

THE MINING RECORD

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THIRTEEN DECADES OF CONTINUOUS INDUSTRY COVERAGE
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Denver, Colorado, USA

Metals Watch (01/18/2023): Gold \$1,904.20 • Silver \$23.44 • Copper \$4.26 • Lead \$1.01 • Zinc \$1.52 • Platinum \$1,038.00 • Palladium \$1,634.00 • Uranium \$50.00 • Rhodium \$11,000.00 • Lithium \$71.37/kg • Coal: \$176.00/t

ALASKA

Herbert Gold Project Has Excellent Results From Testing

VANCOUVER - Grande Portage Resources Ltd. has received very positive acid base accounting (ABA) results from its Herbert Gold Property in S.E. Alaska. ABA tests are done as part of the permitting process to demonstrate what the acid generating potential is for the rocks around the Herbert Gold Deposit. Geochemical Solutions LLC of Colorado, tested a total of eight baseline samples from wallrocks adjacent to the mineralized veins within the Herbert Gold Project area. All ABA samples reported low acid potential and very high neutralization potential such that all rocks are net acid consumers and therefore are unlikely to produce acid. In addition, surface waters were collected to assess chemistries and suspended solids. Geochemical Solutions LLC reports that "Chemically, the water is very clean with very low total dissolved solids."

Ian Klassen, CEO, said, "These results demonstrate no potential issues for acid rock drainage at the Herbert Gold Project. The simple metallurgy and lack of identifiable environmental issues assist the company in developing the Herbert Gold Project's NI 43-101 Gold Resource."

The Herbert Gold property system is open to length and depth and is host to at least six main composite vein-fault structures that contain ribbon structure quartz-sulfide veins. The project lies prominently within the 160km long Juneau Gold Belt, which has produced over seven million ounces of gold. The



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Company's updated NI#43-101 Mineral Resource estimate reported at a base case mineral resources cut-off grade of 3.0 grams per tonne gold (g/t Au) and consists of: an indicated resource of 1,196,800 ounces of gold at an

average grade of 10.23 g/t Au (3,637,000 tonnes); and an inferred resource of 325,900 ounces of gold at an average grade of 8.91 g/t Au (1,138,000 tonnes), as well as an Indicated resource of 686,700 ounces of silver at an

average grade of 5.87 g/t Ag (3,637,000 tonnes); and an inferred resource of 169,300 ounces of silver at an average grade of 4.63 g/t silver (1,138,000 tonnes).

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DATED MATERIAL — RUSH

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Phase Two Program At The Silver Strand Project In Idaho

VANCOUVER - Silver Hammer Mining Corp. reported on the Phase II drilling program at the Silver Strand Project. The Company completed nine drillholes from its previously established underground drilling station that were generally focused on testing the historically mined zone of gold-silver ("Au-Ag") mineralization at greater depth and further along strike. Key Highlights and Takeaways: Six of the nine drillholes returned >100 grams per tonne ("g/t") Ag and/or >1 g/t Au intercepts; SS22-017 intersected 2.9 g/t Au over 8.4 metres ("m"), including 4.4 g/t Au and 74.5 g/t Ag over 1.8 m, demonstrating the potential for significant gold grades at Silver Strand; SS22-015 intersected three mineralized zones, including 613 g/t Ag over 0.5 metres ("m") extending mineralization to 65 m below historical workings; SS22-18 also intersected multiple zones: 212 g/t Ag and 0.67 g/t Au

over 1.5 m, and 2.45 g/t Au and 8.9 g/t Ag over 4.4 m; SS22-011 intersected 115 g/t Ag and 2.0 g/t Au over 0.7 m within a broader 5.5 m interval of lower grade Ag mineralization, and an additional 9.9 g/t Ag and 1.7 g/t Au intercept over 2.1 m further downhole in an area with no previous drilling; and 2022 drilling results extend mineralization further along strike to the northwest, southeast and to depth.

"These new results demonstrate consistent gold and silver values in mineralization beneath and adjacent to the historical mine," stated Interim President and CEO, Warwick Smith. "We believe we are in the upper part of the structurally controlled Ag-Au system and these new results from a modest (667 m) and cost-effective drilling program coupled with completed geophysics point to the potential for additional lenses of mineralization that we can pursue."




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Hycroft Mine Exploration Program Continues To Provide Positive Results

WINNEMUCCA, NV - Hycroft Mining Holding Corporation reported on the additional drill results from its exploration program at the Hycroft Mine in Northern Nevada. Hole H22R-5671 drilled in Brimstone returned very exciting results with multiple intercepts extending high-grade gold mineralization both north and up dip of the known high-grade zones.

The high-grade silver Vortex zone continues to deliver positive results with Hole H22R-5670 returning two significant intercepts demonstrating mineralization continues south along the East Fault.

Alex Davidson, Vice President, Exploration, said, "The initial drilling campaign has focused on higher-grade opportunities primarily in the Brimstone, Vortex, and Central zones. All 20 RC drill holes reported to date have returned ore grade mineralization, of which 14 holes have outperformed the model resulting in higher grades than previously estimated or known. The results to

date are very exciting as we established continuity between the higher-grade zones along structures. In addition, we continue to enhance the project economics through in-fill drilling that have demonstrated mineralization in areas previously considered to be waste.

Drilling in the Central zone is delivering ore grade mineralization where none was previously modeled. The grades we are seeing in the Central zone are more than double the average resource grade and extends mineralization farther south than previously understood."

Diane R. Garrett, President & CEO, said, "We continue to be extremely pleased with the positive results from our exploration program. The second phase of the drill program will continue through the first half of 2023. Once permits are received, we will be stepping out beyond the known resource area and drilling prospective high-grade targets identified within our vast land position."

Completion Of The Underground Exploration And Surface Drilling Program At The Gold Point Project

VANCOUVER - GGL Resources Corp. has completed an underground exploration and surface drilling program at its road-accessible Gold Point Project in the Walker Lane Trend of Western Nevada. At least 15 significant veins have been historically reported in the district, while the majority of production within the bounds of the Gold Point Project was from the Orleans Vein and to a lesser extent the Great Western Vein.

