



MOTHER LODE

CHAMBER OF MINES OF EASTERN BRITISH COLUMBIA

A non-profit bureau of information providing authentic, reliable data to the
General public and the mining industry of Eastern British Columbia

215 Hall Street, Nelson, B.C. V1L 5X4 Phone: (250) 352-5242

chamberofmines@netidea.com

NEWSLETTER

Note: The views of contributors to this newsletter do not necessarily reflect the views of the Chamber

Chamber of Mines of Eastern BC Hours

Monday - Friday from 10am – 3pm

Our Annual General Meeting was held on February 17th, 2022.

We are thankful to all of our past Directors and we welcome a couple new members to the board.

Directors for 2022

David A. Johnston – President

Ted Nunn – Vice President

Dicky Niessen – Treasurer

Executive Directors

Jarrold Brown

Gerald York

Tom Cherry

David W. Johnston

Tyler Rice

Emily Laycock

Chris Anderson

Peter Niessen

Brad Gretchev

Darren Harshenin

Raffaella Bernar

We will continue our work to advocate for mineral exploration in the
West Kootenays!

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WWW.CMEBC.COM




February 15th, 2022

West High Yield's objective is to bring into production one of the world's largest, greenest deposits of high-grade magnesium. We have contained 10.6 million tonnes of magnesium (inside of our 7.5 sq/km out-crop discovery) based on our preliminary economic assessment, done by SRK Consulting engineers of Denver Colorado. West High Yield Resources owns 100% of 7,891 square contiguous hectares which will support open-pit mine and processing facilities. We have **the full infrastructure in place** including roads, highways, nearby rail, electrical power, water, and natural gas. We are 2 miles north of the U.S. Border with supporting industries and rail hub and seaport nearby.

We submitted the mine permit application on February 14, 2019, as well as the supporting Environmental Assessment and Environmental baseline report. We have conducted micro-plant process testing to evaluate alternative processing methods which have yielded positive that will significantly reduce the capital project costs and therefore improve on the project economics.


The Company is pleased to announce conclusions and recommendations of a Stage 1 Pre-Feasibility Study ("PFS") report conducted by Kingston Process Metallurgy Inc. ("KPM") of Kingston, Ontario providing an evaluation of Magnesium processing and recovery alternatives and metallurgical testing on the Company's Magnesium bearing serpentine. The PFS Stage 1 testing focused on leaching and purification tests and development of basic process data required to complete engineering design and economic analysis. KPM's report stated, "overall, the work has clearly demonstrated that it is possible to produce a high purity (>99%) Magnesium chloride ("MgCl₂") solution from Record Ridge material using a commercially proven Hydrochloric acid ("HCl") based treatment process with a recovery rate of 94.85%. This solution would be suitable for the production of high value, high purity Magnesium Oxide ("MgO") and flame retardant quality Magnesium hydroxide ("Mg(OH)₂") using a commercially proven pyrohydrolysis." KPM recommended The company proceeds to Stage 2 of the PFS involving completion of the engineering design and costing.

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For further information or quote requests, please contact:
Rob Hoffman, Western Canada Regional Manager
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Brent Mawdsley, Business Development Manager
BrentMawdsley@actlabs.com cell: +1.604.202.4766



www.actlabs.com

Our anticipated Magnesium Oxide production process would generate low CO2 emissions and be used to reduce CO2 emissions and improved fuel economy in transportation.

Anticipated future design changes incorporating lighter metals point to dramatic increases in demand for magnesium in the automotive industry, aerospace, rail, and other transportation industries. Other future growth in Magnesium Oxide applications includes magnesium batteries, magnesium wallboard, and cement.

Magnesium is a lightweight metal, 33% lighter than aluminum. We anticipate significant worldwide growth in demand for magnesium as countries focus on reducing fossil fuel consumption and carbon production.

Magnesium Wall Board that is fireproof, smoke-proof, waterproof, mold and mildew proof, and termite-proof. It also reduces deforestation.

Magnesium Oxide other uses include:

Magnesium Cement starts at 9000 psi – 45,000 psi making it last thousands of years, it absorbs CO2 emissions as it sets and cures. Environmentally friendly non-toxic cement. It requires 20-40% energy compared to traditional Portland / Inland Cement.

