

# Mineros Announces Positive Prefeasibility Study Results for its Porvenir Project, Hemco Property, Nicaragua

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MEDELLIN, March 16, 2023 - [Mineros S.A.](#) (TSX: MSA) (CB: MINEROS) ("Mineros" or the "Company") is pleased to announce that a positive prefeasibility study ("PFS") has been completed on the gold-silver-zinc Porvenir Project (the "Porvenir Project" or "Porvenir") on its Hemco Property (the "Hemco Property"), in northeastern Nicaragua, significantly increasing the mine life of the Hemco Property Mineral Reserves from five to thirteen years. In addition to the Porvenir Project, the Hemco Property includes the Panama and Pioneer Mines, and produces gold from material purchased from artisanal mining collectives with whom the Company has a strong collaborative relationship. A new NI 43-101 technical report on the Hemco Property will be filed within 45 days of this news release.

## HIGHLIGHTS:

- An eight year increase of life of mine ("LOM") for the Hemco Property, from five to thirteen years.
- First-time disclosure of Porvenir Mineral Reserves as of December 31, 2022:
  - 270 kt of Proven Mineral Reserves (Au, 118 koz Ag, and 19 Mlb Zn)
  - 5,524 kt of Probable Mineral Reserves (Au, 1,804 koz Ag, and 360 Mlb Zn)
- Porvenir Project base case economics include an after-tax net present value (using a 10% discount rate) of approximately \$42 million, an after-tax internal rate of return ("IRR") of approximately 16% and a payback period of approximately 4 years from



Notes:

1. Canadian Institute of Mining, Metallurgy and Petroleum ("CIM") "CIM Definition Standards - For Mineral Resources and Mineral Reserves" (2014) adopted by the CIM Council (as amended, the "CIM Definition Standards") were followed for Mineral Resources.
  2. Mineral Resources are exclusive of Mineral Reserves.
  3. Mineral Resources are estimated at a net smelter return ("NSR") cut-off value of US\$82.30/t for sub-level stoping resource shapes.
  4. A minimum mining width of 0.8 m was used to create resource shapes.
  5. Mineral Resources are estimated using a long-term gold price of US\$1,700/oz Au, a silver price of US\$20/oz Ag, and a zinc price of US\$1.36/lb Zn.
  6. Bulk density is between 2.65 t/m<sup>3</sup> and 2.9 t/m<sup>3</sup>.
  7. Metallurgical recoveries applied on a block-by-block basis and average 63.4% for gold, 52.6% for silver and 84.1% for zinc.
  8. Mineral Resources that are not Mineral Reserves do not have demonstrated economic viability.
  9. Material within 30 m of the topographic surface has been excluded from Mineral Resources to allow for artisanal mining. This material is exclusive of the artisanal areas.
  10. Totals may differ due to rounding.
- Porvenir Project Mineral Resources were estimated by SLR Consulting (Canada) Ltd. ("SLR"). The geological model, block model estimates, and resource classification criteria have not changed since the Mineral Resource estimate disclosed in the prior Hemco Property technical report dated September 15, 2021, as amended on October 29, 2021 (the "2021 Hemco Technical Report"). However, the updated Mineral Resource estimate effective December 31, 2022, accounts for updated metal prices, cost estimates, metallurgical recoveries, and resource reporting using a US\$82.30/t NSR cut-off for sub-level stoping resource shapes.

MINERAL RESERVES

Table 2: Porvenir Mineral Reserves - Effective December 31, 2022

Mineral Reserve Category	Tonnes Gold (kt)	Silver Grade (g/t Au)	Zinc Grade (g/t Ag)	Zinc Grade (% Zn)	Contained	Contained	Contained
					Metal (koz Au)	Metal (koz Ag)	Metal (Mlb Zn)
Proven	270	2.70	13.61	3.14	23	118	19
Probable	5,524	3.09	10.16	2.96	549	1,804	360
Proven and Probable	5,794	3.07	10.32	2.96	572	1,922	379

Notes:

