



# 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](mailto: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*

### ***2023 Spring Banquet***

It's time again for our Spring Banquet so please come join us at the Hume Hotel on Saturday April 1<sup>st</sup>, 2023. Happy hour will begin at 5PM with an AAA Roast Beef Buffet at 6PM followed by a live auction. There will be presentations from local mining companies.

Tickets are \$60 per person and are available at the Chamber. Please call us at 250-352-5242 or email us at [chamberofmines@netidea.com](mailto:chamberofmines@netidea.com) or [cmebc1@gmail.com](mailto:cmebc1@gmail.com) for reservations. Please let us know soon as we are required to provide numbers.

We are also hoping to host an underground tour of the Kenville Mine in Blewett, BC on Saturday April 1<sup>st</sup> during the daytime. Cost is \$40 per person and will include lunch. **More details to come.**

We appreciate any donation items that can be used in the auction as well as sponsorship!

February 2023

## **2023 Basic Prospecting Course and Contest!**

***May 1<sup>st</sup> – May 7<sup>th</sup>, 2023***

Don't miss out on your chance to win a seat in our Prospecting Course and a deluxe Prospecting Kit.

Click below to visit our website or keep reading for information on our Basic Prospecting Course and Contest!

[2023 Basic Prospecting Course and Contest!](#)



February 2023



## **BASIC PROSPECTING COURSE**

**May 1<sup>st</sup> – May 7<sup>th</sup>, 2023**

Every Year the Chamber of Mines of Eastern BC offers a Basic Prospecting Course.

### ***Subjects covered are:***

Mineral Identification

Rock Identification

Ore Deposits

Strategic/Critical Metals, Industrial Minerals & Mineral Economics

Geochemical & Geophysical Surveys

Placer Mining

Prospecting Procedures & Mineral Titles

Structural Geology

Local Geology and Placer Field Trips

**LOCATION:** - Chamber Office/Museum – 215 Hall St., Nelson, BC

**SCHEDULE:**

- Monday through Friday evenings	7:00 PM to 10:00 PM
- Saturday field trip - Placer	8:30 AM to 3:30PM
- Sunday field trip - Hard rock	8:30 AM to 5:30 PM

**COST:** - \$525.00 includes a textbook, a mineral ID tool kit, Course Certificate, Chamber of Mines 1 Year Membership and other supplies.

### **INSTRUCTORS:**

The course is taught by local experienced geologists and prospectors who volunteer their time to keep costs down and support ongoing activities of the Chamber.

To register, contact and submit the fee to Brad Gretchev at the Chamber office,  
215 Hall Street, Nelson, BC. or call (250)352-5242 or email,  
cmebc1@gmail.com

February 2023



## 2023 BASIC PROSPECTING COURSE & PROSPECTING KIT CONTEST!

With the purchase of a ticket, you will be entered into a draw for 1 seat in our **Basic Prospecting Course** held from May 1<sup>st</sup> – 7<sup>th</sup>, 2023

and a **Prospecting Kit** consisting of

- |                                     |  |
|-------------------------------------|--|
| 1 - Deluxe Garrett Gold Panning Kit | 1 - Garrett Edge Digger with Sheath for Belt Mount |
| 1 – Garrett Field Bag               | 1 - Garrett Cloth Bag                              |
| 1 – Garrett Specimen Pouch          | 1 – Field Notebook with Water Resistant Paper      |
| 1 – 30X Pocket Loupe                | 1 - Lanyard  |
| 1 – Streak Plate                    | 1 – Magnet Pen                                     |
| 1 – Pair of Work Gloves             | 2 – Large Sample Bags                              |
| 1 – Amethyst Crystal                | 1 – Acid Testing Bottle                            |

1 – Copy of E.L. Faulkner’s Introduction to Prospecting Book

*Tickets are \$25 for 1 & \$60 for 3*

Tickets can be purchased at the Chamber of Mines (215 Hall St. Nelson, BC)

You can also call us at 250-352-5242 to arrange over the phone payment or email us at

[cmebc1@gmail.com](mailto:cmebc1@gmail.com)





February 14<sup>th</sup>, 2023

## **Taranis Outlines 2023 Exploration Plans Including Deep Drilling of Porphyry Target**

Taranis Resources Inc. is developing an exploration plan for its 100%-owned Thor project in British Columbia for 2023. Taranis has compiled substantial evidence that the 2.2 km long epithermal deposit is the uppermost expression of mineralization of a deep underlying porphyry deposit. Testing this theory will require significantly deeper drilling than was necessary to define the epithermal resource. However, the large size and low cost of production inherent to porphyry mineralization could conceivably increase the Mineral Resource significantly. The combination of near-surface high-grade mineralization and deep, consistent hypogene mineralization would make Thor an important mining asset in British Columbia.

