

# THE MINING RECORD™

COMPREHENSIVE COVERAGE OF THE MINING INDUSTRY™

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THIRTEEN DECADES OF CONTINUOUS INDUSTRY COVERAGE  
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May 2023



Denver, Colorado, USA

Metals Watch (05/08/2023): Gold \$2,021.20 • Silver \$25.54 • Copper \$3.82 • Lead \$.96 • Zinc \$1.18 • Platinum \$1,075.00 • Palladium \$1,482.00 • Uranium \$53.70 • Rhodium \$6,600.00 • Lithium \$25.69/kg • Coal: \$125.00/t

## IDAHO

# New Gold Results From Mineralized Skarns And Breccias

TORONTO - Hercules Silver Corp. reported on new gold geochemical results from mineralized skarns and breccias at the Metheny, Big Cut and Lightning Breccia Zones on the Hercules Property located in western Idaho. The company previously reported 4-acid assay results for silver, lead, zinc and copper from over 800 rock chip samples within soil anomalies across the Property. A 4-acid digest provides superior analytical results versus a typical aqua regia digest, due to the complete digestion of the sample, however gold values are not reported. The Company subsequently fire assayed select rock samples within the porphyry copper target area, which revealed the presence of gold in bedrock. The gold is associated with mineralized skarns as well as a breccia pipe, both of which are interpreted to be the near-surface expression of a buried porphyry copper target.

Surface data suggests that the source intrusion responsible for the copper-gold mineralization at surface lies deeper in the system. The geology at surface is typical of the upper levels of a porphyry copper deposit, including phyllic and argillic alteration associated with the copper-gold anomaly, and widespread propylitic alteration outboard of that to the east. This is classic zonation around and above a porphyry copper system, where the higher-grade potassic alteration occurs at depth, below the phyllic and argillic cap.

In the CRD deposit model, the silver-lead-zinc grades increase



New gold geochemical results from mineralized skarns and breccias at the Metheny, Big Cut and Lightning Breccia Zones on the Hercules Property located in western Idaho.

towards the edge of the porphyry copper intrusion. As a result, the Company may expect to find higher silver-lead-zinc grades at depth, as the rhyolite approaches the buried porphyry copper intrusion (also inferred to lie at depth).

This is supported by the presence of a large IP chargeability anomaly at depth in the rhyolite, for additional information.

Chargeability is a geophysical technique aimed at measuring the concentration of sulfide mineral-

ization in the ground. The higher chargeability values at depth within the rhyolite suggests an increase in sulfide concentration, which in turn lends itself to potentially increased grades at depth.

Two high-grade copper-silver targets, the Big Cut and Metheny Zones, occur within the Triassic Seven Devils Group on the east side of the Property. Both targets demonstrate skarn-style mineral-

ization which occurs where limestone comes in contact with, or lies within close proximity to, a nearby porphyry intrusion. The Big Cut Zone is classified as a garnet-epidote skarn, whereas the Metheny is a specularite (iron) skarn. The differing alteration is likely a function of zonation around a potential porphyry intrusion or multiple intrusive centers at depth.

DATED MATERIAL — RUSH

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## CALIFORNIA

### Acquisition Of Oro Cruz Project

VANCOUVER - Southern Empire Resources Corp. has earned a 100% interest in the Oro Cruz Project, located in southeastern California, after making a final option payment and fulfilling all requisite exploration work obligations.

"Our past-producing Oro Cruz property holds significant exploration opportunities and now that Southern Empire has earned a 100% interest we are eagerly awaiting the outcome of the permitting process, which will allow us to move forward with an aggressive exploration program later this year targeting

high-grade, oxide gold," said Dale Wallster, CEO of Southern Empire.

The Oro Cruz Project covers approximately 2,160 hectares (~5,338 acres) of the Cargo Muchacho mountains in Imperial County, California, and is located about 22.5 kilometers (~14 miles) southeast of Equinox Gold Corp.'s Mesquite mine, which produced its five millionth ounce of gold in July 2022.

The Oro Cruz Project covers prospective gold exploration targets, including the American Girl, Padre y Madre, Queen, and Cross oxide gold deposits.




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## COLORADO

### Updated Mineral Resource At The Silver Cliff Property

VANCOUVER - Viscount Mining Corp. reported on an independent, updated mineral resource estimate in accordance with National Instrument 43-101 -- Standards of Disclosure for Mineral Projects. The resource estimate was completed by Viscount Mining Corp. who retained Harald Hoegberg to update the mineral resource estimate conducted by Arseneau Consulting Services (ACS) in 2018 on the Kate Silver Resource (KSR), a deposit located on Viscount's Silver Cliff property, just north of the town of Silver Cliff, in Custer County, Colorado. This NI 43-101 demonstrates a major expansion of the open pit (OP) mineralization at the Kate.

The updated technical report is a compilation of historical work conducted by various operators managing the Silver Cliff property between 1965 and 1992, deemed acceptable for resource estimate inclusion by Dr. Arseneau and previous drilling performed by Viscount in 2016 and 2017 (Arseneau, 2018). The update included Arseneau's data interpretation as well data from four drilling campaigns conducted by Viscount from 2020 to 2022 and field data gathered during the same time frame.

Highlights of the Kate Resource Estimate: 85 percent increase in measured and indicated mineral resources at 71g/t from 5,560,900 million ounces (Moz) to 10,275,000 Moz Ag; 99 percent increase in inferred mineral resources at 52g/t from

7,143,900 Moz to 14,215,000Moz Ag; and A total of 36 drill holes (1628 meters) were added to the 18 Viscount holes used in the previous resource estimate, totaling 54 drill holes (2865 meters for the KSR).

Jacob Hooker, Exploration Manager, said, "This will be a busy year at Silver Cliff as we are currently finalizing drill plans to continue to upgrade on the historical resource proven by Tenneco in the late 1980s and early 1990's at the KSR. We are also completing our drill plans at the Passiflora to follow up on the Quantec Geoscience USA Inc. report. As verified by Quantec, a deposit with this large scale size and this high of a conductivity (extremely low resistivity) is likely explained by a huge system of interconnected mineralized fractures."

The NI 43-101 considers most of the Kate deposit to be a reasonable prospect for eventual open-pit mining given its proximity to the surface and flat-lying distribution. A flat-lying, base metal rich deposit could be indicative of polymetallic replacement. The high correlation of silver and base metals and the lack of gold makes it seem possible that the deposit is a manto type deposit. Recent geophysical investigations to the north of the KSR indicate the presence of a porphyry system that would fit the manto deposit model. A technical report is being prepared on the updated mineral resource estimate in accordance with NI 43-101.

### Duke District Drilling Program

VANCOUVER - Amarc Resources Ltd. reported on the completion of the Phase 1 core drilling program at its DUKE porphyry Cu-Au district, central British Columbia (BC). Three drill rigs were deployed during the program completing 11,070 m in 24 core holes. Two rigs focused on further delineating the DUKE Cu-Mo-Ag-Au Deposit, while the third commenced testing the shallow overburden covered and robust 4.7 km<sup>2</sup> Induced Polarization (IP) chargeability anomaly. This IP chargeability anomaly surrounds the DUKE Deposit and is indicative of an expansive mineralized sulphide system. Amarc and Boliden are

now actively planning the Phase 2 exploration works that will commence in early summer, and which will include extensive surface surveys to explore 10 prioritized porphyry Cu deposit targets across the DUKE District.

