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ABORIGINAL MINER
Pages 08 - 19



CONTENTS

04 **FACE VALUE: ROBOTICALLY INCREASING DATA QUALITY WHILE REDUCING RISK**

Innovation in products and practices moves us from how things used to be, to how they could be in the future.

ABORIGINAL MINER

08 **MAS GOLD PROJECT PARTNERSHIPS WITH KITSAKI MANAGEMENT FOR MINING AND EXPLORATION IN THE LA RONGE GREENSTONE BELT IN NORTHERN SASKATCHEWAN**

Mas Gold Corporation (TSX-V: MAS) (OTCQB – MSGCF) (FSE – 63G), based in Saskatchewan, is a gold mining company operating since 2010.

10 **TRANSFORMING NORTHERN ONTARIO INTO A CLEAN TECH HUB**

Avalon Advanced Materials partners with international industry leaders to build a domestic lithium battery supply chain.

14 **CREATING A DOMESTIC SUPPLY OF THE CRITICAL METALS THAT WILL FUEL OUR FUTURE**

Clean Air Metals (TSX-V: AIR) (OTCQB: CLRMF) (FRA: CKU) is a Canadian-based platinum and palladium exploration company

20 **BRUNSWICK EXPLORATION - CANADA'S LARGEST LITHIUM GRASSROOT EXPLORATION PROGRAM**

Brunswick Exploration (TSX-V: BRW) is an exploration company focused on arguably the most important critical minerals in the world, lithium.

22 **AMEX EXPLORATION CONTINUES TO DISCOVER HIGH-GRADE GOLD ZONES**

Amex Exploration (TSX-V: AMX), OTCQX: AMXEF, FRA: MX0). has made significant gold discoveries on its 100% owned high-grade Perron Gold Project [...]

24 **“PHAROAH JOE” – A REPORT CARD ON THE GREEN ECONOMY, CRITICAL METALS, ETC.**

Those who have followed me know that I have been very derisive when it comes to President Joe Biden’s terrible dereliction of duty [...]

28 **ARGO GOLD FINDS A “SWEET” SPOT IN THE ALBERTA OILFIELDS**

Environmentalists want you to believe that all oil from Alberta is “Dirty” oil.

34 **BONANZA SILVER GRADES & DOUBLED RESOURCE ESTIMATE IN THE SKEENA ARCH, BRITISH COLUMBIA**

Equity Metals Corporation (TSX-V: EQTY) is a junior exploration company focussed on creating shareholder value through fast tracking exploration of the company’s flagship 100% Owned Silver Queen Gold-Silver Property [...]

36 **VISION LITHIUM FOCUSES ON BOOMING LITHIUM MARKET**

Vision Lithium (TSX-V: VLI, OTC: ABEPF, FRA: 1AJ2) is a mining exploration company focused on exploring and developing high-quality lithium assets [...]

42 **GELUM'S EXPERIENCED MANAGEMENT TEAM IS LOOKING FOR GOLD & COPPER IN BRITISH COLUMBIA**

Gelum Resources (CSE: GMR) is a newly formed exploration company focused on gold and copper in British Columbia, Canada.

44 **THE GREAT BULL CASE OF SILVER FOR 2023 AND BEYOND**

We are at the historical moment that Solar PV is having explosive growth into the next decade.

47 **DON'T MISS THE IN-PERSON RETURN OF THE WORLD'S PREMIER MINERAL EXPLORATION AND MINING SHOWCASE IN MARCH!**

Within the mineral exploration and mining world, the Prospector's & Developers Association of Canada's (PDAC) Convention is the industry's big game – its Super Bowl.

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FACE VALUE: ROBOTICALLY INCREASING DATA QUALITY WHILE REDUCING RISK

By Lynnel Reinson

Innovation in products and practices moves us from how things used to be to how they could be in the future. From remotely operated muckers to survey booms designed to move workers to safer distances from the mine face, there are now autonomous drones, and Exyn Technologies' advancement of drone technology and software integration further increases worker distance and safety along with significantly improved survey quality and speed. Where mining practice moves is up to mining companies themselves; what becomes available is the innovative work outside companies undertake, most often in response to the desire inside companies to work more safely, efficiently, and successfully. An important aspect in deciding whether to adopt new technology is knowing how that technology works, and if it works as advertised, which is where independent studies become important resources for companies deciding what, how, and when to adopt.

An independent study, freshly published and conducted by the USC Consulting Group (USCCG), evaluates Exyn Technologies ExynAero™. This drone is described as a "fully autonomous robot" that "pairs a rotating LiDAR unit with a flight platform" and the highest level of aerial autonomy -- Level 4A Autonomy (AL4) -- capable of surveying cavities to map within open stopes, going deeper, and more accurately, more safely, and faster. At Northern Star Resources Ltd. Pogo mine site in Alaska, the USC Group spent two days observing and evaluating the performance of the mine's survey team mapping with this new drone technology, specifically to compare it to the more traditional boom and scanner (CMS) mode of generating maps of open stopes, shown below.

Typically, the face is considered the most dangerous working environment in a mine, where the blasting, mucking, hauling, and mapping all take place, in repeating cycles. Evident in the picture above, the ground at the face is uneven and unstable, and the surveyor must set up the boom and apparatus in person. Over time, however, safety has increased as the work that used to be carried out by hand at the face became more and more mechanized, reducing the time required for workers to complete the necessary tasks; and as the tools used became larger, longer, and even more mechanized, the distance from the face was increased, further improving safety. The idea of using the traditional boom for mapping is to increase worker distance; better still, the use of drones can reduce human presence at the face even further, which is significant, as the United States National Institute for Occupational Safety and Health (NIOSH) still lists the hazards of falling ground as one of the top five major causes of lost time in underground mining.

To set the traditional boom and scanner content management system (CMS) surveyors spent an average of 30 minutes at the face assembling and aligning the equipment, on what is considered dangerous ground. Because of the additional awkwardness with the length of boom in a confined space, survey teams are often set in pairs for personal safety and the integrity of the equipment, which factors into the overall costs of operating the system. In contrast, the ExynAero™ unit, shown below, packs into its carrying case mostly intact, and with only four propellers and two legs to attach before it is ready to use in less than a minute. Compared to similar autonomous drones on the market, the Level 4A Autonomy (AL4) allows for the spatial and computational mapping to



Worker at mine face, setting up the boom for traditional CMS mapping



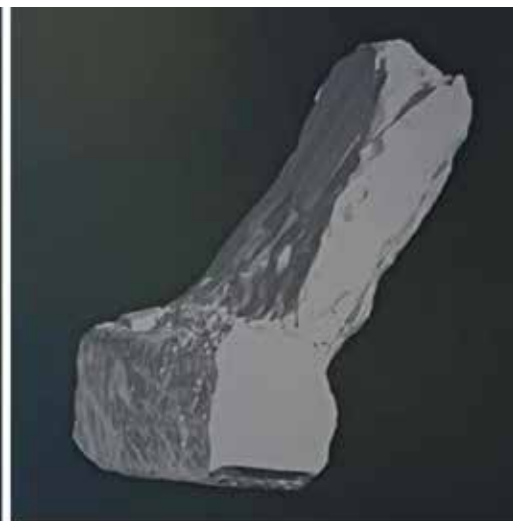
ExynAero™ Drone prepped for flight to mine face, distant to the mine face, note that drone will be operated even rather away.

happen on board the unit, eliminating reliance on GPS or remote connections while in flight, simplifying its use and the speed of mapping itself.

Beyond facilitating a safer distance from the face and reducing set up time to about one minute from 30, the quality of rendering was also studied, comparing the single reference point of the boom and scanner CMS to the multiple points of reference used by the ExynAero™. The ExynAero™ can explore beyond the line-of-sight style required by the boom and scanner, making it capable beyond the limitations of traditional CMS that include errors such as shadowing in the cavity, pockets of dust, and dust that can cause “significant inaccuracies in the map”. For example, in the same stope, the flown mission returned a solid volume of 30 965 ft³ because it could recognize a hanging wall the CMS could not, which resulted in the CMS providing 12% less volume, at a measurement of 27 322 ft³. In another case, because the drone could move through a



ExynAero block model rendering



CMS block model rendering

“false-back” created by a gas build-up and the CMS method could not, the survey set was 35% larger with the drone, at 15119 ft³ rather than 9893 ft³.

The importance of these difference in an operational reality is the additional work and rework; in attempting to reconcile the solids with the data sets created, the



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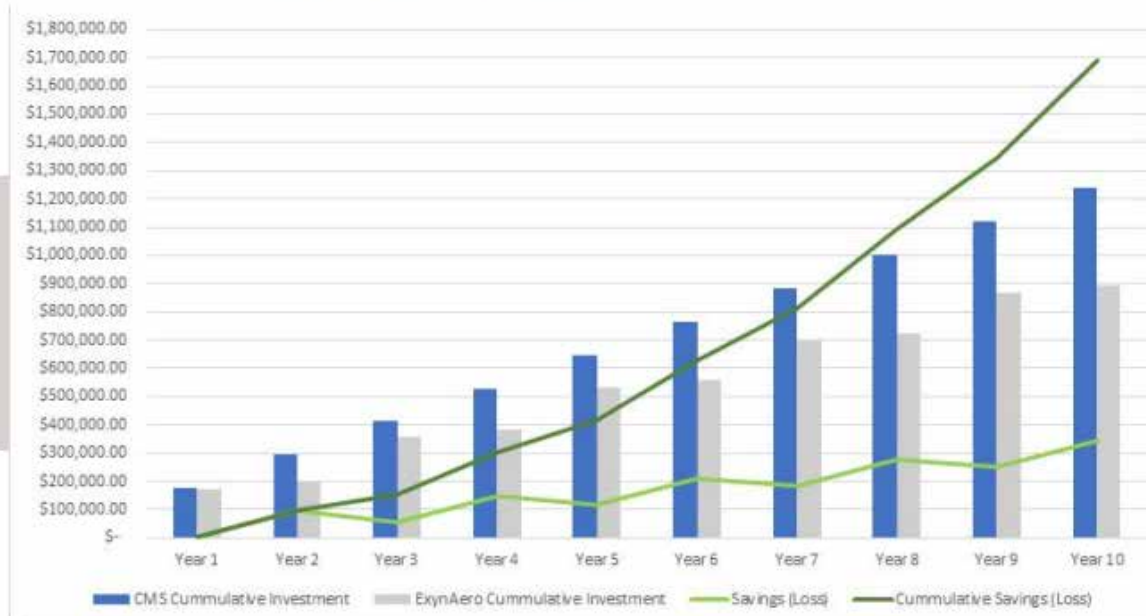


Pogo team would use multiple methods including, mass balance counts from scoops/trucks of muck moved, blast factor assumptions, and re-shooting the surveys. With none of these remedial actions required when the ExynAero™ explores, and the addition of a camera mount on the drone, it is possible to pair live video with survey data. Andrew Loomes, Pogo's Chief Mine Surveyor, observed that they can "do jobs around the corner in

some cases" and that while the safety aspect was a driver in their decision to purchase the drone, "it's been a game changer for us...now we can actually see the type of material sitting on the footwall".

Beyond the safety and data quality, USCGG measured the time required for surveys. In their observations of active headings, using the drone to survey took just over half the time of the

10-Year Savings ExynAero vs CMS with 2 Surveyor Team



**Assuming a 2-year lifespan of the ExynAero™ with discounted unit replacement every second year. Yearly replacement of the Boom and Scanner for the CMS valued at \$60,000. Costs include labor cost to perform the actual surveys considering a fully burdened hourly rate of \$65.68 and investment cost in hardware/software for each respective device.*



traditional CMS, at 15 minutes compared to 27.3 minutes. With moving rock as one of the main activities in a mine, the speed with which that can happen will always impact the overall efficiency of the mining operation. Assuming a two-year replacement schedule for the drone and an annual replacement for the boom and scanner, along with the time saving, with the additional saving of a single operator for the drone compared to traditional methods that require a pair of operators, the savings over ten years based solely on time efficiency of scanning were calculated to be approximately \$1.8 million USD.

Although not included in the savings calculations that were limited to operators, equipment, and software, additional positives can easily be envisioned, for example, being able to physically mine faster could lead to efficiencies in vehicle usage, reduction in rework, shift personnel planning, etc... On average, with the replacement schedule mentioned over 10 years, the average cost per survey decreases with the ExynAero™ the more it gets used, at \$34.40 for 10 surveys, compared to the fixed cost of CMS at \$120.59 per survey. Ultimately, in the USCCG analysis of safety, data-quality, time and cost reduction factors, the



ExynAero™ autonomous drone quantifiably outperformed the traditional boom and scanner CMS in every measure.

Source: ExynAero vs Traditional CMS: A Study of Mining's Top Innovations conducted September 2022 by USC Consulting Group

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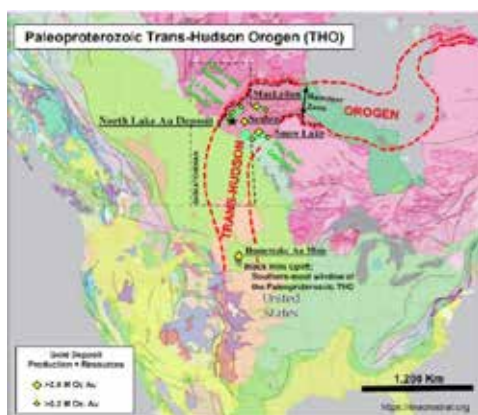
MAS GOLD PROJECT PARTNERSHIPS WITH KITSAKI MANAGEMENT FOR MINING AND EXPLORATION IN THE LA RONGE GREENSTONE BELT IN NORTHERN SASKATCHEWAN

By Lynnel Reinson Communications

Mas Gold Corporation (TSX-V: MAS) (OTCQB - MSGCF) (FSE - 63G), based in Saskatchewan, is a gold mining company operating since 2010. With CEO Jim B. Engdahl, their board of directors will soon enjoy an addition from the La Ronge Band, to further their partnership and operation with Kitsaki Management L.P., the business arm of the Lac La Ronge Indian Band. As Mr. Engdahl noted in conversation about the importance of partnering with Indigenous business and community, matter-of-factly, "It's their resource to develop." And in working with Kitsaki's CanNorth captures the mood with: "We're excited to work with them and they're excited to work with us."

With current gold prices rising, and experts predicting even higher heights, the partnership potential is even more promising. When asked to compare their project economics to the price of gold, he replied "we're very comfortable at 1600USD" gold; with the price of gold currently above 1900USD, their excitement and confidence is understandable. Prosperity for the people of the land and the companies partnering with them is an exciting prospect for the mining industry in Saskatchewan, which is key to the province's economy.

In the past, gold exploration in Saskatchewan has focused on the La Ronge greenstone belt, yet even within these zones, there are areas with high gold potential that remain under-explored¹. Mr. Engdahl, along with MAS Gold's Executive Chairman & Director, (and Canadian Mining Hall of Fame honoree), Ronald Netolitzky bring experience, knowledge of the geology, and excitement to continue working



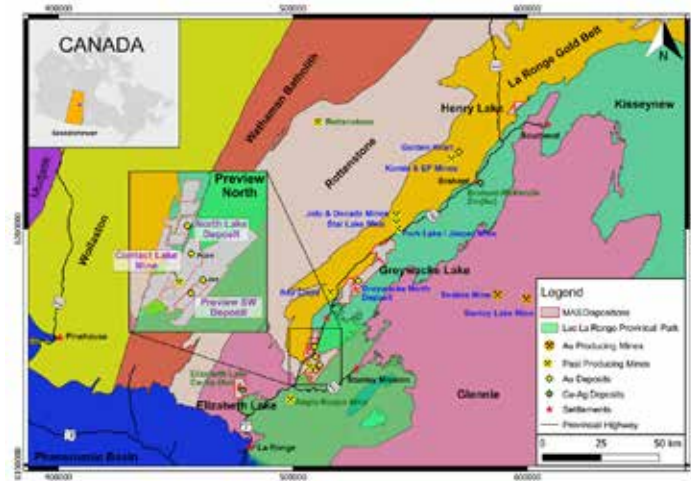
Gold Belt in North American Context

with CanNorth, a Kitsaki company, as their further their exploration and operation in the zone. Mr. Engdahl's experience in developing mining exploration ventures includes managing

acquisitions as well as raising funds. Mas Gold Corp. currently holds 4 prosperous properties within the La Ronge, Kiseynew, Glennie and Rottenstone domains comprising 35175.607 Ha over 24 claims. These properties are located in and neighbouring the historically established La Ronge gold-bearing belt.

Noting the advantage provided by their highly prospective and advanced properties being accessible with existing road networks and close to all infrastructure, Mr. Engdahl explained their intention to expand exploration with Kitsaki, focusing further north, near their existing Greywacke property. The company envisions working in a 'hub-and-spoke' model that currently includes five different deposits in the La Ronge Gold Belt. The North Lake deposit would be the 'hub' of the other four 'spokes': Greywacke North, Preview SW, Contact Lake, and the Point deposits. The 'spokes' are all located within 20-30 kilometers of the North Lake 'hub' deposit and they hope to achieve a production of 100,000 ounces a year. The North Lake location is planned as an open-pit mine and located near Highway 102, around 70 km north-east of La Ronge and 10 km south of the community of Missinipi; it is also near powerlines making it very accessible for development and exploration. 2021 drilling results are continuing to produce positive results, showing wide areas of gold mineralization; Mas Gold's 2023 Mineral Resource Estimate Update shows the deposit having an indicated 389,000 ounces of gold, and an inferred 95,000 ounces.

The Contact Lake deposit has a previously developed gold mine on it, operated by Cameco Corporation from 1994 until 1997 when the price of gold dropped nearly 20%, making further operations unfeasible in those economic conditions. The site is located around 60 km north-east from La Ronge and 30 km south of Missinipi. Further development and exploration of this deposit will be able to make use the powerlines from the pre-existing mine. Mas Gold intends to conduct further drilling programs to assess the potential deposits at greater depths than were mined previously. Similarly,



MAS Gold property map



MAS Gold core samples

the Preview SW deposit 20 km west of Contact Lake deposit, will be able to make use of the infrastructure at the old Cameco site. A 2016 study from Comstock Metals Ltd, from whom Mas Gold acquired the deposit in January of 2022, shows an indicated resource of 158,000 ounces and indicated resource of 270,000 ounces using cut-off grade at half a gram per tonne.