### **A New Generation of Porphyry Deposits in British Columbia**

Taranis has carefully examined the nearby Max porphyry molybdenum deposit (8 km SW) as it explores Thor, in order to contextualize and interpret the vein-type Ag/Au/Pb/Zn/Cu epithermal mineralization at Thor. Previous descriptions of the Max mine show that the porphyry is entirely hosted within metasedimentary rocks, and it is associated with minor peripheral epithermal type veins that contain silver, lead and zinc. Third-party publicly available research has shown that the epithermal-type veins peripheral to Max were formed by the intrusive. Taranis believes that the Thor epithermal deposit is a direct analogy to this situation, and that the comparatively massive epithermal deposit occurs in close proximity to a concealed intrusive body.

Accordingly, Taranis is exploring for a porphyry deposit which is almost entirely sediment hosted and does not outcrop. These are a very rare deposit type, and known examples include one of the largest deposits found in North America (Bingham Canyon). The alteration footprint is markedly different from classic volcanic-hosted porphyry deposits that are commonly found throughout British Columbia, which complicates exploration. Sediment-hosted porphyries also occur further east than the classic volcanic-hosted porphyry deposits. These have been described elsewhere around Butte, Montana and are referred to by George Brimhall of the University of California, Berkeley, as DASH deposits (Deep Apex Sediment Hosted deposits).

## **Deep Drilling of Porphyry Target**

Taranis has developed a robust data management and interpretation plan to review the considerable amount of data from the 2022 exploration program. In addition to this it has filed a Notice of Work application with the British Columbia Ministry of Energy, Mines and Low Carbon Innovation (“EMLI”) to build access roads to deep drill sites, which is currently out for consultation. Taranis has undertaken extensive geological mapping and alteration mapping at surface to gain further understanding of the concealed DASH porphyry target. An airborne magnetotelluric and magnetometer survey in 2022 has proven to be indispensable in the mapping of the subsurface geology and identified a large conductivity ‘donut’ that underlies the Thor deposit, which is coincident with a magnetic anomaly. Previous drilling has shown that this feature is overlain by extremely thick sericite and andalusite alteration that commonly contains quartz veins and pyrite.

Many precision sports employ the phrase “aim small, miss small” to describe the process of picking out a small target on a larger target. This increases the probability of hitting the target and improves accuracy. Taranis’ data management and interpretation plan is based on this approach. By mapping alteration and surface geology and combining that data with subsurface geology from the airborne geophysical survey, Taranis intends to aim at very small targets deep below the epithermal deposit, and in so doing, find a very large mineral resource.

## **Update of Epithermal Mineral Resource Estimate**

Taranis is also planning on updating the NI 43-101 Mineral Resource estimate for the epithermal deposit. The last Mineral Resource estimate was completed in 2013 when there were 152 drill holes completed on the deposit. Taranis has now completed over 250 drill holes in the deposit and the understanding of the deposit has been greatly increased. Emphasis will be placed on including additional strategic companion metals that include antimony and indium which are expected to add considerably more value to the Mineral Resource in addition to silver, gold, lead, zinc and copper, which were the only minerals contemplated in the maiden Mineral Resource Estimate.


The NI 43-101 compliant Mineral Resource Estimate will be designed to incorporate recovery rates once Taranis is able to conduct its exploration Bulk Sample. The polymetallic Bulk Sample is currently permitted and will provide more information about the physical characteristics of the epithermal Mineral Resource at Thor. Taranis has filed a Notice of Objection with the Canada Revenue Agency concerning the use of flow-through financings to fund the requisite study of the mineral resource (See Taranis News Release dated January 9, 2023).

## Reclamation Activity & Bonding

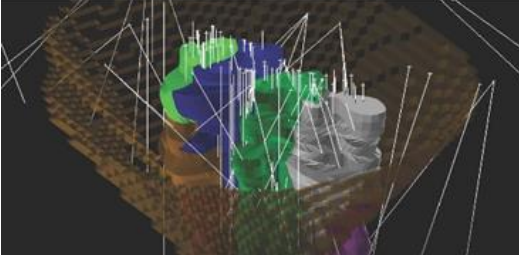
Taranis has approximately C\$250,000 of outstanding reclamation bonds on the Thor project that date back to 2006 when Taranis originally acquired Thor. Tarranis has reclaimed many of the access drill roads and sites which are monitored for revegetation. EMLI has a facility that allows companies to reclaim the bonding provided they can demonstrate that the areas have been reclaimed and recontoured. Taranis will hire an independent firm to oversee the progress of reclamation activity and provide this to EMLI to evaluate the requisite level of bonding for the current state of the project.