These Phase 1 and 2 programs through 2023 are budgeted at \$10 million and are being fully funded under the Mineral Property Earn-in Agreement with Boliden Mineral Canada Ltd.

During Phase 1, an additional 22 holes were completed this year with on-site activities resuming in mid-January after a holiday break. As assay results from these holes are received, they will be compiled, assessed and reported.

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# Higher Production Volumes At Tanami And Ahafo Operations

DENVER, CO - Newmont Corporation President and CEO, Tom Palmer, said, "Since transforming Newmont's business four years ago, we continue to lead the gold sector in sustainability, profitable gold production and shareholder returns due to the strength of our team and the quality of our world-class portfolio. During the first quarter, we delivered on our expected results, generated nearly \$1.0 billion in adjusted EBITDA. We remain on track to achieve our full year guidance ranges and build upon our track record of safely delivering long-term value to all of our stakeholders through sustainable and responsible mining."

In the first quarter production volumes came in line with our previously signaled expectations for the first quarter, with higher than signaled production at Tanami and Ahafo, partially offset by lower than planned production at our non-managed joint ventures. Compared to the fourth quarter, earnings were in-line despite lower sales volumes, which were partially offset by higher realized gold prices, including \$17 million of favorable mark-to-market

adjustments on provisionally-priced gold ounces. Gold CAS per ounce was higher than the fourth quarter due to lower sales volumes, partially offset by lower gross costs from easing inflation on commodities, materials and supplies. Advanced projects and

exploration spend was lower than the fourth quarter, but is expected to be higher in the second quarter and the remainder of the year.

Attributable gold production decreased 5 percent to 1,273 thousand ounces from the prior year quarter primarily due to lower mill

recovery and ore grade milled at Peñasquito as a result of the planned mine sequencing, the impact of the mill shutdown at Tanami due to the rainfall event and lower production at Nevada Gold Mines. These decreases were partially offset by higher ore grade

milled at Ahafo and higher mill throughput and ore grade milled at Eléonore. Attributable gold sales versus production was impacted by the timing of concentrate shipments at Peñasquito. This concentrate has been sold and revenue will be realized in second quarter.

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# Six Holes Completed On Exploration Targets At Omai Project

TORONTO - Omai Gold Mines Corp. reported on its Omai gold project in Guyana. Six holes have been completed on exploration targets to date in 2023, totalling 1,364 metres. A work break in March was extended pending the delivery of a new diamond drill that will

improve drilling capabilities and productivity. The new drill arrived in mid-April and drilling has recommenced as planned, starting with the Broccoli Hill and Boneyard targets.

Drilling at Wenot with the second rig is expected to com-

mence. This follows a detailed review of the Wenot open-pit-able resource model, including creation of lens-specific grade x width models which indicate potential for continued strong drill results which could lead to an expansion of the Wenot mineral resource. Approximately

3,600 m remains to be drilled in the current planned program. One rig will be dedicated to testing open-pit extensions to the Wenot Deposit, while the smaller rig will test exploration targets outside of the known deposits.

Elaine Ellingham, President

and CEO, said, "The Omai project has repeatedly exceeded our expectations, culminating in the significant NI43-101 Mineral Resource Estimate filed in December. Our current detailed modelling of the Wenot Deposit reinforces the excellent potential to add additional resources that could be pit accessible. With the new indicated resource of 1,907,600 ounces of gold at an average grade of 2.07 g/t and inferred of 1,777,600 ounces of gold at an average grade of 2.10 g/t, we believe Omai can advance quickly, particularly with the support that the Guyana government has shown for the Omai project.

We have commenced studies that will assist in understanding key aspects of re-developing this brownfields project and would support a future preliminary economic assessment. Historical production results, including metallurgy and mill recoveries, are expected to be reliable indicators for a future mining operation, given that the new resources are extensions of the previously mined deposits. Improvements in logistics, including planned power lines and the paving of the access road to within 10 km of site, will reduce the construction and operating costs of a future mine. With tangible results in hand, the Omai project is well positioned to advance, particularly in the current environment."

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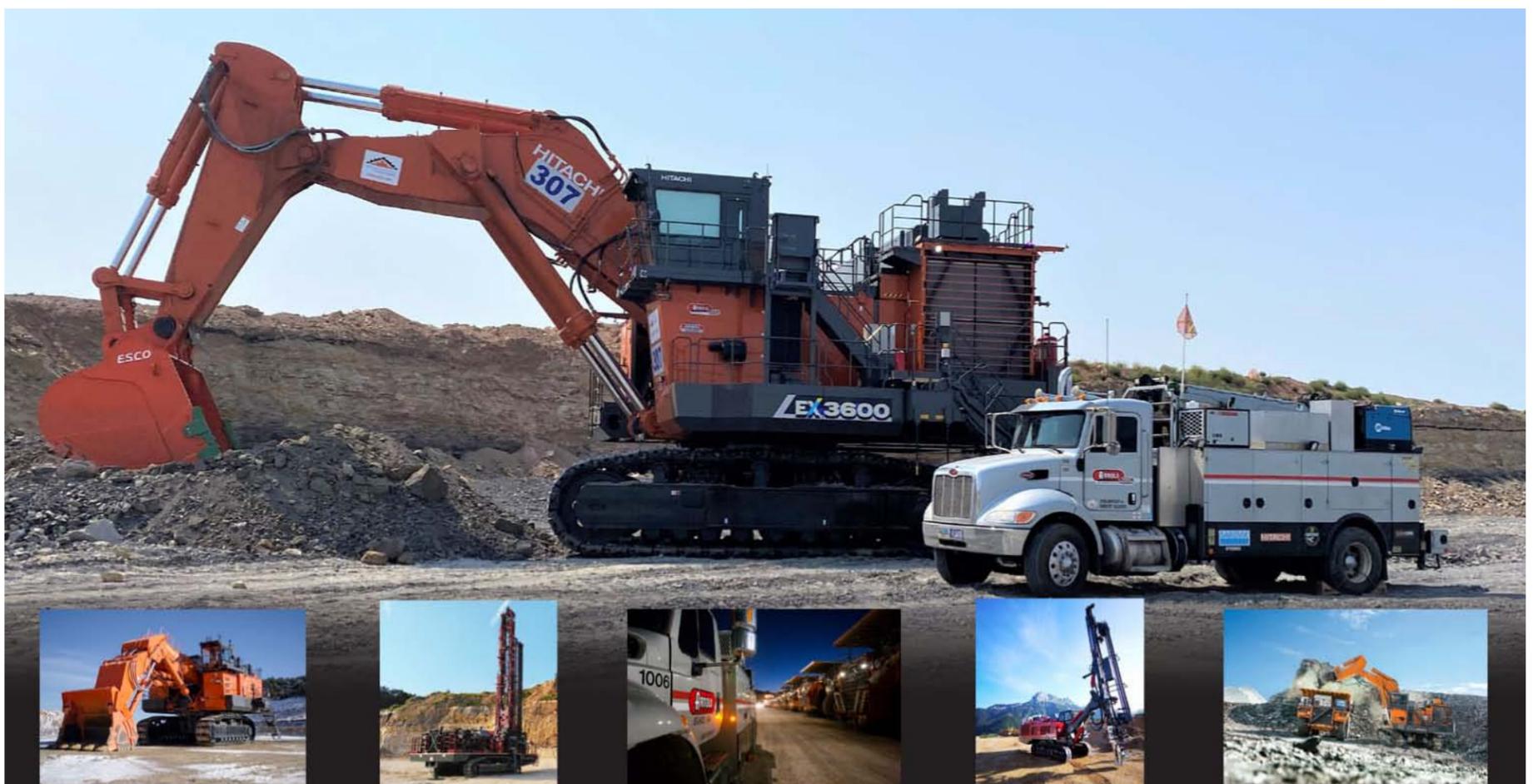
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ARIZONA