Production in this hub and spoke set-up is to begin in 4-5 years. Part of MAS Gold's collective excitement with their plan is the ability to reinvest operational profits into further exploration at these sites. Mr. Engdahl noted the cost advantages to be realized with their strategy, with the ability to explore while underground.

With global instability driving up the price of gold-- dramatically-- compared to the lows in 1997, new projects in the La Ronge Gold belt are making much more sense economically, especially with the high grades of materials being seen in exploration results.

The company sees this new landscape as a long-term opportunity for a major gold play in Saskatchewan, and when combined with interest from Kitsaki Management, the company hopes to be working in the area for many years. Economic conditions support moving forward with the 'hub-and-spoke' model and the critically important engagement and growing partnership with local firm, Kitsaki Management, are all promising as well.

MAS Gold has seen indications that the deposits are of a high enough grade that the gold can be extracted primarily through an environmentally friendly gravity separation, in which the rock is crushed and gold separated with gravity, providing a roughly 85% yield. This 'green' method means waste rock can

simply be returned underground and also used as pit fill. For the remaining 15%, MAS gold continues to study ways to extract with much lower impact. Environmentally sound practices for operating, exploring, and extracting combine in overall enthusiasm about moving plans forward with the La Ronge First Nation, in the La Ronge Gold Belt.

- <https://www.saskatchewan.ca/business/investment-and-economic-development/key-economic-sectors/minerals#:~:text=In%202021%2C%20the%20value%20of,of%20%24263%20million%20in%202022>
- <https://www.mininghalloffame.ca/tag/ron-netolitzky>
- <https://www.masgoldcorp.com/properties/>
- "CanNorth Celebrates 25 years" Image from <https://kitsaki.com/2023/01/03/cannorth-celebrates-25-years/>
- "La Ronge Gold Belt Context in North America" from <https://www.masgoldcorp.com/wp-content/uploads/2022/06/la-ronge-gold-belt.jpg>

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AVALON ADVANCED MATERIALS PARTNERS WITH INTERNATIONAL INDUSTRY LEADERS TO BUILD A DOMESTIC LITHIUM BATTERY MATERIALS SUPPLY CHAIN

By Amanda Graff

Avalon Advanced Materials Inc. (TSX:AVL) is a Canadian mineral development company that specializes in sustainably producing materials to support the burgeoning clean technology market, providing investors with exposure to lithium, tin and indium, as well as rare earth elements. The company is currently developing its Separation Rapids Lithium project while continuing to advance its 100%-owned Lilypad Cesium-Tantalum-Lithium project, both located in Ontario.

Avalon recently secured a \$1.95 million private placement to fund a winter deep drilling program at Separation Rapids where minimal drilling has been carried out on the primary lithium pegmatite resource known as the Big Whopper. Open for expansion below a depth of 250 metres, deeper drilling will assess the resource's ultimate size potential, and drilling is also planned for the new Snowbank lithium pegmatite discovery.

With a vision that extends beyond supplying critical minerals and rare earth elements to meet growing global demand, Avalon is building an end-to-end lithium battery materials supply chain in Northern Ontario. The company has selected a location to establish a battery materials processing facility in Thunder Bay which offers proximity to an abundance of lithium resources and excellent transportation infrastructure, allowing the facility to strategically serve both domestic and international markets. Initially, the facility will be supplied with mineral concentrates derived from Separation Rapids, and eventually from other aspiring lithium minerals producers.

The development of a domestic battery materials supply chain will meet the

needs of future electric vehicle (EV) and lithium-ion battery manufacturers within the province and beyond while providing significant economic growth potential for Northwestern Ontario and First Nations communities. The supply chain will empower local communities to take advantage of lithium resources in their traditional territories and produce lithium mineral concentrates for purchase by Avalon.

"The City of Thunder Bay has been very supportive of our aspirations and recognizes the need for a new industry that will stimulate the local economy and bring a wealth of opportunities to the region," said Don Bubar, President & CEO, Avalon Advanced Materials. "Fortunately, this region is replete with lithium pegmatite resources.

The next steps toward production will involve establishing the mid-stream processing capacity to produce lithium hydroxide at a location near the resources with excellent transportation infrastructure. This will encourage more battery and EV manufacturers to establish production capacity in Ontario."

PARTNERING WITH GLOBAL LEADERS TO SOLIDIFY A LOCAL BATTERY MATERIALS SUPPLY CHAIN

Avalon recently announced a major development related to the establishment of the Thunder Bay battery materials facility. The company signed a memorandum of understanding (MOU) with LG Energy



Solution (LGES) to supply 50% of its planned initial lithium hydroxide production from the facility, with the potential to increase production as demand grows. LGES is a South Korea-based leading global manufacturer of lithium-ion batteries for EVs and energy storage systems.

The MOU was signed while South Korea's President, Yoon Suk Yeol, visited Canada at a ceremony supported by the Korea Mine Rehabilitation and Mineral Resources Corporation (KOMIR), Natural Resources Canada (NRCAN), and other partners. The MOU builds on growing Canada-South Korea bilateral economic ties while supporting clean energy and foreign direct investment objectives.

"This agreement significantly advances our vision to develop a sustainable and secure domestic battery materials supply chain," said Don Bubar. "Northern Ontario's rich endowment of critical minerals strategically positions us to develop full supply chains and take advantage of demand in the

advanced technology manufacturing sector of the economy. These supply chains will vastly expand Ontario's economy and provide many remote First Nations communities with new economic development opportunities."

In addition to the partnership with LGES, Avalon is currently in discussions with another global company that has expressed a keen interest in supporting the development of the regional battery materials supply chain. "This global company has an existing relationship with LGES, so it's very encouraging," said Don Bubar. "We envision that they will have a major influence on the success of our initiatives, and we look forward to releasing more information very soon."

Avalon's initiatives are bolstered by Ontario's first-ever critical minerals strategy that prioritizes local electric vehicle supply chains. The strategy is a five-year roadmap to better connect mines in the north with the manufacturing sector in the south, focusing on Ontario-based electric vehicle and battery manufacturing.

Furthermore, Canada recently unveiled its critical minerals strategy to increase the supply of responsibly sourced critical minerals while supporting the development of domestic and global value chains for the green and digital economy. The strategy's five core objectives include supporting economic growth, competitiveness, and job creation; promoting climate action and environmental protection; advancing reconciliation with Indigenous peoples; fostering diverse and inclusive workplaces and communities; and enhancing global security and partnerships with allies.

Canada is the only Western nation with abundant cobalt, graphite, lithium, and nickel, representing a generational opportunity for Canada's workers, the economy, and a net-zero future. According to the newly established national strategy, six critical minerals are considered essential for priority supply chains, advanced manufacturing, clean technologies, and zero-emission vehicles, of which lithium topped the list.

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"The government is starting to realize that producing non-traditional commodities like lithium and rare earth elements is a very different business than traditional mining," said Don Bubar. "It's now being recognized that regulations must be updated to reflect this fundamental difference. I've been talking about this for many years, and it's finally starting to resonate at a national level."

MAKING INROADS WITH THE GLASS-CERAMIC MARKET THROUGH A NEW MULTI-YEAR AGREEMENT

While focusing on the establishment of a domestic battery materials supply chain, Avalon is also making inroads with the flourishing glass-ceramic market. Separation Rapids hosts one of the world's few significant resources of the high-purity lithium aluminum silicate mineral petalite required within this industry. Due to a global shortage of petalite supply that stems from China gaining control of traditional petalite supply sources in Zimbabwe, considerable interest exists from major international glass-ceramic manufacturers across Europe and Asia.

A few short months ago, Avalon announced that it entered into a multi-year off-take agreement with a major international glass-ceramic manufacturer that outlines a firm commitment to purchase petalite concentrates produced at Separation Rapids.

"This is one of many global companies that are knocking on our door and demanding supply," said Don Bubar. "There currently exists a minimal supply of the high-purity lithium aluminosilicate mineral petalite which is the dominant lithium mineral in our resource. This petalite is used to introduce lithium into the batch formulation for high-strength glass-ceramic products. We have an ideal opportunity to serve this growing market as we get the lithium battery materials processing facility up and running."

The next step involves processing the 5,000-tonne bulk sample collected from Separation Rapids in 2021 to produce trial quantities of the petalite product for the many end-users that have expressed interest. While Avalon establishes the Dense Media Separation (DMS) processing facility on the property to begin producing these trial quantities, the company has access to an alternative process facility. This will accelerate the process work to create the large product samples requested by the off-taker and other end-users.

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“The key first step in providing petalite mineral concentrates to end users is to produce trial quantities so they can confirm that it will meet their requirements,” said Don Bubar. “Based on this, our primary objective for 2023 is to get the DMS processing facility up and running to start producing those trial quantities as we simultaneously kick off construction of the Thunder Bay lithium battery materials refinery.”

Work required to establish the DMS has been undertaken by SOW Construction Limited Partnership, a joint venture between Moncrief Construction Limited, a large Kenora-based construction contractor, and Wabaseemoong Independent Nations (WIN), in whose traditional territory the project is located.

The name of the joint venture is derived from the three First Nations that comprise Wabaseemoong Independent Nations – Swan Lake, One Man Lake, and Whitedog. The joint venture mandate is to work with WIN to offer construction services and employment opportunities

within their Traditional Land Use Area. Avalon first signed a memorandum of understanding with WIN in 1999 that was later renewed in 2013. WIN leadership continues to support the development of Separation Rapids, and Avalon encourages WIN’s direct participation in project development through numerous opportunities.

Economic opportunities for First Nations communities are also being generated by Avalon’s Lilypad-Cesium-Tantalum-Lithium project. Located on the traditional territory of the Eabametoong First Nation (EFN), the project is anticipated to become a significant new producer of the rare cesium mineral pollucite, in addition to tantalum and lithium.

Cesium carbonate is in very short supply and is currently attracting prices as high as \$5,000 per kilogram. Avalon plans to begin with a small-scale production of pollucite concentrates that will be flown from Fort Hope to Thunder Bay for further processing, creating a near-term economic development opportunity for the EFN. There’s also

a future opportunity for the Lilypad project to supply Avalon’s battery materials processing facility alongside Separation Rapids, which would require building a separate circuit to process pollucite concentrates.

Don Bubar commented:
“Sustainable mineral development initiatives related to critical minerals for clean technology have inspired us to look at new process technologies that will make our projects more cost efficient and greatly reduce environmental impacts while adding to shareholder value and generating significant benefits for local First Nations communities.”

To learn more about Avalon Advanced Materials Inc., please visit: www.avalonadvancedmaterials.com



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Iberian Pyrite Belt, Southern Spain
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Toral Project

Leon Province, Northern Spain
Zinc, Lead, Silver

Zancudo Project

Titiribi Mining District, Colombia
Gold, Silver, Zinc, Lead



TSXV: DSLV | OTCQB: DNRSF

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CREATING A DOMESTIC SUPPLY OF THE CRITICAL METALS THAT WILL FUEL OUR FUTURE A GREAT COMPANY TO FOLLOW... WITH LIMITED DOWNSIDE RISK

By Amanda Graff

Clean Air Metals (TSX-V: AIR) (OTCQB: CLRMF) (FRA: CKU) is a Canadian-based platinum and palladium exploration company focused on the sustainable development of platinum-group metals, copper, and nickel in Thunder Bay, Ontario. The company's flagship asset is the 100% owned, high-grade Thunder Bay North (TBN) project located near the Lac des Iles Mine owned by Impala Platinum.

The TBN project hosts the Current and Escape deposits, which form the basis of a robust preliminary economic assessment (PEA) that was filed in January of last year, yielding a pre-tax internal rate of return (IRR) of 31% and a post-tax IRR of 25%, based on initial capital of C\$367 million. The company is currently embarking on exploration and development prefeasibility studies for a low-carbon, all-electric mining operation over a 10-year mine life.

"The drilling we've done to date points to a 10-year life of mine project with a net asset value of C\$425 million, reflecting fully discounted cash flows over the life of mine period," said Abraham Drost,

CEO, Clean Air Metals. "The TBN project hosts a high-grade system unique in Canada, with platinum and palladium occurring in a one-to-one ratio. This provides our company with perfect optionality regardless of which way the markets go, and we've seen that values can change quite rapidly. Between 2016-2020, palladium prices soared from US\$700 - \$2,900."

Clean Air Metals' potential to produce a substantial domestic supply of critical metals was recently recognized by publicly-traded royalty company Triple Flag Precious Metals Corporation. On December 19, 2022, the company announced the closing of the first tranche of a C\$15 million royalty financing agreement with Triple Flag Precious Metals Corp. The Agreement features a 2.5% net smelter returns (NSR) mining royalty for all critical mineral products produced at the TBN project.

The second tranche, consisting of C\$5 million, will be paid on or before 110 days from the effective date of the royalty agreement. This will allow time for due diligence and for Rio Tinto Exploration Canada (RTEC) to decide

whether or not to sell its 1% NSR royalty on the project's Escape claims to Clean Air Metals for C\$2 million. RTEC also has an alternative option to sell its 1% NSR to Clean Air Metals for C\$3.5 million at a future date tied to feasibility study results, or to not sell at all.

"Triple Flag is a publicly-traded royalty company on the TSX that is also a majority-owned subsidiary of a large private equity fund in the U.S., so needless to say, they did their due diligence when investing in this project," said Abraham Drost. "To put the significance of this investment in perspective, we originally paid \$15 million for 100% ownership of the project two and a half years ago. What we've managed to put together has resulted in a royalty investment of the same amount for a 2.5% NSR in the project."

He added, "a royalty financing is an investment in production because Triple Flag doesn't get paid back unless we produce. It's safe to say that we've proven concept of a potentially viable mining operation at the TBN project."

A UNIQUE CRITICAL METALS ASSET WITH SIGNIFICANT UPSIDE POTENTIAL

Ideally situated 50kms northeast of the City of Thunder Bay, the TBN project benefits from proximity to excellent infrastructure, including a paved provincial highway and a 235kV power



line. The project has been subject to extensive exploration by previous owners, totalling nearly C\$100 million. Building on this, Clean Air Metals and predecessors have drilled roughly 1,000 holes for a total of 260 kms of drilling across the Current and Escape deposits.

The project hosts a total Indicated Resource of 14,553,324 tonnes at an average grade of 8.12 g/t PtEq containing 3,798,581 ounces PtEq and a total Inferred Resource of 8,077,595 tonnes at an average grade of 4.07 g/t PtEq containing 1,057,646 ounces PtEq. Total mined metal production over a 10-year mine life is expected to be 629 k oz platinum, 618 k oz palladium, 111 M pounds copper, 57 M pounds nickel, 38 k oz gold, and 850 k oz silver, with 65.2% of the total mineral production occurring in the first five years.

Assay results from extensive drilling in 2022 and 2021 have been exceptional and fully support the prefeasibility study mine design. Considerable upside potential for massive sulphides outside the PEA production area remains along the fault system feeder zone that ties the project's

two major deposits together. The company will carry out a drill program on these targets over the next several months.

"We'll be homing in on very promising

electromagnetic geophysical targets," explained Abraham Drost. "We're looking for the source of high-value massive sulphide intercepts that we intersected previously at our two deposits which



Thunder Bay North CRITICAL MINERALS PROJECT

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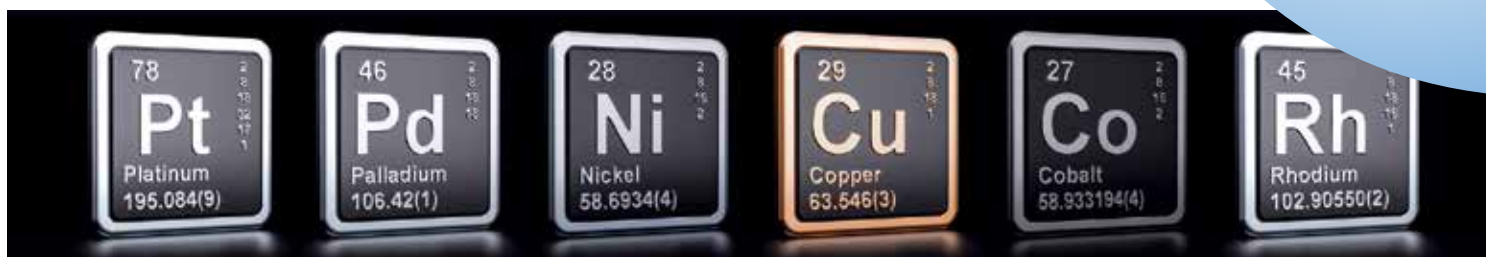


**CLEAN AIR
METALS INC**

TSXV AIR
OTCQB CLRMF
FRA CKU

Current & Escape Deposits – Pt-Pd-Cu-Ni Magma Conduit Deposits

- Total Indicated Resource at 3.7 Million oz PtEq
- Utilizing Norilsk-style Magma Conduit Model for Exploration Based on Structure, Stratigraphy and Presence of Massive Sulphides
- 4E PGM's (Pt+Pd+Rh+Au) Averaging 4g/t at Lower Current and Bridge Zone
- NPV \$425 million, IRR 31% (25% post-tax)
- Well Financed – \$15 million royalty facility with Triple Flag Precious Metals Corp, majority owned by Elliot Management, New York
- Social License to Explore **Written Exploration Agreement with 3 First Nation Communities**



returned exceptional grades. We believe there are larger source areas for this type of material, and this will be our focus in the next exploration stage.”

With a plan to achieve provable and probable (2P) mineable reserves by the end of the year, Clean Air Metals will also be embarking on a resource update which will include the additional 55,000 metres of drilling on the Escape deposit resource that was drilled in 2021/22.