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February 2023



February 23<sup>rd</sup>, 2023

## **Ximen Receives Mines Permit for Kenville Gold Mine Nelson, BC**

**Ximen Mining Corp.** announces that it has received the draft of the Mines Act Permit for the underground development program at its Kenville Gold Mine from the BC government.

The Company has now received two permits in draft, one from the Ministry of Environment and this recent one from the Ministry of Energy, Mines and Low-Carbon Innovation. The draft Environmental Permit was received earlier and has been reviewed and approved by Ximen. The Company has now submitted its final responses and we anticipate the final permit to be issued shortly.



*Mine Manager, Mr. Lloyd Penner*

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November 2010

The advertisement for High Terrain Helicopters features a blue background with a white helicopter icon at the top. The company name "HIGH TERRAIN" is prominently displayed in large, white, bold letters. Below the name is a list of services and equipment. At the bottom left, contact information is provided, including a 24-hour phone number and the company website. On the right side, there is a small inset photograph showing a helicopter on a landing pad, with the date "November 2010" printed below it.

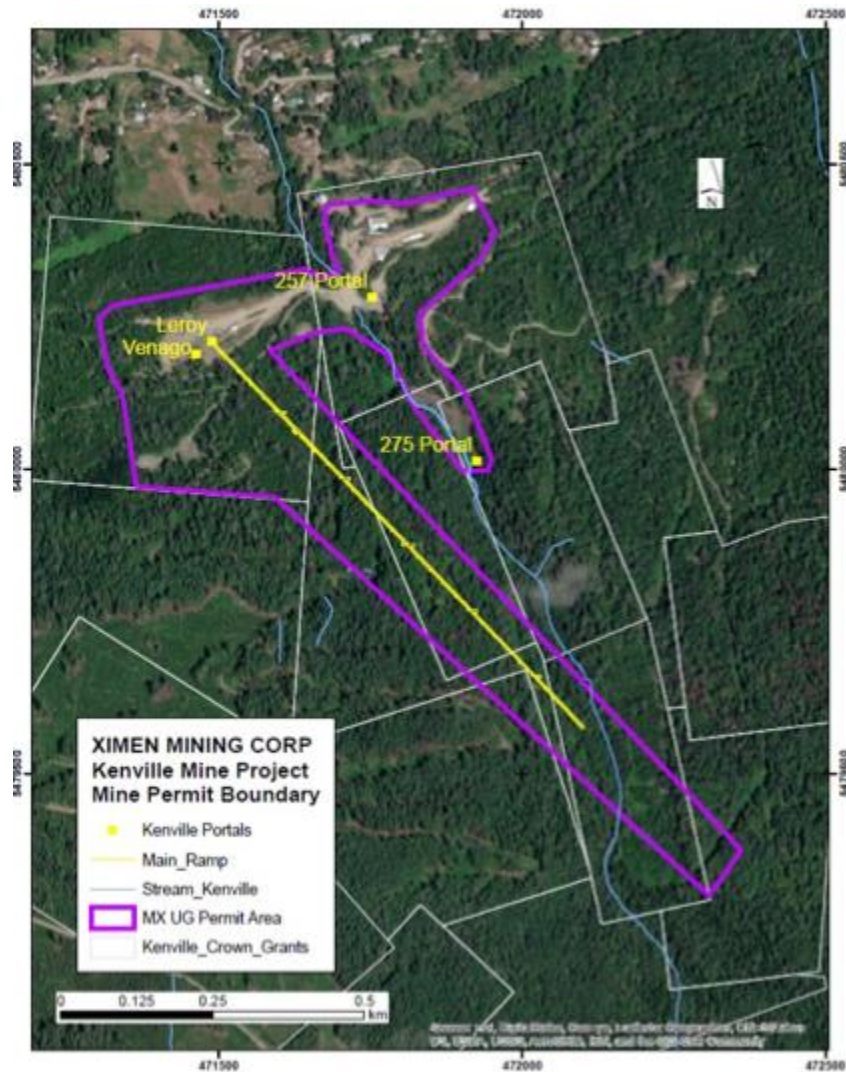


February 2023

Now received is the all-important Mines Act Permit draft approving the following key activities:

- Establishment of the new Venango Portal and 1200 m of decline development at this portal with associated re-mucks, safety bays and sumps
- Underground Exploration Drilling (20,250 m) from the new Venango decline
- Establishment of one Waste Rock Storage facility (approx. 3750 m<sup>2</sup>)
- Installation of surface water management structures
- Location of one portable office structure
- Onsite fuel storage (two 4,500 enviro tanks)

The Company is very pleased with the permit draft and has reviewed the conditions that apply prior to and during the development program, a majority of which have already been met. Ximen is making a final review of the exact wording and conditions. Once our review has been completed and relayed to the Mines department, the final Mines Act Permit is expected to be received.