1. Material within 30 m of the topographic surface has been excluded from the Porvenir Project Mineral Reserves to allow for artisanal mining. This material is exclusive of the artisanal areas.
2. The CIM Definition Standards were followed for Mineral Reserves.
3. Mining is by cut-and-fill stoping and sub-level stoping. The assumed minimum mining width is 1.55 m.
4. Includes dilution skins 0.25 m thick on stope footwalls and 0.5 m thick on hanging walls.
5. Mining extraction factors for cut-and-fill with pillars was 78%, 90% for cut-and-fill with by-pass drifts, and 90% for sub-level stoping.
6. Economic cut-offs are based on NSR value per tonne determinations using assumed metal prices, metal recoveries, and smelter terms. Breakeven NSR cut-off values vary from \$81.34/t to \$83.10/t, depending upon the mining method.
7. Metallurgical recoveries were applied on a block-by-block basis and average 85.6% for gold, 52.8% for silver and 91.1% for zinc.
8. Mineral Reserves estimated using an average long term gold price of US\$1,500/oz Au, \$19.00/oz Ag, and \$1.27/lb Zn.

~~Mineral Reserves~~ Total Reserves which were estimated by BISA Ingenieria de Proyectos S.A. ("BISA") and reviewed by SLR, use the Mineral Resource estimate disclosed in the 2021 Hemco Technical Report, and Deswik stope optimizer software to prepare stope designs for cut-and-fill and sub-level long hole stoping of the deposit. Mine access designs assume the use of mechanized equipment for mucking and haulage and conventional ventilation and backfill systems. Dilution was added to the footwall and hanging wall of stopes and mining extraction factors were included to account for pillars and practical ore extraction from stopes.

The Porvenir Mineral Reserves represent 79% of the total tonnes of Proven and Probable Mineral Reserves on the Hemco Property. The gold only Hemco Property Mineral Reserves, including Porvenir, effective December 31, 2022, are presented in Table 3.

Table 3: Hemco Property Mineral Reserves (Gold only) - Effective December 31, 2022

Category	Deposit	Tonnes (kt)	Grade (g/t Au)	Metal (koz Au)
Proven	Panama	47	3.36	5
	Pioneer	110	6.06	21
	Porvenir	270	2.70	23
	Total	428	3.64	50
Probable	Panama	983	4.05	128
	Pioneer	427	4.53	62
	Porvenir	5,524	3.09	549
	Total	6,934	3.31	739
Proven + Probable	Panama	1,031	4.02	133
	Pioneer	537	4.84	84
	Porvenir	5,794	3.07	572
	Total	7,362	3.33	789

Notes:

1. Material within 30 m of the topographic surface has been excluded from the Pioneer Mine and Porvenir Project Mineral Reserves to allow for artisanal mining. This material is exclusive of the artisanal areas.
  2. CIM Definition Standards were followed for Mineral Reserves.
  3. Mining method:
    - a. Panama and Pioneer: shrinkage stoping, sub-level open stoping (SLOS), and sub-level stoping (SLS) with backfill.
    - b. Porvenir: cut-and-fill stoping and sub-level stoping.
  4. Minimum mining width:
    - a. Panama and Pioneer: 0.90 m for shrinkage stoping and between 1.80 m and 2.00 m for mechanized mining methods.
    - b. Porvenir: 1.55 m.
  5. Economic cut-offs:
    - a. Panama and Pioneer: marginal and break-even cut-off grades of 2.80 g/t Au and 3.56 g/t Au, 2.12 g/t Au and 2.31 g/t Au, and 2.45 g/t Au and 2.78 g/t Au were applied to shrinkage, SLOS, and SLS with backfill mining methods respectively.
    - b. Porvenir: based on NSR value per tonne determinations using metal prices, metal recoveries, and smelter terms. Breakeven NSR cut-off values vary from \$81.34/t to \$83.10/t depending on the mining method.
  6. Metallurgical recoveries:
    - a. Panama and Pioneer: 90% for gold.
    - b. Porvenir: were applied on a block-by-block basis and average 85.6% for gold, 52.8% for silver, and 91.1% for zinc.
  7. Dilution:
    - a. Panama and Pioneer: dilution skins of 0.25 m were applied to shrinkage stopes and between 0.6 m to 0.8 m to mechanized stopes.
    - b. Porvenir: dilution skins 0.25 m thick on stope footwalls and 0.5 m thick on hanging walls.
  8. Mining Extraction:
    - a. Panama and Pioneer: a factor of 70% was applied to shrinkage stopes and between 75% and 95% to mechanized stopes.
    - b. Porvenir: cut-and-fill 78% to 90% and 90% for sub-level stoping.
- Economic Analysis
9. Mineral Reserves estimated using an average long term metal prices of US\$1,500/oz Au, \$19.00/oz Ag, and \$1.27/lb Zn. The Porvenir Project base case economics include a NPV<sub>10%</sub> of approximately \$42 million, an after-tax IRR of approximately 16% and a payback period from start of production in 2027 of approximately 4 years assuming \$1,500/oz Au and \$19.00/oz Ag, and \$1.27/lb Zn.
10. Total estimated production of 56,700 oz Au, 112,300 oz Ag, and 38.5 Mlb Zn over the mine life of 9 years.
- The Porvenir Project will add average annual production over its nine-year mine life of 56,700 oz Au per year, along with 112,300 oz Ag per year and 38.5 Mlb Zn per year to the Hemco Property.
  - Porvenir Project initial capital costs, including contingency, of approximately \$161 million. Porvenir Project expansion and sustaining capital costs (including reclamation and closure) of approximately \$88 million.