A MAJOR ROLE IN THE GLOBAL CLEAN ENERGY TRANSITION

In a challenging market environment, Clean Air Metals has a few aces up its sleeve. It's in the fortunate position of holding a peer-leading, high-grade platinum-palladium-copper-nickel asset with relatively low construction capital intensity that is located close to robust infrastructure. Furthermore, few commodities offer the same demand growth potential as platinum due to its role in the hydrogen economy. Platinum-based proton exchange membrane (PEM) technologies will play a major role in the global clean energy transition, and hydrogen-related demand for platinum is expected to grow substantially by 2035.

“As the world moves toward cleaner forms of transportation power such as battery

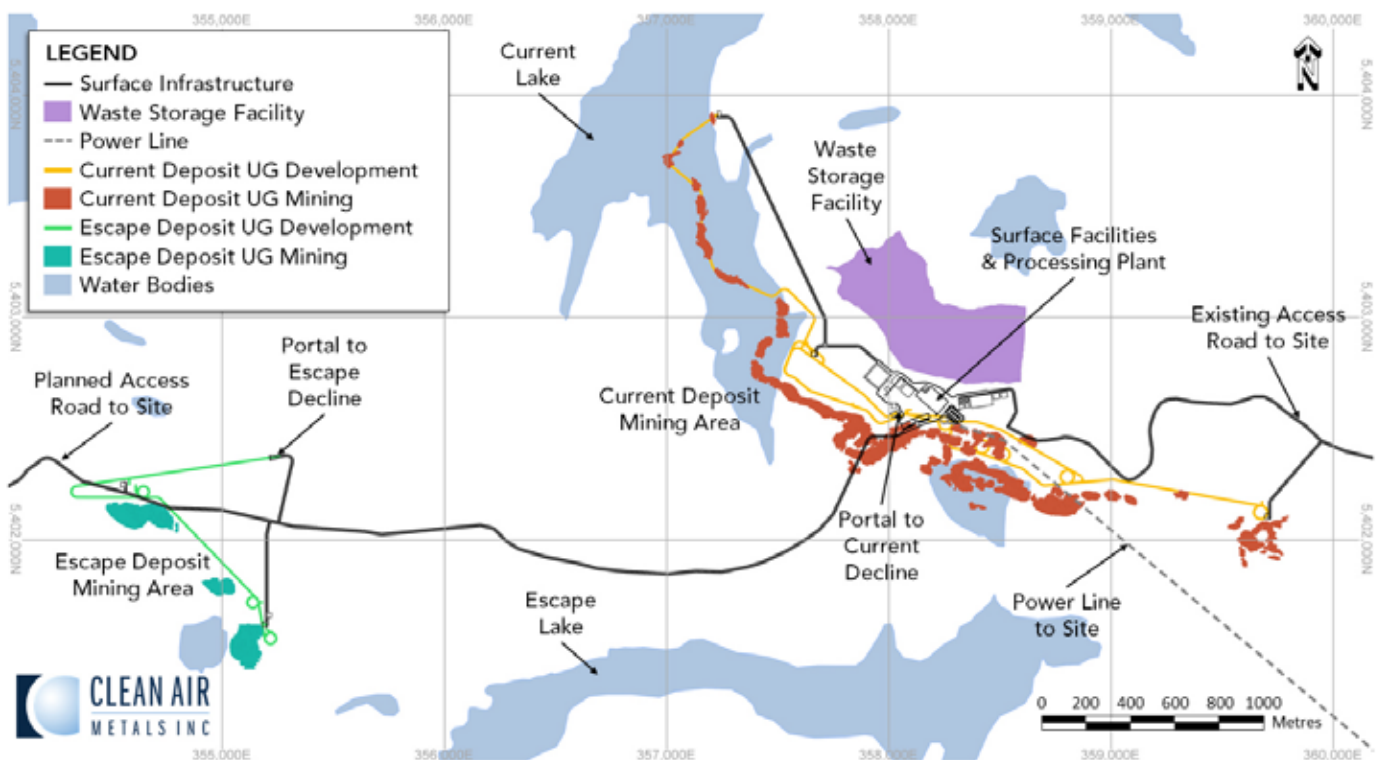
electric and hybrid fuel cell technology, platinum becomes increasingly more important,” said Abraham Drost. “Only platinum has the level of efficiency required to produce green hydrogen from the electrolysis of water and in turn, convert hydrogen and oxygen to electricity and water out the tailpipe in a fuel cell. This technology is very exciting; we now have fuel cells about the size of diesel engines in trucks that can generate 600 horse power with a range that is several times that of an electric vehicle.”

He added, “hydrogen fuel cells will be a powerful component of the clean energy transition, particularly around bulk transportation, including transport trucks, planes, trains, and ships. Hydrogen can be concentrated in ammonia, making it possible to power your way around the planet using carbon-free energy systems. For every one of these fuel cell systems, you need platinum.”

Governments at both the provincial and federal levels in Canada and through the Biden Climate Initiative in the U.S. are increasingly becoming aware that securing value chains of climate-safe energy technologies can boost economic competitiveness, energy independence, and national security. The most recently updated U.S. Geological Survey's list of 50

mineral commodities deemed critical to the economy and national security features TBN project commodities including platinum-group metals, copper and nickel. This demonstrates their increasing importance as raw materials in technologies that support the clean energy transition.

“Platinum-group metals, including copper and nickel, are on the critical minerals list both at provincial and federal levels,” said Abraham Drost. “As such, from a government perspective, incentives are in place to ensure a rapid permitting process for the type of deposit hosted at the TBN project. Considering that China controls 70% of the worldwide supply chain of battery metals and critical minerals for the clean energy transition, there is a logical interest in stimulating the domestic supply chain.”



DEVELOPING NATURAL RESOURCES FOR THE BENEFIT OF PRESENT AND FUTURE GENERATIONS

Clean Air Metals' initiatives are underscored by a core commitment to sustainability and the company's social license to operate. Sustainability objectives seek to minimize the project's environmental footprint in such a way that preserves the integrity of the project site for future generations. The company is also deeply committed to actively engaging with local First Nations and Métis communities to establish constructive, participatory relationships.

The company has been involved in several activities that have greatly benefited the local community. These activities have included participating in a mining industry-led \$80,000 donation to Roots to Harvest, a grassroots organization dedicated to ensuring that everyone throughout the Thunder Bay community has access to nutritious food.

Clean Air Metals also contributed towards the Fort William First Nation as part of a community clean-up program, and donated to the Elevate NW homeless rescue organization. The company jointly participated with the National Science and Engineering Research Council (NSERC) to contribute one-third of a \$450,000 cash investment over three years to Lakehead University

to promote the geological study of the Thunder Bay region and the TBN property in particular.

Since the company's exploration and development activities occur across the traditional territories of several First Nations communities, Clean Air Metals was pleased to announce the signing of an Exploration Agreement



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- Plant Design and Equipment Procurement will also be pursued following the Feasibility Study
 - EIS Permit approved in 7 months
 - Patent Filed for Novel Process for Bioleaching Pyrrhotite Tailings Using Natural Bacteria Holds Zero-Carbon Potential for Green Steel and EV Battery Metal Applications

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with the Fort William First Nation, the Red Rock Indian Band, and the Biinjitiwaabik Zaaging Anishinaabek in April 2022. The Agreement cemented a framework for a mutually beneficial relationship between the participants that had previously been affirmed

through a Memorandum of Agreement (MOA) signed in 2021.

Based on these agreements, collaborative and respectful consultation will be facilitated to identify the project's potential impacts on First Nations

interests and rights, design appropriate measures to mitigate and avoid any adverse effects, and adopt an approach that enhances positive impacts and benefits for all participants. Once the technical feasibility study phase of the project commences, the participants

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will negotiate a Long-Term Relationship Agreement (LTRA), otherwise known as an Impact Benefit Agreement (IBA).

Regarding the Exploration Agreement, Chief of the Red Rock Indian Band, Marcus Hardy, was quoted as saying, “the

participating communities appreciate the commitment to equity, diversity, and inclusion that Clean Air Metals continues to demonstrate. Sustainable development of the critical minerals platinum, palladium, copper, and nickel at the Thunder Bay North Project will allow our youth to address climate change and participate meaningfully in the global transition to cleaner forms of energy.”

Abraham Drost commented, “the company pledges integrity and meaningful consultation and accommodation with affected First Nations communities and commends the participating communities for their vision around sustainable regional economic development.”

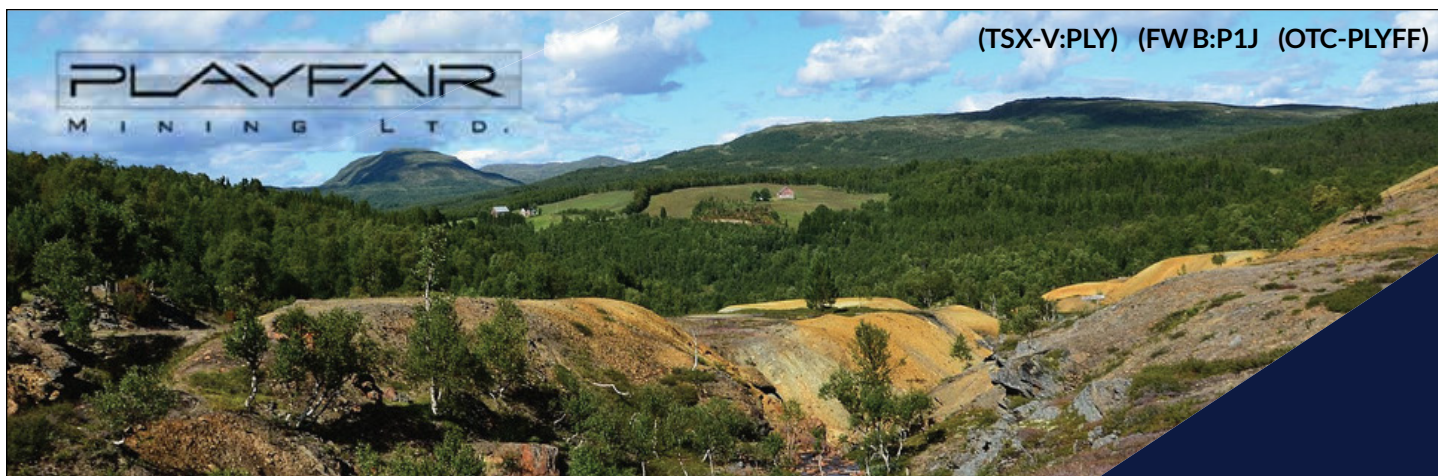
In cementing these strong relationships with First Nations stakeholders,

Abraham Drost credits the work of Joe Moses, principal of JM Development Solutions, who was hired on as a lead consultant for Clean Air Metals. Joe is currently the CEO of the Pic-Mobert First Nation and in 2015, was sworn in as the first Indigenous Chair of the Board of the Thunder Bay Chamber of Commerce.

“Joe had strong relationships with many surrounding First Nations communities, and his leadership was instrumental in reaching the agreements with these communities,” commented Abraham Drost.

Drost added, “at the conclusion of a community open house to meet the Clean Air team, an Elder of the Red Rock Indian Band commented that the feeling in the room was ‘akin to family getting together’ and that was very powerful. We’re looking forward to developing a sustainable critical metals mining operation here in Northern Ontario with our Indigenous partners.”

For more information, please visit: <https://www.cleanairmetals.ca>



(TSX-V:PLY) (FWB:P1J) (OTC:PLYFF)

RKV PROJECT- COPPER NICKEL COBALT IN SOUTH CENTRAL NORWAY

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BRUNSWICK EXPLORATION - CANADA'S LARGEST LITHIUM GRASSROOT EXPLORATION PROGRAM

By Marc Challande

Brunswick Exploration (TSX-V: BRW) is an exploration company focused on arguably the most important critical minerals in the world, lithium. The company is among the few aggressively conducting grassroots exploration for lithium in Canada using state-of-the-art exploration technology to rapidly identify high-potential targets. Brunswick Exploration also gathers a solid share structure and a solid balance sheet thanks to a recent \$5M financing.

LITHIUM IS MORE THAN JUST A CRITICAL MATERIAL

The importance of lithium to decarbonization will remain strong in the short and medium-term future. Several governments have announced massive efforts to transition from fossil fuel vehicles to electric vehicles ("EV") by enacting laws which will seek to stop the sale of new fossil fuel vehicles, with some deadlines as early as 2030. With strong support, the industry will grow at an extremely rapid pace and lithium will be in high demand. There is simply not enough lithium to meet the forecasted demand. Annual lithium demand is

projected to reach roughly 1.5M metric tons of lithium carbonate equivalent by 2025 and over 3M tons by 2030, meaning the lithium demand should outpace the supply through 2025 (GlobalX research). Furthermore, it is possible more lithium could be needed on a monthly basis in 2040 than all of the lithium mined in 2021. EVs will represent a significant part of the lithium demand, with a prediction of 84% of all the lithium demand in 2030.

BRUNSWICK EXPLORATION

Brunswick Exploration (TSXV: BRW) is an early-stage exploration company looking for metals needed for decarbonization and the transition to renewable energy. The company has several projects located in Ontario, Quebec, New Brunswick, and Nova Scotia. Brunswick is one of the few companies to do grassroots exploration to find new lithium discoveries, providing a high-reward high risk endeavor. Brunswick Exploration is also a new-type-of-era mining company focused on ESG concerns. Each step affected by the company aims to protect and raise environmental awareness to ensure the company minimizes its impact on properties.



Amongst the highlights in the portfolio is the Hearst project. Located in Ontario, the project comprises 1,418 cells and 226 claim blocks covering 29,805 hectares of land. Situated 15 km south of Hearst, local infrastructure is plentiful with forestry roads and power neighboring the project. A drill program is scheduled to start in H1 2023, initially focused on the decoy pegmatite. Further work will focus



on several newly identified evolved pegmatites from the limited 2022 prospecting campaign.

Also exciting are the company's assets in Quebec including a project optioned immediately adjacent to Patriot Battery Metals' Corvette discovery. Brunswick Exploration signed an option agreement to acquire a maximum of 85% interest in potential Lithium Cesium Tantalum mineralization of the Mythril and Elrond properties located in the James Bay region of Quebec. Furthermore, Brunswick acquired a 90% interest in the PLEX project, which covers a portion of the La Grande shear zone, the same shear zone which is host to the Corvette project. The latest acquired area covers 19,175 hectares for a total of 375 claims. The company expects to launch a regional prospecting campaign in late Q2 2023 to explore the PLEX and Mythril projects. Furthermore, its James Bay portfolio of properties includes over 250 untested S-type pegmatites with a minimum of 600 meters of strike length which will also be tested later this summer.

SHARE STRUCTURE/FINANCIALS

Brunswick Exploration benefits from a solid share structure. The available float is limited to only 37% of the structure. This can prove interesting as the stock may fluctuate more easily when combined with substantial volume. The balance is held among insiders (35%), various family offices (18%), and the Osisko Group (10%). The excellent share structure counterbalances the number of outstanding shares, which some could find a little bit high. BRW issued 160.5M shares for 257M fully diluted.

“Brunswick Exploration will be well positioned to launch one of Canada's largest lithium grassroots exploration program in 2023 targeting a multitude of untested pegmatites in several provinces.”

Mr. Killian Charles, President and CEO of BRW

Regarding the stock price, the performance gave its shareholders a robust return on investment; Brunswick Exploration's increased in value to top a 200% gain. Comparatively the TSXV down to 35% YoY. Needless to mention that the stock is one of the very few to outperform the market. The stock price's 52-week range varies from \$0.12 to \$0.50.

BOTTOM LINE

Brunswick Exploration (TSXV: BRW) is hopefully part of the solution to help meet rising demand for lithium as the world seeks to achieve its decarbonization objectives. BRW continues to aggressively stake multiple opportunities in Canada and combined with its flagship projects, Brunswick Exploration could hold substantial assets as it advances through the exploration phases potentially delivering a significant return on investment to shareholders. Lithium price is expected to increase over the coming decades, and the company will benefit from this. All the signals are green to invest in Brunswick Exploration.



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(TSX.V: BRW)

AMEX EXPLORATION CONTINUES TO DISCOVER HIGH-GRADE GOLD ZONES

By Marc Chalande

Amex Exploration (TSX-V: AMX), (OTCQX: AMXEF, FRA: MXO), has made significant gold discoveries on its 100% owned high-grade Perron Gold Project located in the mining-friendly jurisdiction of Quebec, Canada. The project is well-served by existing infrastructure and in close proximity to a number of major gold producers. Since January 2019, Amex has intersected significant gold mineralization in multiple gold zones and discovered copper-rich VMS zones. Amex attained international recognition in 2022, receiving the Exploration Company of the Year Award at Mines and Money in London and the Ecologo certification.

COMPANY OVERVIEW

Amex Exploration is an exploration company focused on its 100% owned Perron Project (4,650 ha).

Located ~110 km from Rouyn-Noranda, just outside the town of Normétal, Québec, the Perron project hosts one of Canada's most extensive drilling campaigns aimed at discovering and defining gold and VMS deposits. To date, Amex has drilled 375,000 m on the

property, has defined a gold corridor with a strike length of four kilometres. Multiple drills are turning to further define known gold zones and make new discoveries at Perron.

The Eastern Gold Zone (EGZ)--home of the High-Grade Gold Zone (HGZ) and the Denise Zone--delivered high-grade gold results where 150+ holes returned more significant than 10 g/t Au in the EGZ alone. One of the first holes drilled during the 2019 drill program returned an astonishing 393.33 g/t Au over 1.70m at a vertical depth of 170m at HGZ. The HGZ has consistently delivered ultra high grade results that are comparable to the discovery hole since 2019. The HGZ has quickly become one of the highest-grade, consistent gold zones in Canada. Amex considers the HGZ to be an underground mining target. Less than 50 metres away is the Denise Zone which is a broader disseminated gold target. The Denise Zone has been traced along strike length for at least 1 km. On May 9, 2022, Amex reported Hole PE-22-510 intersecting 30.90 m of 11.57 g/t Au which is one of the best intersections drilled to date in the Denise Zone. Denise is a bulk tonnage target for Amex.