# Parks/Salyer Drilling Has Better Than Expected Thicknesses

CASA GRANDE, AZ - Arizona Sonoran Copper Company Inc. reported on 6 infill holes from the Parks/Salyer Pre-Feasibility Study (PFS) level drilling program. The infill to Indicated drilling program was completed on time and within the budget, with the remaining assays from 10 drill holes expected by the middle of May. This program will be used to generate an updated resource model and mine plan to support the declaration of first reserves in the pending PFS by Q1 2024. As announced March 6, 2023, the PFS is exploring an integrated operation for Parks/Salyer and Cactus targeting 50 ktpa production.

PFS-level drilling at Parks/Salyer included geotechnical (HQ), hydrological (HQ) and metallurgical (PQ) holes, in addition to the infill drilling (HQ). Having completed the programs, the three drill rigs are now focused on: 1) Feasibility Study to include Measured-level infill drilling; Additional geotechnical, metallurgical and hydrological holes at Cactus East and Cactus West; Exploration drilling to begin after completion of the Cactus West geotechnical drilling.

Doug Bowden, Arizona Sonoran VP Exploration commented, "As we complete drill programs to finalize an indicated resource estimate (PFS), support engineering and mine planning, we note the drilling is performing as planned, and in instances, with better than expected grade thicknesses. Parks/Salyer intercepts indicate a continuous deposit with typically 100-300 meter enrichment thicknesses that could potentially support a bulk mining scenario. Infill drilling has continued to expand the high-grade core at Parks/Salyer within the inferred resource area defined by the original 500 ft (152 m) drill pattern."

A total of three metallurgical holes (PQ - 3.345 inch diame-

ter) were completed to provide material for the column leach testing taking place onsite at the TruStone Facility. The columns are now 90 and 120 days complete, and preliminary results are expected shortly. Two metallurgical holes, along with one HQ (2.5 inch diameter) drill hole, were converted to hydrology monitoring holes. A total of five oriented core and geotechnical holes are being surveyed for fracture and directional analysis ahead of mine planning; via Acoustic Tele-viewer survey.

The infill to indicated drilling program was planned to infill to 250 ft (76 m) drill centers, extending through the leachable oxides and enriched mineralization, or secondary sulphides, for inclusion as our base case mine plan. To ensure a complete view of the deposit, for ASCU records and as it relates to the Nuton sulphide leaching technologies, ASCU also drilled through the primary sulphides to the basement fault at Parks/Salyer defining a deposit that extends 2,900 ft (884 m) by 2,200 ft (670 m), at the south-western end of the 4 km mine trend.

Infill drilling on the west side of the Parks/Salyer deposit continues to define the westward continuation of thick, higher-grade, enriched and primary mineralization (ECP-126 and ECP-131). Drill holes ECP-134, ECP-133 and ECP-127 demonstrate continuation of the enrichment blanket to the west, albeit with thinner, stacked layers of copper mineralization that have suffered leaching near the faults that define the edge of the orebody. Drill holes ECP-127, ECP-130 and ECP-133 show a similar definition of the enrichment blanket. A NS cross section through the area demonstrates the continuity of the enrichment zone on the western edge of Parks/Salyer and the effect of late oxidation on the enrichment blanket in the area of ECP-130.

The dacite dyke shown in the

cross section is similar in width and continuity to dacite dykes seen in Cactus West on the southern edge of that orebody. These dykes are very late stage relative to the mineralizing event and acted as dams to the enrichment process, with very good enrichment and oxide grades ponding above them, as shown in ECP-131.

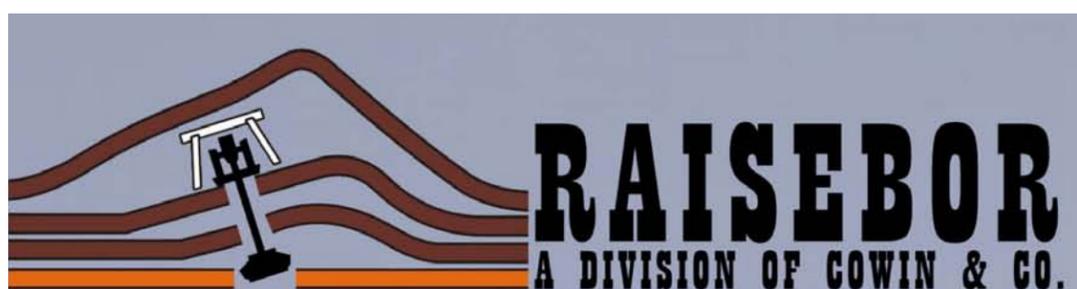
There are many occurrences of native copper around the

deposit. While native copper does not represent a significant contribution to the oxide resource, it does indicate directional flow of the secondary copper fluids, sometimes pointing toward ponded enrichment areas as shown in ECP-131. The team is currently mapping instances of both native copper and cuprite as they typically exist within close proximity of each other.

ASCU drilling has defined

the edge of a potassic zone associated with lower grades in the primary mineralization in the northwest quadrant of the orebody.

Higher primary grades are commonly associated with zones of phyllic alteration (commonly as an overprint), which at Parks/Salyer follows the general mine trend NE orientation. This phyllic zone represents the larger area of thicker, higher grades.



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## Implementation Of Bulk Emulsion And Ventilation For The Olympias Operation

VANCOUVER - Eldorado Gold Corporation President and Chief Executive Officer, said, "Operations across our global portfolio improved significantly compared to the first quarter of 2022, with gold production 21% higher than the same period last year. Across the portfolio, the operations performed largely in line with our expectations, and are on track to deliver 475,000 to 515,000 ounces of gold in 2023, aligned with our guidance. Consolidated gold production is weighted to the second half of 2023, with stronger production in the quarters ahead."



In April, we announced the closing of the Skouries project financing facility. This strategic facility funds 80% of the remaining capital required to complete construction of this transformational asset. Once in production, Skouries is expected to produce, on average 140,000 ounces of gold and 67 million pounds of copper annually, delivering a meaningful impact on Eldorado's consolidated production profile, and decreasing average AISC and operating costs on a per ounce basis. Skouries, once in production, alongside Eldorado's existing operating portfolio, is expected to generate strong cash flow, further strengthening our financial position, and will help establish an exciting future for our stakeholders, including contributing to the global supply of critical minerals.