Magnesium nitrate fertilizer to replenish magnesium minerals and nutrients to our agriculture industry. A highly water-soluble magnesium nitrate can be applied as foliar feeding or through irrigation systems. Ideally suited for the use in the prevention and the correction of magnesium deficiency in agriculture vegetables and plants.

Magnesium Batteries / secondary cell batteries are an active research topic, specifically as an alternative, Magnesium Batteries (2-ions)... To replace lithium-ion batteries(1-ion). Magnesium-ion battery has long been attractive not only because it's less likely to overheat, but also has up to *twelve times the energy density* of a lithium-ion battery *and its charge-discharge efficiency is five times greater.* (Very Green)

<http://www.whyresources.com/>



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January 31st, 2022

Taranis to Complete Airborne Mag & EM Surveys at Thor

Taranis Resources Inc. is pleased to inform its shareholders on activities at its Thor Project in British Columbia.

Taranis has engaged Expert Geophysics of Newmarket, Ontario to complete helicopter airborne Mag/EM surveys on its 100%-owned Thor property. The primary objective of the survey is to map a large, buried magnetic body that occurs on the east side of the Thor deposit. Based on analogies with the world-famous Lepanto Cu-Au deposit, this geophysical feature is a prospective buried intrusive, and potentially the source of metals in the overlying Thor epithermal deposit. At Lepanto, this porphyry body contains most of the metals in the linked porphyry-epithermal deposit and was discovered in 1993 after four centuries of mining the epithermal part of the deposit.

John Gardiner, CEO states “Several years ago, we began to notice that the epithermal deposit at Thor showed a distinctive geometry peripheral to a large magnetic anomaly. This geophysical survey is important since it will map the subsurface geology at depths up to one (1) km deep down-dip of the epithermal deposit. This specific airborne system was selected because of its ability to map geologic formations and alteration haloes in the subsurface. In addition, it is also expected to provide additional targeting information for the newly discovered Thunder Zone at the north end of the deposit discovered in 2021 under a rockslide, and an area north of the deposit covered by a massive gossan highly enriched in nickel and cobalt. The extreme terrain at Thor makes use of a helicopter geophysical surveying essential to get good coverage over the area and provide accurate modelling of the subsurface geology. I am particularly excited to see the results of this survey because it is likely to provide the framework for a large precious/base metal deposit that includes a Source (*Intrusive/Porphyry*), Transport (*Thor Fault Zone*) and a Deposition site (*Epithermal Deposit*). Any, or all of these important parts of a hydrothermal system can be mineralized. Riding on the success of our 2021 drilling program that discovered the Thunder Zone at the northeast end of the deposit under a rockslide, we are now simultaneously embarking to explore for the potentially largest piece of the linked porphyry-epithermal deposit”.

<https://www.jigmining.com/>



February 1st, 2022

Rokmaster's Recent Metallurgical Tests Achieve 99.3% Oxidation and 96% Gold Recovery at Revel Ridge

Rokmaster Resources Corp. is pleased to relay the positive results of the current test work program undertaken on the gold-dominant mineralization from the Revel Ridge Project, located in southeastern British Columbia.

Rokmaster's recent test program is part of the ongoing assessment of metal recovery technologies to refine and optimize the metallurgical responses of the Revel Ridge Main Zone ("RRMZ") mineralization.

Previous bulk samples were shipped to Base Metallurgical Labs in Kamloops, B.C., and composited using the same procedures and recipe as formerly used to remake the JL1 composite test sample.

The 2021 JL1 Composite was used to successfully test the new gravity-flotation flowsheet without using any preconcentration. Gravity concentrate and sulphide concentrate were then combined to create the pressure oxidation ("POX") feed, on which the latest results are below.

Recent POX tests on the upgraded grav-float concentrate are now achieving 96.0 – 99.3% oxidation. The POX parameters to achieve these high levels of oxidation, although continuing to be optimized, are:

- Pre-acidification
 - Temperature: 30-60°C
 - Target pH: 1.0-2.2
 - Retention time: 15 mins – 1 hour
- POX
 - Feed Pulp Density: 10-15% solids (w/w)
 - Temperature: 220°C
 - O₂ Over Pressure: 100psig (6.89 bar)
 - Retention time: 60-120mins
- Hot Curing
 - Temperature: 90-100°C
 - Retention time: 4 hours

The POX tests are indicating that oxygen transfer is a key consideration for this mineralization, so pulp density and residence time optimizations are ongoing. Mineralogy is also being undertaken to more fully understand the changes through the process.