Although located on the Hemco Property, the Porvenir Project is planned to be independent of the Panama and Pioneer Mines, with its own mine access, process plant, tailings facilities, and other required infrastructure. Mining and processing operations are planned to commence at a rate of 1,000 tonnes per day

("tpd") in 2027, ramping up to 2,000 tpd beginning in 2029 (Figures 1 and 2). Ore will be mined by cut-and-fill stoping and sub-level long hole stoping. Ore will be processed using cyanidation and a Merrill-Crowe circuit for gold and silver recovery, and a flotation circuit for the recovery of zinc and minor gold to a zinc concentrate.

Under the PFS LOM plan, the Porvenir Project will be developed in two stages. In Stage 1 (2027 and 2028), average annual production will be 43 koz Au and 89 koz Ag in doré, plus 28 Mlb Zn and 1.7 koz Au in zinc concentrates. In Stage 2 (2029 through 2035), average annual production will be 60 koz Au and 119 koz Ag in doré, plus 42 Mlb Zn and 2.2 koz Au in zinc concentrates.

Average LOM all-in sustaining cost<sup>1</sup> ("AISC") per ounce of gold equivalent<sup>2</sup> ("AuEq") sold is estimated at \$929/oz AuEq.<sup>3</sup> Initial and expansion capital costs are estimated at \$161 million and \$17 million, respectively, with LOM sustaining capital costs (including reclamation and closure) estimated at \$71 million .

Base case cash flow is based on metal prices of \$1,500/oz Au, \$19.00/oz Ag, and \$1.27/lb Zn, and generates an after-tax NPV<sub>10%</sub> of \$42 million and an after-tax IRR of 16%.

Applying the same economic assumptions, using a discount rate of 5%, the Porvenir Project generates an after-tax NPV<sub>5%</sub> of \$98 million.

Sensitivity analysis on the base case is provided below (Table 4).

Table 4: After-tax sensitivity analysis

Metal Prices (US\$/oz Au)	NPV <sub>10%</sub> (US\$000)	NPV <sub>5%</sub> (US\$000)
\$1,200	(59,595)	(40,486)
\$1,350	(7,263)	31,147
\$1,500 (Base Case)	41,750	98,537
\$1,650	86,359	159,571
\$1,800	127,902	216,236

The PFS was managed by Mineros, completed by BISA, and reviewed by SLR. Both BISA and SLR are independent of Mineros.

<sup>1</sup> AISC per ounce of AuEq sold is a non-IFRS ratio based on AISC, which is a forward-looking non-IFRS financial measure with no standardized meaning under IFRS, which may not be comparable to similar measures presented by other issuers. For the year ended December 31, 2022, the following historical non-IFRS financial measures were reported in the Company's management's discussion and analysis ("MD&A") for the year ended December 31, 2022: AISC - \$392,648,000; AISC per ounce of gold sold - \$1,365. AISC and AISC per ounce of AuEq sold disclosed in this press release and the PFS differ from the equivalent historical non-IFRS financial measures reported in the Company's MD&A. For further information, see "Non-IFRS Financial Measures" in this news release.