During the 2022 program, initial sampling and mapping was done in the western portions of the 150', 300', 400', 600', and 800' levels of the Orleans Mine. Access to the 960' and 1020' levels is open, but additional ground support and rehabilitation is required before crew can safely enter those workings. There is good air circulation throughout the mine, suggesting that blockages that occur locally in shafts and drifts are relatively limited in size and extent.

Access was also established to the Grand Central Mine allowing crews to complete mapping and sampling in that mine. Results from the underground sampling and

both mines will be released once assays are received and reviewed.

Two diamond drill holes, totaling approximately 440.5 m, were completed on a section line that extends through two of the past-producing veins (Great Western and Hornsilver) and other nearby targets that GGL has identified in recent years by prospecting and soil geochemistry. Drilling evaluated both high-grade and bulk tonnage potential related to multiple, closely spaced veins that are bisected by the section line. The section line also crosses linear gold-in-soil anomalies that are attributed to veins and a broad zone of elevated soil values that has not been explained by surface exploration.

One of the 2022 drill holes tested the Great Western Vein along strike of hole GP-21-012, which intersected 2.22 g/t gold over 12.19 m, including 5.17 g/t gold over 4.57 m. This intersection lies 80 m northwest of the limit of the underground workings and the section line crosses the projection of the structure 75 m further to the northwest.

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Keno Hill Projected To Produce More Than 2.5M Oz.

COEUR D'ALENE, ID - Hecla Mining Company announced preliminary silver and gold production for the fourth quarter and full year 2022 and certain estimates for the Keno Hill mine for 2023. Silver production of 14.2 million ounces, Hecla's second highest, was an increase of 10% over last year driven by a 24% increase at Lucky Friday and a 5% increase at Greens Creek.

As expected, gold production decreased 13% to 175,807 ounces as Nevada production ended. The was a 12% increase in lead production; and zinc production remained unchanged from 2021. The Keno Hill development is on schedule with production planned to start in the third quarter of 2023, ramping-up to an expected 440 tons per day (tpd) by year end.

"Hecla had a 40% increase in production since 2018. This sustainable growth is due to the continued strong performance of Greens Creek and dramatically higher production from Lucky Friday," said Phillips S. Baker, Jr., President and CEO. "Greens

Creek had record throughput in the fourth quarter and Lucky Friday's production was driven by higher grades and the innovative Underhand Closed Bench mining method. In 2023, with Keno Hill expected to produce more than 2.5 million ounces of silver, Hecla could achieve as much as 17 million ounces of silver production, which reaches our production goal a year earlier than planned and would make Hecla the largest silver producer not only in the United States but also in Canada. With silver's growing use in the solar industry and the focus on clean and green energy, this is an exciting time to be the leading silver producer in the world's best jurisdictions."

The Greens Creek mine produced 9.7 million ounces of silver and 48,217 ounces of gold in 2022. Fourth quarter production was 2.4 million ounces of silver and 12,990 ounces of gold. The mill achieved a new throughput record of 2,502 tpd in the fourth quarter. Annual silver and gold production increased by approximately 5% over 2021 due to increased mill throughput. Fourth quarter silver production was in line with the third quarter of 2022 while gold production

increased by 14% due to higher milled grades. For the year, the mill operated at an average of 2,415 tpd in 2022.

At the Lucky Friday Mine, 4.4 million and 1.2 million ounces of silver were produced in 2022 and the fourth quarter, respectively. Silver production increase of 24% year over year was attributable to an 11% increase in mill throughput and 12% higher grades. Silver production increased 14% in the fourth quarter compared to the third quarter of 2022 due to higher grades. The mine achieved multiple milestones in 2022 with record mined tons, and record mill throughput of 978 tpd in the mine's 80-year history.

The Casa Berardi mine produced 127,590 and 30,709 ounces of gold in 2022 and the fourth quarter, respectively. Gold production declined by 5% over the prior year due to lower grades as ore sourced from the pits accounted for a higher percentage of the mill feed, partially offset by higher throughput and recoveries. Fourth quarter gold production was 8% lower compared to the third quarter of 2022 due to lower milled grades. The

mill operated at an average of 4,353 tpd in 2022, an increase of 4% over the prior year, and achieved yet another throughput record of 4,468 tpd in the fourth quarter of 2022.

At the Keno Hill mine, development remains on schedule and the mine is expected to commence production in the third quarter of 2023 with a phased

ramp up projected to reach 440 tpd by the end of the year. Ramp-up and development costs from January 2023 until full production is achieved are forecast at \$35 - \$40 million. 2023 silver production is forecast to be more than 2.5 million ounces and is expected to come from the Birmingham and Flame & Moth deposits.

Near-Surface Oxides Intersected At Haidee Deposit Area In Idaho

TORONTO - Revival Gold Inc. reported on the first twelve of eighteen core holes drilled in the Haidee deposit area during the exploration program at the Beartrack-Arnett Gold Project located in Idaho. Each of the twelve holes rintersected above cut-off grade, near-surface oxidized gold mineralization. Highlights: 1.12 g/t gold over 18.0 meters¹ and 0.36 g/t gold over 32.8 meters¹ in AC22-097D; 0.81 g/t gold over 30.1 meters¹ and 0.53 g/t gold over 16.9 meters¹ in AC22-100D; 0.76 g/t gold over 19.8 meters¹ in AC22-092D; and 0.53 g/t gold over 35.8 meters¹, 0.53 g/t gold over 29.3 meters¹ and 0.40 g/t

gold over 14.7 meters¹ in AC22-095D.

The 2022 drilling program at Haidee was designed to upgrade and expand the deposit's current Inferred heap leachable Mineral Resource. A total of 18 holes were completed for approximately 2,900 meters. Results to-date from the 2022 drilling program are consistent with those from previous drilling. They will help support this year's Preliminary Feasibility Study (PFS) on the first phase re-start of heap leach operations at Beartrack-Arnett and they further validate the potential for future up-dip and down-dip additions to the current Mineral Resource.

