

## Accepted Manuscript

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PII: S1342-937X(13)00308-0  
DOI: doi: [10.1016/j.gr.2013.08.024](https://doi.org/10.1016/j.gr.2013.08.024)  
Reference: GR 1145

To appear in: *Gondwana Research*

Received date: 19 September 2012  
Revised date: 14 August 2013  
Accepted date: 20 August 2013



Please cite this article as: Manaka, Takayuki, Zaw, Khin, Meffre, Sebastien, Vasconcelos, Paulo, Golding, Sue, Cairns, Cameron, The Ban Houayxai epithermal Au-Ag deposit in the Northern Lao PDR: Mineralization related to the Early Permian arc magmatism of the Truong Son Fold Belt, *Gondwana Research* (2013), doi: [10.1016/j.gr.2013.08.024](https://doi.org/10.1016/j.gr.2013.08.024)

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# **The Ban Houayxai epithermal Au-Ag deposit in the Northern Lao PDR: Mineralization related to the Early Permian arc magmatism of the Truong Son Fold Belt**

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## **ABSTRACT**

The Ban Houayxai Au-Ag deposit is located in the Truong Son Fold Belt in the northern Lao PDR, mainland SE Asia. The deposit is hosted within an Early Permian volcano-sedimentary unit which is a part of a Late Carboniferous-Early Permian (310-270 Ma) volcanic-plutonic sequence of the Truong Son Fold Belt. The main Au-Ag mineralization stages (i.e., Stages 2 and 3) at Ban Houayxai consists of hydrothermal veins/breccias associated with a carbonate-quartz-sulfides (pyrite-sphalerite-galena-chalcopyrite)-sericite-chlorite-electrum-native silver-stephanite mineral assemblage. Geochronological studies from LA-ICP-MS zircon U-Pb and adularia Ar-Ar and K-Ar dating identified

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