

Don E. Howell, Chairman and Chief Executive Officer

We Honor the Love, Dedication, and Leadership of a "Larger Than Life" husband, father, grandfather, and friend.

THE INDUSTRY'S LEADING NEWSPAPER SINCE 1889

THE VOICE OF THE MINING INDUSTRY

THE MINING RECORD™

Published by: The Mining Record Company
Volume 133, Number 4

THIRTEEN DECADES OF CONTINUOUS INDUSTRY COVERAGE
www.miningrecord.com

April 2022



Denver, Colorado, USA

Metals Watch (03/17/2022): Gold \$1,941.80 • Silver \$25.38 • Copper \$4.59 • Lead \$1.01 • Zinc \$1.73 • Platinum \$1,025.00 • Palladium \$2,491.00 • Uranium \$55.00 • Rhodium \$17,850.00 • Coal: \$316.00/t

NEWMONT CORPORATION

Gold Mineral Reserves Of 93 Million Attributable Ounces

DENVER, CO - Newmont Corporation reported gold Mineral Reserves of 92.8 million attributable ounces for 2021 compared to 94.2 million ounces at the end of 2020. Newmont has significant upside to other metals, including more than 15 billion pounds of copper reserves and nearly 600 million ounces of silver reserves. In addition, reserves and resources were further strengthened with the purchase of Buenaventura's 43.65% interest in Minera Yanacocha in February 2022, adding 2.7 million ounces of gold reserves, 11.0 million gold resources, 700 million pounds of copper reserves and 2.6 billion copper resources.

"Newmont's world-class portfolio of operations and projects is underpinned by a robust foundation of reserves and resources, along with the most extensive exploration program in the industry," said Tom Palmer, President and CEO. "In 2021, more than 80 percent of depletion was replaced as we continue to progress our most profitable greenfield and near-mine projects. Exploration continues to be a core competency at Newmont with a focus on extending mine life, developing districts, and discovering new opportunities in the most favorable jurisdictions."

Net unfavorable revisions include 0.9 million ounces at Cerro Negro due to reserve downgrades related to drill spacing studies and updated technical assumptions. In addition gold

Mineral Reserves reported negative revisions of 0.4 million ounces at Tanami, 0.2 million ounces at Boddington, 0.2 million ounces at Porcupine underground and 0.2 million ounces at Pueblo Viejo. Negative revisions were partially offset by favorable revisions of 0.6 million attributable ounces at NGM and 0.4 million ounces at Eléonore, in addition to acquisitions of 0.1 million attributable ounces related to South Arturo at NGM.

Newmont's 38.5 percent interest in NGM represented 19.3 million attributable ounces of gold reserves at year end, as compared to 17.4 million ounces at the end of 2020. Pueblo Viejo represented 3.6 million attributable ounces of gold reserves at year end as compared to 4.1 million ounces at the end of 2020, representing Newmont's 40 percent interest.

Gold reserve grade improved three percent to 1.06 grams per tonne compared to 1.03 grams per tonne in the prior year largely due to higher-grade reserves from the Company's 38.5 percent equity ownership in Nevada Gold Mines and positive results from our underground managed operations, including Eléonore, Tanami and Porcupine.

In 2021, Newmont reported Measured and Indicated gold Mineral Resources of 68.3 million ounces as compared to 69.6 million ounces in the prior year. Inferred gold Mineral Resources totaled 33.2 million ounces as compared to 31.6 million ounces

in 2020. In total, resource conversions to reserves were more than offset by additions and net positive revisions.

Measured and Indicated Gold Mineral Resources added through exploration programs were 1.6 million ounces and included notable additions before revisions of 0.3 million ounces at Tanami and 0.2 million ounces at Ahafo South underground.

Measured and Indicated gold Mineral Resources reported net

revisions of 3.0 million ounces mainly driven by positive revisions of 1.3 million ounces at Boddington and 0.6 million ounces at Tanami. Additionally NGM added 2.1 million attributable ounces. Positive revisions were partially offset by negative revisions, including 1.1 million ounces at CC&V and 0.5 million ounces at Peñasquito.

Inferred Gold Mineral Resources added through exploration programs were 3.3 million ounces and included notable additions before revisions of 0.4 million ounces at Ahafo South, 0.4 million ounces at Eléonore, 0.4 million ounces at Cerro Negro and 0.4 million ounces at Tanami. Additionally, NGM added 0.8 million attributable ounces.

Inferred Gold Mineral Resources reported net revisions of 0.6 million ounces mainly driven by positive revisions of 0.6 million ounces at Cerro Negro and 0.3 million ounces at Ahafo South underground. Additionally, NGM added 1.1 million attributable ounces. Positive revisions were partially offset by negative revisions of 0.7 million ounces at Peñasquito and 0.5 million ounces at Tanami.

Newmont's Measured and Indicated gold Mineral Resource grade increased slightly to 0.66 grams per tonne compared to 0.65 grams per tonne in the prior year. Inferred gold Mineral Resource grade of 0.69 grams per tonne

increased compared with 0.65 grams per tonne from 2020.

In 2021, copper reserves decreased slightly to 15,090 million pounds from 15,220 pounds in the prior year primarily due to mining depletion. Copper resources increased to 17,820 million pounds of Measured & Indicated and 8,640 million pounds of Inferred from 17,620 million pounds of Measured and Indicated and 8,620 million pounds of Inferred due to the addition of a layback at Boddington. 2021 copper figures exclude 700 million pounds of reserves and 2,645 million pounds of resources acquired through the purchase of Buenaventura's 43.65% interest in Minera Yanacocha in February 2022.

Silver reserves decreased from 613 million ounces to 568 million ounces in the prior year, largely due to depletion at Peñasquito. Silver resources also decreased to 422 million ounces of Measured & Indicated and 163 million ounces of Inferred from 482 million ounces of Measured and Indicated and 204 million ounces of Inferred due to design updates at Peñasquito. 2021 silver figures exclude 49 million pounds of resources acquired through the purchase of Buenaventura's 43.65% interest in Minera Yanacocha in February 2022.

Lead reserves decreased to 2,580 million pounds from 2,940

Continued On Page 10



DATED MATERIAL — RUSH

News

Maiden drilling program at Gemini Lithium Project.....	2
Drilling plans for the South Jumbo Resource Area.....	2
High-grade assays from prospects on Kinkaid Project.....	3
Mineralization expansion beyond open pit margin at the Diablillos property.....	4
Evaluation of Eldorado Property full historical data.....	4
Upcoming campaign at the Engels deposit in California.....	7
Production expected to increase for Kinross operations.....	8
Independence project ongoing exploration.....	9
Positive metallurgical results from Rattlesnake Hills.....	10
High grade gold opportunities outlined at Kilgore in Idaho.....	11
CSAMT survey identifies gold-silver zone projects.....	13



www.cowin-co.com

**Tunnels • Shafts • Declines
Crusher & Belt Installation • Rock Fall Protection
Roof Stabilization • Raisebored Shafts**

Phone 205-945-1300 Fax 205-945-1441



**Sustainable Designs
Innovative Thinking
Responsible Mining**

At WSP Golder, being curious about the future inspires us to innovate and deliver impactful and sustainable designs today.

Be part of our team doing purposeful work, helping our communities thrive today, while shaping them for tomorrow.

WSP GOLDR

Maiden Drilling Program At Gemini Lithium Project

VANCOUVER - Nevada Sunrise Gold Corp. reported that the inaugural drilling program has commenced at the Gemini Lithium Project, located in the Lida Valley basin in Esmeralda County, Nevada. Nevada Sunrise plans up to 3,500 feet (1,067 metres) of reverse circulation drilling on untested geophysical anomalies identified by ground gravity and electromagnetic surveys. The first hole of the 2020 program is GEM22-01, which is targeting the largest conductive anomaly. The exploration objectives for the Gemini West target are twofold: testing the conductive zones for lithium brines at depth and analyzing for lithium-in-sediments, which has never been tested in the western Lida Valley. Drilling is anticipated to continue until the end of March 2022.

Gemini consists of 119 unpatented placer claims totaling 2,380 acres (963 hectares) located in the western Lida Valley,

Esmeralda County, approximately 6 miles (10 kilometres) east of the town of Lida, Nevada. Nevada Sunrise expanded the size of the Project by staking 80 new unpatented claims in March 2022. Gemini is situated adjacent to the Gold Point Solar Energy Zone, a Bureau of Land Management land reserve set aside for solar and wind power generation projects until 2033. Drill pads and access roads are in place at Gemini with an active drilling permit.

The Lida Valley is a flat, arid basin with a similar geological setting to the better-known Clayton Valley basin.

Exploration at Gemini is complemented by the Company's 80.09 acre/feet/year water right, a pre-requisite for the exploration and development of lithium brine projects in Nevada. Under the laws of Nevada, water cannot be pumped from a subterranean source without a valid water permit.

UTAH

2022 Drilling Plans For The South Jumbo Resource Area

VANCOUVER - Gold Springs Resource Corp. announced 2022 drilling plans for the "South Jumbo" resource located on the Utah portion of the large 8000 ha Gold Springs Project located in the western Great Basin, U.S. Antonio Canton, President, and CEO, said, "After updating the model of the South Jumbo resource with the 2021 drill results, our team has identified new areas for our 2022 drilling program. We are excited to drill this month at "South Jumbo", on the southern end of the 8 kilometer long Jumbo Trend, as it is an important target for our Company's 2022 objective to expand our gold resource to a level where we think our company will be attractive to major gold mining companies."