At the end of 2022, Amex announced a brand new discovery the Team Zone

which has produced some significant drill results. Visible gold was identified in 17 out of the 23 holes targeting the new Team Zone. The following highlights show the potential of this new zone:

- PE-22-548: 6.75 g/t Au over 14.50 m at a vertical depth of ~180 m
 - including 26.34 g/t Au over 1.50 m
 - and 32.60 g/t Au over 1.50 m
 - and: 1.74 g/t Au over 17.0 m at a vertical depth of ~250 m
- PE-22-556: 19.04 g/t Au over 2.25 m at a vertical depth of ~20 m

“The fact that we have seen multiple occurrences of visible gold in the majority of holes targeting this zone is fascinating. This is also the most significant discovery to date along the northern limb of the Beaupre rhyolite. The Team Zone has become a priority for Amex, and we will begin drilling it aggressively through the winter.”



Jacques Trottier, Executive Chairman of Amex.

In addition to its gold discoveries, the company also discovered a high-grade copper-rich volcanogenic massive sulphide (VMS) zone. The QF Zone occurs along the Normétal Mine Horizon which is a kilometric tuffaceous unit that hosts the nearby past-producing Normétal Mine. Promising initial drill results include:

- 2.40% Cu, 0.72% Zn, 0.27 g/t Au and 22.15 g/t Ag over 7.80 m (core length), including 3.92% Cu, 1.20% Zn, 0.39 g/t Au and 35.99 g/t Ag over 4.40 m (core length).

- Follow up drilling confirmed the initial discovery with similar grades and widths, indicating the presence of a substantial VMS system and confirming both the width and grade of the discovery hole.
- PEX-21-083 (~65 m deeper than the discovery hole) returned 1.93% Cu, 0.15% Zn, 0.28 g/t Au, and 14.0 g/t Ag over 8.0 m, including a high-grade core of 3.40% Cu, 0.25% Zn, 0.48 g/t Au, and 24.31 g/t Ag over 4.55 m

Amex will conduct additional borehole electromagnetic (EM) geophysics to further define the mineralized system.

INTERNATIONAL RECOGNITION

In 2022, Amex Exploration proudly accepted the Exploration Company of the Year Award at Mines and Money in London. This award acknowledges a company and its leadership team for a significant new discovery made, and/or advancement to a meaningful status.

ECOLOGO CERTIFICATION

Responsible exploration is one of Amex's prime considerations. In 2022, the company received the internationally recognized UL 2723 ECOLOGO® Certification for Mineral Exploration Companies, for successfully applying the best social, environmental, and economic practices throughout the project.

SHARE STRUCTURE/ FINANCIALS

- Solid balance sheet - drilling program funded to end of 2023
- \$32M in cash and cash equivalents with no debt (2022 Q3 financial statements)
- 07.8M shares fully diluted, and no warrants (as of January 2023)
- Largest strategic shareholder is Eric Sprott at over 12%
- Tight capital structure, benefiting significantly from Federal and

Quebec tax incentives and charity flow through financing structures

- Traded in Canada (TSXV: AMX), the USA (OTCQX:AMXEF), and Germany (FRA:MX0) 52-week low of \$1.45 and high of \$3.36

BOTTOM LINE

Amex Exploration's (TSXV: AMX, OTCQX: AMXEF, FRA:MX0) flagship Perron project is a large 100% owned land position in mining friendly, low geopolitical risk Quebec, Canada. The regional geology and drilling suggest there is an opportunity to host multiple ore deposits of various types. With multiple new gold and VMS discoveries over the past three years, Amex continues to deliver significant high-grade gold and VMS results. The company is fully funded for the 2023 drilling campaign. Best in Class, Amex has been recognized by its industry peers for its exploration skills and success to date.

Our analysis points to Amex as one of the most promising investments in this market.



Gold Stock to Watch:

TSX.V: AMX
OTCQX: AMXEF
FRA: MX0

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“PHAROAH JOE” – A REPORT CARD ON THE GREEN ECONOMY, CRITICAL METALS, ETC.

By Chris Temple – The National Investor

Those who have followed me know that I have been very derisive when it comes to President Joe Biden’s terrible dereliction of duty; NOT keeping Americans’ energy advantages he inherited. To boot, the president and his cohorts—even while pining for that utopian “Green Economy” of the future—have done a great deal to harm its rollout as well.

But circumstances and times change.

A lot of the global climate do-gooders, in fact, who recently delivered another relative dud of a COP27 meeting in Sharm el-Sheikh none the less seem to have had more of a reality check of late. Maybe—just maybe—proper economic, energy and policy planning and REALITY are going to become a part of the equation.

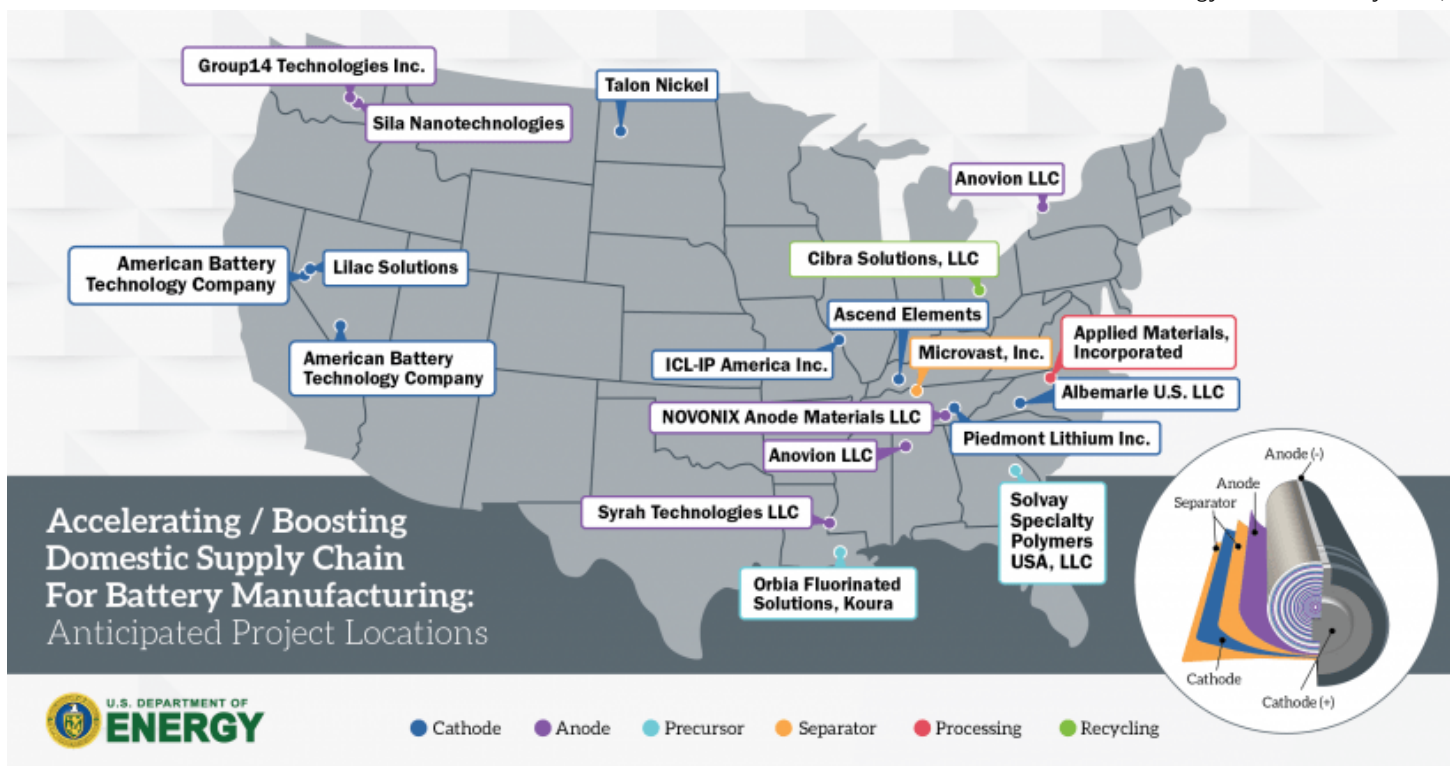
One of the most notable developments of late at COP27 you may already have heard about is that the policy wonks and others gathered have dropped their fuzzier and more utopian (and unrealistic) goals that the Green Economy is going to come easily *and without fossil fuels*. **Now, the goal**



is represented by a broad COP27 endorsement of “low emissions energy.” And as a post-confab report in *The Guardian* characterized it, “...That could mean many things, from wind and solar farms to nuclear reactors, and coal-fired power stations fitted with carbon capture and storage. It could also be interpreted to mean gas, which has lower emissions than coal, but is

still a major fossil fuel. Many countries at Cop27, particularly those from Africa with large reserves to exploit, came to Sharm el-Sheikh hoping to strike lucrative gas deals...”

And that all was anchored, in part, by a hypocritical and *really* unrealistic Europe (Germany this winter is getting a *third* of its energy needs met by coal)



getting its head out of its posterior region and endorsing both nuclear energy and natural gas.

So things are somewhat on the right track as far as a more realistic assessment of *everything* it will take to start lowering carbon emissions, etc. The question is thus, now, what governments are doing to put the pieces in place to DO all this; and with a necessary and increasingly critical eye toward doing so in ways that do not leave them vulnerable to the whims of others.

So I want to give a bit of an update on how things stand at the midpoint of the Biden Administration on “Pharaoh Joe’s” progress (or lack thereof) on all of America’s energy and future green energy needs and initiatives.

As I have previously discussed, there were some worthwhile provisions in both the so-called Inflation Reduction Act and Infrastructure-related measures passed in the U.S. and signed by Biden. Early last month I was in on a call hosted by the Department of Energy highlighting some of the

projects now being supported/funded: one of them owned by Piedmont Lithium (NASD-PLL), one of my best recommendations of the last few years.

At <https://www.youtube.com/watch?app=desktop&v=Th6JCftKpR8> you can watch the recording of that early December D.O.E. “Fireside chat” with E.V. industry and other leaders, including **Piedmont Lithium’s** C.E.O. Keith Phillips. Discussed among other things was the funding deal, etc. (see <https://wpln.org/post/tennessee-will-house-the-nations-largest-lithium-refining-plant-to-supply-evs/>) for Piedmont’s lithium processing plant in Etowah, Tennessee; one of several projects getting loans or grants from the government now to finally begin with a bit more earnest to build U.S.-centric supply chains of battery metals and the like.

I say “huzzah” to all this; but still need to remind one and all that what relatively little is being done, belatedly, is a pimple on a flea compared to what we need. Take, for one example, the inexcusably long time to do something as simple as allocate

the first \$75 million for America’s uranium reserve. That funding was authorized *long ago*; yet it took this long to *very modestly* begin the process of weaning America from foreign uranium (though it never takes as long to throw multiple billions multiple more times at that filthy comic/American stooge in Ukraine helping to prosecute our proxy war against Russia.)

That little real *action* to bolster what in the 1950’s was the envy of the world—our peaceful nuclear energy program—has been happening was reinforced recently by the announcement (see <https://www.channelchek.com/news-channel/russia-related-supply-issues-delay-gates-buffett-nuclear-plant> for a story on this) that **the target date to fire up TerraPower’s reactor in Wyoming has been postponed two more years to 2030.** This favorite project of Bill Gates and Warren Buffett needs HALEU; a type of enriched uranium that Russia has pretty nearly had the market cornered on for some time. Again, *belatedly*, Washington is looking into this; but things are going WAY too slow.



What Would Be the Best Indicator Mineral to Find a Gold Deposit?

5.4 Kilos of Placer Gold



HARD ROCK EXPLORATION

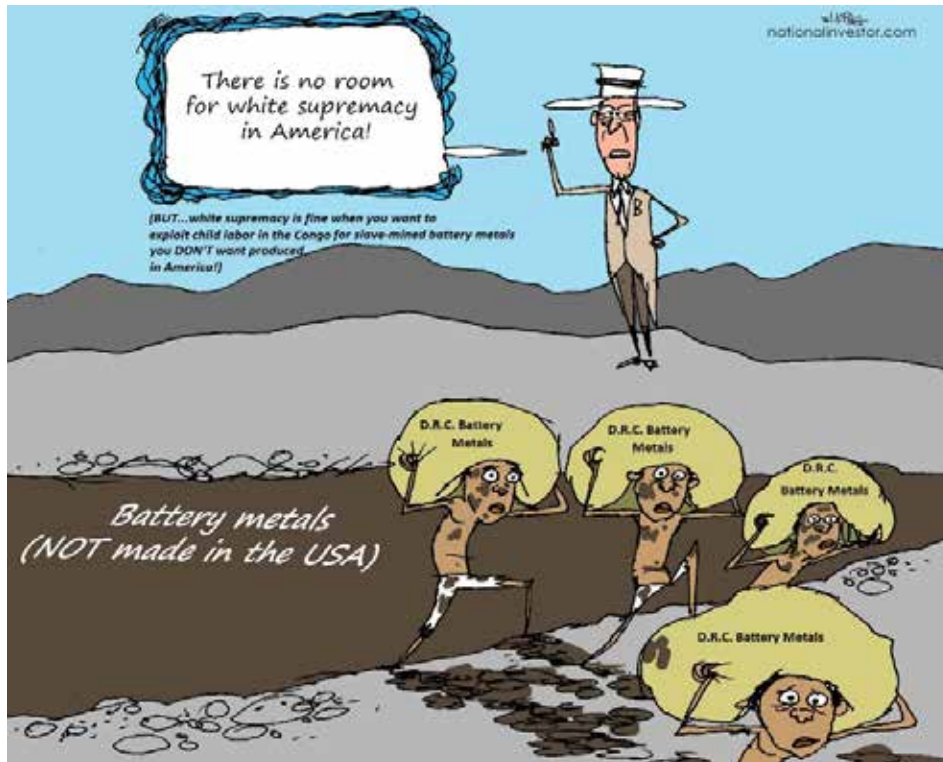
- Looking for the source of the rich placer gold at Wingdam
- Jagged-edged placer from paleochannel can indicate nearby source
- Parallel and mirror image geology to Osisko’s Cariboo Gold Project

PLACER RECOVERY

- 173.4 oz recovered from a single 24m long, 2.4m wide test crosscut
- 2023, initial 300m of paleochannel (100+ crosscuts)
- OMM has up to 15 km of potential paleochannel

See maps, photos and videos of placer recovery & exploration targets at ominecaminingandmetals.com
Contact the Company at info@ominecaminingandmetals.com

TSXV: OMM



With just a few exceptions as represented by Piedmont and a handful of others, the Biden Administration still is loathe to develop all that much

in the U.S., remaining of a mind that we can continue to compel what we want... when we want it...from others. Galling in this regard recently was Biden becoming

somewhat of a “Marse’ Joe”: deciding he’d rather have U.S. companies get minerals, battery metals, etc. from the Democratic Republic of the Congo; see <https://www.foxnews.com/politics/biden-turns-country-documented-child-labor-green-energy-mineral-supplies-its-egregious-in-case-you-missed-this-latest-hypocrisy>.

More overtly financing the exploiting of African *children* is OK in these people’s books, it seems; even though we have lots of cobalt, for example, right here in America (notably in Northeast Minnesota) that “Marse” Joe and his allies do NOT want mined.

It’s become quite clear that the Biden Administration is going to stick to its general game plan of *importing* most of what we need for infrastructure, our green energy needs and the like. This will benefit Canada, to be sure, several of whose provincial governments—and even the national government—are generally more supportive of building out E.V. supply chains. And it’s why the majority of my battery metals and similar exposure are of projects not located in the U.S., though I have a few.

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"We can't wait to give you our NEW Green economy! We just need to finish wrecking the old one first..."

A double-minded administration is unstable in all its ways, paraphrasing James 1:8. I have heard on multiple occasions in discussions with a few of our companies and others that, when you get down to the second or third layer in the Biden Administration, most everyone "gets" the situation.

And if they had *their* way, we'd be MUCH farther along by now. However, a half-senile president...a Treasury secretary who—as I have pointed out *many* times—is single-minded in her determination to wreck the old energy economy...and their various comrades have gummed up things a *lot*.

And we will be paying further for all this sooner rather than later.

Accepting his recent "support" at face value, Biden supposedly *does*, at least, want to see something such as Sen. Joe Manchin's (D-WV) permitting reform measure pass. Manchin's was one of a few recent attempts to speed up a multi-layered, archaic and very anti-development permitting process for extractive industries. Yet this ended up on the cutting room floor ahead of the recent budget bill monstrosity passage; see https://news.yahoo.com/senate-rejects-manchin-energy-permitting-233715073.html?fr=sycsrp_catchall.

In summation, Pharoah/Marse Joe gets a D-minus grade on all this through his first two years, saved from an F due to at least some little attention/money being spent where it needs to be domestically. Unless things speed up very quickly, we'll be even farther behind the rest of the world on energy, *energy independence* and all the rest at the end of Biden's term than we were when he started.



TSX.V: AZS | OTCQB: AZASF

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ARGO GOLD FINDS A “SWEET” SPOT IN THE ALBERTA OILFIELDS

By David O'Brien and Michael Fox

Environmentalists want you to believe that all oil from Alberta is “Dirty” oil. This is simply not true. Alberta have Conventional Light Oil, Heavy Oil – that has the consistency of molasses – and Oils Sands. The last one being of concern to environmentalists. The province of Alberta has significant Oil Sands resources in the north, the geographically larger portion of the Western Canada Sedimentary Basin that covers Alberta, Saskatchewan and SW Manitoba has an abundance of molasses Heavy Oil and Conventional Oil known as light oil or “Sweet Crude”.

Sweet Crude is highly efficient, leaving minimal residue in its refinement process while also being easy to distill and transport due to its low density. Refineries generally prefer sweet crude oil due to its low sulfur content and relatively high yields it produces of high-value products such as gasoline, diesel fuel, heating oil and jet fuel.