<sup>2</sup> Gold equivalent sold includes Au and equivalent values for Ag and Zn assuming long-term metal prices of US\$1,500/oz Au, \$19.00/oz Ag, and \$1.27/lb Zn.

<sup>3</sup> Based on estimated AISC per ounce of AuEq sold for the Porvenir Project of \$929/oz AuEq. AISC per ounce of gold sold (excluding silver and zinc) is estimated at \$1,411/oz Au.

## NEXT STEPS

Future work on the Porvenir Project will focus on Mineral Resource conversion and ongoing metallurgical

and economic optimization activities. These opportunities are not included in the PFS economic analysis.

Alternative mining methods will be evaluated to convert part of the current Mineral Resources into Mineral Reserves, as small structures were not considered in the current LOM due to minimum mining width criteria. The mineralization at Porvenir remains open laterally and at depth, representing opportunities for mine life extension.

In 2023, the Company is planning a 6,000 metre metallurgical diamond drilling program with the objectives of improving the current metallurgical model and evaluating the viability of ore sorting.

The Company continues to investigate opportunities to further improve the economics of the Porvenir Project, including further optimizing of capital and operating costs, evaluating different ore processing alternatives.

#### ABOUT THE HEMCO PROPERTY

The Hemco Property was acquired by Mineros in 2013. It is located in northeastern Nicaragua in the Mining Triangle, in the vicinity of the town of Bonanza, approximately 230 km northeast of the capital of Managua. The Hemco Property includes the Panama and Pioneer Mines, the Porvenir Project, the Luna Roja Deposit, the Caribe Exploration Target, artisanal mining, and the Hemco, La Curva, and Vesmisa processing plants.

Since acquisition, the Company has worked extensively with artisanal miners through the "Bonanza Model" which aims to maintain a reliable supply of mineralized material from artisanal mining by exploring and identifying areas for artisanal miners to work, offering a fair price for their production, promoting enhanced working conditions, including health and safety, supporting their organization in cooperatives, and ensuring the participation of miner groups, and local and national authorities in the steering committee that organizes the artisanal miners.

#### ABOUT MINEROS S.A.

Mineros is a Latin American gold mining company headquartered in Medellin, Colombia. The Company has a diversified asset base, with mines in Colombia, Nicaragua, and Argentina and a pipeline of development and exploration projects throughout the region.

The Board of Directors and management of Mineros have extensive experience in mining, corporate development, finance, and sustainability. Mineros has a long track record of maximizing shareholder value and delivering solid annual dividends. For almost 50 years, Mineros has operated with a focus on safety and sustainability at all its operations.

Mineros' common shares are listed on the Toronto Stock Exchange under the symbol "MSA", and on the Colombia Stock Exchange under the symbol "MINEROS".

The Company has been granted an exemption from the individual voting and majority voting requirements applicable to listed issuers under Toronto Stock Exchange policies, on grounds that compliance with such requirements would constitute a breach of Colombian laws and regulations which require the directors to be elected on the basis of a slate of nominees proposed for election pursuant to an electoral quotient system. For further information, please see the Company's most recent annual information form filed on SEDAR at [www.sedar.com](http://www.sedar.com).

#### QUALIFIED PERSON, TECHNICAL INFORMATION, AND QUALITY CONTROL

The Mineral Resource and Mineral Reserve estimates summarized in this news release have an effective date of December 31, 2022.

The Mineral Resource estimate, including verification of the data disclosed, was prepared by SLR. Sean Horan, P.Geol., who is Technical Manager - Geology and Principal Geologist with SLR, is responsible for the Mineral Resource estimate. Mr. Horan is an independent "qualified person", as defined by NI 43-101 and has reviewed and approved the information relating to the Mineral Resource estimate that is contained in this

news release.

The Mineral Reserve estimate was completed by BISA of Lima, Peru and audited by SLR. The individual responsible for the Mineral Reserve estimate is Dennis Bergen, P.Eng., Associate Principal Mining Engineer with SLR. Mr. Bergen is an independent qualified person and has reviewed and approved the information relating to the Mineral Reserve estimate that is contained in this news release.