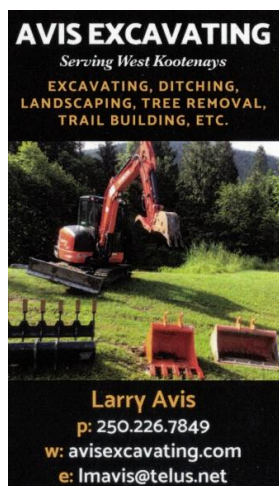
Leaching of these oxidized concentrates are achieving gold recoveries over 96.0%. Test work is now optimize on ptimize the leach parameters, increasing overall recoveries, and other flowsheet alternatives such as the Albion Process™.

John Mirko, President and CEO of Rokmaster stated:

“We are excited about these metallurgical developments, the decreased mass pulls, increased gold concentrate grades, and pressure oxidation parameters being refined with high leach recoveries. We would like to thank those metallurgists for continuing to persevere and achieve such excellent results.

Rokmaster will now ptimize this flowsheet and undertake variability testing this year.”

<https://rokmaster.com/>



Chamber report by Brad Gretchev:

There is still snow on the ground but that doesn't mean you can't get out and start scouting those targets. There are many areas with new logging roads to explore. You can always come to the Chamber to view our mineral specimens from historical mines in the area and to conduct research to prepare for the 2022 prospecting season.

We are excited to host the grade 5/6 class from the Blewett School on Friday March 4th, 2022. We are sure they will enjoy their experience here at the Chamber.

We are also planning on offering tours of the Kenville Mine starting in the spring so if you are interested in joining a tour please contact the Chamber and we will add you to our list. 250-352-5242 or email us at chamberofmines@netidea.com or cmebc1@gmail.com

We have a full inventory of the Garrett Deluxe Panning Kits which include a large 14" pan, a 10" pan, a classifier pan, a sniffer bottle, two keeper vials, tweezers/loupe and a book on how to prospect for gold. The kit is **\$60.00** and we accept cash or cheque.

Don't forget that we will be hosting our Spring Banquet at the Hume Hotel on **Saturday April 2nd, 2022** starting at 5PM with dinner served at 6PM followed by presentations from local mining companies and our live auction. Tickets are \$55.00 each please contact Brad Gretchev at the Chamber to reserve.

2022 Basic Prospecting Course from **Monday May 2nd – Sunday May 8th, 2022.**

Monday – Friday evening classes will begin at 7:00PM – 10:00PM

Saturday and Sunday field trips will begin at 8:30AM

Subjects covered in the Basic Prospecting Course will be:

Mineral Identification, Rock Identification, Ore Deposits, Strategic Minerals, Industrial Minerals & Mineral Economics, Geochemical & Geophysical Surveys, Placer Mining, and Prospecting Procedures & Mineral Titles.

COST: – \$500.00 includes a textbook, a mineral ID tool kit, course certificate and other supplies.

(If you have already completed the mineral identification portion of the course in previous sessions the cost for the course will be \$380.00 and you are welcome to attend the mineral identification sessions again.)



February 7th, 2022

Cassiar Gold Completes Acquisition of Sheep Creek Properties

Cassiar Gold Corp. announces that it has completed the acquisition of a 100% interest in the Bayonne and Sheep Creek properties collectively known as the Sheep Creek Camp, located near Salmo, British Columbia. Covering an area of 3,939 hectares, the Sheep Creek Camp is highly prospective for both gold and silver discoveries and ranks as the third largest past-producing orogenic gold district in B.C. (behind Barkerville and Bralorne) with historical gold production of approximately 742,000 oz at an average grade of 14.7 g/t.^[1]

"We are excited to now own 100% of the Sheep Creek Camp which provides our shareholders with another avenue for exploration and discovery upside," stated Marco Roque, President and CEO of Cassiar Gold. "The Sheep Creek Camp is located on the same inland orogenic gold belt as our flagship Cassiar Gold Property and the past-producing Cariboo-Barkerville district and is a geological analogue to both projects in that it hosts a multitude of gold-bearing quartz veins with the potential to carry high-grade gold, as indicated by its historical production grades^[2]. There are between 60 to 70 known vein systems at the camp and little modern exploration has taken place since the 1950s. We are currently evaluating the project for exploration work in 2022 and will take our geological understanding of the Cassiar South area and apply them to Sheep Creek to maximize our chances of exploration success."

