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Fluid Mixing During Late-Stage Carlin-Type Mineralization in the Getchell and Twin Creeks Deposits, Nevada

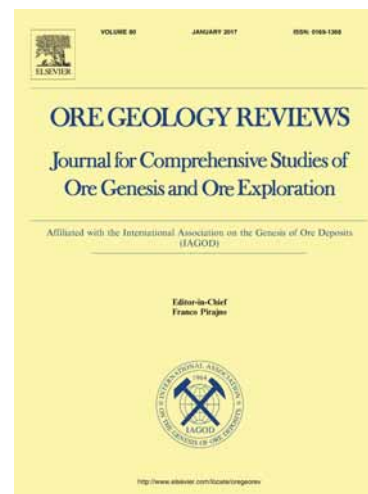
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Fluid Mixing During Late-Stage Carlin-Type Mineralization in the Getchell and Twin Creeks Deposits, Nevada

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Abstract

A stable isotope study of orpiment–realgar–calcite–stibnite mineralization in the Getchell and Twin Creeks deposits, Nevada was undertaken to determine the origin(s) of Late-stage fluids. Samples of orpiment have δD values of -48.4‰ to -90.5‰ and $\delta^{34}S$ values of 0.3‰ – 2.2‰ , which are indicative of a magmatic source. Whereas samples of realgar have δD values of -129.1‰ to -139.7‰ that are indicative of meteoric water and $\delta^{34}S$ values of 4.2‰ – 4.9‰ , similar to pre-ore/diagenetic pyrite. The δD and $\delta^{13}C$ data of calcite plot to form a mixing trend

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