As we look ahead to the balance of 2023, the installation of a fine ore agglomeration drum at Kisladag has commenced commissioning and will continue to ramp up to nameplate design in the second quarter, which is expected to improve recoveries and offer potential upside, increasing the production rate through better materials handling on the conveying system at the operation. In Greece, at Olympias, we look to continue the positive operating momentum of the first quarter into the rest of the year. Several key initiatives are underway including the implementation of bulk emulsion and ventilation on demand, designed to improve safety performance and efficiency, aligned with our 2023 guidance and continued transformation objectives. At both Lamaque and Efemcukuru, we are excited to continue our robust exploration programs aimed at increasing the reserve base, and ultimately extending life of mine."



# Ongoing Drilling Program At The Tombstone Project

VANCOUVER - Aztec Minerals Corp. reported on the first drill hole of its ongoing 2023 core drilling program at the Tombstone project in the historic Tombstone silver mining district in southeastern Arizona. Aztec holds a 75% interest in the Tombstone Property Joint Venture, which includes most of the original patented mining claims in the district as well as some recently acquired properties.



The first hole is part of a 10 hole program that is being drilled in a fan-grid pattern over the length of the Contention open pit. Bonanza grade silver was encountered in oxidized, altered silty limestones and Qfp dike at 126.5 m - 128 m with 3,477 gpt silver and 0.115 gpt gold (3485.1 gpt AgEq) over 1.52 m, within a zone of 7.65 m with 733.92 gpt silver and 0.524 gpt gold (770.6 gpt AgEq) from 125 - 132.6 m.

Hole TC23-01 also returned a broad intersection of 0.58 grams per tonne (gpt) gold and 72.19 gpt silver (1.63 gpt gold equivalent (AuEq) using an 80:1 silver:gold ratio) over 125.0 meters. Higher grade gold intervals were also intersected in the drill hole with 22.4 gpt gold and 48.7 gpt silver (23.01 gpt AuEq) in oxidized, altered Qfp dike over 1.52 m at 61m - 62.5 m.

Drill hole TC23-01 tested

mineralization to depth initially found in TR21-08 prior to its collapse in 2021. It was designed to go through the old mine workings and to reach, at a minimum, the water table just below the sixth level and the principal district host limestones at depth. The drilling has expanded the extent of mineralization to depth and demonstrates the potential for the volume of oxidized Au-Ag mineralization to grow as it remains open.

CEO Simon Dyakowski, said, "Initial results from our first core drilling program at the Tombstone Project have successfully intersected Bonanza silver grades, +100 oz silver, near the water table. This result represents the highest grade of silver encountered in Aztec's drilling at Tombstone to-date, and the broader zone of oxide gold-silver mineralization continues to expand the open-pit

heap leach potential of the project. We await the receipt of assays from additional drill holes as our 2023 core drilling program continues at the Contention pit target of the project."

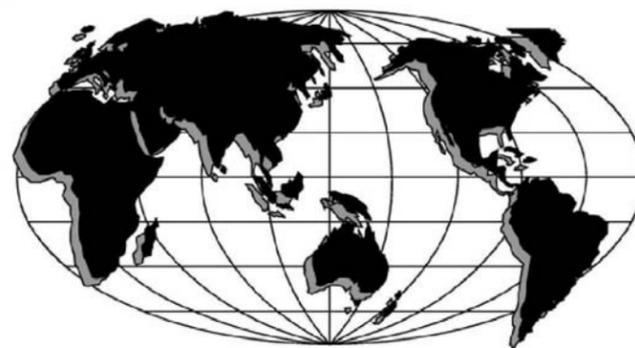
Drill hole TC23-01 intersected extensive gold and silver mineralization, extending the mineralized zone at depth west and below the Contention open pit. The drill hole also intersected old mine stope workings (15.9 m in total), likely dating back to the late 1800's and high-grade zones as well, indicating that the highest-grade bonanza mineralization in the area drilled was only partially mined out.

Aztec has now completed the first five holes of the planned ten drill hole program. The drill program has been decreased to total, at minimum, 1,000 meters of core drilling at the Tombstone Property. The company has reported assays for the first hole.

Samples and their collection are controlled by an industry standard conforming QAQC program including insertions of certified standards, blanks and sample

duplicates. The samples are being regularly shipped to and received by the Bureau Veritas Minerals laboratory in Hermosillo, Mexico for geochemical analysis.

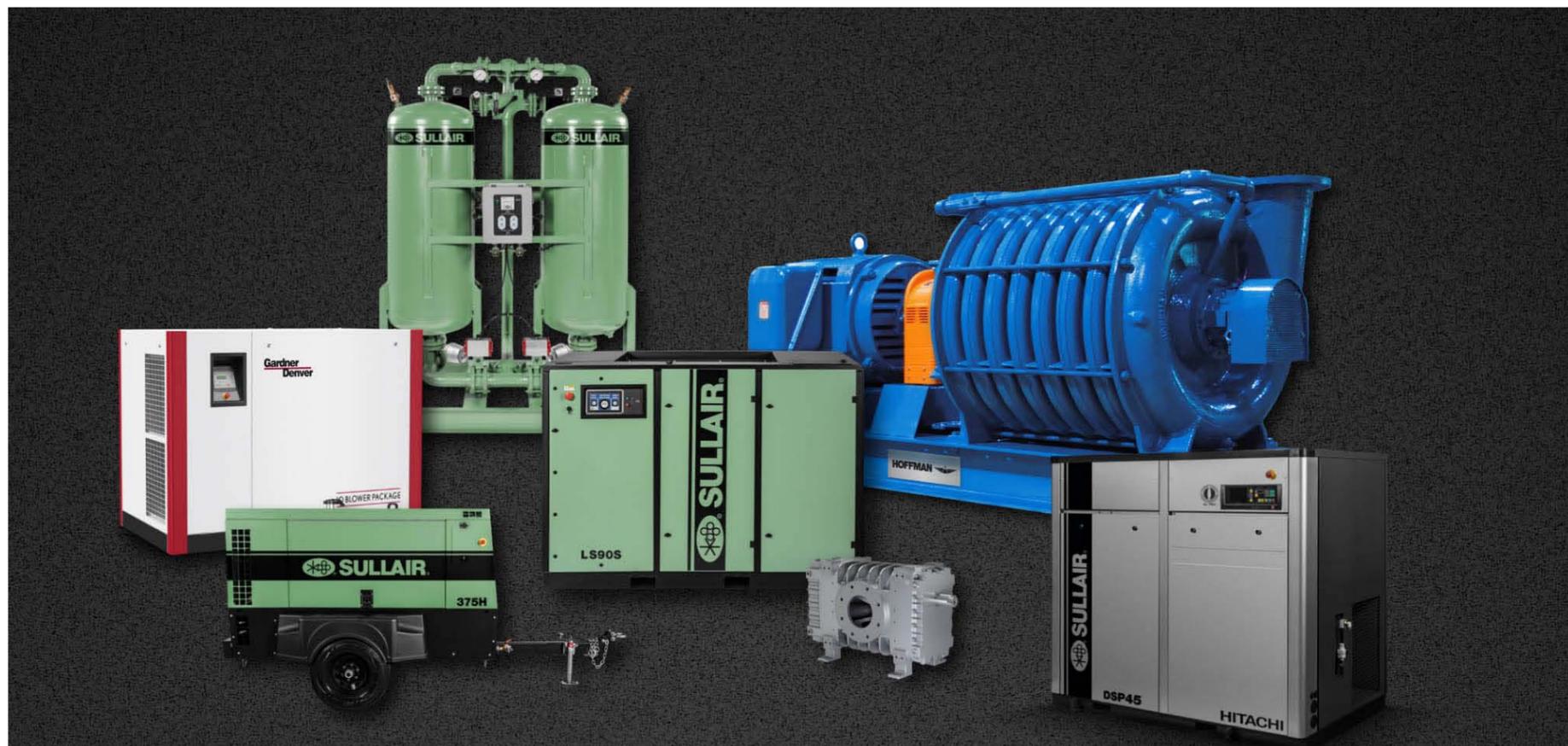
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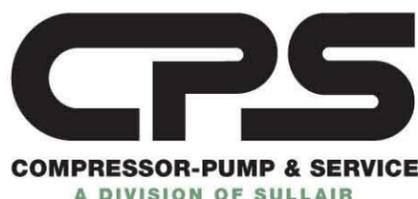
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# High-grade/Heap-Leach Intercepted At Nutmeg Mountain