The 2021 drilling was able to demonstrate the extension of gold mineralization to the south, at depth, and within the gap zone between the two resource pods. The system remains open to the south, where it extends into a large area of post-mineral cover. The southernmost hole E-21-009 intercepted 0.57 g/t Au and 8.0 g/t Ag over 13.7 meters. Due to poor drilling conditions, many of the holes designed to extend the system to depth were lost before they

reached the target. Nevertheless, the hole E-21-012 did enter the target but was lost in a zone that ran 5.2 g/t Au and 12.4 g/t Ag over 19.8 meters at the bottom of the hole.

GRC was successful in demonstrating the presence of good gold values within the gap zone of the two lobes of the South Jumbo resource. This area was not drilled in the past as it awaited cultural clearance which was obtained in 2020. Hole E-21-004 targeted this gap area returning 1.58 g/t Au and 8.3 g/t Ag over 7.6 meters and @ 0.97 g/t Au and 2.6 g/t Ag over 13.6 meters. Additional holes will be drilled in 2022 to finish connecting the two lobes of the South Jumbo resource, which could have a significant impact on the resource update.

A total of 12-15 holes are planned for a first phase of the resource expansion effort at South Jumbo. Once these holes are completed and assays are received, a second phase of drilling will be designed to further expand the resource. During the first two months of the drilling season, GRC will be focused on "South Jumbo" and the new discovery at "Charlie Ross", where an additional 15-20 holes are planned for phase one of that program.

Editor: Don Harrison, editor@miningrecord.com
Accounting HQ: accounting@miningrecord.com
General Manager HQ: customerservice@miningrecord.com
Subscriptions/Orders: subscriptions@miningrecord.com
Advertising: advertising@miningrecord.com

Advertising: Display and Classified Media Kit Available upon request. Email: advertising@miningrecord.com

Subscription Rate

For U.S.: \$55 per year; Canada & Mexico: \$82 per year
Foreign: \$99 per year
Email: subscriptions@miningrecord.com
Published monthly - \$8.00 per copy

Regional Office: Highline Professional Center - Kellogg Building
26 W. Dry Creek Cir., Littleton, CO 80120 USA
Associate Offices: Highlands Ranch, CO USA, Gunnison, CO USA
Vancouver, BC Canada, SA-MEX-ARG

Distribution Mail House: Commerce City, CO USA
Publication Printing Facility: Tucson, AZ USA

THE MINING RECORD

INDUSTRY NEWS™

Volume 133, Number 4

HEADQUARTERS:

24 KARAT RANCH
Sedalia, Colorado 80135 USA

Mailing Address:
Post Office Box 1630
Castle Rock, Colorado 80104 USA

Toll Free: 1-800-441-4748 USA/Canada

Tel: (303) 663-7820 • Fax: (303) 663-7823

www.miningrecord.com • Email: questions@miningrecord.com
Electronic Editorial Submissions: Email: editor@miningrecord.com

Published by: The Mining Record Company - HIE, LLC
©Copyright 2022, All Rights Reserved

Business Hours: Monday - Friday 8:00 a.m. - 5:00 p.m.

Products and/or Services advertised in The Mining Record are not endorsed by The Mining Record.

The publisher reserves the right to refuse advertising that is competitive with his publications or which, in the publisher's opinion, does not meet with the format of mining publications.

Postage: Periodicals Postage Paid in Denver, Colorado and additional mailing offices.



The articles published in The Mining Record are obtained from sources considered reliable, but are not to be construed as a solicitation for investment purposes or to buy or sell stock.



The Mining Record is published monthly by Howell International Enterprises, LLC, with Main Office located in Sedalia, Colorado 80135.



Postmaster: Send address changes to The Mining Record, P.O. Box 1630, Castle Rock, CO 80104 USA.

USPS 593360
ISSN No. 012022-5761



While our company does have registered accounts, our users security is top priority. Our Facebook, Twitter, and Associated Instant Apps pages are designed with no interaction allowed at this point. Consumer Protection Agency reported that scams on social media skyrocketed by 150 percent across Facebook, Twitter and Associated Instant Apps. And the number is likely to continue climbing as more cyber crooks see social media as a fruitful target. Our users and clients security will not be compromised with these media outlets at this time. Our web security service for www.miningrecord.com site provides our users information for the industry with peace of mind. The company's website www.miningrecord.com is universal with complete availability through desktop, laptop and all mobile devices. It will remain our focal form for online media access to our users and clients.



High-Grade Assays From Prospects On Kinkaid Project

TORONTO - Romios Gold Resources Inc. reported on high-grade gold-copper-silver assay results from chip and grab samples collected in the fall of 2021 at the numerous historic gold-silver-copper prospects on the Kinkaid project in Nevada. The Kinkaid claims cover 911.2 Hectares (2,252 acres) in Mineral County, 18 km east of the town of Hawthorne, and are largely accessible by road.

An unusual copper-barite vein from a small-scale historic mining operation on the southern claims assayed 212 g/t Silver (6.8 oz/t Ag), 2.3% Copper and 1 g/t Gold with elevated bismuth, antimony and mercury values.

This poorly documented prospect vein is within a 300 m long discoloured area on satellite imagery and is now thought to be part of an epithermal vein system. Chip and grab samples from two old trenches <1 km from the aforementioned copper-barite vein returned assays of 13.5 g/t Gold and 4.34% Copper from one trench and 5.8 to 36.3 g/t Gold and 1.55% to 4.8% Copper from another.

Mineralized veins adjacent to garnet skarn workings ("P.M. Prospect") on the northern claims also returned excellent results: 1,725 g/t Silver (55 oz/t Ag), 6.9% Zinc, 0.4% Copper, 1% Lead, plus high antimony, arsenic and mercury. Results from a range of vein material types taken from old mine

dumps scattered along a ~300 m length of the historic Montreal Gold-Silver Mine workings indicate that significant gold values are most closely associated with copper mineralization in this vein system.

Assays up to 24 g/t Gold, 3.1% Copper and 8 g/t Silver were

returned from this site. Romios plans to undertake a program of detailed geological mapping and sampling across the Kinkaid property in 2022 with emphasis on the numerous mineralized showings. Ground magnetic surveys are expected to be particularly useful in tracing the skarn horizon targets

under cover. Diamond drilling of several showings is anticipated.

"Romios' first-pass sampling program at Kinkaid has returned some very high-grade gold, silver and copper results and we are excited and encouraged to see what we will find there next," said, John Biczok, VP of Exploration.

Safety • Quality • Experience • People • Integrity • Competitive



**Turnkey Industrial Construction – Storage & Process Tank Erection & Repair
Instrumentation & Electrical – Ducting – Lining – Structural, Mechanical Piping
Bins – Crushers – Conveyors & Material Handling Equipment**

801-543-2100

Please send RFP/RFQs to: Sales@MyGBI.com



MyGBI.com

NAYLOR PIPE

*...Serving
The Mining
Industry
For Over
95 Years*

Need pipe for water, high and low-pressure air, ventilation, tailings or slurry lines, sand and gravel or other product lines? Naylor has the right pipe for your application.

Available in carbon steel and alloys from 4" to 96" and wall thicknesses from 14 gauge to 1/2". Naylor offers the necessary fittings, couplings, fabrications, coatings and linings to provide you with your complete pipe system.

For more information, call or E-mail us for our catalog.



The Industry Leader Since 1925

NAYLOR PIPE COMPANY
1230 East 92nd Street
Chicago, IL 60619
773.721.9400 • Fax: 773.721.9494
E-mail: sales@naylorpipe.com
www.naylorpipe.com



Mineralization Expansion Beyond Open Pit Margin At Diablillos

TORONTO - AbraSilver Resource Corp. reported the latest diamond drill hole assays from the ongoing Phase II drill program on the Diablillos property in Salta Province, Argentina. The latest step-out drill holes continue to confirm the existence of broad

intervals of silver and gold mineralization in both directions along strike beyond the current conceptual Preliminary Economic Assessment (PEA) open pit margin.

John Miniotis, President and CEO, said, "Today's drill results highlight the significant opportunity for AbraSilver to increase Mineral Resources beyond the levels included in the estimate announced in September 2021."

The ongoing Phase II drill program results continue to confirm that the high-grade oxide mineralization extends along strike beyond the conceptual PEA open pit boundary, both towards the southwest and northeast. Additionally, we also continue to extend the mineralization at depth where we are now planning a systematic drilling program to test the extent of the deeper sulphide mineralisation later on this year."

Hole DDH 21-067 was drilled to test the north-eastern extension of the Main Breccia, while hole DDH 21-068 was drilled to test the south-western extension of the Main Breccia. Both holes were drilled on the margin of the conceptual PEA open pit to test the expansion potential of the pit to incorporate more mineral resources. Hole DDH 21-067 intersected several high-grade mineralised zones, including 56.0 meters at 83.5 g/t silver from 137 to 193 meters, and 66.0 meters at 1.90 g/t gold and 57.0 g/t silver from 242 to 308 meters, including 9.0 meters at 4.02 g/t silver and 94.2 g/t silver.

Hole DDH 21-068 intersected 57.0 meters at 1.47 g/t gold and 108.0 g/t silver from 89 to 146 meters, including 17.0 meters at 4.65 g/t gold and 105.6 g/t silver. These two holes show high-grade mineralisation at the margins of the conceptual open pit and demonstrate the potential for expansions of the pit both

towards the southwest and northeast.