All other scientific and technical information contained in this news release has been reviewed and approved by Jorge Aceituno, a Registered Member of the Chilean Mining Commission and the Planning Manager, Resources and Reserves for Mineros and a qualified person.

Mineros has implemented a quality assurance/quality control ("QA/QC") program aligned with industry best practices, in which certified reference materials ("standards"), duplicates and blanks are routinely inserted into the sample stream to assess precision, accuracy, contamination and bias. All standards, duplicates and blanks are validated and any batches that fail QA/QC are reanalyzed.

Diamond drill core samples are selected by the geologists on site; sample intervals are typically 1 m in length, but can range from a minimum of 0.2 m to a maximum of 2 m. HTW-diameter diamond drill core to be sampled is cut in half lengthwise, with one half of the core stored on-site in wooden core boxes and the other half sent to the Bureau Veritas Commodities Canada Ltd. ("Bureau Veritas") laboratory in Managua, Nicaragua for sample preparation, then to the Bureau Veritas laboratory in Vancouver, Canada for geochemical analysis.

The materials sent for sample preparation and analysis are packed by Mineros geologists in plastic bags with tamper-proof seals, with a chain of custody procedure for delivery to Bureau Veritas. Sample preparation is carried out following the PREP70-250 package (crushing of the entire sample to > 70% passing 2 mm screen, pulverization of 250 grams > 85% 75 µm).

Geochemical analysis is certified by SCC (Standards Council of Canada) Standard ISO/IEC 17025:2017 with validation date until 2023-10-07. Samples, standards, duplicates and blanks are analyzed for gold using a standard fire assay method (30 g aliquot) and atomic absorption finish (AAS). Those over 10 ppm are re-analyzed by 30 g fire assay with gravimetric finish, for all analyses a 45-element suite is run with a 4-acid digestion and an ICP-ES/MS finish. All coarse rejects and pulps are returned by the laboratory and stored by the Company in a secure warehouse. Pulps from 5% of the materials analyzed are sent to a certified secondary laboratory (ALS Chemex, in Medellín, Colombia) to be analyzed using methods analogous to those used at Bureau Veritas.

#### FORWARD-LOOKING STATEMENTS

This news release contains "forward looking information" within the meaning of applicable securities laws. Forward looking information includes statements that use forward looking terminology such as "may", "could", "would", "will", "should", "intend", "target", "plan", "expect", "budget", "estimate", "forecast", "schedule", "anticipate", "believe", "continue", "potential", "view" or the negative or grammatical variation thereof or other variations thereof or comparable terminology. Such forward looking information includes, without limitation, statements with respect to estimates and expectations for production, production costs of sales, all-in sustaining cost and capital expenditures, cost savings, project economics (including net present value and internal rates of return) and other information contained in the PFS; references to the future price of gold, silver and zinc; the estimation of Mineral Reserves and Mineral Resources; the realization of Mineral Reserve and Mineral Resource estimates; the timing and amount of estimated future production, costs of production, and capital expenditures; costs and timing of the development of the Porvenir Project and mining and processing activities; timing of filing a new NI 43-101 technical report on the Hemco Property; planned exploration, development and production activities at the Hemco Property, including at Porvenir; the supply of mineralized material from artisanal mining; and any other statement that may predict, forecast, indicate or imply future plans, intentions, levels of activity, results, performance or achievements.

Forward looking information is based upon estimates and assumptions of management in light of management's experience and perception of trends, current conditions and expected developments, as well as other factors that management believes to be relevant and reasonable in the circumstances, as of the date of this news release including, without limitation, assumptions about; the accuracy of the Company's current Mineral Reserve and Mineral Resource estimates; the absence of significant disruptions affecting the

