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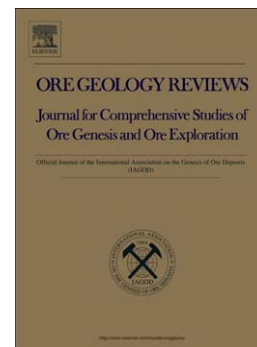
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The Upper Cretaceous Guaynopa IOCG and Guaynopita porphyry copper deposits, Chihuahua, Mexico

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Abstract

The Guaynopa and Guaynopita mineralized areas in central-western Chihuahua are conterminous sets of ore deposits that formed in association with gabbroic and granitic intrusions that correspond to the Lower Volcanic Complex of the Sierra Madre Occidental silicic large igneous province. The Guaynopa IOCG deposit consists of (1) early iron oxide-copper-gold mantos accompanied by potassic (fuchsite, biotite and potassium feldspar) and/or calcic-sodic alteration (tremolite-actinolite) and hosted by marmorized limestones near the contact with intrusive granites, (2) later copper-rich stockworks and gold disseminations, and (3) late gold- and copper-rich quartz-calcite veins. Mantos contain most of the copper and gold ores in this deposit, and their hypogene mineralogy consists of

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