Sheep Creek District Background

The Bayonne and Sheep Creek properties are located approximately 42 km and 12 km, respectively, east of Salmo, B.C. The properties consist of 79 crown grants and 31 mineral tenures totaling 3,939 hectares in the Nelson mining division and are prospective for gold and silver.

Gold-bearing quartz veins were first discovered in the Sheep Creek area in 1896 and led to staking of the initial claims to cover the Yellowstone and Queen veins. Limited production in the Sheep Creek camp began in 1900 with the development of the Yellowstone mine, followed by the development of the Queen mine. Additional discoveries of auriferous veins were made in 1904-1905 and led to the development of the Kootenay Belle, Nugget and Motherlode mines by 1911. The Reno vein, discovered in 1912, was the last significant discovery made in the Sheep Creek gold camp, but became its most productive mine.

Since the early days of discovery, surface work and an estimated 65 km of underground development has identified approximately 60 to 70 veins over a roughly 8-km north-south trend. Total production from the Sheep Creek gold camp from 1900 to 1951 was approximately 742,000 ounces of gold, 365,000 ounces of silver, 377,000 lbs of lead and 312,000 lbs of zinc from 1.72 Mt of ore. Total production from the mines that comprise the Company’s Sheep Creek Project (including Motherlode, Bluestone, Reno, Nugget, Gold Belt and Queen/Sheep Creek) is approximately 623,140 ounces of gold and 321,000 ounces of silver, or about 84% of the camp’s total gold production.^[3] In contrast to Barkerville and Bralorne, the Sheep Creek gold district has seen little exploration since mining ceased in the early 1950s.

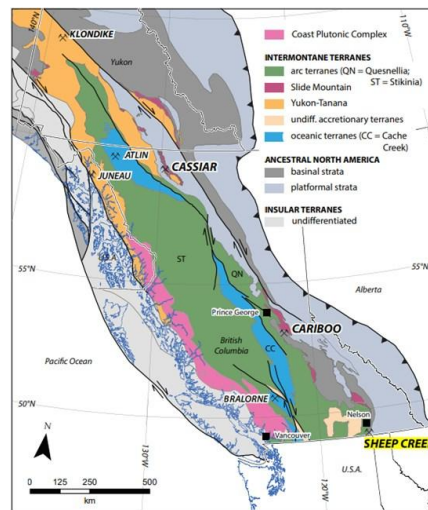



Figure 1: Terranes of British Columbia, showing locations of significant orogenic gold districts (Geoscience BC Report 2017-15).

To view an enhanced version of Figure 1, please visit:

https://orders.newsfilecorp.com/files/2958/112901_a8e3d840945949ed_002full.jpg

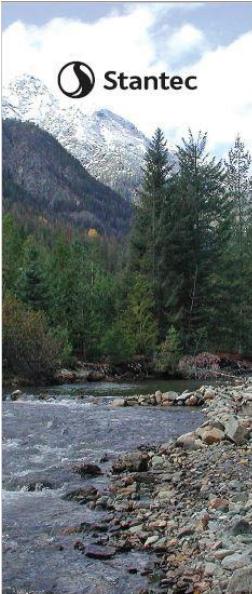


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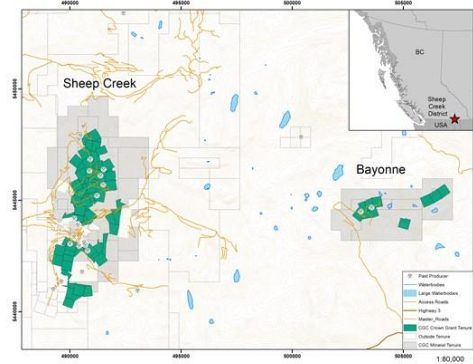


Figure 2: Sheep Creek District with location of Cassiar Gold's Crown Grant and Mineral Tenures.