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Gold-Platinum Group Elements-Battery Metals At The Pine Target

VANCOUVER - Stillwater Critical Minerals reported the first tranche of results from work completed in 2022 on Pine Target at Stillwater West platinum group element, nickel, copper, cobalt, and gold (PGE-Ni-Cu-Co + Au) project adjacent to Sibanye-Stillwater's mining operations in Montana.

Rock chip samples taken across approximately two meters of exposed shear in a trench at the Pine target in 2022 returned high-grade gold, palladium and platinum mineralization with an average of 9.0 g/t Au, 0.69 g/t Pd, and 0.69 g/t Pt. Significant nickel and cobalt values are also reported, consistent with past results from this

area. Work in 2022 also included the acquisition of historic core to support the advancement of drill-defined high-grade mineralization at Pine towards completion of an NI-43-101-compliant resource. Mineralization at Pine was not included in the five deposits delineated by the 2021 MRE at the Chrome and Iron Mountain target areas, up to nine kilometers east of Pine within the Stillwater Igneous Complex.

Historic drilling at Pine returned values of 16.94 g/t 3E (16.19 g/t Au, 0.24 g/t Pt, 0.50 g/t Pd) over 7.98 meters and 31.02 g/t 3E (28.7 g/t Au, 1.06 g/t Pt, 1.27 g/t Pd) over 2.6 meters in the area of the 2022

trench samples. Mineralization remains open to expansion in all directions including towards very high-level gold-in-soil anomalies extending up to two kilometers west of Pine, in addition to the adjacent high-level palladium, platinum, and nickel-copper soil anomalies. Elevated gold values are also demonstrated in high-grade drill results two kilometers east of Pine at the Chrome Mountain deposit area, and nine kilometers east at the Iron Mountain deposit area.

Danie Grobler, Vice-President of Exploration, said, "The Pine samples display an anomalous suite of shear zone hosted mineralization with elevated Au, Ni, Co and PGEs. These shear zones appear to trend in an NNW direction, forming an exciting and important target for advancement. The host rock is intensely sheared and altered Bronzite Cumulate with disseminated to massive chromite and possibly formed the focus for a cross-cutting post-magmatic hydrothermal alteration event. Recently identified precious and base metal in soil anomalies at the Gold Ridge and Pegmatoid Ridge targets to the west of Pine are coincident with large, intense anomalies in geophysical surveys and have not been explored in the past."

Michael Rowley, President and CEO, commented, "Our expanding understanding of high-grade gold and platinum group element mineralization, alongside the wealth of critical

minerals that the Stillwater district is known for, highlights the surprisingly underexplored nature of the lower Stillwater Igneous Complex and the potential that exists for the advancement of multiple world-class ore bodies across the 32-kilometer span of the Stillwater West pro-

ject. We look forward to additional reports on recent work including our updated mineral resource estimate as those results become available, and beyond that to announcing our 2023 plans for continued expansion in this iconic American district."

Pan American Energy To Spin-Out Utah Property

VANCOUVER - Pan American Energy Corp. reported that, following careful review, it intends to "spin-out" its Green Energy Lithium Project, located in Cane Creek Anticline, Grand County, Utah, into a wholly-owned subsidiary (Subco). Following the transfer of the Property to Subco, the Company intends to distribute all, or the majority, of the Subco common shares to its existing shareholders on a pro rata basis and pursue a listing of Subco's common shares on a Canadian stock exchange. The transaction is currently anticipated to proceed by way of a plan

of arrangement under the Business Corporations Act (BC). No change in shareholders' holdings in Pan American.

Jason Latkowcer, Chief Executive Officer, said, "The Spin Out allows us to more acutely focus our human capital and other resources. By narrowing our focus to two assets, we believe that we will be able to more effectively advance our exploration pursuits at the Big Mack Lithium and Horizon Lithium Projects. We will continue to support the management team of Subco to execute on ongoing permitting and other strategic initiatives."

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Selebi Mine Diamond Drilling Program In Botswana

TORONTO - Premium Nickel Resources Ltd. reported on the Selebi nickel-copper-cobalt (Ni-Cu-Co) sulphide mine in Botswana. Approximately 14,815 metres of diamond drilling has been completed to date at the Selebi Mine by PNRL in 2022.

Notable highlights include: 1) SMD-22-006a-W2 (upper interval): 9.80 metres of 1.56% NiEq (0.97% Ni, 1.74% Cu, 0.03% Co), including 6.80 metres of 2.06% NiEq (1.28% Ni, 2.35% Cu, 0.04% Co). 2) SMD-22-006a-W2 (lower interval): 4.65

metres of 1.55% NiEq (1.10% Ni, 1.24% Cu, 0.04% Co).

The Company's Phase 1 drilling program commenced in March 2022, with the purpose of locating the Selebi Mine mineralized structures within the 3 km area located between the Selebi Mine historical mine workings to the south and the Selebi North Mine historic workings to the north. This current phase of drilling is focused on an area at the western down dip edge of the historic 2016 South African Mineral Resource Committee (SAMREC) compliant Selebi resource (Measured Mineral Resources of 0.37 Mt of 1.01% Ni and 2.19% Cu, Indicated Mineral Resources of 6.82 Mt of 1.05% Ni and 2.29% Cu, and Inferred Mineral Resources of 4.09 Mt of 0.86% Ni, which has not been prepared in accordance with NI 43-101), where the Company has shown that the mineralization has greater thicknesses and depth extent than those of the historic resource. Drilling included testing of an off-hole borehole electromagnetic (BHEM) anomaly identified by PNRL in historic hole sd140, a 2010 drill hole located to the north and down plunge of the historic drill hole sd119 that reported an estimated true thickness interval of 38.5 metres averaging 1.58% Ni and 2.44% Cu, including 21.4 metres of 2.34% Ni and 3.39% Cu. Historic drill hole sd119 is located approximately 300 metres north from the closest Selebi mine underground infrastructure, and is used as PNRL's

point of reference for this initial drill program to help communicate step out distances and geometries of additional drill hole pierce points.