The 80 km² Diablillos property is located in the Argentine Puna region - the southern extension of the Altiplano of southern Peru, Bolivia, and northern Chile - and was acquired from SSR Mining Inc. by the Company in 2016. There are several known

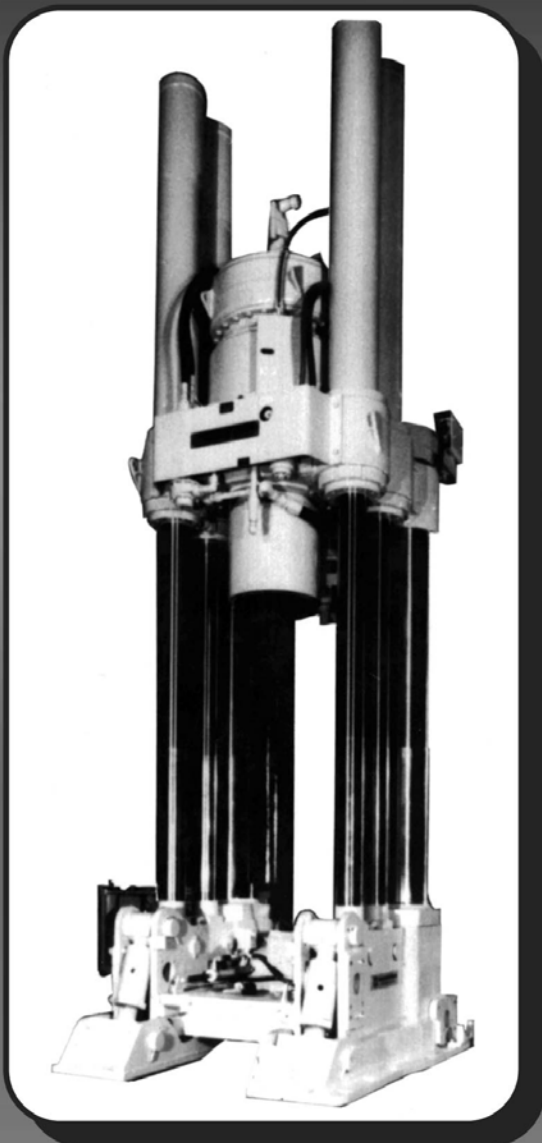
mineral zones on the Diablillos property, with the Oculito zone being the most advanced with over 90,000 meters drilled to date. Oculito is a high-sulphidation epithermal silver-gold deposit derived from remnant hot springs activity following Tertiary-age local magmatic and volcanic activity.



RAISEBOR

Contract Raise Boring

Vent Shafts • Penstocks
Ore Passes • Man-Ways
Lined or Unlined



For Information Contact:
Raisebor

(205) 945-1300

Fax: (205) 945-1441

email: mhardwick@raisebor.com

www.raisebor.com

301 Industrial Drive
Birmingham, AL 35211-4443

A Division of Cowin & Company Inc.

Evaluation Of Eldorado Property Full Historical Drill Hole Database

VANCOUVER - Provenance Gold Corp. has acquired a large volume of historic data on the Eldorado property that it is digitizing. As a result, the Company has a full historic drill hole database which it has used to generate cross sections, long sections and horizontal plan sections using the property's historic 242 drill holes. The Company is very pleased by the information gained from these studies.

Based on the current evaluation work, Provenance has determined that the gold mineralization is locally high-grade within a large volume of lower grade values and is open in all directions and vertically. Additionally, within the larger expanse of the project, numerous undrilled areas could expand the mineralization considerably.

Provenance's review of the cross sections shows that much of the historic drilling was shallow, and stopped above, and even within the mineralization..

low, and stopped above, and even within the mineralization..

The Eldorado gold mineralization is on BLM land that Provenance controls, but unlike Nevada, Oregon exploration drilling must be permitted by both the BLM and DOGAMI, which is Oregon's department of geology.

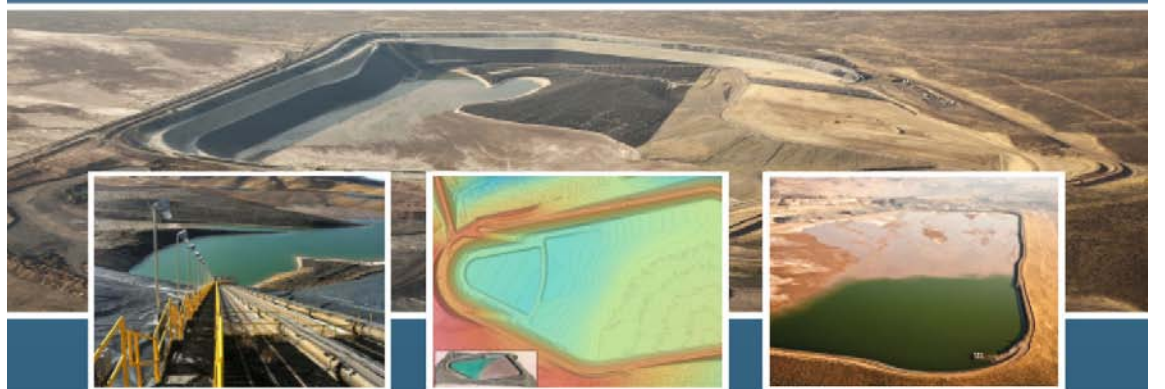
The Company expects to obtain both permits to begin confirmation drilling within the next several months.

The staged work program includes completing compilations from the various historic studies, drilling 20 confirmation holes over a wide area of the property, and planning and permitting a second larger round of drilling into obvious targets and new areas.

Steven Craig, Project Manager, said, "Holes like R-90 with 67 meters of plus three grams starting at surface are rare. I look forward to starting the confirmation drilling."

NewFields
Perspective. Vision. Solutions.

NewFields provides customized solutions to meet the unique challenges that our clients are facing.



WE SPECIALIZE IN:

- Tailings Storage Facility Design
- Heap Leach Facility Design
- Waste Rock Storage Facility Design
- Surface Water Management Design
- Construction & Project Management
- AASHTO Accredited Materials Testing Laboratory
- Ancillary Facility Design
- Environmental Permitting/NEPA Support
- Geotechnical Analyses & Foundation Design
- Water Resources Studies
- Laboratory & Field QA/QC Testing & Inspection

MULTIPLE OFFICE LOCATIONS IN:

Nevada 775.738.3399

Colorado 720.508.3300

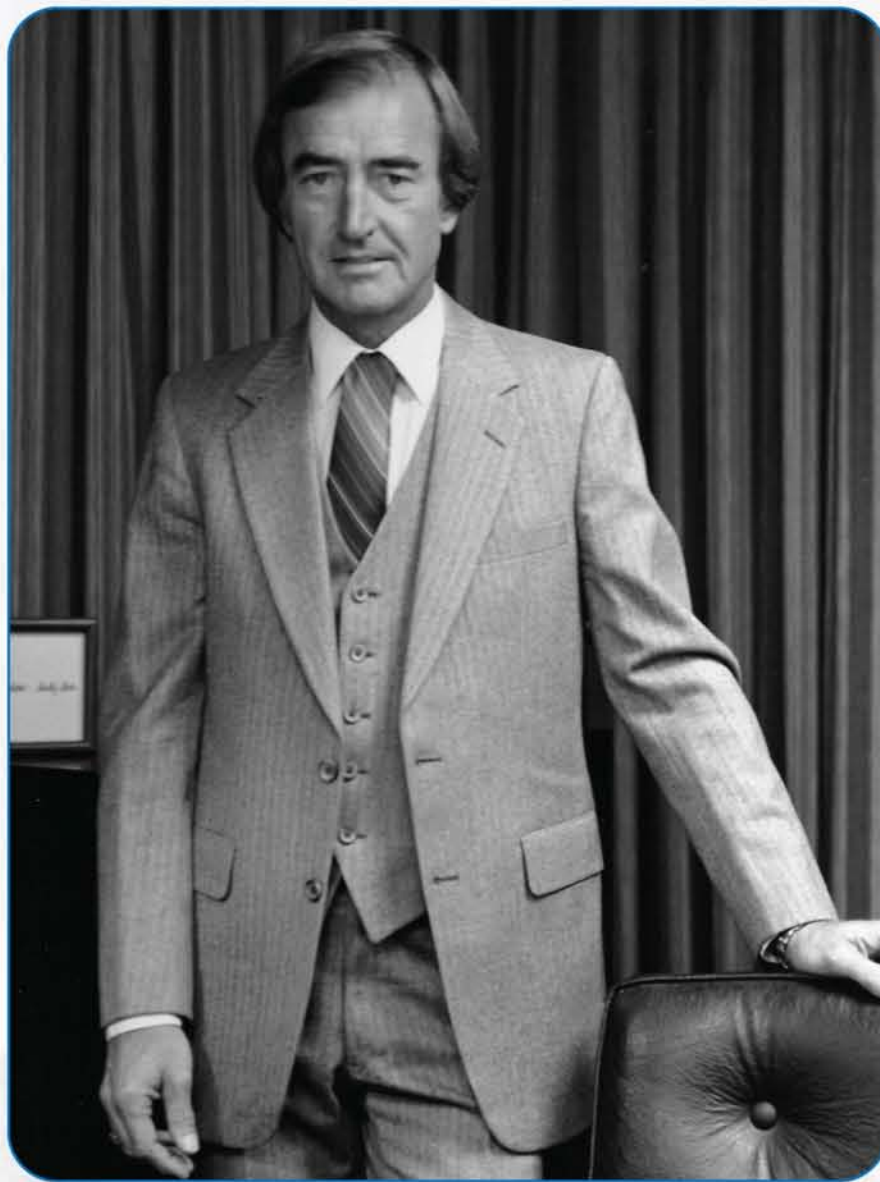
Montana 406.702.2879

www.NewFields.com



Don E. Howell

April 6, 1939 - April 27, 2021



Don E. Howell, Chairman and Chief Executive Officer

In the early 1970's Don E. Howell purchased The Mining Record, a struggling publication which had once been a prominent daily newspaper of Denver. Using original publishing equipment, Don worked tirelessly to turn the business around, creating the Howell Publishing Company in the process. His newly formed company designed publications and marketing materials for some of the areas most recognized companies, growing to become one of Denver's leading publishing groups.

