

Germanium Mining Corp. Enters into Agreement to Acquire a 100% Interest in the Historical Azure Ridge Mine

09.12.2025 | [The Newswire](#)

Expanding Portfolio in High-Grade Germanium-Copper-Zinc System

[Germanium Mining Corp.](#) ("GERMANIUM MINING", "GMC", OR THE "COMPANY") (CSE: GMC; OTCQB: EMSKF; FSE: 1130) is pleased to announce that it has entered in to an agreement to acquire a 100% interest (the "Transaction") in the Azure Ridge historic mine ("Azure Ridge Project"), within the historically productive Gold Butte-Million Hills mining district, a region long recognized for its polymetallic base-metal and critical-mineral endowment, in Clark County, Nevada USA.

Figure 1. Azure Mine, lower Adit (view S)1 Figure 2. A piece of copper ore outside the Adit

About the Historical Azure Ridge Mine

The Azure Ridge mine was active in 1918, when it produced two carloads of hand sorted ore averaging 40% zinc and one carload averaging 35% copper. Early development on the property, formerly known as the Bonelli mine, consists of five adits (totaling over 377 feet), one 11-foot-deep shaft, two open cuts, and ten pits. The property has remained largely inactive since its brief production period.2

The Azure Ridge deposit consists of fault-controlled carbonate-hosted copper-zinc-lead-cobalt-germanium-gallium mineralization, interpreted as Kipushi-type (carbonate-replacement) style mineralization. The U.S. Geological Survey (USGS) and U.S. Bureau of Mines as part of a 1994 study carried out a sampling program at Azure Ridge.

"Forty-three samples taken. Select samples contain as much as 8.99 % copper, 33.0 % lead, 30.8 pet zinc, 471 ppm cobalt, 3,300 ppm gold, and 142 ppm silver, 150 ppm germanium, and 75 ppm gallium. Mineralized rock occurs sporadically over an area about 5,000 ft long by 1,100 ft deep. The structure is as thick as 9 ft in outcrop. There is an inferred subeconomic resource of copper- lead- zinc- cobalt- gold- silver- gallium- germanium-bearing material. The occurrence of the mineralized rock in small pod-like bodies makes it unrealistic to attempt to quantify resources on the basis of limited sampling. 3"

[Click Image To View Full Size](#)

Figure 3. Excerpt from Report4

Figure 4. Vein of copper in the upper wall of the tunnel5 Figure 5. Miners Cabin at Azure Ridge Mine

"The Azure Ridge Historical Mine is reported in U.S. Bureau of Mines and U.S. Geological Survey records as hosting high-grade copper and zinc shipments, including historical lots averaging approximately 35% copper and 40% zinc, within a fault-controlled carbonate system that also carries lead, cobalt, 3,300 g/t gold, 142 g/t silver, 75 ppm gallium, and 150 ppm germanium," stated President & CEO of Germanium Mining, Mr. Mario Pezzente, "These historical results and government assessments, while not verified or relied upon by the Company and not compliant with current NI 43-101 standards, provide valuable geological context and a robust starting point for modern exploration. The opportunity to systematically evaluate and potentially confirm or expand upon these indications-using today's geophysics, geochemistry, and critical-mineral processing technologies, in a proven pro-mining Nevada jurisdiction-positions Azure Ridge as a compelling

target for a modern germanium, gallium, copper, and zinc discovery."

Geology and Mineralization

The Azure Ridge deposit consists of fault-controlled carbonate-hosted copper-zinc-lead-cobalt-germanium-gallium mineralization, interpreted as Kipushi-type (carbonate-replacement) style mineralization. The U.S. Geological Survey (USGS) and U.S. Bureau of Mines have confirmed the area's high mineral potential for these critical and base metals, noting:

"A large part of the Million Hills Wilderness Study Area has high potential for undiscovered copper, lead, zinc, cobalt, gold, silver, gallium, and germanium in Kipushi-type deposits."

The Apex Mine, located near Enterprise, Utah, represents a classic carbonate-replacement deposit that produced germanium-rich zinc-lead-copper ore within Mississippian limestone. The Azure Ridge Project exhibits similar geological controls, limestone host rocks, fault-related sulfide replacement, and the same Lake Mead metallogenic structural trend, suggesting it may represent an analogue or southern extension of the Apex-style system.⁶

Modern Opportunity in a Pro-Mining America

While the historical records and government surveys relating to the Azure Ridge Mine are not compliant with current NI 43-101 standards and have not been verified by a Qualified Person, they provide a compelling geological foundation for modern exploration.