The Company's drilling to date has provided evidence of at least two mineralized amphibolite hosted horizons that are separated by gneiss. All four of these drill-holes intersected the same two intervals of amphibolite hosted Ni-Cu-Co mineralization, including SMD-22-006a-W2 that is located approximately 500 metres down-plunge of previously announced SMD-22-001 and 650 metres from historic hole sd119. By drilling down-dip to the west, the Company has intercepted thicker intervals of mineralization when compared to the widths reported in the historic Selebi SAMREC resource. Although the lower mineralized amphibolite has been intersected in historic drill holes, drill hole SMD-22-006a-W2 is the first occurrence of significant widths and grades in the lower interval.

Keith Morrison, CEO, said, "PNRL's work on the Selebi Mine continues to demonstrate significant expansion potential and mineralization continuity along strike, down dip and down plunge of the historic 2016 SAMREC compliant resources (which included Measured Mineral Resources of 0.37 Mt of 1.01% Ni and 2.19% Cu, Indicated Mineral Resources of 6.82 Mt of 1.05% Ni and 2.29% Cu, and Inferred Mineral Resources of 4.09 Mt of 0.86% Ni and 1.21% Cu at Selebi as well as included

Measured Mineral Resources of 0.71 Mt of 1.24% Ni and 1.03% Cu, Indicated Mineral Resources of 1.14 Mt of 1.27% Ni and 1.13% Cu, and Inferred Mineral Resources of 2.79 Mt of 0.93% Ni and 0.87% Cu at Selebi North).

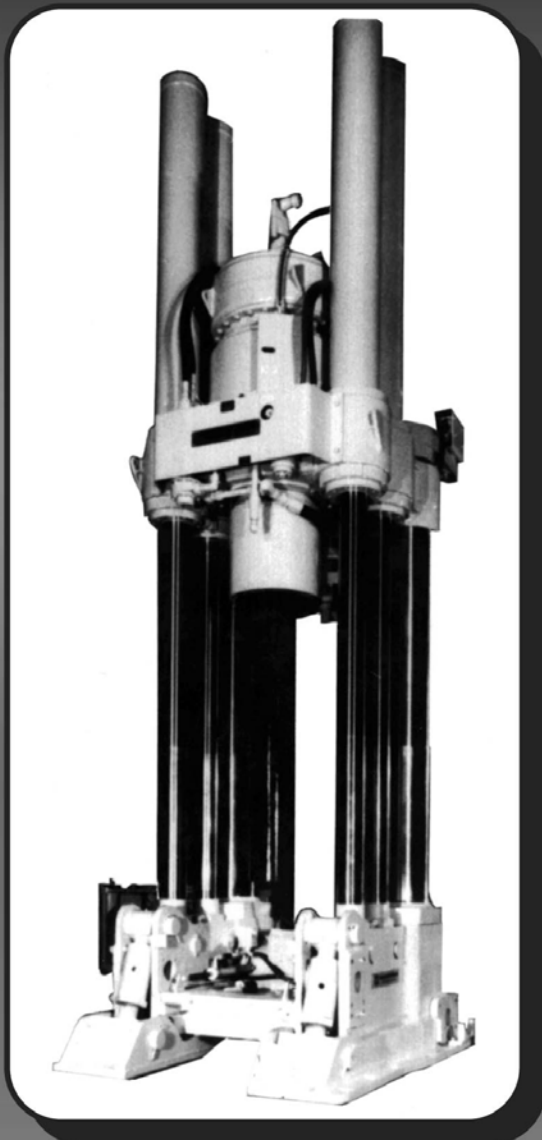
The strategic initiative through this first phase of drilling is to obtain the necessary geoscience data to advance to the second phase of drilling, which is the transition to underground resource drilling at both the Selebi and Selebi North deposits. Our team is using an integrated data driven process incorporating BHEM, televiwer surveys, structural modeling and surface drilling to extend the known mineralization from the south (Selebi) and from the north (Selebi North), as the Company believes Selebi Mine could be a single continuous mineralized system. The borehole geophysics has been very successful in imaging highly conductive metallic mineralization along the down-dip structure possibly joining the two deposits over a length greater than 3,000 metres.

The structural understanding increases as more holes are drilled, additional geophysical surveys are completed, and multiple mineralized structures at the Selebi North deposit are identified and explored. Data supported modelling is beginning to demonstrate that the mineralized Selebi North structures could be potentially related to similar structures below the Selebi deposit and mine horizon."



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Drilling Permits Received For Southwest Colorado Twin Canyon Gold Project

VANCOUVER - Alianza Minerals Ltd. announced that its proposal for drilling at the Twin Canyon Project in southwest Colorado has been approved by the United States Forest Service and the Colorado Division of Reclamation, Mining and Safety, subject to certain standard operating conditions and placement of a \$18,104 bond. Alianza has now received all necessary permits to conduct a proposed 13 hole drill program from 8 drill pads, totalling approximately 3,950 metres of drilling.

"Mineralization at Twin Canyon is centred on the Charlene Mine, where 'several thousand' ounces of gold were reportedly mined from bleached and altered sandstones in the 1980s," stated Rob Duncan, M.Sc., Vice President, Exploration. "Alianza's work has identified the same gold bearing sandstones over a distance of 3000 metres of strike length in the vicinity of the Charlene Mine, greatly expanding the exploration potential of this district. The proposed drill program will test this prospective stratigraphy with the goal of demonstrating a large scale gold mineralizing system at Twin Canyon."

Exploration at Twin Canyon has targeted disseminated native gold mineralization associated with a bleached sandstone spotted with bitumen, with small amounts of limonite after pyrite. Optical and microprobe work carried out on mineralized sam-

ples indicate a direct gold - bitumen association raising the novel possibility that the mineralizing process at Twin Canyon is driven by those associated with petroleum basin development.