*Map showing revised Kenville mine permit boundary*

February 2023

Key highlights of the Draft Permit conditions are:

- Reclamation Security: \$103,800 must be posted with the Minister of Finance
- Construction to be completed under the supervision of a Professional Engineer
- Finalizing the development and implementation of a Ground Control Management Plan that is consistent with industry standards
- Waste rock dumps must be developed in accordance with the design and recommendations prepared by a Professional Engineer
- A foundation inspection must be completed by a Professional Engineer prior to waste rock dump construction
- A monitoring well pair (shallow and deep) located near the underground workings must be installed and continuously monitored for water levels
- The Archaeological Chance Find Procedure (CFP) must be implemented prior to commencement of work



*Kenville Site (2023)*

February 2023


“This Permit brings us one step closer to, moving forward into a more sustainable self-reliant economy, working at expanding the art of underground mining, a long industrious trade that empowers those executing the work with a sense of accomplishment and pride, while maintaining our environment and utilizing hydro, a green energy source to advance the project.

The Kenville Gold Mine is again making firsts, it was the first Underground Gold mine in BC, and now will be achieving first, as Ximen completes one more milestone bringing us closer to empowering families with the opportunity to embrace a sustainable income, all within 15 minutes of their homestead.

This, while respecting and maintaining the beauty and abundance of all that surrounds us and adds to the quality of our lives, providing for your family, building a happy healthy community, while doing it in a socially responsible manner with minimal impact on the environment. This is our focus, as we proudly advance towards opening what we consider to be one of the greenest gold mines in Southern BC, The Kenville Gold Mine,” states Anderson, CEO.



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February 1<sup>st</sup>, 2023

## **West High Yield (W.H.Y.) Resources Ltd. completes 2022 core assay program and discovers new vein-hosted gold to 32.5 g/t**

West High Yield (W.H.Y.) Resources Ltd. is pleased to announce the confirmation of additional high-grade gold assays (see Tables 1 and 2) and to provide a status update from its 6,000 metre exploration drilling program initiated in 2022 at its Midnight gold claim (“**Midnight**”) located in Rossland, British Columbia (the “**2022 Drilling Program**”).

The Rossland Gold Camp historically produced over 2.76 million ounces of recovered gold and 3.52 million ounces of recovered silver.

### **HIGHLIGHTS**

- **Additional high-grade gold assays including:**
  - MN22-13 262.50-263.35 metres depth – 32.5 g/t Au over 0.85 metre
    - MN22-18 41.0-47.0 metres depth – 7.99 g/t Au over 6 metres
  - including MN22-18 45.5-47.0 metres depth – 13.55 g/t Au over 1.5 metres
- **41 holes completed and logged in 6,191 metre NQ2 diamond drilling program**
  - **Targets tested in historical Midnight, IXL and OK mining areas**
    - **24 drill holes sampled**
    - **2,865 sample assays including QAQC completed**
  - **693 samples in 17 holes marked for 2023 spring sampling program**

We recently received the balance of the outstanding 2022 assay data which was focused specifically on the gold content. The Company intersected more structurally-controlled mineralization in high-grade assay intervals such as those in MN22-13 northwest and MN22-18 southwest of the central Midnight mineralization along the broad northeast trend of listwanite replacement and the high-grade Baker Vein. Assays using gravimetric protocols verified significant grades up to 32.5 g/t gold (“Au”) in intervals from 85 cm and composite intervals to 6 metres (see Tables 1 and 2)”, stated Greg Davison, P.Geo and the Company’s internal qualified person (the “**Qualified Person**” or “**QP**”) for Midnight.

“We look forward to completing the assay sampling of seventeen (17) remaining holes in the 2023 Midnight drilling program”, Mr. Davison further noted.

The 2022 Drilling Program was completed and closed for the winter season on November 15, 2022 at Midnight (see Figure 1). A total of 6,191 metres were completed (see Table 3) during the course of the 2022 Drilling Program.