Don continued to publish The Mining Record weekly and during the ensuing years, built the newspaper into an industry frontrunner for mining news and advertising. The company grew from a one-man operation to employing industry professionals and recent mining school graduates, launching the careers of many who are now executives in the industry.

Expanding on his success, Don created publications for mining associations and began promoting mining trade shows and conferences in The Mining Record. His positive impact and influence, led to expanded attendance, increased exhibitor participation, and greater industry recognition. As a key player and straight shooter in a 'tight knit' industry, Don was able to further develop the business, forging friendships through the years that lasted a lifetime.

As a result, Don Howell became synonymous with The Mining Record.

Don was honored numerous times throughout the years for his impact and dedication, receiving multiple industry awards and in 2009, presented the Lifetime Achievement Award by his mining peers.

However, if you asked about his greatest accomplishment, he would answer - "Family. My family is my biggest accomplishment and the fact that they are proud of me, is all that matters".

We Honor the Love, Dedication, and Leadership of a "Larger Than Life" husband, father, grandfather, and friend.

GSN 2022 SYMPOSIUM

EXHIBITION, TECHNICAL SESSIONS,
SHORT COURSES, CORE SHACK, FIELD TRIPS, POSTERS

MAY 2-5, 2022 • NUGGET CASINO RESORT, SPARKS, NEVADA

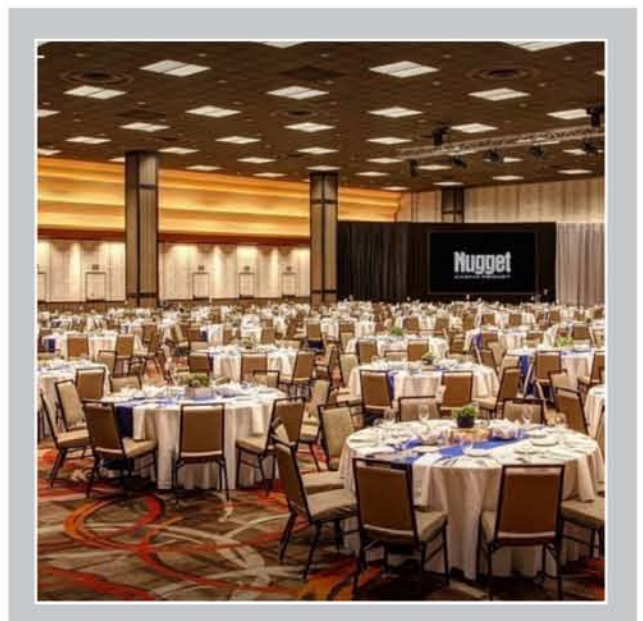
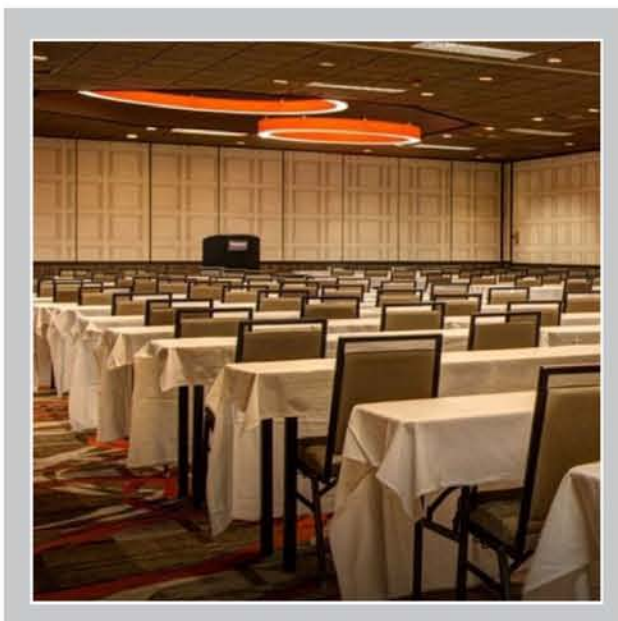


The GSN will host its eighth symposium May 2-5, 2022. **National and International attendees from the Minerals industry (Mining Companies: Executives, Mine and Project Managers, Operations Administration, Purchasing Decision Makers), Government, and Universities.**

**TO ATTEND EXHIBITS AND TECHNICAL SESSIONS
WITH PRE- AND POST-MEETING FIELD TRIPS AND SHORT COURSE**
Contact: Cheri Reimann at 775-433-8758, or email: cheri.reimann@2020gsnsymposium.com

THE EXHIBIT HALL IS FULL FOR THE 2022 SYMPOSIUM

If you'd like to be put on the wait-list, please email: exhibits@2020gsnsymposium.com





Upcoming Campaign At The Engels Deposit In California

TORONTO - US Copper Corp has signed a drilling contract with Timberline Drilling Inc. to drill a minimum of 10,000 feet (ft) at the Engels deposit, part of US Copper's Moonlight-Superior Copper Project in Plumas County, California. This drill program will target an 800 ft by 400 ft by 700 ft envelope of open-pit grade copper mineralization surrounding the historic underground Engels Mine. This mineralization was initially recognized in underground drill holes during the 1915-1930 mining operation but was considered too low-grade for exploitation in an underground mine. More recent historical surface drilling, which was primarily focused on defining shallow copper oxide mineralization, encountered substantial thicknesses of good open pit grade copper sulfide mineralization.

"This mineralization is not closed off in any direction and has the potential to be a stand-alone, open pit copper mine on its own," said, Stephen Dunn, President and CEO. "In conjunction with the Moonlight deposit and the Superior deposit, which was enhanced by last year's drill program, the combined 3-pit resource has the potential to be a long-lived profitable mining operation. Drilling is scheduled to start in the spring based on drill rig availability."

The Engels copper deposit is

located about 6,000 ft (1,830 metres (m)) east of our Moonlight deposit and 11,000 ft (335 m) north of the Superior deposit. Engels was mined in the 1915-1930 period, yielding approximately 2.7 million tons at a grade of 2.2 % copper. Mine workings are extensive and include many tens of thousands of feet of drifts, crosscuts, and stopes on ten levels accessed by adits and six levels accessed from a winze sunk from the No. 10 level.

Geologically, the Engels deposit lies outside the eastern margin of the Lights Creek quartz monzonite stock in an area of gabbroic intrusives and metavolcanic roof pendants. Engels is structurally-controlled in a shear zone striking north-east and dipping steeply. Mined and processed ore occurs in an 800 ft by 60 ft (240 m by 20 m) pipe like zone and is associated with breccias that exhibit features characteristic of both intrusion and hydrothermal breccia. Narrow high-grade ore shoots were mined to depths of up to 2,000 ft (600 m), and historical drilling indicates that good grade mineralization extends at least another 300 ft (91 m) down ~2,300 ft (670 m) below surface (16th level). The principal sulfide ore minerals are bornite and chalcopyrite, and copper grades exceeding 15% Cu have been encountered in several 6.5 ft (2 m) core intercepts. Remaining known

significant copper mineralization from historical workings and drill holes varies from 0.2% Cu to well over 1.0%.

Copper mineralization at Engels is strongly oxidized to depths >230 ft (70 m) over an area of at least ~1,000 ft by >300 ft. Assay analysis for sulfuric acid soluble copper in a portion of samples from the post-2004 drilling indicate copper oxides represent 90% of total copper

within these depths. Copper oxide minerals consist primarily as malachite with lesser chrysocolla and azurite.

US Copper had a Preliminary Economic Assessment (PEA) prepared on its Moonlight deposit in 2018 that showed positive economics. It was determined that providing higher grade ore from Superior and/or Engels deposits into the Moonlight mine plan would

substantially enhance the Project's economics by increasing cash flows in the initial years of production. The recently completed drill program at Superior was designed specifically for that purpose, and this Engels drill program will outline a second starter pit for the Moonlight plant. Ultimately, the updated Engels and Superior resources will be incorporated into a revised Moonlight PEA.



CIVIL & STRUCTURAL ENGINEERING SERVICES
Exceeding Your Expectations With The Highest Quality Designs.
Licensed In All 50 States and Canada

- Plant and Facilities Design
- Tank, Bin and Vessel Design
- Civil & Structural Engineering
- Welding Engineering & Inspections
- Access Platform, Stairs, Ladders
- Chemical and Material Handling


TALK WITH US TODAY

208.436.0333

LeavittEngineers.com

1324 1st Street S. Nampa

ID 83651






YOUR COMPLETE LINE DEALER FOR HITACHI HAULERS, EXCAVATORS, AND RTDRILL DTH AND ROTARY DRILL RIGS. SERVING ELKO SINCE 1983.



MINING LOCATIONS
ELKO | SALT LAKE CITY | TUCSON | GILLETTE
arnoldmachinery.com

WE'RE HIRING!
SCAN TO VIEW
OPEN POSITIONS



CUSTOMER SATISFACTION IS OUR ONLY POLICY®



Lone Star High-Grade Gold Zone Identified

VANCOUVER - Belmont Resources Inc. reported on the the Lone Star Joint Venture (JV) in North Eastern Washington State. To date, 20 diamond drill holes for 3,578m have been completed at Lone Star with full assay results from the first nine drill holes received. Batches of core are being delivered to the laboratory approximately every fortnight with results to continue filtering through over the coming months. Drilling continues 24 hours a day as part of the forty-three hole, ~6,000m diamond drilling program. Drilling is expected to be completed at the Lone Star Copper-Gold Project in Q1-2022 with the phase 1 drill program Lone Star 2021-22 Drill Results With Historical Drill Intercepts >1.5% CuEq and Resource.