With some out of the box thinking by **Argo Gold (CSE:ARQ)** CEO Judy Baker seeking cashflows to fund its Ontario mining projects, the company began exploring some undervalued assets in the heart of Alberta's Sweet Crude region in February of 2022.

This search culminated in the acquisition of 2 light crude projects in the Nisku region to the east of Red Deer. In June 2022, Argo entered into agreements to earn 100% of the oil & gas mineral rights in 2 projects – Mikwan and North Fenn – subject to a royalty in exchange for one exploration drill hole at each project. The Nisku oil projects are seismically defined and are located



Oil Petroleum Pumpjack Alberta

within in a well-known producing area with lots of available surrounding infrastructure. Four additional well locations have been identified in the 2 project areas. Nisku capital costs are ~\$1 million per well, initial production is estimated to be 100 to 150 bbl/day and initial capital costs are expected to pay out in ~ 7 months. The estimated ultimate recovery (EUR) of the two initial wells at Mikwan and North Fenn is expected to be 275,000 bbl oil and 300,000 bbl oil respectively.

Argo wasn't done yet and in November, Argo entered into an agreement to participate in a horizontal Sparky Oil Well in the Lindbergh Area near Lloydminster, Alberta. Argo will pay the operator 50 per cent of the cost to drill, complete, and fully equip the well to earn a 37.5-per-cent interest.

Croverro Energy is an experienced operator in the Sparky formation and the oil well is expected to be initiated



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in mid Q1 2023. Argo's estimated oil yield is 90 bbl/day and initial capital costs - now estimated at only \$800,000 are expected to pay out in 6 months.

And later that same month, Argo entered into an agreement to acquire approximately 7500 hectares (18,000 acres) of Clearwater in the Nipisi area in Alberta. Argo Gold will pay \$725,000 to a private energy producer to acquire the interest in the lands by mid December 2022. The Clearwater is the leading oil production growth play in Canada as per the success of Tamarack Valley Energy. Nipisi area oil producer capital costs are ~\$1.5 million per well for ~180 bbl/day with a payback period of ~7 months and wells have an estimated ultimate recoverable resource (EUR) of ~250,000 bbls/well. Argo has conservatively identified locations for 50 oil wells across the Upper Clearwater and Lower Clearwater. Bluesky resource potential is significantly larger.

And to finish off a strong year of acquisition, Argo was rewarded with an approval from the Alberta Energy Regulator (AER) with a permit for General Eligibility for Energy under AER Directive 067 to hold and acquire energy licenses in the province of Alberta. This clears the way for Argo to become an Oil and Gas producer in Alberta.

We had to ask, "Why would a gold explorer become an Oil and Gas producer?"

Our dependence on oil and natural gas for our energy and transportation needs are not diminishing. Oil is still powering 90% of the vehicles on the road in North America. Natural Gas heats 60% of the homes and increasingly it is replacing coal as the fuel burned to generate electric power.

These factors, plus underinvestment in the sector, and the Russian Ukraine war have come together to raise energy prices. As China reopens from its Covid lockdowns it is anticipated to raise these high prices even further.

While energy prices have risen, similarly to the mining sector these prices haven't necessarily been passed on to the value of the projects so there is an opportunity "Buy Low" and capitalize on the high prices.

With the stars aligning in both sectors, Argo's success should be both "Sweet" and "Golden"

David O'Brien is the owner of Int'l Mining Research CENTRE which employs Media, Event and Online exposure, including eNews News Release Reprints & eNews 3rd-Party Articles. O'Brien also owns W.I.T. Marketing Writing, an Ad Agency, and has been contributing articles to TheProspectorNEWS.com, on demand. He owns no shares in the above companies.

DOBrien@InternationalMiningResearch.com



ARGO GOLD

ONTARIO GOLD AND ALBERTA BLACK GOLD

CSE: ARQ | OTCQB: ARBTf | XFRA / XSTU / XBER: A2ASDS

Contact: Judy Baker, CEO | Phone: (416) 786-7860 | Website: www.argogold.com | Email: jbaker@argogold.com

A REVIEW OF GLOBEX'S MODELS OF SUCCESS

A GREAT COMPANY TO FOLLOW... WITH LIMITED DOWNSIDE RISK

By David O'Brien

Int'l Mining Research CENTRE
& W.I.T. Marketing Communications

GLOBEX OPTION PARTNER ORFORD ADVANCES JOUTEL EXPLORATION

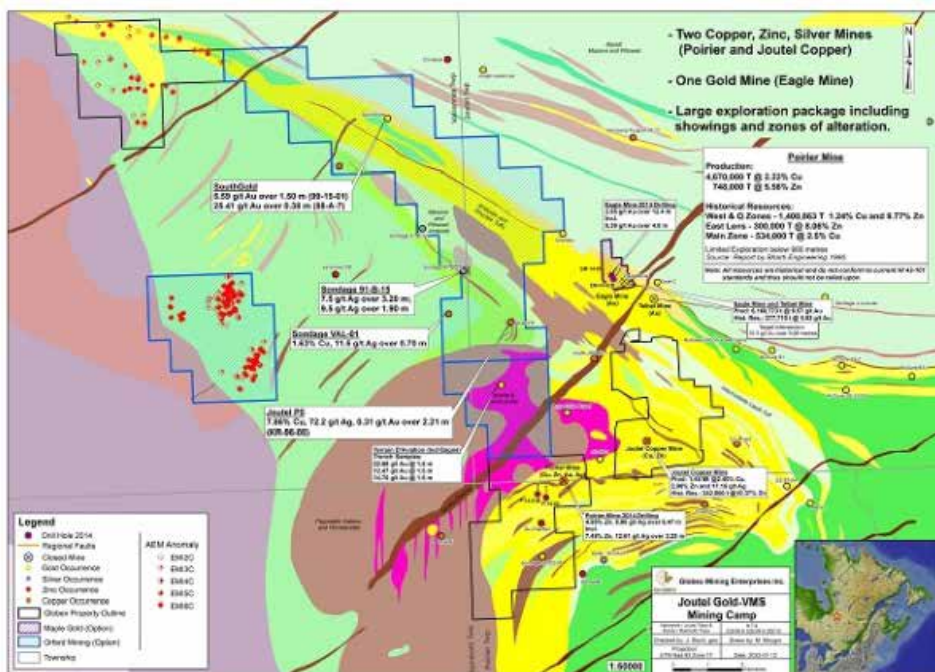
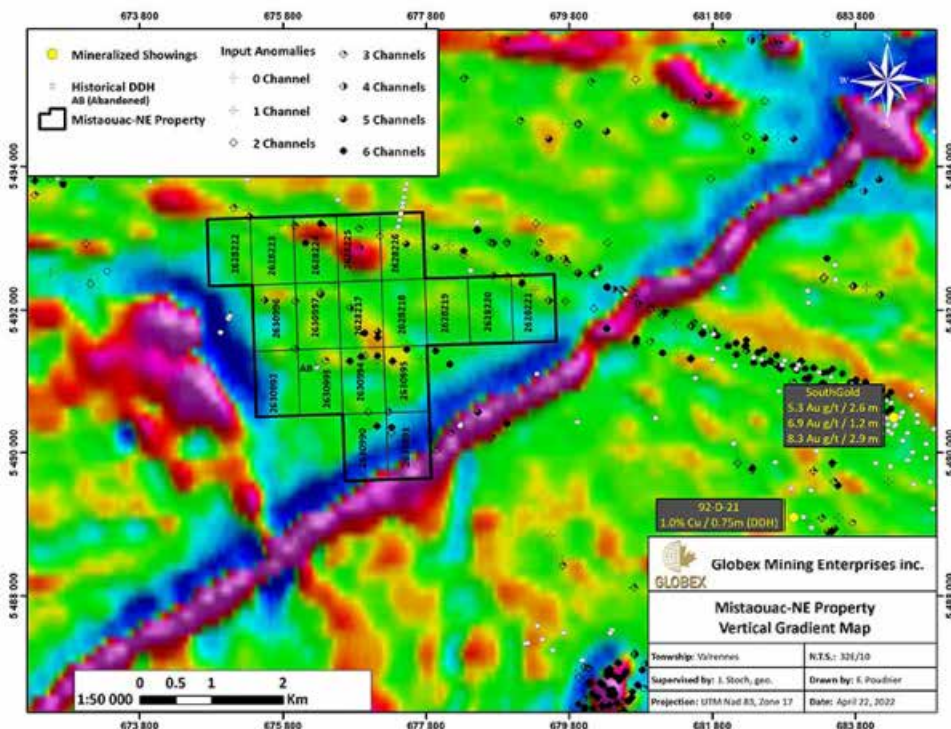
Rouyn-Noranda, Quebec, Canada. **GLOBEX MINING ENTERPRISES INC. (GMX - Toronto Stock Exchange, G1MN - Frankfurt, Stuttgart, Berlin, Munich, Tradegate, Lang & Schwarz, LS Exchange, TTMzero, Düsseldorf and Quotrix Düsseldorf Stock Exchanges and GLBFX - OTCQX International in the US)** is pleased to inform shareholders that it has received the first-year anniversary option payment from Orford Mining Corp. (ORM-TSXV) consisting of \$100,000 cash and, upon approval of the TSXV, Orford intends to issue 1,428,571 Orford Mining shares to Globex in regards to Orford's option of Globex's Eagle Northwest, Gagné and Valrennes claim packages totaling 191 claims (approx. 50 sq. km) in the Joutel Mining Camp (click to [Globex's November 30, 2021 press release](#) for option details).

Orford Optioned Claims in Joutel Mining Camp (see map here)

Orford reports that they have completed a 718 line-km time-domain

electromagnetic (TDEM) and magnetic survey over the entire property as well as a three-hole initial drill program on the "South Gold Zone". Orford have

indicated that in January 2023 they will start a 2,000 metre, 10-hole drill program on the South Gold Zone and several regional targets.



Globex is very pleased with the pace and progress made by Orford and looks forward to the January drill program.

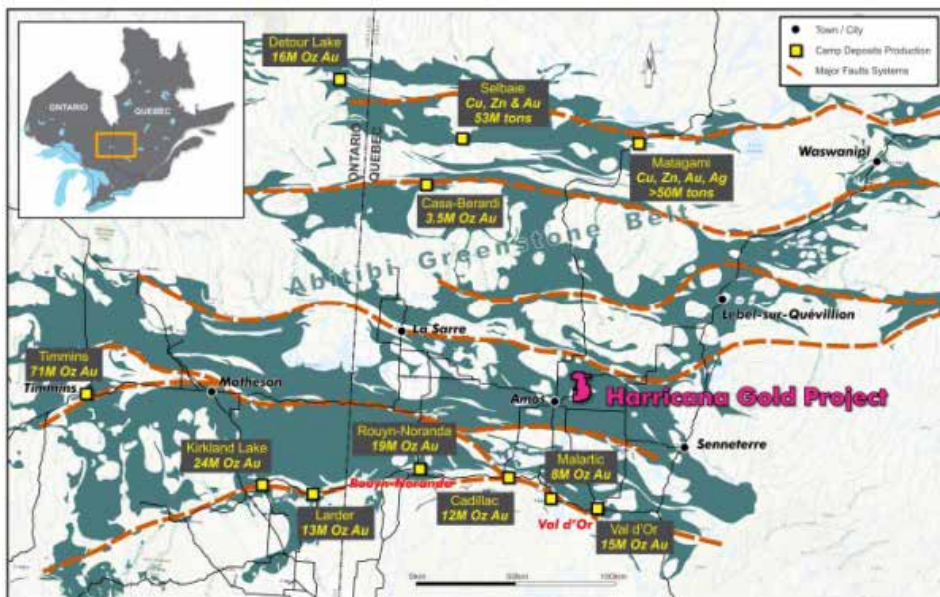
Globex has acquired a block of 18 claims, the Mistaouac NE Property, tying onto the on-strike extension of the Eagle Northwest claim block where Globex has identified several prospective drill targets.

Mistaouac NE Property (see map here)

KIBOKO'S HARRICANA

Kiboko Gold Provides Update on Harricana Drill Program

Rouyn-Noranda, Quebec, Canada. **GLOBEX MINING ENTERPRISES INC. (GMX - Toronto Stock Exchange,**



G1MN – Frankfurt, Stuttgart, Berlin, Munich, Tradegate, Lang & Schwarz, LS Exchange, TTMzero, Düsseldorf and Quotrix Düsseldorf Stock Exchanges and GLBXF – OTCQX International in the US) is pleased to update shareholders as regards the work undertaken by **Kiboko Gold Inc. (KIB-TSXXV)** on the Fontana

area of the Harricana Gold Project, in Duverny township, Quebec (NTS 32C12). Globex retains a 2% Net Smelter Royalty on Harricana Gold Project claims, including the areas currently being drilled at Fontana and most of the other areas with known significant gold mineralization.

Kiboko recently reported that it has completed the initial portion of their Phase 1 exploration program consisting of 55 holes totaling more 8,000 metres drilled since mid-September. Drilling has now paused and is planned to restart in early 2023. The winter portion of their Phase 1 exploration program is expected to consist of 12 drill holes totaling 2,600 m. The total Phase 1 program is projected to consist of 67 holes totaling 11,000 m and is expected to be completed in the first quarter of 2023. Kiboko is also targeting to report a maiden near-surface, pit constrained mineral resource estimate on a portion of the Fontana area in the second quarter of 2023. (click here for the **Kiboko press release**).

More information on Kiboko and its Phase 1 exploration program is summarized in a recent 6ix Summit presentation by Kiboko's President and CEO, Jeremy Link, that may be viewed by clicking [here](#).

(**Note:** Production royalties are only payable upon production.)

WELCOME THE #ANTHROPOMORPHENEAGE SAVE THE PLANET, MAN(KIND)

OVER THE PAST QUARTER CENTURY AS OUR FOCUS HAS BEEN SHIFTING TOWARDS GREENER AND GREENER ENERGY AND NOT NECESSARILY AWAY FROM MINING AND OTHER INTERESTING INVESTMENT OPPORTUNITIES BUT NOW THE MACROECONOMIC TABLES ALTHOUGH ALWAYS VOLATILE HAVE TAKEN A COUPLE OF TURNS THAT WILL BENEFIT MANY OF THESE MINING EXPLORATIONISTS IF THEY HAVE ENERGY ELEMENTS SUCH AS SILVER ALUMINUM GRAPHITE COBALT COPPER HELIUM LITHIUM MAGNESIUM MANGANESE SODIUM NICKEL PALLADIUM PLATINUM SCANDIUM URANIUM VANADIUM ZINC.

SILVER WILL HAVE SOME GREAT STORIES SINCE THE VALUE OF IT HAS GONE UP SIX TIMES IN THE 25 YEARS AND EVEN THOUGH IT GOES THROUGH VOLATILITY IT HAS A STABLE BASE OF MANUFACTURING APPLICATIONS AND IS IN PRACTICALLY EVERY 'GREEN' ENERGY SOLUTION IN ABUNDANCE, SO DEMAND IS SECURE, AND PRICING BEYOND 'ANYONE'S?' CONTROL.



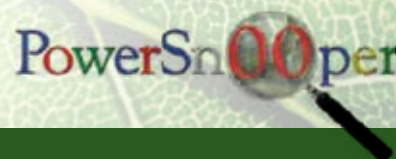
ONE GREAT STORY HAS COME TO LIGHT IN A PAST PRODUCER BUILDING A NEW PRODUCTION FACILITY AND STARTING TO PRODUCE CONCENTRATE AND DORE FROM A SUPER HIGH GRADE DEPOSIT AT THE BUCKEYE MINE IN IDAHO AND THEY WILL BE BRINGING ONSTREAM A MINE IN WASHINGTON IDAHO ALSO WITH HIGH-GRADE SILVER THAT THEY CAN BASICALLY SCRAPE THE WALLS AND PRODUCE ORE. SBMI COVERED IN THE NEXT ISSUE. ALSO WWW.SILVERBULLETMINES.COM



ALSO IMPACTED BY MACROECONOMIC UPHEAVALS IS THE ENERGY SECTOR INCLUDING FOSSIL FUELS AND GREENER ALTERNATIVES IN THE MEANTIME WHILE WE DEVELOP THOSE GREENER ALTERNATIVES THERE IS LIGHTER OIL AND GAS, THE GREENEST OF THE GREEN IN THE FOSSIL FUEL SECTOR, THAT CAN COME ONLINE WITH ENERGY SOLUTIONS RIGHT NOW. TAKE A LOOK AT ARGO GOLD'S AND JASPER MINING'S PARTNERSHIP IN SOME ALBERTA OPPORTUNITIES IN THIS ISSUE. ALSO WWW.ARGOGOLD.COM



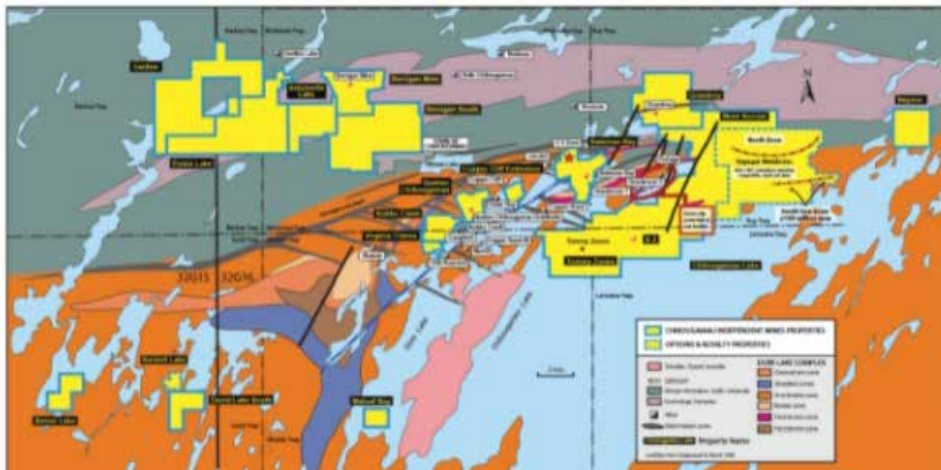
ONCE AGAIN WE CAN HIGHLIGHT JACK AT GLOBEX FINDING NEW SOLUTIONS TO THE ENERGY SCENARIO WITH URANIUM MINES FOR OPTION IN THIS TRULY THE GREENEST OF THE GREEN ENERGY SOLUTIONS: COUPLE OF RECENT UPTAKES ARE LOOKING VERY PROMISING. SEE GMX IN THIS ISSUE. ALSO WWW.GLOBEXMINING.COM



CONTACT: DOBrien@InternationalMiningResearch.com

Chibougamau Mining Camp

An Overview



CHIBOUGAMAU'S INDEPENDENT IRON VANADIUM WITH VOYAGER METALS

Infill Drilling Completed on Globex/Chibougamau Independent Iron Vanadium Royalty Property

Rouyn-Noranda, Quebec, Canada. GLOBEX MINING ENTERPRISES INC. (GMX - Toronto Stock Exchange, G1MN - Frankfurt, Stuttgart, Berlin, Munich, Tradegate, Lang & Schwarz, LS Exchange, TTMzero, Düsseldorf and Quotrix Düsseldorf Stock Exchanges and GLBXF - OTCQX International in the US) and **CHIBOUGAMAU INDEPENDENT MINES INC (CBG-TSXV in Canada, CLL1-Frankfurt, Stuttgart, Berlin and Lang & Schwarz Stock Exchanges in Germany, CMAUF-OTC in the US)** are pleased to update shareholders on drilling undertaken by Voyager Metals Inc. (VONE-TSXV) on the Mont Sorcier iron vanadium deposit located approximately 20 km east of Chibougamau, Quebec.