Figure 1 shows the distribution and status of the 2022 permitted and active drill collar locations relative to the Company's drilling activity from 2006 through to 2010. Assays received from 2,856 core and QA/QC samples are reported for twenty-three (23) completed holes and one partially sampled hole (see Tables 1 and 2). Seventeen (17) holes, currently with 693 samples and QAQC insertions, await core cutting and sampling in the spring 2023 program. Geological compilation and Leapfrog modelling of the current and historical drill and geological results is ongoing.

Final LiDAR bare-earth maps are pending receipt in February 2023.

**Figure 1.** Location map of 2022 and post-2000 historical drilling on Midnight, IXL and OK mining claims and grants with mine portals and access trails. Current drilling completed at OK South and Upper Portal, IXL Upper and Lower Adit, and Midnight 3100 and 3200 Portals SSW of the Italian Tunnel. Sampling pending (purple) for 17 holes.

**Table 1.** Summary of recent 2022 drill core intersections with 2 gram-plus Au g/t values. Samples >10 g/t Au were finished using gravimetric analysis and/or screen metallics (highlighted).

**Table 2.** Summary of previously reported 2022 drill core intersections with 4 gram-plus Au g/t values. Samples greater than 10 g/t Au were finished using gravimetric analysis and/or screen metallics (highlighted).

### **2022 Exploration Summary**

The 2022 Drilling Program was focused on identifying extensions to zones of known Midnight mineralization, areas with potential within and peripheral to the OK and IXL historical mines, and deep targets below the known footprint of mineralization (Figure 1). A total of 31 collar locations are fully permitted for the current program.

The drilling under the 2022 Drilling Program initially collared around the Midnight mine workings on targets from surface to 200 metres depth located to the southeast, east and north of the historical high-grade Baker Vein. These geological targets occurred within and peripheral to the Listwanite (quartz-carbonate-serpentine) zone which straddles the east-northeast trending fault contact between the OK ultramafic intrusion and the Jurassic-age andesite-dominant sequence to the north.

West High Yield brought in a second and third drill to expand the area of immediate interest outside the Midnight-Baker targets and to explore additional and deeper targets from 200 metres to more than 600 metres transecting the andesite-ultramafic contact and below the Baker Vein from the Midnight and neighbouring IXL claims.


The additional drills also targeted high-grade polymetallic Au-Ag-Cu-Pb, massive to stockwork-style silicified andesite-hosted mineralization with pyrrhotite and pyrite reported and observed from the OK Mine area historical drilling and is located between the OK Portal and the Upper Raise on the OK claim 50m east of the Cascade Highway.

**Table 3.** 2022 Midnight Drilling Program. The high-grade gold intersections occurred mainly within variably deformed and serpentinized peridotite showing moderate to pervasive quartz-serpentine-carbonate replacement transected by discrete quartz-dominant veins to 50cm and sets of <1-10 mm veinlets with minor to sparse sulphides. The gold occurred within and peripheral to the multi-stage veins and irregular stockwork-style, locally with breccia textures. Massive, finer-grained, weakly altered black peridotite, with 5% to 10% disseminated to microfracture-controlled pyrite and/or pyrrhotite, intersected discrete core intervals of 10-60 metres, consistently west of the Midnight and in the IXL, generally reported lower Au grades (0.2-2.0 g/t Au). These intervals were distinct from the coarser-grained peridotite containing trace sulphides, commonly pyrrhotite, and gold values at or near detection limits (<0.005-0.01 g/t Au).

Coarse-grained pyrrhotite and polymetallic base metal sulphides (Pb, Cu, Mo), typically in vein arrays and breccias, was reported from the hanging wall andesite and basalt flows though gold showed limited values outside the contact zone with the north-easterly alteration trend. Leapfrog compilation with 2D and 3D mapping, of current and historical drilling and underground workings, and recently-received high-resolution LiDAR orthophoto and bare-earth topographic control, will be used to evaluate structural features and geospatial significance of broad alteration, sulphidation and lithological controls in the mineralizing system.


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February 2023

## Chamber report by Brad Gretchev:

Spring is around the corner, and everyone is getting excited to get out into the hills to explore and make new discoveries.

If you are interested in exploration, please come visit us at the Chamber of Mines. We have hundreds of specimens from the Kootenays and from around the world.

We also help people with their research, obtain their FMC, mineral ID, and so much more.

Don't forget about our 2023 Basic Prospecting Course & Contest!

### [2023 Basic Prospecting Course & Contest!](#)

As well as our 2023 Spring Banquet & Kenville Mine Tour



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