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Guardian Metal Resources – Advancing Tungsten and Critical Metal Exploration at the Pilot Mountain and Tempiute Skarn-Porphyry Projects, Nevada, USA

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Guardian Metal Resources is a strategic development and mineral exploration company focused on tungsten and associated critical metals in Nevada, USA. Here we outline recent geological, exploration and operational advancements at flagship projects Pilot Mountain and Tempiute.

At Pilot Mountain, W-Cu-Ag-Zn skarn mineralization occurs in the upper Triassic Luning Formation, proximal to contacts with Cretaceous oxidized quartz monzonite intrusions which host porphyry-style Mo-Cu mineralisation (~88.5 – 86 Ma from molybdenite Re-Os). The principal ore minerals – scheelite, sphalerite and chalcopyrite – occur within garnet-rich skarns. The four main zones of skarn mineralization are Desert Scheelite, Gunmetal, Garnet and Good Hope. An on-going drilling campaign has defined an indicated resource of 8.69 Mt at 0.21% WO₃ and 12.43 g/t Ag at Desert Scheelite, with an updated resource estimate of Garnet to follow. Drilling is also delineating extensions of tungsten mineralization highlighted by induced polarization (IP) geophysical surveys. In addition to substantial Cu-Ag-Zn credits, gallium (Ga) is being assessed as a valuable by-product, with recent drilling samples returning up to 62.5 g/t Ga.

At the historically mined Tempiute system, W-Cu-Ag-Zn-Ga skarn mineralization occurs at the contacts of Devonian-Carboniferous limestones with oxidized granitic intrusions. Molybdenite Re-Os age determinations of ~97.5 Ma for the garnet skarns notably predate ~92 Ma porphyry-style quartz-molybdenite-pyrite veins in the quartz monzonite. Following field mapping and IP surveys, the company's ongoing drilling aims to define remaining unmined resources as well as previously undeveloped zones of skarn mineralisation. We also present EPMA evaluations of Ga concentrations within the skarn assemblages to assess possible processing routes since rock chip samples contain up to 105 ppm Ga.

We also introduce Pilot North, 20 km north of our Pilot Mountain, where >2 km of Cu-Fe-W-Ag-Zn skarns are outcropping. We are working to develop Pilot North as a satellite project to Pilot Mountain.