LS21-010 was drilled at a dip of 70o to the east on the same drill pad that LS21-009 was collared from. Initial results from LS21-010 have been reported prior highlight the near surface potential of the project with multiple zones of disseminated and vein hosted, massive sulphide mineralization observed in both the Upper Zone and Lower Zones. Final results from LS21-010 have been received and form part of the content. Significant assay results received from LS21-010 36.9m @ 1.3% CuEq (0.4g/t Au & 4.5g/t Ag) from 7.8m including and 12.2m @ 2.8% CuEq (1.1g/t Au & 8.8g/t Ag).

LS21-006 intersected serpentine and rhyolite hosted mineral-

ization with abundant sulphides logged from 76.8-114.6m. Assay results identified mineralization underneath the historical resource wireframe with significant results including 11.9m @ 2.3% CuEq (2.0g/t Au & 3.3g/t Ag) from 99.7m (including: 1.6m @ 9.8% CuEq (11.7g/t Au & 7.0g/t Ag))

Mineralization in LS21-007 is serpentine hosted with abundant sulphides logged from 106.7-125.6m. Interestingly, LS21-007 provided key information about the nature and timing of the polymetallic copper-gold-silver mineralization of the Lone Star deposit. High-grade gold mineralization is discordant with high-grade copper-silver mineralization and it is interpreted that early volcanogenic massive sulphide (VMS) style copper-silver mineralization has been overprinted by late shearing, brecciation and hydrothermal gold deposition. As such, the results indicate the potential to define further high-grade, structurally controlled gold mineralization that was not a focus of historical exploration programs. Significant results from LS21-007 include 17.7m @ 3.5% CuEq (2.8g/t Au & 5.9g/t Ag) from 107.9m (including 4.1m @ 6.4% CuEq (1.5g/t Au & 16.8g/t Ag) and 4.9m @ 5.7% CuEq (7.9g/t Au & 2.6g/t Ag))

Drilling continues 24 hours a day with samples delivered weekly to MSA Laboratorie. Despite the winter conditions, production rates remain high and drill holes are being extended well beyond historical drill hole depths.

2022 Production Expected To

TORONTO - J. Paul Rollinson, President and CEO of Kinross Gold Corporation, said, "Despite some challenges during 2021, we produced approximately 2.1 million ounces. We expect to increase our production in 2022 and 2023 to 2.65 million and 2.8 million ounces, respectively, to drive robust free cash flow. Our long-term production profile remains strong, with expected production of 2.6 million ounces in 2024 and an annual average production estimate of at least 2.5 million ounces over the remainder of the decade."

We are pleased to report that the Tasiast mill is now operating at sustained throughput levels comparable to the first half of 2021. Our development projects are also advancing well and we have started commissioning at La Coipa, where we have increased life of mine production estimates to approximately 1 million ounces and extended estimated mine life to early 2026. Kinross also successfully added to its mineral reserve estimates, which increased by 2.7 million ounces to 32.6 million gold equivalent ounces at year-end 2021.

"In addition, we enhanced our return of capital to shareholders by returning more than \$250 million through our quarterly dividend and share buyback programs. We also finalized our agreement with the Government of Mauritania to underpin our strong partnership and announced an agreement to acquire Great Bear Resources to further strengthen our long-term growth pipeline. Safety and sustainability continue to be priorities, and we again ranked in the top quartile of our peer group as mea-

sured by a number of ESG ranking agencies in 2021. We also outlined a Climate Change Strategy, with the objective of a 30% reduction in intensity of scope 1 and scope 2 emissions by 2030."

Over the full year, Kinross produced 2,067,549 attributable Au eq. oz., in line with the Company's revised production guidance, compared with full-year 2020 production of 2,366,648 attributable Au eq. oz. The decrease was mainly due to the temporary suspension of milling operations at Tasiast as a result of a mill fire in June 2021 and deferred mining activities at Round Mountain after wall instability was detected in Q1 2021. The decrease was slightly offset by increases in production at Fort Knox and at Bald Mountain.

The Paracatu, in Brazil, production for the full year increased compared with full-year 2020 largely due to higher throughput and the timing of ounces processed through the mill, which was largely offset by a decrease in grades. Full-year production cost of sales per ounce sold was higher year-over-year mainly due to increases in operating waste mined, contractor and energy costs, as well as inflationary pressures on consumables, partially offset by favourable foreign exchange movements. In Q4 2021, higher mill throughput contributed to the increase in production compared with the previous quarter, while higher operating waste mined and maintenance costs contributed to the increase in cost of sales per ounce sold.

In 2021, Fort Knox, in Alaska performed well as full-year production increased, and cost of

sales per ounce sold decreased, compared with full-year 2020. Fort Knox's positive results were largely as a result of lower-cost ounces recovered from the new Barnes Creek heap leach pad after construction was completed at the Gilmore project in early 2021. Production in Q4 2021 improved quarter-over-quarter, mainly due to timing of ounces processed at the mill, largely offset by fewer ounces recovered from the heap leach pads.

Cost of sales per ounce sold was higher quarter-over-quarter primarily as a result of increases in operating waste mined and energy costs. Fort Knox also achieved first production at the Gil satellite deposits during Q4 2021.

At Round Mountain in Nevada, full-year production was lower year-over-year as a result of deferred mining activities in the north wall of the Phase W area after wall instability was detected in Q1 2021. Production decreased quarter-over-quarter primarily due to fewer ounces recovered from the heap leach pads. Full-year cost of sales per ounce sold increased year-over-year mainly due to lower production, higher operating waste mined, and higher taxes related to production. Cost of sales per ounce sold was largely in line quarter-over-quarter.

The Company implemented initiatives to stabilize the wall in 2021, including dewatering and moving waste material from the pit rim. As a result of the mine optimization program, which was initiated in Q1 2021, 938 Au koz. at Phase S were converted to proven and probable mineral reserves at December 31, 2021

Delivering Value.

Kinross Gold Corporation

KINROSS

www.kinross.com



Increase For Kinross Operations

and additional challenges were identified in the west wall of the Phase W area which may affect Round Mountain's annual production plans post 2024. The program is evaluating further initiatives to enhance wall stability, including shallower pit wall slope angles over a more extensive area, and alternative mine plan opportunities, such as incorporating the Phase S pushback.

The alternative mine plan opportunities also include modified open pit sequencing for Phase W and Phase S and the potential for underground mining for portions of Phase W and Phase X. The Company is planning to construct a drift for underground exploration at Phase X in 2022 after positive exploration results in 2021. Given the mine optimization program's expanded parameters, results of the analysis are now expected in the second half of 2022.

Also in Nevada, Bald Mountain's full-year production increase compared with 2020 mainly due to timing of ounces recovered from the heap leach pads, but was less than expected due to the carbonaceous material encountered at the Vantage heap leach pad. Full-year cost of sales per ounce sold was higher year-over-year largely due to higher operating waste mined and taxes related to production. During Q4 2021, production and cost of sales per ounce sold increased versus the prior quarter mainly due to more ounces recovered from the pads in the North area and higher fuel costs, respectively.

At Kupol and Dvoinoye, in Russia, full-year production was lower than full-year 2020 mainly as a result of anticipated lower grades after mining activities were completed at Dvoinoye in November 2020 and the continued processing of related stockpiles. Quarter-over-quarter, lower grades resulted in lower production, as Kupol continued to transition to mining narrower veins. Full-year cost of sales per ounce sold increased compared with 2020

Independence Project Ongoing Exploration

VANCOUVER - Golden Independence Mining Corp. reported on the ongoing exploration activities at the Independence Oxide Heap Leach project in the Battle Mountain-Cortez trend of Nevada. Since tabling a PEA for near-surface heap-leach operation at the Project, the Company has been focused on improving the metrics of the project which yielded an after-tax NPV5% of US\$45M and IRR of 22%. Specifically, exploration has been focused on delineating additional near-surface oxide resources to expand the open pit and reclassify waste with mineralized material. Both of the aforementioned would have the possibility to increase the production profile, extend the mine life, and improve project economics from a cost and valuation perspective.

Jeremy Poirier, CEO and Director, said, "We continue to explore for opportunities to improve upon the December 2021 Preliminary Economic Assessment. The objective of the ongoing exploration program is to identify locations for potential follow-up drilling to expand the near-surface oxide resource."

largely as a result of lower production, and decreased quarter-over-quarter mainly due to lower labour costs.

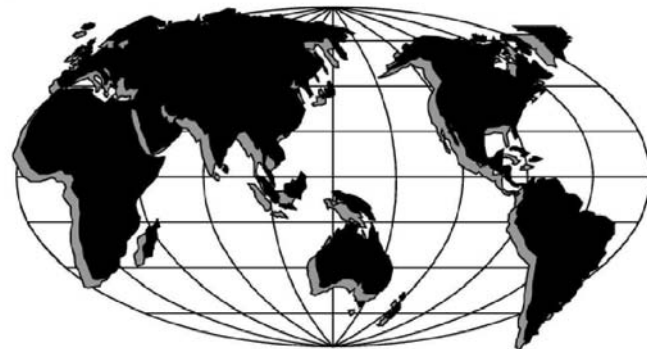
In West Africa, the Tasiast's full-year and quarterly production was lower, and cost of sales per ounce sold higher, versus the comparable periods in 2020 primarily due to the mill fire in June 2021. Tasiast made excellent progress re-starting the mill in the second half of the year and completed a successful recommissioning with no material mechanical issues encountered. In Q4 2021, the site achieved its production target of 15,000 Au eq. oz. after re-starting the plant processing lower grade stockpile ore. Throughput gradually ramped up during the quarter, with the mill reaching throughput of 19,000-20,000 tonnes per day in January 2022 on a sustained basis.

In January 2022, the Company reached an agreement with the Government of Mauritania regarding two licenses located west, east and north of the main Tasiast operation. Kinross has agreed to

renew exploration activities at these licenses and has committed to spend \$10 million in exploration over the next three years. As part of its commitment, the Company is budgeting \$5 million for exploration in 2022 at these licenses.