A small underground gold mine (the Charlene Mine) operated at Twin Canyon dating back to the mid-1950s. Historic sampling of the underground workings has returned grab samples ranging from 0.1 to 15.77 g/t gold. Twenty-eight historic channel samples 1.5 to 10 metres in length were anomalous in gold, eight of which exceeded 2 g/t gold (including a highlight of 8.1 g/t gold over 3 metres). Recent work, including mapping and soil and rock geochemical sampling expanded the prospective strike length of the prospective gold bearing sandstone unit to over 3000 metres, with regional potential for expansion of the target laterally as well as to deeper stratigraphic levels.

The Twin Canyon gold property is a sandstone-hosted gold prospect in southwest Colorado, approximately 20 km from the town of Mancos. The property is road-accessible and hosts a series of underground workings (Charlene Mine) that date back to the 1980s and 1990s. A small family operation mined and crushed the sandstone to recover gold. Alianza acquired a lease on the property in June of 2020 to explore the potential for widespread gold mineralization.

Silver Cloud Project Metallic Screen Gold Determinations

VANCOUVER - Blackrock Silver Corp. reported the results of metallic screen gold determinations on the Silver Cloud project situated 20 kilometres south of the Midas mine and 3 kilometres west of Hollister mine located along the prolific high-grade Northern Nevada Rift, in north-central Nevada.

A metallic-screen gold assay completed on the high-grade intercept (1.5 metres) in SBC22-020 at Northwest Canyon returned 70 g/t gold (calculated), 33% higher than the original assay of 52.62 g/t gold. The +150 fraction returned 60.257ppm Au, while the average of the two -150 fractions returned 71.420ppm Au. The variability of gold in the intercept indicates the gold is not evenly distributed within the vein.

Bonanza grades originally reported from SBC22-020 intersected 52.62 g/t gold (1.53 opt) and 606 g/t silver (17.68 opt) over 1.5 metres, representing a new high-grade vein discovery. The bonanza grades are associated with a banded quartz vein containing black sulphides, and the 606 g/t silver is the highest-grade silver intercept at Silver Cloud to date.

Metallic-screen analysis is used when coarse or nuggety gold is suspected, especially in high-grade gold values such as SBC22-020. A larger 1,000 gram sample is split from the original sample reject material and pulverized to approximately 200 mesh. The pulverization process tends to "flatten" malleable metallic minerals



such as gold. The sample is then screen sieved and two fractions are created - a plus 150 mesh (coarse material) and a minus 150 mesh (fine material). Coarse gold will report to the coarse fraction. Each fraction is analyzed by fire assay and a combined weighted averaged determination is calculated for each gold value.

In the case of SBC22-020, most of the gold reported to the fine fraction indicating the gold is not coarse or nuggety. The 33 percent variation between the original assay determination and the metallic-screen analysis indicates the gold is not evenly disseminated and a larger sample may be required for future assays.

Discovery drillhole SBC22-020 targeted the projection of the NNW structure encountered in the Company's 2019 drillhole (SBC19-002: 8.32 g/t gold over 1.52m) and Placer Dome's 2002 drillhole (SCP-15: 5.61 g/t gold over 12.2m) and was drilled to 464 Metres (1523 ft). SBC22-020's collar is a 366 metre step out from SBC19-002 (collar to collar)

to the SSE along the interpreted structure. The assay intercepts are separated by 425 metres. Selected intervals were analyzed for metallic-screen gold in drillholes SBC22-019 and SBC22-021.

Andrew Pollard, President and CEO, said, "These metallic-screen assays confirm our high-grade gold intercept at Northwest Canyon and returned a gold value 33% higher than the original gold assay. We are very excited by this new, multi-ounce discovery, which ties together drill-defined mineralization across 425 metres, supporting the orientation and mineralization of the vein at Northwest Canyon is more like that characterized at the Midas mine than the Hollister mine that is adjacent to our property. In addition, metallic-screen analyses of an interval, drilled near the historic Silver Cloud mercury mine, starting at 391.4 to 391.7 metres in SBC22-021, returned coarse gold, reading 26.27 g/t Au in the +150 fraction, indicating the possibility of another high-grade gold vein.

At more than 45 square kilometres, Silver Cloud is an incredibly large, target-rich project that has seen very little drilling despite the fact that it lies along a well known, high-grade gold trend. Home to some of the largest past producing mercury mines in America, with extensive epithermal alteration, Silver Cloud represents one of the largest under-explored volcanic hosted gold and silver epithermal districts in Nevada, and we control all of it."

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VMS Mineralization Intersection North Of Kay Mine

TORONTO - Arizona Metals Corp. reported that step-out drilling located 300 metres north and on strike of its Kay Mine Deposit has intersected a new zone of copper-gold VMS mineralization, at depths ranging from 150 to 600 metres vertically below surface. The new zone is open in all directions, with drilling currently underway to test for extensions and thickening of the mineralization encountered to date. Six additional holes have

been reported from the Kay Mine Deposit, including three infill and three extensional holes.

North Strike Extensional Drilling: Hole KM-22-93 intersected four separate intervals of VMS mineralization over a vertical extent of approximately 140 m (from 470 m to 610 m vertically below surface), including 4.5 m at a grade of 1.8% CuEq, 2.0 m grading 1.5% CuEq, 4.6 m grading 0.8% CuEq, and 1.2 m grading 2.7% CuEq. This hole is

approximately 300 m below hole KM-22-30, which intersected 3.0 m grading 1.1% CuEq, and 400 m below KM-22-33, which intersected 1.2 m grading 4.2% CuEq. Mineralization is open in all directions around these intercepts. This hole extends the strike of mineralization approximately 300 m from the northernmost Kay Mine Deposit drill intercept.

Kay Mine Deposit Drilling: KM-22-81B intersected 3.8 m grading 10.7% CuEq from 750 m.

This is a step-out hole to the south, which extended mineralization about 50 m south of hole KM-21-52A along the southern edge of the Kay Mine Deposit.

Marc Pais, CEO, said, "The drill results reported, located 300 metres north of the Kay Mine Deposit, confirm our opinion that the Kay Mine Deposit is potentially part of a much larger mineralized system, typical of what is encountered in other VMS camps around the world. We expect that infill and extensional drilling at the Kay Mine Deposit will continue to expand and improve confidence in its size potential.