To view an enhanced version of Figure 2, please visit:

https://orders.newsfilecorp.com/files/2958/112901_a8e3d840945949ed_003full.jpg

Margaux Resources optioned the Sheep Creek gold district in 2017 and exploration work that followed included the compilation and digitization of historical data, a prospecting and rock sampling program that returned samples grading between 17.8 g/t to 71.5 g/t Au, a LIDAR (light detection and ranging) survey, the application for multi-year area-based drill permits (see Margaux Resources news from January 6, 2017; February 8, 2017; September 11, 2017; December 12, 2017). Margaux Resources commissioned an independent National Instrument 43-101 report in 2017 and undertook a 19-hole drill program (4,039 m), which concluded in mid-December 2017 with limited drill success. However, further geological evaluation of the drill campaign indicates that additional exploration is highly warranted to better target the vein systems.^[4]

Geology & Mineralization

The Sheep Creek area is underlain by a thick sequence of Lower Cambrian and Upper Proterozoic argillite, quartzite, limestone and schists belonging to the Quartzite Range, Reno and Laib Formations. Two north-trending anticlines are the dominant structures in the area. Gold veins in the Sheep Creek camp occur preferentially in bedded sequences of quartzite and phyllitic quartzite of the Reno and Quartzite Range Formations of the Lower Cambrian Hamill Group. The most productive gold veins were steeply south-dipping quartz veins containing pyrite, pyrrhotite and base metal sulphides that occupy ENE-trending fault-fracture zones with dextral strike-slip displacement.

Although there are gaps in the distribution of the veins, they are mostly regularly spaced on a frequency of approximately 100 to 200 m within a 1.2-km-wide, 7-km-long north-northeast trending corridor that coincides with the Western anticline and the west limb of the Sheep Creek anticline. Veins are preferentially developed in competent units in the folded sedimentary sequence, and only outcropping or near-surface veins have been historically mined.

Like the Cassiar Gold district, in addition to extensions of known veins and additional parallel veins, the Company believes there is untested potential for unexposed stacked veins at Sheep Creek where additional, competent folded units lie below the areas of historical mining, especially in anticlinal hinges.

<https://cassiargold.com/>

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February 14th, 2022

West Mining Engages Contractors for 2022 Drill Program and Geophysical Survey on the Kena Gold-Copper Project, BC

West Mining Corp. is pleased to announce it has now lined up diamond drilling and geophysical contractors for the 2022 exploration program on its 100% owned Kena Gold-Copper project in southeastern British Columbia. The over 9,000 hectare Kena Project, consists of the Kena, Daylight and Athabasca Properties which trend along a 20 kilometre long favourable mineralized belt.

The Company has contracted Wade Critchlow Enterprises Ltd. (“Critchlow”) of Salmo, BC, for the 2022 diamond drilling program. Critchlow has many years experience drilling on the Kena Project, including completion of West’s 2021 diamond drilling programs. The fully funded 2022 program proposes 5000 metres of diamond drilling to commence in early summer.

Prior to diamond drilling, additional geophysical surveys including magnetotellurics (MT) and detailed ground magnetics, will be completed to assist with final target definition. Peter E. Walcott and Associates Ltd. of Coquitlam, BC will conduct the ground geophysical surveys.

“It’s exciting to see the 2022 field season taking shape. Having secured these two Companies, we are now eager to get on the ground,” noted President and CEO Nicholas Houghton. “The MT survey will be a huge assist for our Geological team and the drill company in enabling West to have an accurate and targeted program.”

Currently detailed 3D computer imagery, primarily within the Kena Project Gold Resource blocks’ high grade corridor is ongoing. This modelling, along with the early season geophysical surveys, is integral to producing accurate diamond drill targeting for resource upgrade and expansion. **The Kena Project’s current resource estimate is 2.77 million ounces of gold inferred and 0.56 million ounces of gold indicated** at 0.25 g/t Au cutoff (see News Release dated May 11, 2021).

<https://www.westminingcorp.ca>



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Membership Application form for the Year 2022

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- LARGE CORP MEMBERSHIP (51+ EMPLOYEES) \$500.00 _____
- Date..... \$ _____

THANKS FOR YOUR SUPPORT ----- Chamber of Mines of Eastern BC

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