VANCOUVER - NevGold Corp. announced high-grade, heap-leach gold results intercepted from surface at the Nutmeg Mountain gold project in Idaho. The Project hosts a 2020 mineral resource estimate of 910,000 Indicated ounces of gold (43.5 Mt @ 0.65 g/t Au), and 160,000 Inferred ounces of gold (9.1 Mt @ 0.56 g/t Au). The initial drill results highlight the potential grade upside and growth potential for the

resource which begins at surface and requires minimal stripping. The drill program is advancing on schedule and on budget, and drill results will be continuously released.

High-Grade, Heap-Leachable Gold Intercepted from Surface: the Company intercepted 0.72 g/t Au over 79.3 meters from 10.4 meters depth (heap-leachable), including 2.32 g/t Au over 13.4 meters from 25.6 meters depth (heap-leachable)

(Hole NMD0003), and 0.56 g/t Au over 23.9 meters from 24.1 meters depth, including 0.89 g/t Au over 11.4 meters from 25.6 meters depth with 4.33 g/t Au intercepted near the bottom of the hole (Hole NMD0001, hole was lost in mineralization). The mineralization starts at surface with minimal stripping required, and exhibits positive, heap-leach characteristics with both free gold and oxidized material.

High-Grade Potential at

Depth: Hole NMD0003 intercepted multiple, large, vein/breccia zones at 251 meters and 469 meters depth, with assays pending, in an entirely untested area of the Project. The average historical hole depth at the Project is only 75 meters, and the Company sees significant resource expansion potential at depth. Hole NMD0003 intercepted a material structure that will require follow up drilling as the quartz textures seen in the

core indicate a potential high-grade feeder structure is present at depth.

Open, Near-Surface Mineralization Along Strike: a large step-out 140 meters from the nearest drill collar intercepted significant anomalous mineralization starting at 4.6 meters depth and extending to 93.6 meters depth with grades up to 0.43 g/t Au. (Hole NMD0002) Mineralization is open in all directions and further drillholes are planned in this area to test additional targets identified by geochemical and geophysical data previously collected at the Project.

Current Drill Program Update: the drill program is tracking according to schedule and budget, and drill results will be continuously released.

CEO, Brandon Bonifacio, said, "The initial results from our inaugural drill program at Nutmeg Mountain highlight the exceptional at-surface, heap-leachable gold mineralization at the project. It is very exciting to see thick intercepts of gold starting at surface at a project that boasts a 2020 resource of 910,000 Indicated ounces of gold and 160,000 Inferred ounces of gold. We see significant upside potential from a size and grade standpoint with over 100 vertical meters of resource potential outside of the US\$1500/oz Au pit shell used in the 2020 resource. A lot of the material drilled at the project is higher grade with lower strip ratio than many open-pit, heap-leach gold projects that are either in operations or the development phase in the Western. We remain focused on daylighting the value of Nutmeg Mountain by drilling the project with the goal of advancing to a multi-million ounce heap-leach gold resource."

NevGold VP Exploration, Derick Unger, commented, "Our first drillholes at Nutmeg Mountain exceeded our expectations and demonstrate that the project hosts a strong, continuous gold system that starts essentially at surface. Additionally, this drilling has identified new potential feeder structures at depth that have high-grade potential. It is also noteworthy that this is the first drill program on the project to use oriented core, a technology that is essential to understanding the structures that control the gold mineralization. We are excited to leverage this new oriented core data and our understanding of the stratigraphy to continue to quickly add gold resource ounces. We have completed subsequent drilling and eagerly await further assays from the current drill program."

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## POLYMER TECHNOLOGY INCREASES MINES LIFE THROUGH BETTER TAILINGS MANAGEMENT

By David Anstey  
Senior Tailings Engineer  
WSP Mining

CANADA - Tailings often contain salts and metals that may be environmentally harmful if allowed to leach into the environment. The tailings slurry is disposed of in a tailings storage facility (TSF) where the solids are allowed to settle and separate from the supernatant water, sometimes over periods of decades. The performance and regulatory requirements for these TSFs are becoming increasingly stringent.

Problems can arise when a mine starts to run out of room in its TSF and there is still ore to be profitably extracted. While it is possible to expand the capacity or build a new TSF, these solutions demand considerable capital investment. There is an opportunity for innovative and environmentally protective low-capital solutions to get better use from exist-

ing TSF space. With both regulatory and community attention focused on the risk of TSFs, and competitive market forces on mineral extraction, mining companies around the world are searching for solutions to improve the cost/benefit ratio (i.e., lower capital cost/environmental protection) of their TSFs and extend the life of existing mining operations.

Over the past decade, WSP has been involved in research, testing and real-world application of polymer technology to extend the life of TSFs. Polymers are chemicals comprising complex molecules, used in a wide range of applications including water purification. When the right polymers are added to water, particles in suspension in the water are drawn by static electrical charges to the polymers to agglomerate and form larger particles, which grow in size to the point that they settle out of suspension. This leaves water that has a much lower level of suspended mate-

rial (i.e., slurry), typically the source of leachable by-products.

Applying polymer water purification technology to mine waste. So how does polymer-based water purification technology help a mining company store tailings more efficiently? In most mining operations, tailings are transported to the TSF as a slurry – in which the granular tailings material is pulled through a pipeline by the turbulence in the water. At the outfall spigot, this slurry pours out into the contained TSF so that the tailings form a “beach”. Over the mine’s life, the beach gradually fills up the TSF.

Problems can occur if the tailings are deposited as a shallow beach into the TSF, covering the available storage area without efficiently using the storage volume available in the facility. Expanding the area of the TSF is often impractical and costly and may also have negative environmental consequences from land clearing and potential groundwater contamination.

Because of this, the priority is on finding ways to most efficiently use the available space.

Adding a polymer solution to the slurry can help. If injected into the pipeline a short distance from the tailings discharge location, turbulence in the pipeline will mix the polymer into the slurry stream.

As the polymer-treated tailings are discharged from the pipeline, the large and small suspended particles in the tailings segregate quickly from the water, and the water drains away. This results in a steeper beach that allows tailings to be stored in increased thickness within the available storage area.

Another benefit of polymer technology is that the water that was in the slurry contains fewer solids, meaning that it requires less treatment when it is removed from the TSF and recycled for mining operations. This allows operation of a smaller pond on the TSF, reducing evaporation losses and

improving stability of the dams containing the tailings. It also helps to reduce the amount of fresh water that the mine consumes in its operations, which is particularly important in water-constrained regions.