Initial testing around the Central Target, from pad 7 has also encountered some encouraging results, with numerous markers typically associated with VMS deposits. These include thick zones of graphite mineralization interbedded with anomalous levels of pathfinder elements, particularly zinc. Drilling will continue at the Central Target, from pads C1 and C2, which we believe are better positioned to test the anomaly, using the results reported as vectors in seeking additional VMS mineralization.


Road construction is underway to reach drill locations that will test the Western Target, located 1,200 m west of the Kay Mine Deposit, with drilling expected to commence here in Q1'2023. Work will continue at the Kay Mine Deposit to define an initial resource, in conjunction with associated hydrological, rock geochemistry, metallurgical, and specific gravity studies, but we antici-

pate that over the next 18 months approximately 90% of budget will go towards exploration south, north, and west of Kay Mine."

With the assayed holes released, the Company has completed a total of 74,800 meters at the Kay Mine Project since inception of drilling. The Company is fully-funded to complete the remaining 8,500 meters planned for the Phase 2 program with the priority focus areas for upcoming drilling as well as an additional 76,000 meters in the upcoming Phase 3 program.

The Phase 3 drill program will test the numerous parallel targets heading west of the Kay Mine Deposit, as well as the possible northern and southern extensions. The road to the Central Target (located 300 m west of the Kay Mine Deposit) is complete, and drilling at the Central Target pads commenced during November 2022.

A total of six holes were drilled to the west from pad 7, but due to the westerly dip of the stratigraphy and the Central Target EM anomaly, these holes did not fully test the Central Target. Results from these six holes, along with updated structural mapping and ground-loop EM geophysics, will be used to refine the drill targeting from pads C1 and C2. The location of these pads will provide much better angles to intersect the core of the Central Target, while also testing for its extensions north and south along strike of the mafic-felsic contact that potentially hosts mineralization.



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Positive PEA For Kwanika-Stardust Copper-Gold Project

VANCOUVER - NorthWest Copper Corp. reported on the preliminary economic assessment (2023 PE²), on its Kwanika-Stardust Project comprising the Kwanika and Stardust deposits. This represents the first technical and economic evaluation of the combined deposits outlining a robust project with manageable initial capital cost and multiple opportunities for project growth. NorthWest plans to continue to evaluate the possibility of further synergies with nearby deposits and the proposed

Project infrastructure, with a particular focus on the nearby Lorraine Project.

The 2023 PEA outlines a project that proposes mining approximately 96 million tonnes (Mt) of material in a combination of open pit and underground operations from the Kwanika and Stardust deposits. The 2023 PEA contemplates a 22,000 tonnes per day (“tpd”) process plant, producing high-quality copper concentrate with significant gold and silver by-product credits.

“This study is a major step in

demonstrating the value created by combining Kwanika and Stardust, the cornerstone deposits of the NorthWest portfolio,” said President and CEO, Peter Bell. “We have been describing a project with manageable initial capital and significant copper production to the market since creating the Company in 2021. This PEA supports that vision. We are also now working towards advancing the Project including exploring whether the nearby 100%

owned Lorraine Project, located approximately 40 km away, can be developed with the infrastructure contemplated in the Kwanika-Stardust PEA. Conducting the necessary studies to ascertain whether Lorraine can be incorporated into the Kwanika-Stardust project will be the main objective of the Company in 2023, as we believe that this will add further value to the strong project we have outlined with this PEA.”

“The focus in Canada is

turning to critical minerals, including copper,” continued Bell. “Our project is extremely well located, has both meaningful scale and manageable capex, benefits from existing infrastructure, has access to renewable power and is in a Tier 1 jurisdiction making it rare and highly valuable. We look forward to working collaboratively with First Nations to advance the project as part of BC and Canada’s push for critical Canadian copper production.”

Extended Big Vein Discovery At The Appleton Fault Zone

TORONTO - Labrador Gold Corp. reported on exploration at the Kingsway Project. Exploration during 2022 was focussed on the Appleton Fault Zone that trends over a 12km strike length at Kingsway. Highlights of exploration: Extended Big Vein discovery to over 520 metres NE-SW strike length; mineralization remains open in both directions; Both the highest-grade intersection of 284.1 g/t Au over 0.58 metres and the longest intersection of 2.02 g/t Au over 32 metres on the property to date were uncovered at Big Vein; Additional high-grade mineralization (479.5 g/t Au) found in outcrop at Golden Glove where initial

drilling during 2022 intersected 6.22 g/t Au over 4m and 20.07 g/t Au over 1m; Made two brand new discoveries of near surface gold mineralization under cover at the Pristine and Midway targets. Initial drilling at Pristine identified a mineralized zone (Doyle Zone) that extends over 135 metres and a second parallel zone approximately 25m east; Limited drilling at Midway indicates near surface gold disseminated within an altered gabbroic intrusion, a separate mineralization style with significant potential for expansion along strike; Drilled 36,000 metres after doubling the size of the planned drill program to 100,000 metres.

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Intersections At North Fork Zone, Fondaway Canyon

VANCOUVER - Getchell Gold Corp. reported on drill holes FCG22-23 and FCG22-25 that continue to demonstrate significant intervals of gold mineralization at the North Fork zone in the Central Area of the Fondaway Canyon project in Nevada. FCG22-23 intersected four significant gold mineralized intervals including 3.4 g/t Au

over 44.6 m and 1.8 g/t Au over 12.8 m. FCG22-25 intersected four significant gold mineralized intervals including 3.4 g/t Au over 31.4 m and 1.3 g/t Au over 17.4 m. Both holes extend North Fork mineralization by 25 m to the north and 30 m up-dip respectively.

Assay results from three holes (FCG22-26 to 28) drilled

at the Colorado SW zone are still pending, and FCG22-24, drilled 2 kms west on the Pediment, intersected two intervals indicative of gold mineralization peripheral to a main zone.

"Every hole drilled on the North Fork zone in 2022 successfully intersected and extended the gold mineralization.