At Chirano, also in West Africa, full-year production decreased compared with 2020 mainly due to lower grades, partially offset by higher throughput. Full-year cost of sales per ounce sold was higher mainly due to lower production and higher contractor and energy costs. Production decreased quarter-over-quarter mainly due to lower grades, and cost of sales per ounce sold increased over Q3 2021 mainly as a result of the lower production. The mine site exploration program continued to yield excellent results in 2021 and added 400 Au koz. to Chirano's mineral resource estimates, helping extend mine life by one year to 2026, with opportunities for further mine life extensions.

INDEPENDENT MINING CONSULTANTS, INC.



- Surface and Underground Mine Evaluation
- Exploration Project Development
- Mine Design and Planning
- Production Scheduling and Strategic Planning
- Resource Modeling / Reserve Estimation
- Evaluation of Expansions or Acquisitions

www.imctucson.com

Tel: (520) 294-9861

SLABBER® IS HERE!

THE FIBER GLASS SCALING BAR

- REPLACEABLE POINTS

Hardened Steel

- LIGHTWEIGHT



- CAUTION YELLOW

5 STANDARD LENGTHS

Your Safety on the Job Deserves SLABBER'S Advantages!

Over Four Decades Of Service!

With maximum strength-minimum weight. Rock Tools SLABBER provides extra muscle for tackling your toughest scaling jobs:

- Scaling of hazardous banks in pit or quarry
- Barring down back, face or ribs in mine or tunnel
- Kiln brick removal
- Furnace build-up removal
- Right-of-way maintenance along railways
- Trenching in underground utility construction

Contact us for full details on SLABBER.®

(801) 328-3733

ROCK TOOLS, INC.

P.O. BOX 58196

SALT LAKE CITY, UT 84158



Positive Metallurgical Results From Rattlesnake Hills

SASKATOON - GFG Resources Inc. has received positive metallurgical results from the Rattlesnake Hills Gold Project (RSH) located in Wyoming, from its option partner, Group 11 Technologies Inc. These are the first test results in the process to develop In-situ Recovery (ISR) technology for gold mining using EnviroMetal Technologies Inc. non-cyanide and environmentally friendly leaching solution. The gold recovery tests from un-

crushed half-core samples demonstrated recoveries ranging from 15.9% to 77.5%, averaging 48.2% while the bottle roll testing of crushed material returned gold recoveries ranging from 38.3% to 89.5%, averaging 61.4%.

"These initial results have exceeded our and Group 11's expectations and this is an exciting development for our shareholders, stakeholders and the gold mining industry as a whole," stated Brian Skanderbeg, President

and CEO of GFG."

Dennis Stover, Group 11 and enCore Energy Corps' Chief Technical Officer, said, "Group 11 is very pleased with the initial tests which showed strong results to extract gold from the existing core samples with an environmentally-friendly solvent. This first step will provide the basis for future tests to be conducted on the use of the lixiviant in combination with ISR technology. Group 11 is working to create

new environmentally-friendly options to extract gold and other metals through less invasive ISR extraction which is in widespread use in the uranium sector."

The Phase 1 program was designed to conduct staged metallurgical tests on core samples from across a broad range of mineralization and grade profiles from previously drilled core from the RSH Project. The objective was to assess the amenability and recovery rates for extracting gold

from the core using the eco-friendly water-based solution. Group 11 selected 17 half-core and 22 composite core chip samples from the RSH Project with the objective of evaluating gold recovery and leach kinetics to provide baseline data for future studies focused on in-situ leaching using EnviroMetal's environmentally superior leach chemistry.

The half core samples were leached whole and uncrushed in EnviroMetal's solution at 28% - 45% pulp density for 22 to 92 days to investigate gold recovery for ISR application. Gold recoveries ranged from 15.9% to 77.5%, averaging 48.2%. These samples were tested whole without crushing to more closely emulate expected results from an ISR environment.

The rock samples were crushed to -2.5 mm and tested via bottle roll methodology with EnviroMetal's solution at 30% pulp density for 9 to 28 days at a neutral pH to investigate gold recovery. Gold recoveries ranged from 38.3% to 89.5%, averaging 61.4%. Leaching with the bottle roll on crushed material provided faster kinetics and higher recoveries, as would be expected, due to the increased surface area exposed to the solution.

Although not directly comparable due to significantly different testing parameters, these new bottle roll test results compare favorably with traditional bottle roll results from testing conducted in 2009 by Resource Development Inc. ("RDI") for the RSH Project. The RDI testing utilized cyanide with 1g/l of NaCN, a pH of 11, 40% solids, 72-hour leaching time and a very fine grain size of 80% less than .074mm. Gold recoveries from historic cyanide bottle roll tests ranged from 13.7% to 65.4%, averaging 43.4% from 15 composite drill core samples.

With successful initial test work that exceeded recovery rate expectations, Group 11 will proceed to conduct further ISR analyses and data review related to the RSH Project.

CONTINUED FROM PAGE 1

Newmont..

million pounds in the prior year, and zinc reserves also decreased to 6,250 million pounds from 6,810 million pounds. These decreases are largely due to depletion at Peñasquito. Measured & Indicated lead resources decreased to 1,230 million pounds from 1,700 million pounds and Inferred lead resources decreased to 480 million pounds from 900 million pounds. Measured & Indicated zinc resources decreased to 2,690 million pounds from 3,700 million pounds and Inferred zinc resources decreased to 1,070 million pounds from 1,700 million pounds. These decreases are primarily due to design updates at Peñasquito.

Newmont's attributable exploration expenditure for managed operations is expected to be approximately \$250 million in 2022 with 80 percent of total exploration investment dedicated to near-mine expansion programs and the remaining 20 percent allocated to the advancement of greenfield projects. Additionally, Newmont's share of exploration investment for its non-managed joint ventures will total approximately \$45 million.



128th Annual Meeting

December 4 - 9, 2022

Nugget Casino Resort in Sparks, NV

American Exploration &
Mining Association
EST. 1895™

**AEMA'S ANNUAL MEETING IS THE SECOND LARGEST AND LONGEST
RUNNING ANNUAL MINING CONVENTION IN THE UNITED STATES**

TECHNICAL PROGRAMS

Industry's most prominent and informative speakers

SHORT COURSES

Relevant and timely current environment focus

EXHIBITION

Mining Companies and Suppliers

Additional Networking and Social Opportunities

Banquet and Hospitality Suites

FOR ADDITIONAL INFORMATION ON THE 128TH ANNUAL MEETING, CONTACT:

Annual Meeting Events & Planning: phewood@miningamerica.org

Exhibitors and Membership: mheywood@miningamerica.org

"Mining Makes Modern Life Possible"

American Exploration & Mining Association is a national association representing the minerals industry. AEMA is the recognized national voice for exploration, the junior mining sector, maintaining access to public lands, and represents the entire mining life cycle, from exploration through production to reclamation and closure.

www.miningamerica.org

16201 E Indiana Ave □ Suite 3280 □ Spokane Valley □ WA □ 99216 □ 509-624-1158



High-Grade Gold Opportunities Outlined At Kilgore

TORONTO - Excellon Resources Inc. reported on the ongoing review of high-grade gold opportunities from historical exploration of the Kilgore Project in Idaho. Intensive review and rebuilding of Kilgore drillhole database demonstrates opportunities to focus on high-grade gold potential with updated exploration techniques. Historic results were often reported in broad intervals, with discrete high-grade zones encountered in diamond drilling including: 10.79 g/t Au over 6.20 metres in 16OKC-354; 9.53 g/t Au over 13.72 metres in 16OKC-353; 11.19 g/t Au over 7.62 metres in 10OKC-228; 8.65 g/t Au over 9.14 metres in 10OKC-220; 19.75 g/t Au over 4.27 metres in 95EKC-100; and Drilling planned to define structures associated with high-grade gold emplacement through first applications of modern downhole and oriented core surveying at Kilgore.

"The opportunity to define high-grade gold and make new high-grade discoveries was a key reason behind our acquisition of the Kilgore Project in 2020," said Jorge Ortega, Vice President Exploration.

The Kilgore deposit is a caldera-related epithermal gold deposit in Clark County, Idaho with a current Indicated Resource of 44.6 million tonnes at 0.58 g/t Au for 825,000 ounces Au and an Inferred Resource of 9.4 million tonnes at 0.45 g/t Au for 136,000 ounces Au. The primary objectives of the 2022 exploration program at Kilgore are to (i) grow

and increase the grade of the existing mineral resource and (ii) define vertical to sub-vertical high-grade zones within the existing mineral resource and to depth in the underlying Aspen formation. Detailed planning for the program is ongoing, but is expected to include a combination of drilling, geophysics and

surface work.

The proposed drilling program comprises two phases to define structures associated with high-grade gold emplacement through the first applications of modern downhole survey and core orientation equipment at Kilgore, including (i) the confirmation of historic high-grade

intercepts within the Kilgore deposit and (ii) exploration along trend and at depth focused on defined geophysical, geochemical and structural features associated with gold mineralization.

Geophysical surveying is expected to include induced polarization and magnetotelluric surveys over the Kilgore deposit

and high priority targets to (i) better define structural features associated with gold mineralization and (ii) define additional drill targets. Surface work is expected to include mapping, sampling and soils, following up on Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER) defined targets.



Exceptional Service &
Technical Support
Servicing the Mining
and Aggregate
Industries

SPECIALIZING IN WEAR PARTS AND PLANT OPTIMIZATION
 CRUSHING-CONVEYING-SCREENING
 & MINERAL RECOVERY




Ted Zebroski - President
Toll Free: 1-866-HARDROK (1-866-427-3765)
Ph: 775-625-3101 • Fx: 775-625-3141
www.HardRok.com





Eric Dutton
Application Specialist
Cell: 775-842-3111

"Building & Operating America's Underground Mines"



SMALL MINE DEVELOPMENT
— UNDERGROUND —
— MINING CONTRACTORS —
NEVADA CONTRACTOR LICENSE 0048016



**For more information, visit our website at: www.undergroundmining.com
or call 208-338-8880**



THE MINING RECORD PROFESSIONAL DIRECTORY

For nearly 60 years, Ames Construction has self-performed high-quality General Contracting services to complete successful projects safely, on-time, and within budget.