Early documentation from the U.S. Bureau of Mines (1937) and subsequent U.S. Geological Survey assessments (1994, 2006) describes high-grade copper (35%) and zinc (40%) shipments with accessory gold, silver, cobalt, gallium, and germanium values from fault-controlled carbonate horizons-highlighting the potential for a Kipushi-style, polymetallic replacement system.

With today's advances in geophysical imaging, geochemical targeting, and critical-minerals recovery technology, Germanium Mining believes the Azure Ridge Project represents an opportunity to revisit a historically productive district in the heart of pro-mining Nevada, at a time when the United States is prioritizing domestic supply of strategic elements such as germanium and gallium.

Management of Germanium Mining Corp. cautions that all references to historical data, reports, grades, resources, or production figures are historical in nature and should not be relied upon as current. These historical estimates have not been verified by a Qualified Person as defined under National Instrument 43-101 and do not comply with current NI 43-101 standards. The Company does not treat these historical estimates as current mineral resources or reserves. They are considered useful solely as a guide for future exploration work. Germanium Mining Corp. intends to conduct the necessary geological, geochemical, and metallurgical programs to verify and potentially upgrade this historical information to modern reporting standards.

Land and Environmental Context

The Azure Ridge Project partially overlaps areas designated as Wilderness Study Areas ("WSA") under the Federal Land Policy and Management Act ("FLPMA"). The Company emphasizes that mining and exploration and development activities are permitted within WSAs under current U.S. Bureau of Land Management ("BLM") policy, provided environmental and reclamation standards are met, as is the case with all advanced projects on BLM ground.

Further References

- U.S. Geological Survey Bulletin 1730-E, Mineral Resources of the Million Hills Wilderness Study Area, Clark County, Nevada (1994)

- U.S. Geological Survey Scientific Investigations Report 2006-5197, Mineral Resource Potential of the Gold Butte-Virgin Mountain ACECs (Ludington et al., 2006)
- Wyman, R.V. (1974), The Relationship of Ore Exploration Targets to Regional Structure in the Lake Mead Metallogenic Province, University of Arizona
- U.S. Bureau of Mines (1937), Information Circular 6964 - Mining Districts of Clark County, Nevada

The Transaction

The Company has entered into an agreement with Nicholas Price, an arm's length mineral prospector, to acquire a 100% interest in eight (8) unpatented mining claims comprising 160 acres for making the following payments, subject to regulatory approval

- payment of USD \$5,000 within 3 business days of the prospector providing BLM claim serial numbers;
- USD \$5,000 paid quarterly for the next 24 months after completion of due diligence; and
- subject to a 1.5% NSR.

Qualified Person

Mr. William Feyerabend, CPG, a Consulting Geologist and a Qualified Person under NI 43-101 has reviewed this news release and approves the technical and scientific content.

About Germanium Mining Corp.

Germanium Mining holds an option to acquire a 100% interest in the Lac du Km 35 Property comprised of 75 claims covering an area of 4,150 hectares (41.5 km²), further to its news releases dated January 14th and January 24th, 2025. The Lac du Km 35 Germanium Property is approximately 40 km east of the mining town of Chibougamau in the Nord-du-Québec region of Québec and has excellent access through Highway 167 and a main lumber road that transects the whole property from the west to the east as well as a network of secondary roads.

The Property is underlain by the volcano-sedimentary sequence of the Roy Group and its metamorphic equivalent, the Laganière gneissic Complex, that host the Lac Doré intrusive Suite which is a mafic to ultramafic stratiform and synvolcanic intrusion, and the later stage Duberger felsic pluton; all these rock units belong to the northeast portion of the Abitibi greenstone belt sub-Province of Archean age. To the west of the Property, rocks were metamorphosed at the greenschist facies where the chlorite mineral is ubiquitous while the eastern portion has reached the amphibolite metamorphism grade.

A prominent structural element is the ductile Faribault Shear Zone ("FSZ"), oriented east-southeast, and located towards the eastern part of the Property. The FSZ dips to the south-southwest and ends to the Grenville Front which extends to the southwest-northeast for several hundreds of kilometers. The Grenville Front separates the Abitibi greenstone belt from younger Mesoproterozoic rocks and is only a few kilometers to the east of the Property. The FSZ is an important feature that could have been joined by other permeable zones at depth as a preferential conduit for hydrothermal fluids.

Discovered by government geologists in 1998 and never followed up, the Laganière Germanium showing consists of a peridotite outcrop within the Laganière gneissic Complex that comprises amphibolites and hornblende and biotite gneisses. The Laganière showing returned a value of 0.02% (186 ppm) germanium and is currently the highest germanium value ever reported from an outcrop in the whole Québec.