North Fork is shaping up to be a major center for gold mineralization that remains open in all directions and will continue to be a drill priority in 2023." said Mike Sieb, President. "Being able to say, 'we have yet to test the limits of the gold mineralization' after three drill campaigns is an excellent position to be in and highlights the overall poten-

tial of the Fondaway Canyon gold project."

Fondaway Canyon is an advanced stage gold property located in the Churchill County, Nevada. The land package contains 170 unpatented lode claims. The property has a history of previous surface exploration and mining in the late 1980's and early 1990's.

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Drilling Identifies Massive Sulfides At Waterpump Creek

TUCSON, AZ - Western Alaska Minerals (WAM) reported that massive sulfides announced visually from drill hole WPC22-21 report 5.1 meters grading 789 g/t Silver (25.4 oz/t), 22.0% Lead and 14.9% Zinc. WPC22-21 is the last hole to be reported from the 2022 exploration season at the Waterpump Creek Carbonate Replacement Deposit (CRD), and successfully continues the emerging 400m long mineralized trend defined by holes WPC21-09 through WPC22-22. Mineralization remains open in several directions and tracing this mineralized body will be one of the principal focuses of an expanded 2023 drill program.

"Bonanza silver grades averaging 25.4 oz/T with combined lead-zinc grades of 36.9% in the last hole of our 2022 drilling program are a great way to end the season," said Kit Marrs, CEO. "This intercept continues the upper zone or manto at Waterpump Creek and mirrors similar high-grades in drill holes extending approximately 400 meters to the north. We expect to continue expanding the zone to the south with an aggressive multi-rig program in 2023."

Twenty-eight holes were drilled at Waterpump Creek in 2022. Of the 28holes, 9 encoun-

tered mineralization, and the remainder did not. Given the sinuous, "skeletal" nature of many CRD deposits and the sharp boundaries between mineralized and non-mineralized material in CRD's, this is not an unexpected result. Of those holes which did not encounter mineralization, 12 were drilled off to the east or west sides of the manto and two missed by drilling above or below the mineralized holes, and five were located on the south side of intervening wetlands along an east-west line located approximately 150 meters south of WPC22-22. These five holes suggest the manto is further west as a consequence of the intersection with the north-east trending Illinois Creek fault zone. This conclusion is also supported by ongoing remodeling of the 2005 IP survey and will be verified during the 2023 drill program.

Combining the results from the first 23 holes drilled in the Waterpump Creek structural zone allows delineation of a continuous elongate massive sulfide ribbon ("manto") 30 to 75 meters wide and 400 meters in length plunging gently to the south. Mineralization remains open in several directions. The mineralization affects reactive

dolomite lying beneath an impermeable schist along the WPC Creek structure. Hole WPC22-18 tested the intersection of the WPC and Illinois Creek structures and cut 101.7 meters of massive and semi-massive sulfides interpreted to reflect a "feeder chimney" and a possible mineralizing fluid upwelling zone. The three emerging mantos of high-grade silver-lead-zinc mineralization in WPC22-22 extend the lower mineralized zone 75 meters south of WPC22-18 and suggest it continues to thicken in that direction.

Planning for 2023 is ongoing as this year's results are analyzed in detail. Two or three new Company-owned drill rigs are expected to be added to the two existing owned drill rigs allowing WAM to drill up to 17,000 meters next season. 2023 drilling will focus on following the Waterpump Creek high-grade manto to extend the manto along strike with drill spacings ultimately suitable for resource modeling.

Concurrently, we will explore via drilling and geophysics the multiple similar geologic settings which have been identified elsewhere on the property and look for the intrusive body that drove the system.

Positive PEA And Updated Mineral Resource Estimate For The Bucko Lake Mine

VANCOUVER - CaNickel Mining Ltd. reported on the Preliminary Economic Assessment (PEA) and Mineral Resource Estimate (MRE) on the Bucko Lake Mine located 110 km southwest of Thompson, Manitoba near the Town of Wabowden. The PEA outlines a mine life of 13 years with average annual production of 7.8 million pounds of nickel.

Measured and Indicated Mineral Resources of 5.7 million tonnes grading 1.24% nickel ("Ni") (using a 0.7% Ni cut-off grade) and 0.11% copper ("Cu") for contained metal content of 156.3 million pounds of nickel and 13.4 million pounds of copper. Additional Inferred Mineral Resources of 10.6 million tonnes grading 1.18% Ni (using a 0.7% Ni cut-off grade) and 0.13% Cu for contained metal content of 275.6 million pounds of nickel and 31.2 million pounds of copper.

The PEA indicates that the Project would be rehabilitated from its current "care and maintenance" status and placed into operation to produce 101 million pounds of payable nickel over a 13-year mine life. The existing 1,000 tonne-per-day (tpd) processing plant would be upgraded to 1,500 tpd. Opportunities exist for operations to continue beyond

the current LOM plan using resources from multiple known satellite deposits on active company claims: three contiguous deposits are located within 4 km from the Bucko Lake Mine, and a fourth deposit is located approximately 30 km away.

"We are encouraged by the positive economics demonstrated by this PEA for the Bucko Lake Mine," stated Kevin Zhu, CEO. "The Project represents one of the more advanced, higher grade nickel sulphide projects in North America and benefits from existing infrastructure, including a previously operated 1,000 tpd process plant which we placed on care and maintenance due to low nickel prices in 2012. With demand and prices now surging for Class 1 nickel sulphide on the back of increased demand in electric vehicle batteries, production at the Bucko Lake Mine appears to be economically feasible once again. CaNickel now intends to advance on two fronts in the coming months: (1) review options for restructuring the Company's \$90+ million in corporate debt; and (2) seek to advance the Project by completing a mine restart and closure plan along with pursuing growth opportunities by updating MRE for its four satellite deposits."

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New High-Grade Intervals At San Marcial SE Area

VANCOUVER - GR Silver Mining Ltd. reported on surface drilling success in the new high-grade Southeast Area (SE Area) silver (Ag) discovery within the San Marcial Area, located at the Plomosas Project, in Sinaloa, Mexico.