Applying polymer technology to real-world mining situations. WSP experts from around the globe have been collaborating to understand how polymer technology can be applied to a range of minerals and environments. Every application is different – the type of polymer, amount to be used, and other aspects of the process are specific to each mine. This means that site-specific testing is required to determine if polymer technology can help improve tailings management. There is no one-size-fits-all solution here.

There is a growing understanding that, while polymer technology has its limitations, there are many situations where it can improve tailings deposition and water utilization with considerably less capital expenditure than required using conventional solutions, such as expanding the TSF.

When a mine has two- or three-years’ worth of recoverable ore left, it is not worthwhile to expand the existing TSF or build a new one. Instead, polymer technology may be enough to boost the storage efficiency of the current TSF so that the mine can continue to operate profitably until the ore body is exhausted, with no need for an expensive capital investment.

As cited in a paper prepared for the Australian Centre for Geomechanics, polymer technology has been helpful at a magnetite mine in South Australia. During the first five years of operation, water recovery was around 60% and the volume utilisation was in line with the deposition model. The high percentage of water recovered enabled the processing plant to reach its new design capability, reduce significant downtime due to water availability and provide the mining operations with sufficient water for dust suppression. The second five-year plan is currently being finalized and progress is consistent with the tailings deposition and the dewatering model.

WSP now includes polymer technology in its toolbox when assessing the range of solutions available to solve our clients’ tailings challenges. Laboratory testing for new projects considers polymer addition alongside more conventional technologies such as thickened tailings, paste and filtration. Multi-criteria analysis of the options, that considers the capital and operating costs and environmental outcomes, allows us to select the solution that provides the most favorable outcome.

Polymer technology is a fast-moving area of science. Many of the polymers that WSP has tested in its laboratories do not even have a commercial name yet. But with testing and experience, a knowledge base is growing to gain the maximum benefit from polymer technology in mining.

David Anstey is a Senior Tailings Engineer with over 18 years experience working in Australia and Canada as a geotechnical and mine waste engineer. His experience includes investigation, design, analysis, permitting, construction and operational review of tailings storage facilities and heap leach pads. He has worked on projects for conventional, paste thickened, filtered, co-mingled and in-line polymer treated tailings; across 16 commodities in more than 14 countries.

WSP has been involved in research, testing and real-world application of polymer technology to extend the life of tailings storage facilities. For more information visit: [www.wsp.com/mining](http://www.wsp.com/mining)



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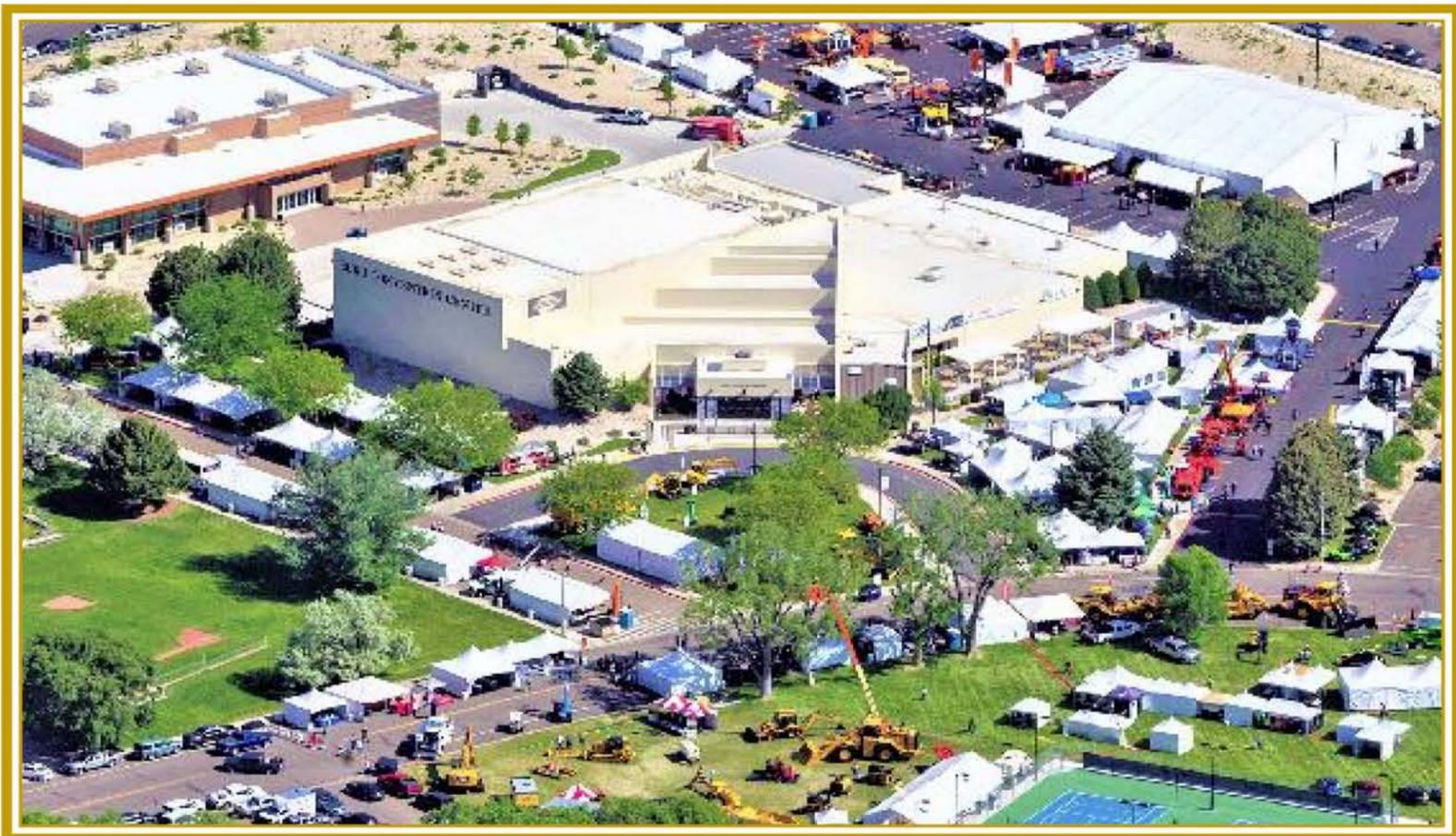
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# Gabriel Project Results Assay Up To 1410 ppm Lithium

VANCOUVER - Tearlach Resources Limited reported three (3) new core drill holes (GAB-004, 005, & 017) at its Gabriel Project in Tonopah, Nevada, bringing the total report in Phase 1 to eight (8) out of eleven (11) core holes. These new holes intersected lithium-mineralized zones with intervals exceeding 1,000 ppm and grades up to 1,410 ppm. The twinned drill holes showed grades up to 61% higher in mineralized zones than corresponding Blackrock Silver (BRS) intercepts (drilled 2022). These results represent a significant milestone for



ing Blackrock Silver drilling results, with these grades ranging from 45% to 61% higher than previous. Lithium mineralization has been encountered in all eight (8) holes reported to date, which have spanned a significant portion of the Gabriel property, drastically increasing the original discovered mineralized area. These results have not only enhanced our team's understanding but are in line with their evolving geological interpretations. We will now focus on understanding the minerals associated with the lithium mineralization and start driving towards metallurgical testing in the very near future. Tearlach is taking a fast-tracked approach by integrating the geology, engineering, and permitting teams early to identify key permit timelines and important decision criteria ahead to accelerate the project ahead of an initial resource estimate." said CEO, Morgan Lekstrom.