Ames is family-owned, committed to relationships built on honesty, performance, and mutual trust, and dedicated to providing superior construction services to our clients.



Visit us online at AmesConstruction.com **Ames Construction**

Sacrison Engineering
MINING - GEOLOGICAL - HYDROLOGICAL - ENVIRONMENTAL - MAINTENANCE
Construction Management
Project Management
Engineering
320 Poplar Drive
Elko, NV 89601-4508
Phone: 775-777-7455
Fax: 775-549-8949
Cell: 775-397-2983
sacrison@broadnet.net
www.sacrison-engineering.com

INDEPENDENT MINING CONSULTANTS, INC.
Tucson, Arizona
Tel: (520) 294-9861 FAX: (520) 294-9865
imctucson.com

PR ENGINEERING LIMITED
Website: www.prengineering.com
Tel: (905) 579-9721 Fax: (905) 434-6878

DENVER MINING CLUB, LTD.
RAGGED ASS MINERS, EST. 1891
www.denverminingclub.org

GRAYMONT
3950 South 700 East, Suite 301
Salt Lake City, UT, USA 84107
Phone: (801) 716-2634 Fax: (801) 264-8039
www.graymont.com

MES MINING
(303) 567-4174
www.minenv.com
MINING & ENVIRONMENTAL SERVICES, LLC
General Manager: Mark Levin, P.E.

CORRIVEAU J.L. & ASSOC. INC
Land & Mining Surveyors
3D SCANNING & MODELLING BY:
GROUND AND AIRBORNE 3D SCANNING AND MODELING
GYRO AND GPS SERVICES, SALES, RENTALS, UNDERGROUND AND SURFACE CONTROL, BOUNDARY AND LEGAL SURVEYS, TOPOGRAPHIC SURVEYS, PHOTOGRAMMETRIC MAPPING AND BOREHOLE DEVIATION (XYZ) AND BATHYMETRIC SURVEYS
1085 - 3rd Avenue, Val d'Or (Quebec) Canada J9P 1T5 Tel: (819) 825-3702
Fax: (819) 825-2863 email: bureau@corriveaujl.com, website: www.corriveaujl.com

ROCK TOOLS, INC.
P.O. BOX 58196, SALT LAKE CITY, UT 84158, U.S.A.
PHONE (801) 328-3733 FAX (801) 575-7004

TEJADA PHOTOGRAPHY
Specializing in annual report photography for mining and heavy industrial clients.
Call 303.979.0171

Knight Piesold CONSULTING
ADDING VALUE. DELIVERING RESULTS.

Cementation
WE BUILD MINES. SAFELY.
cementation.com

Revegetation & Erosion Control

granite SEED
(801) 768-4422
Fax (801) 768-3967
www.graniteseed.com

TonaTec Exploration, LLC
Diamond Core Drilling
Minerals Exploration
Directional Drilling
Geothermal Exploration
Geothermal Drilling
Consulting
www.tonatec.com

We thrive on challenges
wsp.com **WSP GOLDER**

CAB
Hooks, Hangers & Mine Safety Products
Proudly Manufactured in the USA by the Cambria County Assn. for the Blind and Handicapped, Providing Employment for Persons with Disabilities
Visit www.cabproducts.com

THE INTERNET CONNECTION DIRECTORY

CONTRACT MINING
Ames Construction
www.amesconstruction.com
info@amesconstruction.com

CONSULTANTS - MINERAL INDUSTRY
Independent Mining Consultants
www.imctucson.com
imc@imctucson.com

www.KnightPiesold.com

WSP GOLDER
wsp.com

CRUSHERS - MINING AND AGGREGATE
PR Engineering Ltd.
www.prengineering.com
info@prengineering.com

HEAP LEACH/TAILINGS DAM GEOTECHNICAL/ENVIRONMENTAL
WSP GOLDER
wsp.com

HEAVY MINING EQUIPMENT
Wagner Equipment Company
www.wagnerequipment.cat.com

MATERIAL HANDLING SYSTEMS MINE PLANNING • MODELING SOFTWARE
INDEPENDENT MINING CONSULTANTS, INC.
Independent Mining Consultants
www.imctucson.com
imc@imctucson.com

MINING/EXPLORATION COMPANIES
Freeport-McMoRan
www.fcx.com
General Moly
www.generalmoly.com
Newmont Mining Corporation
www.newmont.com

PIPE SYSTEMS
Naylor Pipe Company
www.naylorpipe.com
sales@naylorpipe.com

STEEL FABRICATORS - PIPE
Mill Man Steel, Inc.
www.millmansteel.com
kevin@millmansteel.com

Naylor Pipe Company
www.naylorpipe.com
sales@naylorpipe.com

TUNNELING - RAISEBORING
Cowin & Company, Inc.
www.cowin-co.com
jcowinjr@cowin-co.com

RAISEBOR
www.raisebor.com
mhardwick@raisebor.com

UNDERGROUND CONSTRUCTION AND MAINTENANCE
 www.KnightPiesold.com

USED/NEW HEAVY EQUIPMENT
Arnold Machinery Company
www.arnoldmachinery.com
Cashman Equipment Company
www.cashmanequipment.com

For your company's listing in the Internet Connection Directory please contact:
The Mining Record at: 800-441-4748 • Ph: 303-663-7820 • advertising@miningrecord.com
P.O. Box 1630, Castle Rock, Colorado 80104-6130 USA

www.miningrecord.com



CSAMT Survey Identifies Au-Ag Zone Projects At Breccia Property

VANCOUVER - Ophir Gold Corp. reported results of a Controlled Source Audio Magneto-Telluric (CSAMT) geophysical survey completed at the Breccia Gold-Silver Property, located about 40 km southwest of Salmon, Idaho. The survey, which was completed during October and November 2021 by TMC Geophysics, consisted of 15 lines at 200 m spacing, with 50 m station spacings along lines, for a total of 533 stations.

The CSAMT survey identified a prominent northwest-southeast trending resistive feature to the east, in contrast to a very low resistive unit which dominates the western portion of the Property. The data highlighted a zone of resistivity anomalies that extend across much of the Property, and which are associated with extensive faulting and/or geologic contacts. This extensive zone of resistivity anomalies corresponds to the high-grade gold and silver mineralization identified in drill core, surface rocks, and soil samples.

The modelled CSAMT data, suggest two sub-parallel, north-northwest trending zones of precious metal mineralization are present - a "West Zone" and an "East Zone". The West Zone appears strongly correlated with mineralization that corresponds to the 100 - 200 ohm-m range, including significant gold and silver mineralization within drill holes BG21-003A, 004, 005, and 006. The East Zone appears to correspond to the 300-500 ohm-m range and is associated with the gold mineralization in drill holes BG21-001 and 002.

Those drill holes which tested the West Zone mineralization during the 2021 drill program represent an almost 200-m strike length and 200-m vertical extent. The mineralization remains open to the north, south, and at depth, and represents a prime target for both infill and expansion drilling. The East Zone of mineralization appears to have been tested at shallow depths by drill holes BG21-001 and BG21-002; although BG21-002 did not continue deep enough to adequately test the high-grade mineralization observed in the lower portions of BG21-001. This zone of mineralization remains virtually untested by drill holes, though significant surface samples attest to its potential. Collectively, the 100 to 500 ohm-m zone outlined by the CSAMT survey, which correlates to the precious metal mineralization encountered by the 2021 drill holes - consisting of both the West and East zones - is modelled to extend to at least 500 m vertical depth.

The lower 25-75 ohm-m zone (higher conductivity), which extends across the western portion of the Property, correlates well with the extensive clay alteration encountered in multiple drill holes, including the upper portions of BG21-005. The higher 1,000-1,500 ohm-m zones (lower conductivity), which dominate the eastern portion of the Property, are interpreted to represent a strongly resistive regional structure or a buried intrusive system that extends to significant depth. These higher resistivity (1,000-1,500 ohm-m) areas of the Property have not yet been drill

tested; they represent a valid exploration target.

The CSAMT data, coupled with 2021 drill data and surface data collected to date, will help refine drill targets for the planned 2022 program.

The main Breccia Gold Zone is still thought to represent the uppermost regions of a low-sulphidation epithermal system. Given the spatial relationship between high-grade gold veins and near vertical, north to north-west orientated structures that occur directly above or proximal to the observed high-resistivity, and possible intrusive system in the east-central part of the Breccia Property, an easterly vein-type or intrusion related gold system is considered.

Within this eastern zone, during 2020, the Company mapped a number of precious metal veins, "the East Breccia Zone" which

returned 57.6 g/t Au and 19.6 g/t Ag (outcrop), 30.2 g/t Au and 7.4 g/t Ag (outcrop), and 69 g/t Au and 27.5 g/t Ag (boulder). The Company's understanding of precious metal mineralization at Breccia is evolving with the addition of further geological and geophysical data, suggesting enhanced potential for high grades of gold/silver mineralization at the Breccia Gold Zone, to the north along the Meadows Fault Zone, and to the east of the immediate Breccia Gold Zone Trend. It has submitted a five-year Plan of Operations to the United States Forestry Service for extended exploration of the Breccia Gold Property. The permit, once received, will allow exploration of the Property for five consecutive years, under the same authorization, providing significant advantages and flexibility for follow-up diamond drilling in 2022.

granite SEED
and erosion control

The largest selection and highest quality native seed in the western United States, custom blended to your projects unique specifications.