The six holes represent extensions along strike or down dip, creating the potential to expand silver mineralization boundaries. Each of the SE Area holes add attractive silver results and key geological information to expand the current Ag mineralization model.

The Company has now completed all holes planned to be incorporated into the 3D geological model, with the updated resource estimation expected to be released in Q112023. A total of 75 GR Silver Mining drill holes (10,500 m) will be added to the 52 holes used in the 2019 NI 43-101 San Marcial mineral resource estimation.

SMS22-09 resource area – down dip/plunge extension in the previous resource area 5.6 m at 1,223 g/t Ag, 1.4% Pb and 1.2% Zn including 0.3 m at 26,150 g/t Ag, 30.0% Pb and 18.6% Zn. SMS22-09 intersected mineralization textures similar to those in SMS22-10 at and below the San Marcial Breccia.

At further depth, the hole encountered a 5.6 m zone of veining with high-grade Ag-Pb-Zn mineralization, including the highest-grade silver result to date from San Marcial – 26,150 g/t Ag over 0.3 m.

SMS22-22 SE Area - down dip extension from hole SMS22-16 82.7 m at 121 g/t Ag, including 0.4 m at 3,386 g/t Ag, and 1.1 m at 1,391 g/t Ag.

SMS22-22 intersected mineralization similar to the previously announced SMS22-16 mineralization in the SE Area. SMS22-16 also contained multiple high-grade intervals, hosted in a wide zone of 123.1 m at 112 g/t Ag, with a predominance of Ag-rich hydrothermal breccias and stockworks.

SMS22-23 SE Area – 80 m step-out drilling from hole SMS22-22 112.6 m at 61 g/t Ag, including 0.9 m at 1,055 g/t Ag, and 0.6 m at 14.3 g/t Au.

SMS22-23 was drilled outside the NE-trending corridor that hosts the SE Area discovery. It was also drilled 60 m down dip from SMS22-13 which did not report significant mineralization closer to surface.

However, SMS22-23 has shown that the same style of Ag mineralization in the SE Area can be found outside the NE trending corridor, in subparallel structural corridors similar to hole SMS22-10.

This is a significant revelation that opens up the exploration potential further to the southeast of the SE Area discovery, along the target contact zone and in other subparallel prospective structures.

SMS22-23 also has a narrow high-grade gold zone – 0.6 m at 14.3 g/t Au – in the vicinity of the gold zone previously reported for SMS22-20 – 1.0 m at 31.3 g/t Au - opening up the exploration potential for narrow high-grade gold veins in the SE Area.



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RC Gold Project Drill Program Highlights Tremendous Potential

VANCOUVER - Sitka Gold Corp. reported on the 2022 diamond drill program completed at the district-scale RC Gold Project, a 376 square kilometre contiguous land package with year-round road access located in the heart of Yukon's Tombstone Gold Belt (TGB).

Cor Coe, P.Geol., CEO and Director, said, "The 2022 step-out drilling at RC Gold was extremely rewarding for Sitka with the results of these latest drill holes highlighting the tremendous potential of the Blackjack zone, which was just discovered in December, 2021. DDRCCC-22-040 is one of the best holes we have drilled to date at RC Gold with the entire 201.0 metre length averaging 1.26 g/t gold including 82.0 m grading 2.04 g/t gold and 19.5 m of 4.87 g/t Au from the casing at surface. Several other impres-

sive intervals including 2 metres of 31.20 g/t gold were encountered throughout the hole which also contained visible gold. Our winter and summer diamond drilling programs last year were successful in demonstrating the continuity of strong and persistent gold mineralization throughout the Blackjack zone, which remains open in all directions. With the potential to also link gold mineralization for up to 2 kilometres across both the Saddle and Eiger Zones, we are eager to aggressively add potential tonnage and unlock additional value with continued exploration at our quickly evolving, district scale and road accessible RC Gold Project."

Drilling to date at the RC Gold Project has produced long intercepts with significant gold grades, as highlighted by Hole 40, and has confirmed the conti-

nity of significant and persistent gold mineralization within the Blackjack zone to surface, which remains open in all directions and demonstrates significantly higher grades of gold mineralization within the intrusion host rock. The majority of drilling to date at RC Gold was designed to provide the spatial requirements necessary to estimate an initial resource.

The Company is planning a two part, winter and summer drilling program totaling 10,000 metres of diamond drilling at RC Gold for 2023 focused primarily in the Blackjack, Saddle and Eiger zone areas.

Barrick Enters JV On Exploration Projects In Saudi Arabia; And Plans To Complete Reko Dig Feasibility Study In Pakistan

RIYADH, SAUDI ARABIA - Barrick Gold Corporation signed new joint venture agreements with Ma'aden for two prospective exploration projects comprising the Jabal Sayid South and Umm Ad Damar license areas.

These new prospective joint ventures significantly expand Barrick's exploration footprint in Saudi Arabia, grow the Ma'aden Barrick partnership and open up potential synergies with the neighboring Jabal Sayid mine, an already successful 50/50 joint venture between Barrick and Ma'aden. From 2018 to 2021 production at Jabal Sayid increased from 110 million pounds to 152 million pounds per annum as a result of improved mining performance and process plant optimization and during the same period the mine's mineral reserves were grown net of depletion by the company's geologically-driven exploration strategy.

In addition, Barrick Gold Corporation President and Chief Executive, Mark Bristow, reported, "After the Pakistan federal and Balochistan provincial government following the completion of the legal processes and definitive transaction agreements last month, it plans to finish the Reko Diq feasibility study update by the end of 2024, with 2028 targeted for first production from the giant copper-gold mine in the country's Balochistan province."

Reko Diq will be operated by Barrick, which owns 50% of the project, with Balochistan holding 25% and three Pakistani state-owned enterprises sharing the remaining 25%. The shareholding structure is in line with Barrick's policy of benefit-sharing partnerships with its host countries.

As part of a three-day project review that started in Quetta. Operations will provide extensive social and economic development opportunities that would be generated, and is expected to have a life of at least 40 years.

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