In a press release dated February 23, 2022, Cliff Sale-Sanders, Voyager's President and CEO commented *"The assay results released to date continue to confirm our expectations in terms of grade and thickness of the mineralized zone and we are confident in upgrading a significant portion of the inferred North Zone resources to support the pending feasibility study on the Mont Sorcier deposit. Voyager expects to be in a position to release a new resource update by Q2 2022 with sufficient resources upgraded to the Measured and Indicated categories to support the Feasibility Study targeted for completion in Q1/2023."*

The goal of the 2021 drill program is to upgrade a sufficient portion of the current North Zone Inferred Mineral Resources to the Measured and Indicated Categories to support a minimum 20-year mine life as part of the Feasibility Study that is currently planned. As reported in the compliant NI 43-101 Technical Report - Mineral Resource Estimate of the Mont Sorcier Project, Province of Quebec, Canada completed by CSA Global and dated June

25, 2021, the South Zone contains 113.5 Mt Indicated Mineral resources at 30.9% Magnetite and 144 Mt Inferred resources at 24.9% Magnetite and the North Zone has 809.1 Mt Inferred Mineral resources at 34.2% Magnetite. The Technical report is available on SEDAR and on the Company website (www.voyagermetals.com)."

Chibougamau Independent holds a 2% Gross Metal Royalty on all iron and vanadium production from the property while Globex holds a 1% Gross Metal Royalty on the iron production and 11,960,000 shares of **Electric Royalties Ltd. (ELEC-TSXV)** which holds a 1% Gross Metal Royalty on all vanadium production.

The three News Releases reprinted above are representative of **Globex's** ongoing successful strategy of developing the knowledge base of properties, Optioning them out for cash payments and/or Shares and retaining Gross Metal Royalties, and/or Net Smelter Royalties. (Also, if the Optionee fails to meet their financial and exploration and/or development and/or production objectives, the properties revert to **GMX**.)

Which is why **GMX** has cash in the bank, shares in many companies and NO DEBT. www.GlobexMining.com

Not bad for a 'Junior', eh. [Ed.]

Do your Due Diligence, of course.

David O'Brien is the owner of Int'l Mining Research CENTRE which employs Media, Event and Online exposure, including eNews News Release Reprints & eNews 3rd-Party Articles. O'Brien also owns W.I.T. Marketing Writing, an Ad Agency, and has been contributing articles to TheProspectorNEWS.com, on demand. He owns no shares in the above companies.

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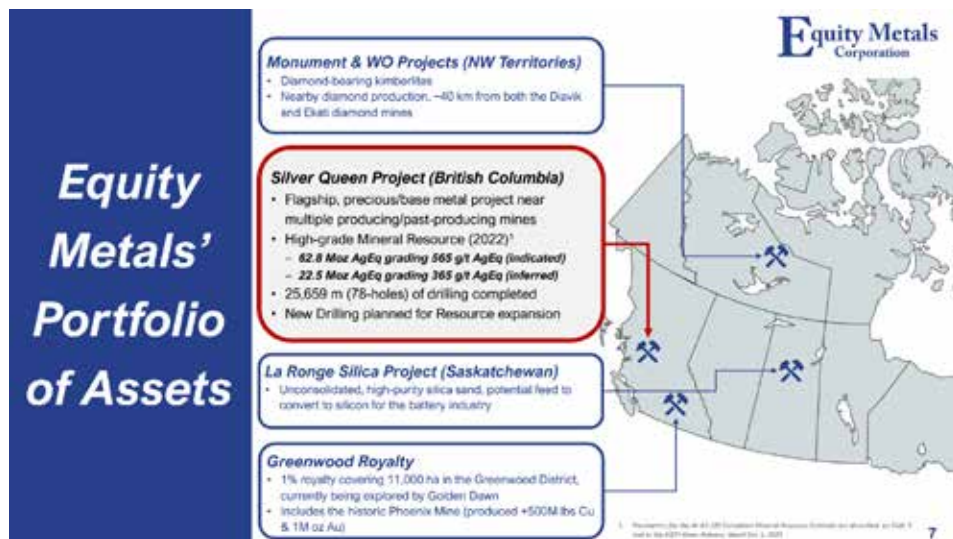
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BONANZA SILVER GRADES & DOUBLED RESOURCE ESTIMATE IN THE SKEENA ARCH, BRITISH COLUMBIA

By Christian Elferink

Equity Metals Corporation (TSX-V: EQTY) is a junior exploration company focussed on creating shareholder value through fast tracking exploration of the company's flagship 100% Owned Silver Queen Gold-Silver Property, British Columbia, Canada. Equity Metals is part of the Manex Resource Group Company. Manex provides exploration, administration, and corporate development services for Equity Metals' two major mineral properties, the Silver Queen gold, silver, zinc, and copper project, and the Monument Diamond project.

The Company owns a 100% interest, with no underlying royalty, in the Silver Queen Project, located along the Skeena Arch in the Omineca Mining Division, British Columbia. The property hosts high-grade, precious- and base-metal veins related to a buried porphyry system, which has been only partially delineated. The company also has a controlling JV interest in the Monument Diamond project, NWT, strategically located in the Lac De Gras district within 40 km of both the Ekati and Diavik Diamond Mines. The project owners are Equity Metals Corporation (57.49%), Chris and Jeanne Jennings (22.11%), and Archon Minerals Ltd. (20.4%). Equity Metals is the operator of the project. The 100% controlled La Ronge Silica Project is an historical sand quarry located in central Saskatchewan, approximately 60 kilometers south-southeast of La Ronge, Saskatchewan and 210 kilometers west of Flin Flon, Manitoba. Preliminary studies indicate the silica deposit may be developed into a simple and profitable, low-cost mining and washing operation to produce



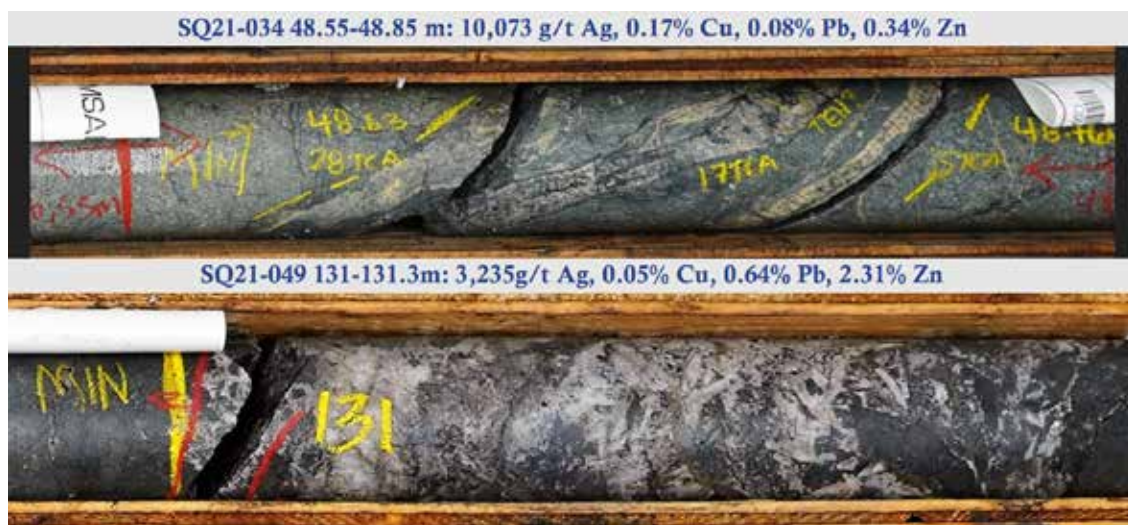
Oil Petroleum Pumpjack Alberta

high-purity silica (>98% SiO₂), a specialty product for the EV battery industry. The company also owns a 1% royalty on the Greenwood project.

FLAGSHIP PROJECT - SILVER QUEEN

The Silver Queen project is located in the heart of the Skeena Arch and surrounded by current and past producing mines as well as advanced exploration projects for large mining companies giving the project an advantage for discovering and

delineating a productive deposit. The property consists of 17 crown-granted and 45 tenure claims covering 18,851.76 hectares in the Omineca Mining Division, south of Houston, British Columbia. The property is located on the all-season-maintained road to Huckleberry mine at Owen Lake - 43 km south of Houston BC. The project has over 100 years of historic exploration and development and is located adjacent to power, roads and rail with significant mining infrastructure that was developed under previous operators Bradina JV and Houston Metals Corp. The



property contains two historic declines into the No. 3 Vein, camp infrastructure, and a maintained Tailings Facility.

Mineralization on the property was discovered in 1912 and since then, over 500 holes have been drilled and 9km of underground workings have been developed on the property. Since the discovery, more than \$20 million has been spent on the property historical production of 200,000 tonnes of material resulting in production of 3,000 oz Au, 400,000 oz Ag, 0.9Mlbs Cu, 1.5Mlbs Pb and 11Mlbs Zn. Advanced metallurgical test work carried out by Cominco Engineering Services Ltd. in 1988 produced zinc, copper-lead and Au-Ag-pyrite concentrates with total recoveries from pilot plant testing of up to 83% Au, 95% Ag, 93% Cu, 91% Pb and 98% Zn. The Epithermal Vein system on the Silver Queen Property was the first mineralization discovered and has been the target of most of the exploration since. Silver and gold are the dominant metals at the property showing bonanza grades over narrow widths such as:

- 0.3 m @ 56,115 g/t AgEq
- 0.3 m @ 14,035 g/t AgEq

- 0.6 m @ 7,611 g/t AgEq
- 0.3 m @ 11,506 g/t AgEq
- 0.3 m @ 10,085 g/t AgEq

On December 1st the company announced an updated Mineral Resource Estimate for the Silver Queen Project. Over 78 new drill holes (totalling 25,659 metres) have been incorporated in the new resource estimate making for a significant increase over the 2019 resource estimate. The updated resource estimate shows the following numbers:

- Indicated 62.8 Moz AgEq @ 565 g/t AgEq (+187%)
- Inferred: 22.5 Moz AgEq @ 365 g/t AgEq (+30%)

President Joe Kizis comments, "At the time we assumed management of the Company in Q3 of 2019, we felt there were clear opportunities to quickly add significantly to the 2019 MRE at Silver

Queen, and we are proud to report our success at a very low cost of \$0.15/oz of added AgEq or \$11/oz of added AuEq. The MRE remains open for additional delineation west of the Camp Target and within the Sveinson Target. In addition, there are several targets that have only been tested by a few drill holes and remain very attractive areas for new discoveries and MRE increase."

Besides the flagship project, the company has excellent exposure to base metals, diamonds and even a royalty to provide additional upside for shareholders. With a current cash position of \$0.4 million the company will need to raise cash in the near future to unlock further exploration at the Silver Queen project.



Equity Metals Corporation

SILVER QUEEN GOLD-SILVER PROJECT, BC, CA

100% OWNED WITH A HIGH-GRADE NI43-101 AU-AG-ZN MINERAL RESOURCE

HIGH-GRADE SILVER INTERSECTED IN 2020 DRILLING:
0.3M of 56,115 g/t Ag within 1.65M of 12,448 g/t Ag

THE SILVER QUEEN ADVANTAGE:

- Updated Resource Estimate
- Increase in **Indicated** Category by 187% to 62.8Mozs AgEq or by 214% to 765Kozs AuEq: 21.0Mozs Ag (+297%), 237Kozs Au (+179%), 18Mlbs Cu (+288%), 48Mlbs Pb (+178%) and 267Mlbs Zn (+134%)
- Increase in **Inferred** Category by 30% to 22.5Mozs AgEq or by 41% to 273Kozs AuEq: 10.3Mozs Ag (+117%), 50Kozs Au (-21%), 10Mlbs Cu (+79%), 23Mlbs Pb (+45%) and 84Mlbs Zn (-9%)
- 18,852ha with no underlying royalties
- Management and exploration team with proven track record of discovery in BC
- Superior access and logistics in a mature Mining Region
- Low exploration costs and expanded exploration season
- Significant existing historical underground development
- Major & Mid-tier miners nearby, potential JV or acquisition
- A total of 79 drill holes for 25,533 metres exploration drilling
- Current high-grade (high-margin) NI43-101 Mineral Resource Estimate
- Near-term resource target of 1.0-1.5M oz AuEq

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VISION LITHIUM FOCUSES ON BOOMING LITHIUM MARKET

By Marc Chalande

INTRODUCTION

Vision Lithium (TSX-V: VLI, (OTC: ABEPF, FRA: 1AJ2) is a mining exploration company focused on exploring and developing high-quality lithium assets with properties in safe mining-friendly Canada. The company is awaiting permitting to generate revenue from a bulk sample as soon as H2 2023.

Dike #5 which is the area that Vision Lithium is intending to bulk sample. Multiple intersections contained over 2% Li₂O, with mineralization of up to 2.98 Li₂O, making this grade close to the Greenbushes deposit, the highest-grade hard rock lithium deposit in the world. In the summer of 2022, following up on this historical work, Vision Lithium completed another ~3,500 m of drilling.

With the exploration work completed to date, a key area of focus for Vision Lithium is direct shipping ore ("DSO") where lithium ore is drilled out, crushed, and shipped. Once it receives the appropriate permit from the government of Québec, the company expects to extract a bulk sample of up to 50,000 tonnes. Based on the DSO model, recent pricing has been as high as \$951 USD per dry metric tonne. Due to the historical work and the existing infrastructure, the company is expecting minimal CAPEX for the bulk sample and low operating costs enabling it to sell product into a hungry lithium market. Vision Lithium could potentially generate up to \$45M in gross revenue that would finance future exploration on Sirmac as well as its other lithium properties. Numerous other LCT dikes on the property as well as the #5 Dike need additional exploration to discover the true potential of this vast property in Quebec's prolific James Bay lithium region.



The Godslith project

Like the Sirmac project, the Godslith project benefits from excellent

COMPANY OVERVIEW

Vision Lithium (TSXV: VLI, OTC: ABEPF, FRA: 1AJ2) owns 100% of six properties in Manitoba, Québec, and New Brunswick with a focus on the following three lithium projects.

The Sirmac Project

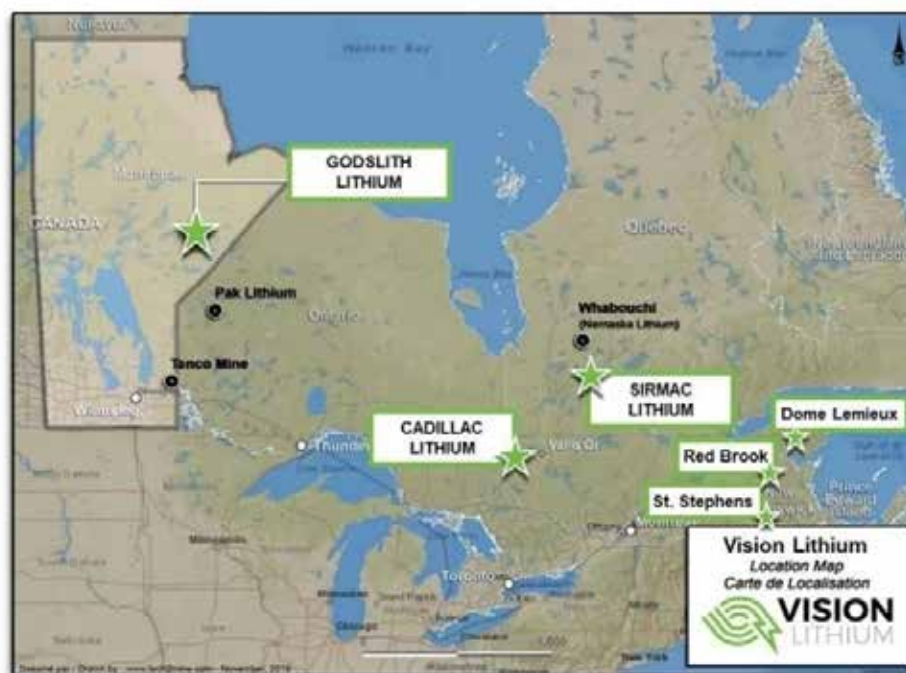
The property is located about 180 km NW of Chibougamau, in the Plan Nord Territory of the province of Québec. Sirmac is comprised of 155 mining claims covering 7,750 ha, area is served by excellent infrastructure, including lodging, proximity to hydro, and road access.