Company's operations, whether due to extreme weather events, natural disasters, labour disruptions, supply disruptions, power disruptions, damage to equipment or otherwise; permitting, development, operations and production from the Porvenir Project being consistent with the Company's expectations; political, legal and regulatory developments in Nicaragua being consistent with current expectations; tax and royalty rates applicable to production from the Hemco Property; exchange rates between the U.S. dollar, the Colombian peso, and the Nicaraguan cordoba being approximately consistent with current levels; certain price assumptions for gold, silver and zinc; prices for key supplies, labour and materials being consistent with current expectations; production, LOM and cost forecasts meeting expectations; the accuracy of the current Mineral Reserve and Mineral Resource estimates; and the completion of further studies including metallurgical and economic optimization studies, and the results of such studies; the availability of any necessary additional capital to advance the production, development and exploration of the Company's properties and assets on reasonable terms; and positive relations with local groups, including artisanal mining cooperatives in Nicaragua, and the Company's ability to meet its obligations under its agreements with such groups. While the Company considers these assumptions to be reasonable, many of them are based on factors and events that are not within the control of the Company and there is no assurance they will prove to be correct. The assumptions are inherently subject to significant business, social, economic, political, regulatory, competitive and other risks and uncertainties, contingencies and other factors that could cause actual actions, events, conditions, results, performance or achievements to be materially different from those projected in the forward looking information.

These risk factors specifically include, without limitation: risks relating to variations in the mineral content within the material identified as Mineral Resources and Mineral Reserves from that predicted; variations in rates of recovery and extraction; developments in world metals markets; exchange rate fluctuations; increases in the estimated capital and operating costs or unanticipated costs; difficulties attracting the necessary work force; increases in financing costs or adverse changes to the terms of available financing, if any; changes in tax rates or royalties; changes in development or mining plans due to changes in logistical, technical or other factors; changes in project parameters as plans continue to be refined; risks relating to receipt of regulatory approvals; delays in stakeholder negotiations; changes in regulations applicable to the development, operation, and closure of mining operations; the effects of competition in the markets in which the Company operates; operational and infrastructure risks; and the additional risks described in the "Risk Factors" sections of the Company's annual information form dated March 31, 2022, and the Company's Management's Discussion and Analysis for the three months and year ended December 31, 2022, available on SEDAR at [www.sedar.com](http://www.sedar.com).

The Company cautions that the foregoing lists of important assumptions and factors that may affect future results are not exhaustive. Other events or circumstances could cause actual results to differ materially from those estimated or projected and expressed in, or implied by, the forward looking information contained herein. 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 information. Accordingly, readers should not place undue reliance on forward looking information.

Forward looking information contained herein is made as of the date of this news release and the Company disclaims any obligation to update or revise any forward looking information, whether as a result of new information, future events or results or otherwise, except as and to the extent required by applicable securities laws.

#### NON-IFRS FINANCIAL MEASURES

This news release contains certain forward-looking non-IFRS financial measures. AISC per ounce of AuEq sold included in this press release is a non-IFRS financial ratio based on AISC, which is a non-IFRS financial measure. Management believes that non-IFRS financial measures and non-IFRS ratios, when supplementing measures determined in accordance with IFRS, provide investors with an improved ability to evaluate the underlying performance of the Company. Non-IFRS financial measures and non-IFRS ratios do not have any standardized meaning prescribed under IFRS, and therefore they may not be comparable to similar measures employed by other companies. This data is intended to provide additional information and should not be considered in isolation or as a substitute for measures of performance prepared in accordance with IFRS. For a discussion of the use of non-IFRS financial measures and reconciliations thereof to the most directly comparable IFRS measures, please refer to the Company's MD&A for the year ended December 31, 2022, which is available on the Company's SEDAR profile ([www.sedar.com](http://www.sedar.com)).

Please note that in this news release, AISC and AISC per ounce of AuEq sold differ from the equivalent historical non-IFRS financial measures reported in the Company's MD&A, AISC and AISC per ounce of gold sold, because, as used in this news release and the PFS: (a) AISC is calculated as cost of sales, less

administrative expenses, sustaining capital expenditures, and royalties; (b) cost of sales excludes costs associated with production from artisanal mining; (c) ounces of AuEq sold excludes production from artisanal mining; and (d) AISC per ounce of AuEq sold is reported on a gold equivalent basis, not on a by-product basis, and accordingly, cost of sales is not adjusted for sales of silver.

(all amounts expressed in U.S. dollars unless otherwise indicated)

SOURCE [Mineros S.A.](#)

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