The Laganière Germanium showing is located right alongside the main lumber road and immediately

adjacent to the south to a cluster of electromagnetic anomalies of roughly 400 m x 400 m in size that were never tested. The Laganière germanium showing is also 450 m northeast of the FSZ, 800 m from the southern margin of the Duberger felsic pluton and approximately 2 km to the west of the Grenville Front. Apart from regional mapping and sampling of government geologists, the Laganière Germanium showing area remains vastly underexplored and overlooked and constitutes the prime focus for the Company.

Recent exploration work performed in 2024, consisting of prospecting and sampling, allowed to collect 39 outcrop samples. Values up to 0.27% nickel, 0.04% cobalt, 0.24% copper and 0.21 g/t Au were obtained from these samples. The highest zinc value is 0.07% and only 3 samples had overall zinc values over 0.05%. Due to the digestion method selected, germanium values were deemed not reliable.

About Germanium

Germanium is a hard, greyish and brittle metalloid which shares characteristics of both metal and non-metal properties. Germanium has many growing applications in electronics and solar, in fiber optics, and Infrared optics for civil and military uses. One of the growing and key applications for Germanium is autonomous vehicle driving system where Germanium is used for thermal imaging cameras and night vision devices.

China's share of germanium global output in 2024 was estimated between 70 and 75%. According to the United States Geological ("USGS") survey in a 2024 report, there is high degree of uncertainty regarding world primary production of germanium. In 2022, the USGS estimated that world production of primary germanium reached 210,000 kg while China's primary production capacity of germanium is 309,000 kg.

Germanium is in the list of critical metals in Canada, the United States and the European Union. Since December 3, 2024, China, the largest producer of refined germanium, has banned germanium exports to the United States. The challenge will be securing new or alternative supplies of Germanium. Germanium is not an openly traded commodity and recent spot prices have germanium over US\$4,000 per kilogram.

Make sure to follow the Company on Twitter, Instagram and Facebook as well as subscribe for Company updates at <https://germaniummining.com/>

ON BEHALF OF THE BOARD

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FORWARD-LOOKING STATEMENTS

This news release contains forward-looking statements. All statements, other than statements of historical fact that address activities, events, or developments that the Company believes, expects or anticipates will or may occur in the future are forward-looking statements. Forward-looking statements in this news release include, but are not limited to, statements regarding the intended use of proceeds of the Offering and other matters regarding the business plans of the Company. The forward-looking statements reflect management's current expectations based on information currently available and are subject to a number of risks and uncertainties that may cause outcomes to differ materially from those discussed in the forward-looking statements including that the Company may use the proceeds of the Offering for purposes other than those disclosed in this news release; adverse market conditions; and other factors beyond the control of the Company. Although the Company believes that the assumptions inherent in the forward-looking statements are reasonable, forward-looking statements are not guarantees of future performance and, accordingly,

undue reliance should not be put on such statements due to their inherent uncertainty. Factors that could cause actual results or events to differ materially from current expectations include general market conditions and other factors beyond the control of the Company. The Company expressly disclaims any intention or obligation to update or revise any forward-looking statements whether as a result of new information, future events or otherwise, except as required by applicable law.

The Canadian Securities Exchange (operated by CNSX Markets Inc.) has neither approved nor disapproved of the contents or accuracy of this press release.

1 https://www.birdandhike.com/Hike/GoldButte/AzureMine/_AzureMine.htm

2 https://collections.nbmng.unr.edu/pages/download_progress.php?ref=9357&size=&ext=pdf&k=

3 U.S. Geological Survey Scientific Investigations Report 2006-5197, Mineral Resource Potential of the Gold Butte-Virgin Mountain ACECs (Ludington et al., 2006) pubs.usgs.gov/bul/1730e/report.pdf

4 U.S. Geological Survey Scientific Investigations Report 2006-5197, Mineral Resource Potential of the Gold Butte-Virgin Mountain ACECs (Ludington et al., 2006)
pubs.usgs.gov/bul/1730e/report.pdfpubs.usgs.gov/bul/1730e/report.pdf

5 https://www.birdandhike.com/Hike/GoldButte/AzureMine/_AzureMine.htm

6 As reported in the Mineral Resources of the Million Hills Wilderness Study Area, Clark County, Nevada - By JOEL R. BERGQUIST, GARY A. NOWLAN, and H. RICHARD BLANK, JR. U.S. Geological Survey. J. DOUGLAS CAUSEY U.S. Bureau of Mines. pubs.usgs.gov/bul/1730e/report.pdf

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Die URL für diesen Artikel lautet:

<https://www.goldseiten.de/artikel/681641--Germanium-Mining-Corp.-Enters-into-Agreement-to-Acquire-a-100Prozent-Interest-in-the-Historical-Azure-Ridge-Mi>

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