Having secured the property from Nemaska Lithium, Vision Lithium has built on Nemaska's previous work which includes a successful \$2M exploration program that produced a resource estimate primarily concentrated on



infrastructure and a safe mining jurisdiction. Acquired in March 2021, this property covers an area of approximately 5,560 hectares, less than 1 km Northwest of Gods River, within and surrounding the traditional territory of the Manto Sipi Cree Nation in the province of Manitoba.

Historical drilling on the property only went as deep as 243 m, intersecting 15.2 m grading 1.49% Li₂O. With the mineralized zone recognized over at least 2.3 km along strike this is an excellent target for expansion. Further drilling could potentially double the historical resource. Once the exploration agreement and permit are in place, Vision Lithium will commence preparation work ahead of a minimum 10,000+ m first phase drilling program in 2023. The Godslith project is a world class asset with the potential to become a stand-alone operation in Manitoba.



The Cadillac Project

The 100%-owned Cadillac property was acquired in December 2021. Consisting of 332 claims, the property covers 19,070 ha in the

heart of Quebec's mining industry. The property is directly off the main highway between Val D'or and Rouyn Noranda and is accessed by a road which runs through the entirety of the

project. With existing infrastructure, easy road access and local workforce, Vision Lithium is able to maximize dollars spent with low-cost drilling and exploration costs.



LITHIUM EXPLORATION IN CANADA

Vision Lithium Inc. is a junior exploration company focused on exploring and developing high quality lithium assets in Canada. The Company is led by skilled and qualified mineral exploration experts and business professionals with a deep understanding of the battery materials market, which is driven by lithium-ion batteries. Vision Lithium is committed to discovering new, world-class assets and bringing these assets to production.

TSXV: VLI OTCQB: ABEPF FSE: 1AJ2





The property hosts a suite of sub-parallel pegmatite dikes 100 m apart that have been traced for at least 300 m along strike. At least four dikes are exposed and as many as eight are indicated within a kilometer wide belt. Lithium crystals were observed in all four dikes, with large decimetric lithium crystals visible in some areas.

The company completed 35 holes (4,596 m) and used airborne MAG and LiDAR surveys to identify over 500 possible ground pegmatite targets. Most of the first 11 holes intersected spodumene in almost all holes as individual large crystals. Based on drilling to date, the next round of drilling will target deeper mineralization, where the intersections are wider.

Field work began in June over the entire 197 sq.km. property. Well over 500 outcrops have been visited to date and as many samples have been sent for multi-element geochemical analysis. Many Geochem assays have yet to be received. Geochem results to date have potentially lithium areas of interest on the property. A thorough review of results of this fist exploration campaign will be undertaken over the winter months in anticipation of additional work in 2023. Results from this program will also potentially generate new drill targets on the property. A lithium deposit so close to such excellent infrastructure is highly sought after and Vision Lithium likes the potential of this property to host a significant deposit based on work to date.

Government support

Both the Quebec and Manitoba governments have announced significant investments into the critical minerals mining sector. In late 2021, the Quebec government announced its intention to invest up to \$1.4 billion to develop the lithium battery sector. The



ADVANCING OUR FLAGSHIP CERRO LAS MINITAS (CLM) AG-PB-ZN PROJECT IN DURANGO, MEXICO 'ONE OF THE WORLDS LARGEST UNDEVELOPED AG-ZN DEPOSITS'

Category	Tonnes	Silver		Gold		Zinc		Lead		Copper		Silver Equivalent	
		g/t	M oz	g/t	000 oz	%	M lbs	%	M lbs	%	M lbs	g/t	M oz
Indicated	12.3M	106	42.1	0.07	28	3.3	895	1.3	358	0.16	44	347	137
Inferred	19.6M	117	73.6	0.12	78	2.3	1,009	1.2	500	0.23	98	314	198

- **PEA Highlights: 15yr LOM/Robust Project Economics/High Revenues/Balanced Precious& Base Metal revenues**
- **Engineering Upgrades/New Discoveries at CLM, Mexico**
- **New Drilling at Oro, Cu-Mo-Au, Porphyry project, New Mexico**
- **Greenfields exploration on Hermanas Project, New Mexico**
- **NI 43-101 resource; 116Moz Ag, 1.9 Blbs Zn, 0.9Blbs Pb, 142Mlbs Cu**
- **Discovery Potential - 10,000 m drill program at CLM (4 targets) underway**



TSX-V: SSV | SSEV: SSVCL | OTCQX: SSVFF

www.southernsilverexploration.com

info@mnxlt.com



Vision Lithium samples 1.0 metre of 4.8% Li2O at Cadillac

province plans to set up a complete value chain, from ore extraction to battery manufacturing and recycling. In 2022, the Manitoba government announced a \$5 M investment to improve and modernize systems that support mineral exploration and mining in Manitoba.

Share Structure - Financials

- Accordingly to the last financial statements the Company had \$787k in cash and cash equivalents and \$20.2M in total assets with no debt and low operating costs (August 2022 Financial Statements).
- 238M shares issued and outstanding, 57.2M warrants and 18,2M options (313.5M fully diluted).
- Traded in Canada (TSXV: VLI), the US (OTC: ABEPF) and Frankfurt (FRA: 1AJ2)
- Significantly undervalued: currently trading at around \$0.12 (January 2023), with a 52-week low of \$0.06 and a high of \$0.23

BOTTOM LINE

Vision Lithium (TSXV: VLI, OTC: ABEPF, FRA: 1AJ2) provides a unique value proposition. It is a junior mining company that has the short term potential to sell lithium product into a hot market and generate revenue that can self finance future exploration and project development. The demand for electric vehicles has skyrocketed worldwide, and the lithium battery sector holds incredible potential for Canada's economic growth. Vision lithium can provide investors with the opportunity to participate in the growth of the lithium market by taking advantage of its currently undervalued share price.

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EXPLORING FOR CARLIN-TYPE & LOW-SULFIDATION SYSTEMS IN NEVADA

By Christian Elferink

Nevada is well known for the Carlin-Type and low-sulfidation systems that can be found throughout the state. Well known producers have been producing gold and silver from these systems for years and years. And they can get big! So, it's safe to say there is no better place to look for these types of systems than the safe and established mining jurisdiction that is Nevada. This is exactly what this company is doing.

Bravada Gold Corporation (TSX-V: BVA) controls 10 exploration properties, approximately 6,500 hectares, in the highly productive Walker Lane Trend and Battle Mountain-Eureka Trend in Nevada. A striking characteristic of the largest Carlin-type gold deposits is their ever-present association with smaller gold deposits that have similar alteration and geochemical signatures. For example, relatively small gold deposits were discovered at and around the Cortez mine decades before discovery of the much larger Pipeline and Cortez Hills deposits. Mineral showings on Bravada's projects could be such examples. Their portfolio consists of high-quality properties covering a range of development

stages from early-stage exploration to advanced-stage exploration and pre-development. The company also holds a 1% NSR royalty on the Drayton project which is currently actively being explored by another mining company.

BRAVADA GOLD WIND MOUNTAIN FLAGSHIP PROJECT

The focus of Bravada's extensive portfolio of projects is on the Wind Mountain Project in the Walker Lane Trend. The Wind Mountain gold/silver project is located approximately 160 km northeast of Reno, Nevada in a sparsely populated region with excellent logistics, including county-maintained road access and a power line to the property. Between 1989 and 1999 AMAX Gold produced nearly 300,000 ounces of gold and over 1,700,000 ounces of silver from two small open pits and a heap-leach operation. The company released an initial resource estimate and a positive PEA in 2012.

On December 8th, 2022, the company released an updated PEA. The economics have significantly improved compared to the company's 2012 study due to utilizing

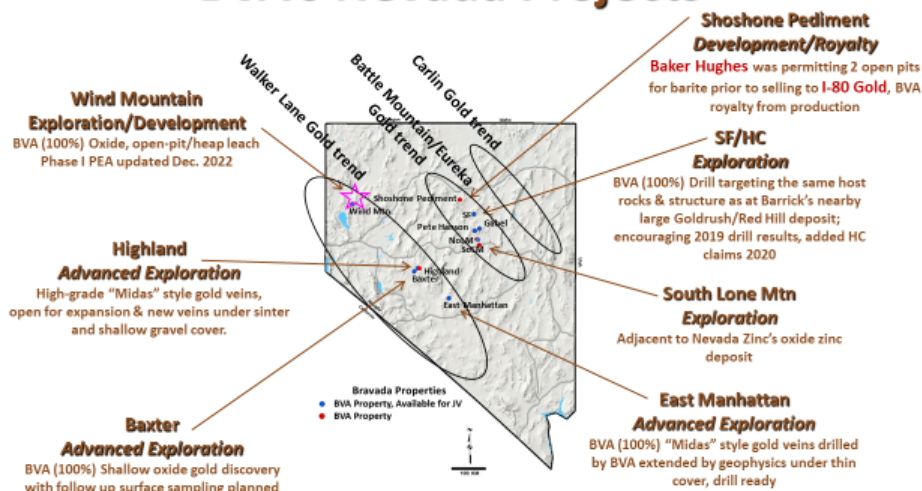
a near-mine, heap-leach pad site for a portion of the pit-constrained resource and higher grades for early mining. Higher grades predicted and then verified by 2021 drilling resulted in better grades in early years and conversion of certain Inferred blocks into Indicated blocks, improving economics. The economics are based on \$1750 for gold and \$21 for silver. The deposit contains 474,000 oz of gold and 11,807,000 oz of silver in the indicated category and 21,800 oz of gold and 497,000 in the indicated category. The PEA is based on an initial Phase I starter pit focussing on a smaller and higher grade portion of the deposit and the economics are as follows:

- Capital:
Initial capital of \$46.6 million with \$19.8 million sustaining capital
- Mine Life:
Approximately 4.2 years of mining
- After-tax Payback Period:
1.8 years
- Life-of-mine cash cost:
\$1,045 per ounce Au
- All-in Sustaining Costs:
\$1,175 per ounce Au
- After-tax IRR:
38%
- After-tax NVP@5%:
\$46.1 million

Based on the current market cap of C\$5.9 million the company trades at a discount to the project NPV. Noteworthy is the fact that the PEA doesn't include the historic waste rock piles that have been identified for possible recoverable gold and silver which could provide additional upside. The project offers further upside and high-grade exploration upside through the high grade feeder zones.

President Joe Kizis commented, "We have taken a phased approach to development at Wind Mountain. Phase I takes advantage of a pad space adjacent to the modelled mining operation.

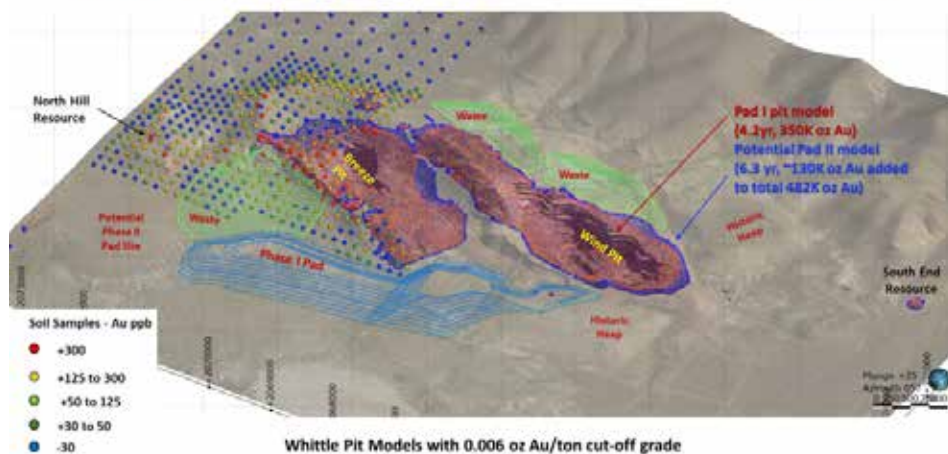
BVA's Nevada Projects



BVA has 10 Nevada properties (~6,500 hectares)

BVA:TSX.V | BRTN:STU
BGAVF:OTCQB

Wind Mtn – PEA Model View to the Northeast



The increased grade verified in the Breeze pit area by drilling during 2021 provides increased cash flow during the early years of production, providing the benefit that cash flow should fund sustaining capital required in year 3. The 2022 Pit-constrained resource would be depleted by about 62% during Phase I and a probable Phase II pad site has been identified north of the Phase I pad. Capital costs to activate Phase II should be reasonable and potentially funded

by cash flow. There are several fault blocks of outcropping mineralization based on surface sampling uphill from the Phase II pad that have not been tested by drilling except for results from several encouraging shallow drill holes at North Hill. Although the North Hill targets are not expected to contain a large number of ounces, they would be very inexpensive to mine due to being at or near surface and to transport to an adjacent Phase II pad.



We focused on the Phase I area first because it contains better-than-average grades in the early years of the mine plan and has been drill tested to mostly oxidized Indicated categories, so it could be potentially quickly upgraded to Reserve Category with a Pre-feasibility study. Operational advantages for development of Wind Mountain include its location in a sparsely populated region of northwestern Nevada (less than a 2-hour drive from Reno), county-maintained roads, power lines to the property, location six miles from a geothermal power station, and no known environmental or archaeological impediments.”



Bravada Gold Corporation (BVA-TSX.V; BGAVF-OTCQB; BRTN-Stuttgart) is an exploration and development company with a portfolio of ten high-quality properties for 810 claims (6,500ha) in two prolific Nevada gold trends. Bravada's value is underpinned by a substantial gold and silver resource with a positive PEA at Wind Mountain, which was updated in December 2022. The Company also holds a royalty on a high-grade gold property in Ontario and a near-surface barite deposit in central Nevada.

In addition to sole funding, Bravada often works with partners, which may fund up to US\$1million per year on Bravada's properties each year.

- **Wind Mountain Au/Ag Flagship project** –Substantial gold and silver resource with positive PEA in 2012, updated for a Phase I operation in December 2022 that demonstrated attractive economics.
- **Highland** –Many drill-ready, low-sulfidation vein targets remain on this large and largely alluvial-covered property with demonstrated high-grade gold and silver intercepts.
- **SF/HC** – Two “Proof-of-Concept” drill holes in 2019 confirmed the presence of a gold system in favorable host rocks and structures that are similar to those at the large, high-grade Goldrush/Fourmile deposits nearby.
- **Baxter** – Drill ready after detailed soil-sampling program.
- **Pete Hanson & Gabel** – Expected to be drill ready after a soil-sampling program on each.
- **North Lone Mtn and South Lone Mtn** – Zinc and gold soil anomalies drill ready at NLM, and SLM is adjacent to a competitor's development-stage Lone Mountain Oxide Zinc deposit.
- **Shoshone Pediment** – Royalty to Bravada on future production from a well-defined barite deposit, with Bravada retaining rights to other metals.

TSX:BVA.V | BRTN:STUTTART | BGAVF:OTCQB

WEBSITE:www.bravadagold.com

EMAIL:ir@mnxltltd.com

GELUM'S EXPERIENCED MANAGEMENT TEAM IS LOOKING FOR GOLD & COPPER IN BRITISH COLUMBIA

By David O'Brien

Int'l Mining Research CENTRE

& W.I.T. Marketing Communications

Gelum Resources (CSE: GMR) is a newly formed exploration company focused on gold and copper in British Columbia, Canada. The company started trading on the Canadian Securities Exchange on October 18th, 2021. The experienced management team of the company has defined two objectives, the first being to define a multi-million-ounce, economic gold deposit on the *Eldorado Gold Project*.

The second objective is to discover an alkalic porphyry and related skarn deposit within a prolific B.C. porphyry belt in the Interior Plateau region. The recently acquired ML Property is accessible by 90% paved roads via Williams Lake, and the remainder by all-season dirt roads and secondary logging roads. The low to moderate relief allows year-round access and work. Airborne geophysics comprising magnetics and radiometrics was completed in early spring of 2022.

MANAGEMENT & DIRECTORS

- Gelum Resources is led by seasoned management and advisors in the mining and financial sectors. The management team consists of President David Smith, CFO Sead Hamzagic, Chief Geologist John Drobe, and Corporate Secretary Marla Ritchie. David Smith has extensive experience in the mining industry and is the founder and CEO of GoldHaven Resources Ltd. John Drobe has over 30 years' experience specializing in copper-gold porphyries, epithermal gold, and copper-gold skarn deposits throughout the Americas.

The Board of Directors consists of Henk van Alphen, Coille van Alphen and Robert Kopple. Most readers

of TheProspectorNews.com are familiar with Henk van Alphen. Henk van Alphen founded Wealth Minerals in 2005 and raised over \$1B in his career.

- The company also assembled an impressive advisory team to further validate the quality of the team and the potential of its projects. Kelly Earle is a geologist and currently Senior Vice President, Corporate Development at Skeena Resources. On September 12th the company announced that John Robins joined as an advisor. Mr. Robins is well known in the mining industry and has been involved in several notable discoveries including the Dixie Lake Gold Deposits in Red Lake Ontario, the 5-million oz *Coffee Gold* deposit in Yukon, Three Bluffs gold deposit in the Committee Bay greenstone belt, and the *Aviat/Churchill* diamond districts of Nunavut. He has been involved in over 2.5 billion dollars in M&A activity. Mr. Ken Shannon is also on the advisory board, and has over twenty years in the role of CEO. Ken helped to raise over \$200 million of venture capital for mineral exploration projects. The exploration led to the discovery or confirmation of the *Taca-Taca* deposit in Argentina and the *Mirador, Mirador Norte, Panantza* and *San Carlos* deposits of the Corriente Copper Belt in Ecuador (>30 Billion pounds of contained copper in total. Stuart Ross has had a distinguished career as a senior officer and director of several public companies, including companies listed on the NASDAQ and TSX Venture exchanges, his sector experience includes mining, beverage production and distribution, medical services, gaming and merchant banking.

