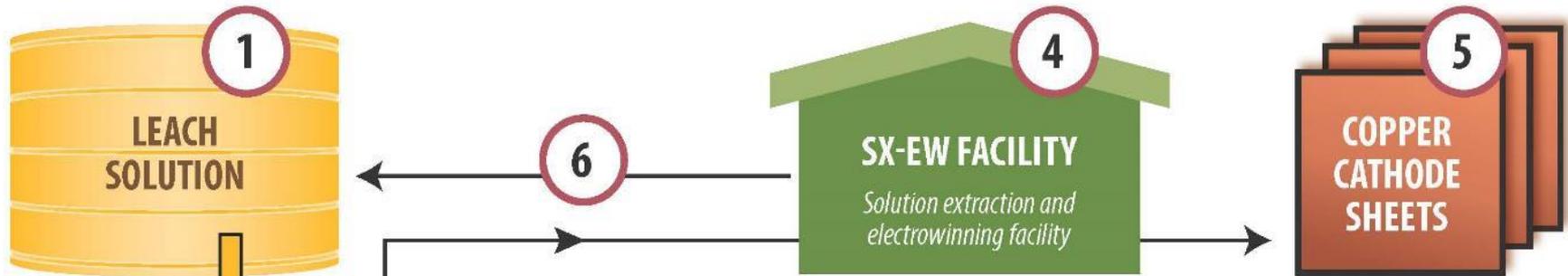


349m (NDS-13)

370m

Naturally fractured with copper oxide minerals mostly on the fracture surfaces.

Off the Shelf Technology



- 1 Leach solution is delivered into injection wells
- 2 The solution moves in a controlled way through naturally fractured rock
- 3 Extraction wells pump to recover copper-rich solution
- 4 Solution is pumped to the SX-EW Facility
- 5 Copper is extracted from the solution to create pure copper sheets, ready for sale
- 6 Remaining solution is recycled back into the process

FEATURES

- proven mining technology
- no blasting, open pit or fracking
- processed solution is recycled
- on-site water recycling
- permitted & regulated by ADEQ & EPA

Board of Directors

Mark Morabito, J.D. - *Chairman of the Board*

Founder of several exploration companies; over 25 years' experience in public markets with a strong focus on junior mining.

Extensive capital markets expertise.

Stephen Twyerould, Ph.D. - *President & CEO, Director*

Colin Kinley - Over 26 years of experience as an executive for Christensen Company specializing in engineered drilling and development projects. Currently with Kinley Exploration.

Stephen Axcell - Over 38 years of experience in mining operations and project management execution, including process plant design and construction management.

Valuable industry experience.

Lord Robin Renwick - Vice Chairman, Investment Banking, JP Morgan Europe; former British Ambassador to South Africa and the United States.

Michael Haworth - Co-founder of Greenstone Resources. Former Managing Director at JP Morgan and Head of Mining and Metals and Metals Corporate Finance in London.

Greenstone Nominees.

Jim Kolbe - Eleven-term member of the US House of Representatives for Arizona's 8th Congressional District.

Fred DuVal - Democratic nominee for Governor of Arizona in 2014 and served as Chairman of the Arizona Board of Regents; former Chief of Protocol of the United States and Assistant to President Clinton, and former Political Director for Vice-President Al Gore.

Prominent Arizona Citizens.