Tearlach and the development of the USA Flagship Gabriel project.

All three (3) newly reported drill holes encountered intervals over 1,000 ppm lithium. The longest intercept of lithium mineralization for the three (3) newly reported holes is 94.2 feet: Hole - 005.

The highest primary intercept grade is 703 ppm Li over 27.1 feet: Hole - 004. Highest

grade for an "Included intercept" is 860 ppm lithium over 17.6 feet, including 1,390 ppm: Hole - 005. Each hole returned assay values (total of 5 intervals) 1,000 ppm Li, with the highest value being 1,410 ppm. This extends Tearlach drilled mineralization to the south.

Lithium mineralization, at a 400 ppm cut-off grade, has been intersected in each of the eight (8)

holes for which analytical results have been reported. Geological continuity of targeted stratigraphy in all drill holes. Reported drill core holes are within a general area of 2 kilometers x 2.75 kilometers.

"The continued results are beyond encouraging, and the recent drilling of the three (3) Tearlach twin core holes continue to yield remarkable grade increases over the correspond-

## Acquisition Of Inlier Claims At The San Domingo Claim Block

BRITISH VIRGIN ISLANDS - Bradda Head Lithium Ltd.(BHL) has acquired three inlier lode claims in the middle of its Central San Domingo claim block, in Arizona. Following the promising results released so far from its first drill programme, which finished in March, BHL has acquired the three inlier claims (c.60 acres) in the middle of its San Domingo pegmatite district. There are no royalties associated with the lode claims. The lode claims owners granted written permission for BHL to drill on their claims prior to acquisition upon which the final hole, SD-DH23-046, was drilled into a pegmatite (Lower Jumbo Target) and encountered abundant visible spodumene, assays pending. The Lower Jumbo mine (which is located on the border of one of the inlier lode claims) has a 1.5m long spodumene cast in outcrop and historic mining that reportedly produced c.155 tonnes at a grade of 5.3% Li<sub>2</sub>O in the 1950's.

The acquisition of these claims ensures BHL can fully explore all the surrounding area at its Central claim block, where five historic lithium mines are located. The work done to date by Bradda geologists has given the Company confidence in acquiring these claims, and will form a key part of the Phase 3 drill programme due to start later this year. Recently published results from the Central claim blocks, where BHL has had very promising results. Large spodumene crystals with scattered lepidolite are observed in all 6 holes drilled on the Jumbo target, with assays pending for the last hole (SD-DH23-038a). Results from the adjacent Jumbo Target include 9.54m @ 1.85% Li<sub>2</sub>O in SD-DH23-037 and 4.02m @ 1.27% Li<sub>2</sub>O in SD-DH23-035, both at shallow depths. The assays received so far not only demonstrate that we have significant intersections of pegmatites with visible lithium minerals (spodumene and some lepidolite) in the Northern Claim blocks, but also that BHL has identified intersections of up to 20.0m (Lower Jumbo and Jumbo) of potential lithium bearing intersections at the Central Claim blocks, indicating the presence of a potential 9km mineralised trend.

The acquisition of the inlier claims allows Bradda to fully explore the whole 9km trend without encumbrance. Work is ongoing to maximise the potential of the inlier claims in Phase 3 of drilling at San Domingo.

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## RECAP - FIRST MODERN DAY MINE IN OREGON

# Grassy Mountain Gold Mine Approved By All State Agencies

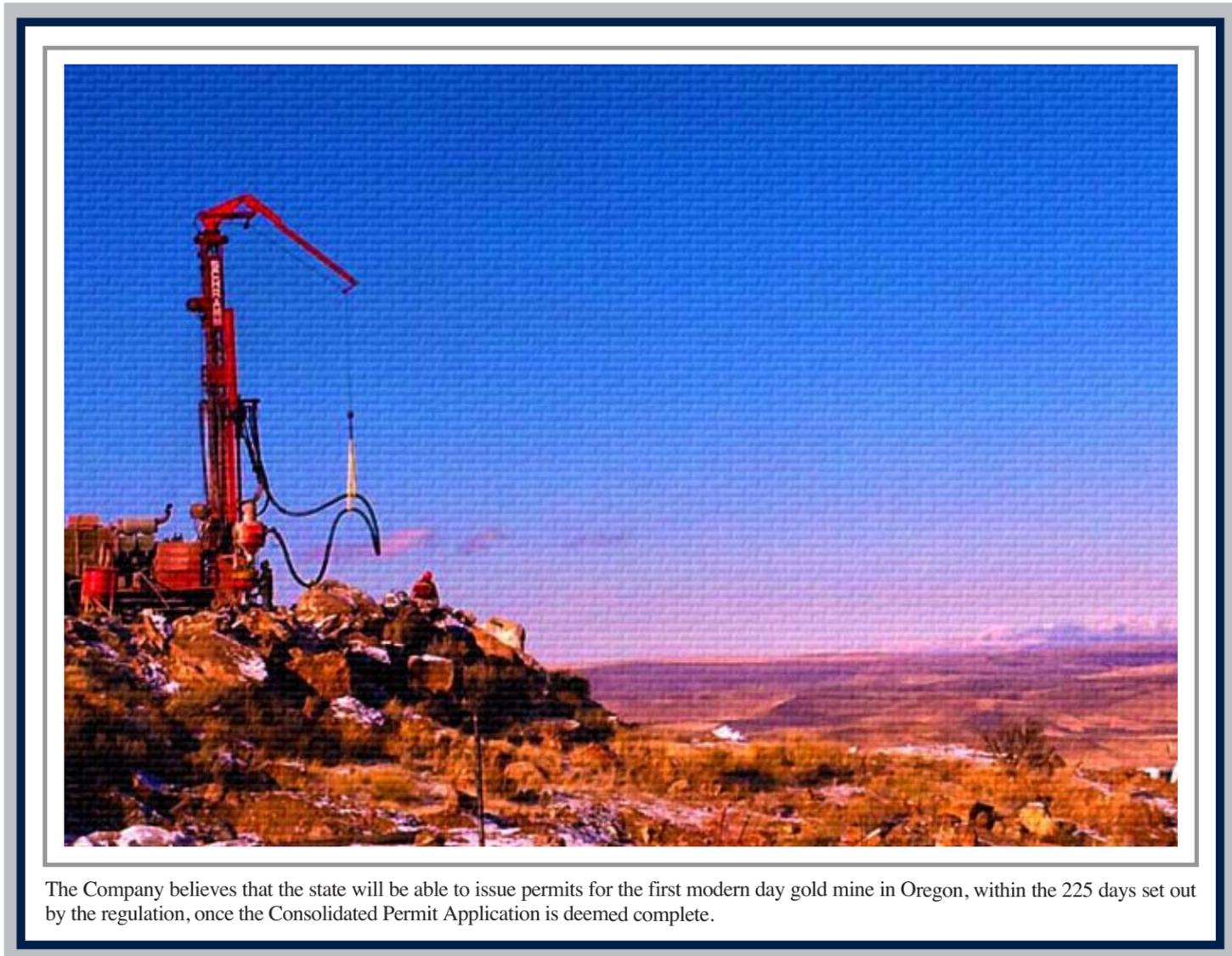
WINNEMUCCA, NV - Paramount Gold Nevada Corp. announced that the Environmental Evaluation (EE) outline of the proposed Grassy Mountain Gold Mine has been approved by all Oregon State agencies involved in the permitting process as sufficient for the preparation of permits.