ELDORADO PROJECT

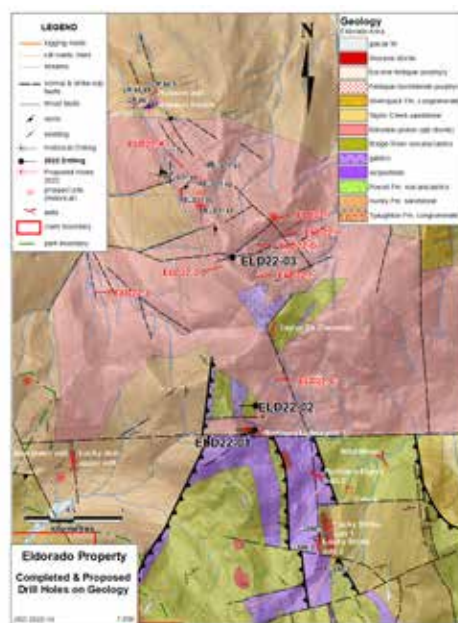
Gelum's Eldorado Gold Property is only 190 kilometres north of Vancouver and 74 km northwest of the town of Lillooet, B.C. The project is located near existing infrastructure 22 kilometres north of the *Bralorne* mine, and 17 kilometres north of the community of Gold Bridge and is easily accessible. The 9028-hectare property covers multiple Minfile listings and two past-producing (1930s & 40s), small-scale gold mines that form the northern extent of the *Bridge River-Bralorne/Pioneer orogenic gold system*. Gold occurs in polymetallic sulphide veins and vein-stockworks within broad quartz-carbonate alteration in the Eldorado granodiorite stock and surrounding rocks. These units are complexly juxtaposed by numerous faults associated with regional-scale structures linked to gold mineralization. Management has developed an excellent working relationship with the **Bridge River Indian Band (Xwísten)**; the project is within the traditional territory within the St'at'imc territory (Traditional Territory) in which Xwísten and its members assert, hold and exercise constitutionally protected Aboriginal Title and Rights ("Indigenous Title and Rights").

Last year the company completed a soil and rock sampling program on two defined high-priority targets. The program successfully extended two of the historical soil anomalies by 500m along strike. To further determine potential drill targets, the company completed 907 line-kilometres of VTEM airborne geophysics covering 4200 Ha of the property.

On November 1, 2022, the Company announced completion of the first three holes (800 metres) of a planned 11-hole, 3000 metre, helicopter-supported, diamond-drill programme at Eldorado (see Figure 2). Drilling intersected multiple quartz-carbonate-sulphide mineralization in all three holes, characterized by intense silica

and carbonate alteration, quartz cemented hydrothermal breccias, crack and seal veins, open space filling (locally cockade banding) with fine-grained pyrite and arsenopyrite typical of high-grade gold-bearing structures in the district (Figure 1).

Gelum Resources Director Henk van Alphen stated: ***“Intersecting silica-carbonate-sulphide damage zones in all three***



filling, and silica healed damage zones verifies that the zones resemble gold-bearing veins in the district and confirms their potential to host high-grade gold.”

← Figure 2: Eldorado

drilling completed, planned, and historical on geology.

David O'Brien is the owner of Int'l Mining Research CENTRE which employs Media, Event and Online exposure, including eNews News

Release Reprints & eNews 3rd-Party Articles.

O'Brien also owns W.I.T. Marketing Writing, an Ad Agency, and has been contributing articles to TheProspectorNEWS.com, on demand. He owns no shares in the above companies.

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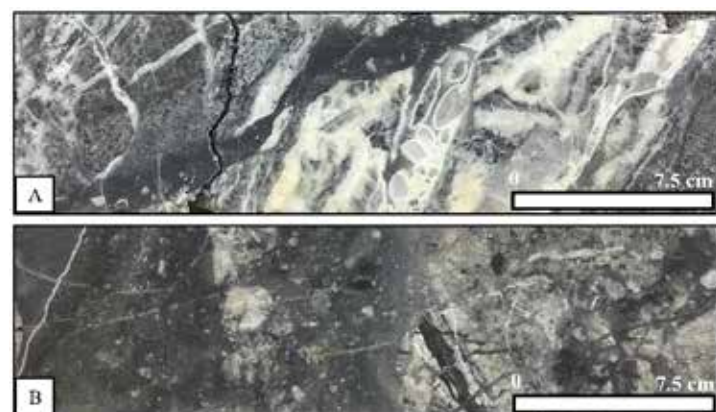


Figure 1: Quartz-silica cemented hydrothermal breccia with brecciated quartz-carbonate vein material, drusy quartz filled open space and black, sooty pyrite with disseminated fine-grained arsenopyrite (1A; ELD22-03 @ 187.20 m depth) and silica-carbonate veinlets and silica cemented hydrothermal breccia with fine-grained sooty pyrite and arsenopyrite (1B; hole ELD22-03 @ 178.50m depth).

drill holes confirms the intensity of the hydrothermal system and substantially increases our confidence in the gold potential at Eldorado.” Mr. van Alphen added ***“The presence of pyrite-arsenopyrite veins, hydrothermal silica-carbonate breccias, open space vein***



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gelumresources.com



CSE: **GMR** | OTCQB: **GMRCF**

Gelum Resources is a Company led by seasoned management and advisors in the mining and financial sectors. The Company currently has two objectives under management.

The first is to define a multi-million-ounce economic gold deposit on the 9028-hectare Eldorado Gold Project, located within the Bralorne-Bridge River gold district, only 190 kilometres north of Vancouver and 74 km northwest of the town of Lillooet, B.C. The Bralorne mines historically exploited the largest, highest-grade, longest-producing lode-gold deposit in B.C. Management is proud to have developed an excellent working relationship with the Bridge River Indian Band (Xwísten) the project is within the traditional territory within the St'at'imc territory (Traditional Territory) in which Xwísten and its members assert, hold and exercise constitutionally protected Aboriginal Title and Rights (“Indigenous Title and Rights”). The Company started a 3,000 metre drill program on September 12, 2022.

The second objective is to discover an alkalic porphyry and related skarn deposit within a prolific B.C. porphyry belt in the Interior Plateau region. The recently acquired ML property is accessible by 90% paved roads via Williams Lake, and the remainder by all-season dirt roads and secondary logging roads. The low to moderate relief allows year-round access and work. Airborne geophysics comprising magnetics and radiometrics was completed in early spring of 2022.

THE GREAT BULL CASE OF SILVER FOR 2023 AND BEYOND

By Chen Lin

We are at the historical moment that Solar PV is having explosive growth into the next decade.

According to the International Energy Agency report published in December, 2022, Solar will generate more power than any other sources, including coal, natural gas and hydro power by 2027, only 4+ years from now. There are talks that by the end of this decade, solar panels will be on every window, every car and even every laptop and cell phone. Solar power will replace fossil fuel to become the choice of mankind in 10 years.

From my Chinese sources, where most of the solar panels are manufactured, I heard a similar conclusion: The solar panel production will see explosive growth for decades to come. We are only at the beginning of the major sea change of future energy. **This is very similar to electrical vehicles, for example. Once the technology matures, explosive growth follows.** Solar PV is already the cheapest energy source available, future improvements will make it even more efficient. Note this is the most conservative estimate of the solar growth for the next 30+ years by two very reputable firms.

Solar PV is the biggest industry usage of silver. In 2021, solar PV used 13% of total silver demand, about 120 million oz

图：碳中和框架下光伏长周期高景气发展

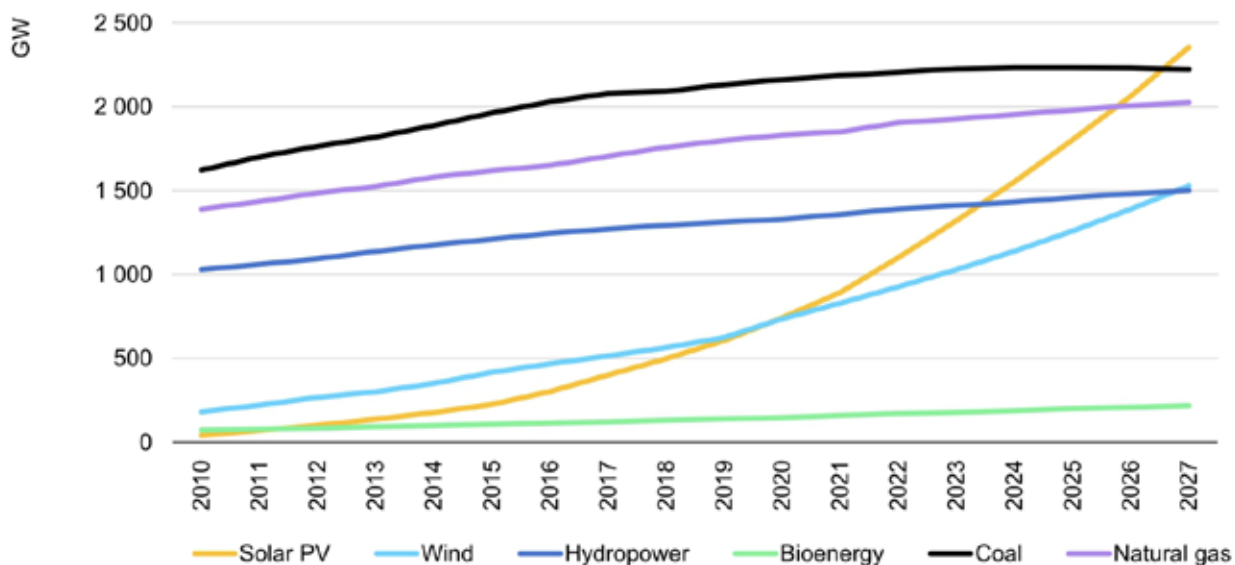


资料来源：Bloomberg, 长江证券研究所 Data sources: Bloomberg and Changjiang Securities

of silver is used in the solar panel. This number will go up dramatically in the coming years that will lead to a significant silver deficit for years, if not decades, to come.

Silver loading, actual silver used in each solar panel, has been on a slow down trend in the past decade, due to improved efficiency in the solar panel industry. However, this will start to change in 2023.

Figure 1.8 Cumulative power capacity by technology, 2010-2027



IEA. CC BY 4.0.

Source: IEA analysis based on [World Energy Outlook 2022](#), (2022), Fossil fuel capacity.

PV Silver Demand & Cell Loadings*



*denotes silver loadings per photovoltaic cell;
Source: GTM, Metals Focus

Source: Silver institute report, 2022

SOLAR ANALYTICA.



TOPCon

SiNx AR Coating
Passivation
P+ emitter
n-Silicon substrate
Tunneling layer
n+ Poly
SiNx AR Coating

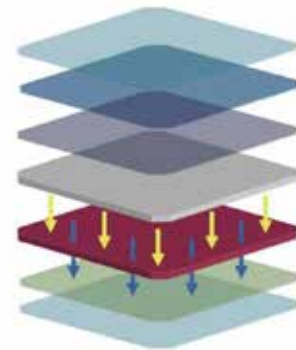


Figure 2: TOPCon explained (solar2021)

The TOPCon cell also requires substantially more silver in the metallization than PERC, around 150-175mg per piece versus 52mg with PERC, driving up cell costs even higher. Another concern is the cost of human resources, which is higher for TOPCon and more difficult to minimise when compared to HJT due to the latter's complex nine or even ten production procedures. Despite these obstacles, leading PERC cell manufacturers are still working on TOPCon. Jinko officially stated that "When comparing TOPCon to HJT in numerous dimensions, we (Jinko) currently stand [60] TOPCon." (Shaw 2021).

Source: Solar Analytica, 2022




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PANELIST

Nadja Kunz
Assistant Professor, The
University of British
Columbia



MODERATOR

Angelina Mehta
Mining Engineer,
Investment Professional,
Rio Tinto



	N型电池工艺	P-PERC (基准)	TOPCON	HJT
Lab Efficiency	实验室效率	24.06% (隆基)	25.4% (中来)	26.3% (隆基)
	量产效率	22.8%-23.2%	23.5%-24.5%	23.5%-24.5%
	量产难度	工序中等 ; 难度低	工序多 ; 难度中低	工序少 ; 难度中高
Cost(RMB/W)	生产成本	约0.6-0.8元/W	约0.7-0.9元/W	约1.0-2.0元/W
Silver Usage	银浆耗量	80mg/片	100-120mg/片	200-220mg/片
	薄片化	170-190μm	150-160μm	90-140μm
	产线兼容度	目前主流产线	可升级PERC产线	完全不兼容PERC
	设备投资	2亿元/GW	2.5亿元/GW	4.5亿元/GW
	量产成熟度	已成熟	已成熟	即将成熟
2022 production	2022年产能预测	200GW以上	40GW以上	10GW以下

资料来源：晋乐科技，民生证券研究院

Source: Mingsheng Securities, a well known Chinese research firm.



Source: Schiffgold



Source: Schiffgold

2023 is the year of TOPCON, a new solar panel technology that requires significantly higher silver loading. This is due to TOPCON adding another layer over the traditional PERC solar cell which needs more silver to be added in the wiring.

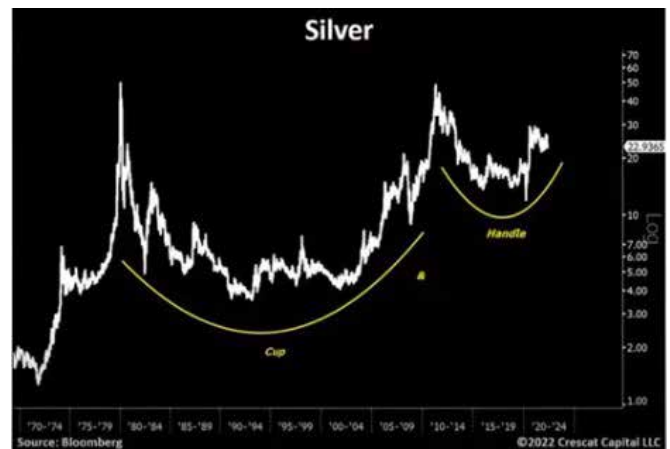
If we look further, the next generation solar panel technology HJT, uses even more silver. HJT is expected to take off around 2024-25. By 2025, estimated more than 50% of solar panels will be either TOPCON or HJT technology.

There are reports surfaced recently that the silver inventory is at historical low. This will add fuel to the fire. Record low inventory, record high demand will lead to record high silver prices for years if not decades to come.

In conclusion, the rising silver loading factor times explosive growth of solar panel demand will create a silver tsunami of our lifetime. **Silver mine production, mostly as a by-product, has been very stable for the past decade.** As we know, it takes years to explore, then years to permit and build a new mine.

So it will likely take a decade to bring up the production even as the demand explodes. Only high prices, like \$50-100/oz, will encourage ordinary people to turn in their silverware, silver coins and silver jewelry.

The attached long term chart shows where we are in history. In technical trading, there is no "triple top". When silver takes off, the historical high of \$50/oz will be only a midpoint. Triple digit price in silver is likely in the coming years.



Source: Bloomberg and Crescat LLC

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DON'T MISS THE IN-PERSON RETURN OF THE WORLD'S PREMIER MINERAL EXPLORATION AND MINING SHOWCASE IN MARCH!

Within the mineral exploration and mining world, the Prospector's & Developers Association of Canada's (PDAC) Convention is the industry's big game – its Super Bowl. This annual event won the "Floor13 Business Event Award" at the 2022 Canadian Tourism Awards, so it is a reputation that is well deserved.

Since 1932, hundreds of thousands of attendees from across the globe have travelled into Toronto for outstanding programming, business and investment opportunities, networking and fun. This year, spread over 600,000 square feet of the Metro Toronto Convention Centre (MTCC), PDAC's annual event will be one of the largest in its 91-year history.

Guided by a Convention Planning Committee – a group made up of volunteers and professionals from across the mineral exploration and mining industry – an exciting lineup of content will make the 2023 event bigger and better than ever. Included will be hundreds of hours of acclaimed programming such as Capital Markets, Indigenous, Student & Early Career,

Sustainability and Technical programs, which return alongside Short Courses, Master Class Series, Keynote Program and Exploration Insights.

"While the shift in focus towards critical minerals by governments has been swift, it is an opportunity PDAC and the industry has recognized for many years, and we are pleased to see that Canada is being positioned to benefit for the long term," says Alex Christopher, PDAC President. "The PDAC 2023 Convention has a full roster of speakers and programs that are expected to provide exceptional insight into our industry's future."

This year's event in Toronto will see a wide range of speakers, industry experts and facilitators offering their knowledge, strategies, new concepts

and case studies. There will be more panel discussions than ever before, featuring additional and extended Q&A opportunities, plus real-time polling, quizzes and more.

Networking receptions – such as the prestigious Awards Gala honouring the industry's most outstanding contributors, and an Opening Ceremonies that had its highest attendance ever in 2022 – are returning once again. As well, more intimate gatherings that focus on meaningful connections and fun will be offered, such as the New Member Networking Event and The Network with Dueling Pianos.

If you're looking for a bit more adrenaline, the Letter Writer Presentations for Investors should be on your agenda. Restructured for 2023, attendees can witness a "cage match" where presenters battle each other to defend opposing opinions.

A bigger and better-than-ever PDAC-SEG Student Minerals Colloquium will move to the exhibit show floor during all days of the convention – where previously students displayed their research in a secluded area for just one day. Participation by students and early-career individuals has been made a priority by the Convention Planning Committee, which includes advocating for attendees from abroad. International attendees represented almost 30% of participants in 2022, which is something PDAC wants to build upon.

Indeed, with attendees from over 120 countries there will sure to be innovative and exciting opportunities across both the North and South Building of the MTCC. So don't miss the event-of-choice for the world's mineral industry, taking place from March 5-8, 2023. For updates and more information on #PDAC2023 head to www.pdac.ca/convention.





2023

THE WORLD'S PREMIER MINERAL EXPLORATION & MINING CONVENTION

REGISTER AT pdac.ca/convention | **#PDAC2023**

Metro Toronto Convention Centre, Toronto, Canada

MARCH 5-8

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120+ countries**

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showcasing the
best in the industry**

**Hundreds of hours of
programming presented
by industry experts**

**Engage with private,
retail and institutional
investors and senior
executives**

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