Utah 801.768.4422
Colorado 720.496.0600

graniteseed.com

SUBSCRIPTION ORDER FORM

THE MINING RECORD

133 YEARS
THE INDUSTRY'S LEADING MINING NEWSPAPER



The Mining Record has been in continuous publication for 133 years and is recognized as the industry's leading newspaper. The Mining Record has an international readership. It focuses on timely and credible news reporting on exploration, discovery, development, production, joint ventures, acquisitions, operating results, legislation, government reports and metals prices. Its readership is concentrated in the mining industry proper - mining companies, engineers, geologists, mine supervisory personnel, company officers and individuals engaged in exploration and large or small mine production. Every year, The Mining Record devotes an issue to the major conventions in the western U.S., Canada and Latin America.

Available to order online:
www.miningrecord.com



THE MINING RECORD NEWSPAPER

- 1 year \$55 to U.S. Subscribers
- 2 years \$85 to U.S. Subscribers
- 3 years \$120 to U.S. Subscribers
- 1 year 1st Class Mail \$85 to U.S. Subscribers
- 1 year \$85 - Canada & Mexico
- 1 year \$99 - Foreign

Check Enclosed Money Order Enclosed
(MAKE CHECKS/MONEY ORDERS PAYABLE TO HOWELL INTERNATIONAL)

ALL ORDERS IN U.S. CURRENCY
FOREIGN ORDERS CREDIT CARD ONLY
(EXCLUDING CANADA)

Visa American Express Master Card

Exp. Date _____ CCV _____

Name _____ Card # _____

Name _____ Company _____

Address _____ City _____

State _____ Zip _____ Country _____ Phone _____

MAIL, FAX, EMAIL OR CALL:

P.O. Box 1630 • Castle Rock, Colorado 80104 USA • (303) 663-7820 • Fax: (303) 663-7823, Email: subscriptions@miningrecord.com



WHERE VISION AND VALUE COME TOGETHER



THYSSEN MINING
local challenges | **GLOBAL SOLUTIONS**

thyssenmining.com

info@thyssenmining.com

WINNEMUCCA

Drill Rig Secured For Alpha Gold Property

VANCOUVER - Sitka Gold Corp. has signed a drill contract with Envirotech Drilling LLC of Winnemucca, Nevada. The contract is for a planned 5,000 feet (1,524m) of Reverse Circulation drilling for continued exploration at its Alpha Gold Property, situated at the southeast end of the Cortez Trend in Nevada. Sitka recently received approval from the BLM of its amendment to its Alpha Notice of Intent to Drill after doubling its land position to cover significant additional Carlin-type alteration identified in the area. The Company now has 26 permitted drill sites available for its next phase of exploration.

The focus of the next phase of exploration will be to continue defining and expanding the limits of the mineralized system beneath the 7 km long surface alteration footprint while searching for grade. Each successive round of drilling has added important geological information and revealed increasingly prospective targets. The forthcoming drill program will further investigate the area around holes 05, 07, and 08, which returned assays of 0.41 g/t gold over 12.19 m, 0.41 g/t gold over 3.04 m, and 0.46 g/t gold over 15.24 m (including 1.1 g/t gold over 3.04 m). It's highly unlikely the better zones have been hit yet in this nearly blind mineral system. The new drilling will test host stratigraphy in additional quadrants proximal to E-W to NNW

structural intersections with strong surface alteration zones. Carlin-type ore bodies can occur within fault zones or favor one side or the other and more information is needed from this mineralized area to pattern it. The hope is of course to discover underground mining grades in the process, though mineralization in holes 05 and 07 is potentially shallow enough for open pit mining.

The Frazier Creek target will also be drill tested, where strong surface alteration coincides with intersecting fold and fault structures. Surface alteration at Alpha has been a good guide to much higher grades at depth in host stratigraphy. The structural intersection at Frazier Creek is much larger than anything tested at Alpha NW.

CEO and Director, Cor Coe, P.Ge., said, "Sitka's upcoming drill program at Alpha Gold will focus on searching for grade as we vector towards the core of this 7 km long Carlin-type mineralized system. It is significant that this lies on the projection of Nevada's prominent Cortez Trend, where several mega-deposits, such as Cortez Hills and Goldrush, are present. Results from each successive round of drilling over the last couple of years support our geological modeling and demonstrate that Alpha Gold has the geological framework required for the discovery of a major Carlin-type gold deposit."

ECRS

Engineered Casting Repair Services, Inc

Engineering Affiliate of

METALOCK® CORPORATION

"The Technology Leader in the Crack Repair Industry"

Any Crack...Anywhere...Any Time

Analysis and Repair of Cracked and Eroded Ball and SAG Mill Trunnions, and Heads.

Phone: (225) 791-8900

Fax: (225) 791-8965

email: metalock@eatel.net

You Know It's Cracked - How Do You Fix It?

Tommy Beauf

THE LARGEST ANNUAL MINING EXPO IN THE WESTERN U.S.

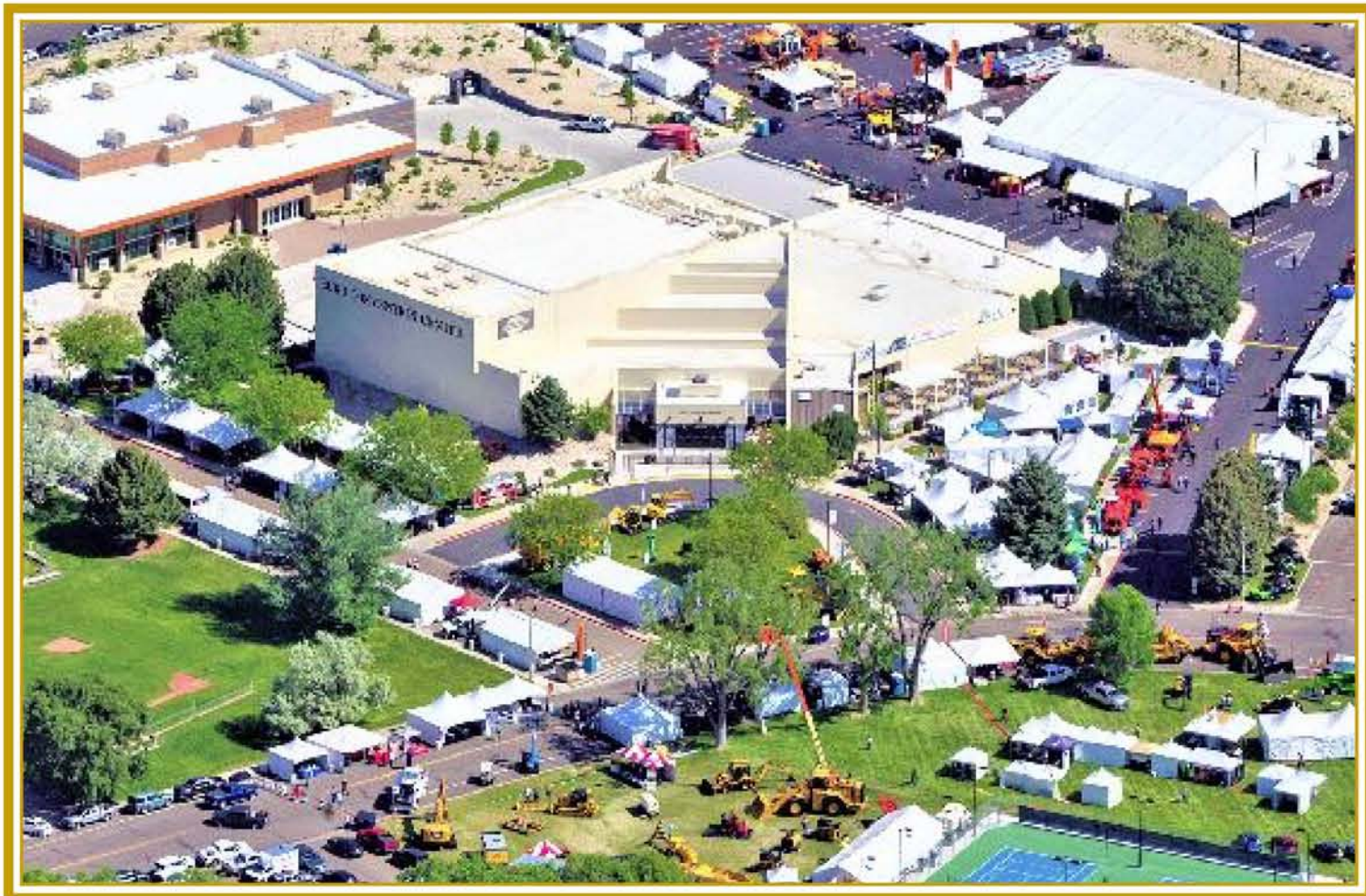
ELKO



2022

June 6-10, 2022

ELKO CONVENTION CENTER



For more information, please contact:

**The Elko Convention & Visitors Authority
700 Moren Way, Elko, NV 89801**

775-738-4091 • 800-248-3556

MineExpo@ElkoCVA.com



Develop your Freeport Edge at Freeport-McMoRan, a leading international mining company that safely and responsibly supplies the world with essential metals for a better, greener future. We are committed to an inclusive environment and empower our people to drive innovation forward.

ENGINEERING

Mining, Metallurgical, Process, Automation, Geological, Electrical, Environmental, Civil, Mechanical, Chemical and Material Science

SCIENCES

Geology, Mineralogy, Health & Safety, Industrial Hygiene, Chemistry and Environmental

BUSINESS

Human Resources, Accounting, Finance, Global Supply Chain, Communications and Information Technology

[FMJobs.com](https://www.fmjobs.com)



FREEPORT-McMoRAN