President and COO, Glen van Treek, said, "The Environmental Evaluation is a critical component in the permit writing process. Knowing the scope of the data in this evaluation is sufficient for the regulators to proceed with the preparation of permits in our view confirms their commitment to progressing Grassy Mountain towards final permitting."

The EE outline was prepared by Stantec, an international consulting firm with significant experience in mining and processes. Stantec was contracted by the DOGAMI to conduct the EE and to coordinate environmental assessment efforts with the BLM and their EIS contractor, HDR Inc., to complete the Federal Environmental Impact Statement.

All state agencies and supporting agencies participating in the permitting of Grassy Mountain attended a recently held public meeting, hosted by the Technical Review Team (TRT), where all agencies present agreed upon the EE outline. The agencies involved included the Oregon Department of Mineral Industries (DOGAMI), the Department of Environmental Quality (DEQ), Oregon Department of Fish and Wildlife (ODFW), Oregon Water Resource Department (OWRD), and the State Historical Preservation Office (SHPO). The supporting agencies included the Oregon Department of Justice (DOJ), the Bureau of Land Management (BLM), US Fish and Wild Life Service (USFWS).

"The Environmental Evaluation outline incorporates an analysis of the proposed operation, evaluates potential environmental



The Company believes that the state will be able to issue permits for the first modern day gold mine in Oregon, within the 225 days set out by the regulation, once the Consolidated Permit Application is deemed complete.

impacts and among other requirements, assesses that the proposed plan is the best feasible development option.

Given recent and continued progress, the Company believes that the state will be able to issue permits for the first modern day gold mine in Oregon, within the 225 days set out by the regulation, once the Consolidated Permit Application is deemed complete," said, van Treek.

Paramount Gold Nevada Corp. is a U.S. based precious metals exploration and development company. Paramount's strategy is to create shareholder value

through exploring and developing its mineral properties and to realize this value for its shareholders in three ways: by selling its assets to established producers; entering joint ventures with producers for construction and operation; or constructing and operating mines for its own account.

The Grassy Mountain Gold Project consists of approximately 8,200 acres located on private and BLM land in Malheur County, Oregon.

The Grassy Mountain Gold Project contains a gold-silver deposit (100% located on private land) for which results of a posi-

tive Feasibility Study have been released and key permitting milestones accomplished.

Frost is comprised of 84 unpatented lode claims covering approximately 1,730 acres located 12 miles southwest of the Company's proposed high-grade, underground Grassy Mountain gold mine in Malheur County, Oregon. An initial drill program is ongoing.

The project site is situated in the rolling hills of the high desert region of the far western Snake River Plain. The local terrain is gentle to moderate, with elevations ranging from 3,300 to 4,300

ft. above mean sea level.

Since the acquisition of Calico Resources in 2016, the goal of the Paramount team was to advance the high grade, Grassy Mountain project towards production becoming Oregon's first modern-day gold mine.

Paramount has improved the size and confidence level of the projects mineral resources, metallurgical recoveries and project economics.

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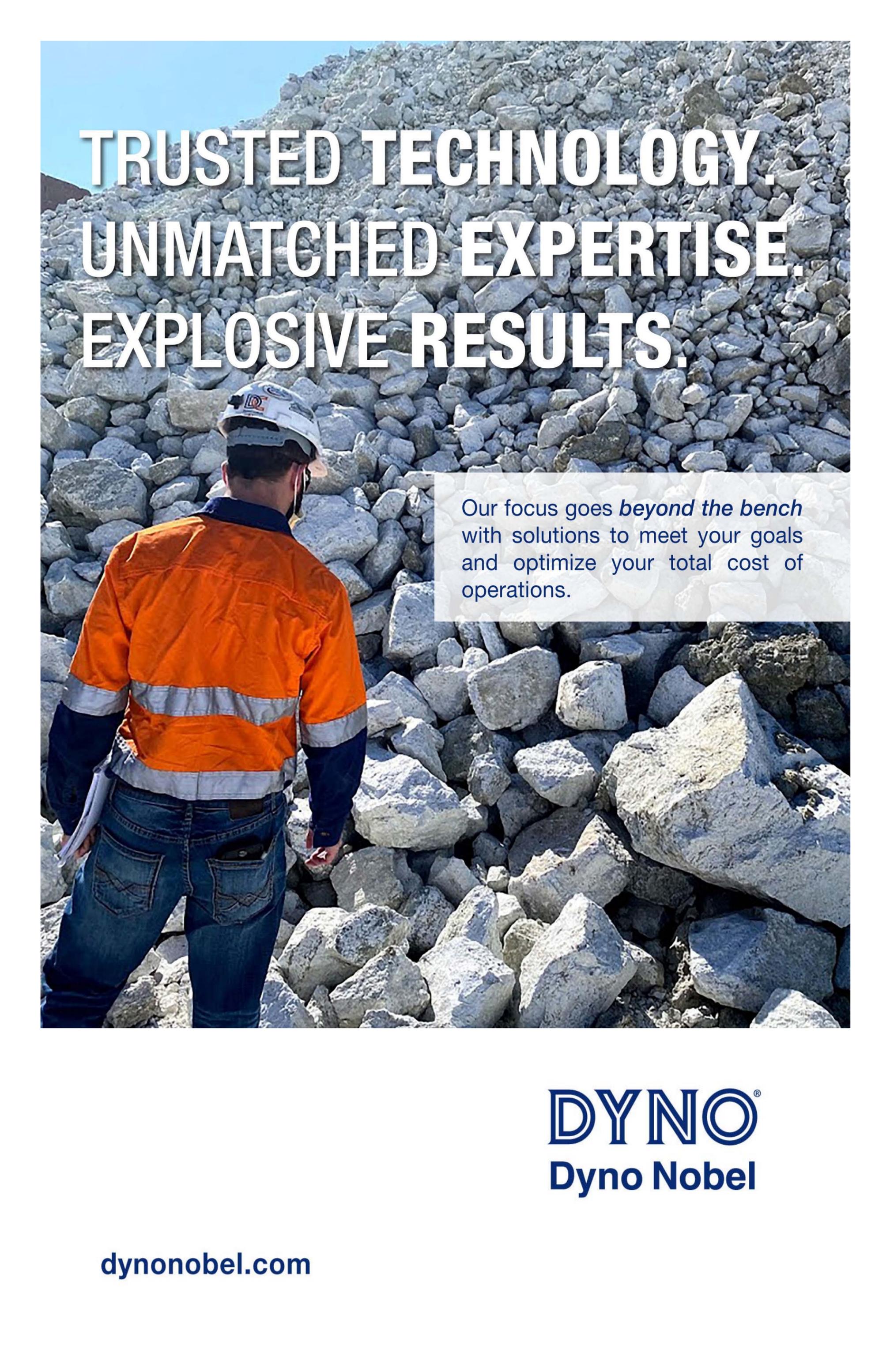
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