

Accepted Manuscript

Mixing of magmatic-hydrothermal and metamorphic fluids and the origin of peribatholithic Sn vein-type deposits in Rwanda

J. Van Daele, N. Hulsbosch, S. Dewaele, M.-C. Boiron, K. Piessens, A. Boyce, Ph. Muchez

PII: S0169-1368(18)30323-8

DOI: <https://doi.org/10.1016/j.oregeorev.2018.07.020>

Reference: OREGEO 2637

To appear in: *Ore Geology Reviews*

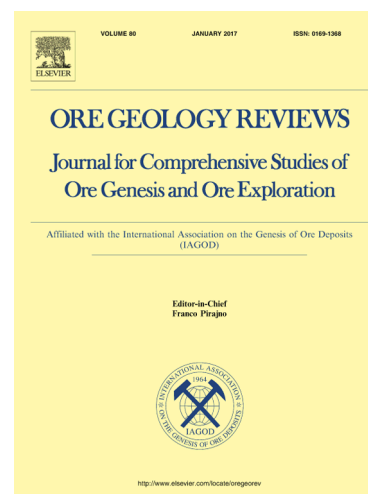
Received Date: 18 April 2018

Revised Date: 5 July 2018

Accepted Date: 23 July 2018

Please cite this article as: J. Van Daele, N. Hulsbosch, S. Dewaele, M.-C. Boiron, K. Piessens, A. Boyce, Ph. Muchez, Mixing of magmatic-hydrothermal and metamorphic fluids and the origin of peribatholithic Sn vein-type deposits in Rwanda, *Ore Geology Reviews* (2018), doi: <https://doi.org/10.1016/j.oregeorev.2018.07.020>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



Mixing of magmatic-hydrothermal and metamorphic fluids and the origin of peribatholithic Sn vein-type deposits in Rwanda.

Van Daele, J.^{a*}, Hulsbosch, N.^a, Dewaele, S.^{b,c}, Boiron, M.-C.^d, Piessens, K.^e, Boyce, A.^f and Muechez, Ph.^a

a KU Leuven, Geodynamics and Geofluids Research Group, Department of Earth and Environmental Sciences, Celestijnenlaan 200E, 3001 Leuven, Belgium

b Ghent University, Department of Geology, Krijgslaan 281, S8, 9000 Ghent, Belgium

c Royal Museum for Central Africa (RMCA), Department of Geology and Mineralogy, Leuvensesteenweg 13, 3080 Tervuren, Belgium

d Université de Lorraine, CNRS, GeoRessources, Boulevard des Aiguillettes B.P. 239, F-54000, Nancy, France

e Royal Belgian Institute of Natural Sciences, Geological Survey of Belgium, Jennerstraat 13, 1000 Brussels, Belgium

f Scottish Universities Environmental Research Centre, Rankine Avenue, East Kilbride, Glasgow, G75 0QF, Scotland, U.K.

* corresponding author: johanna.vandaele@kuleuven.be

Keywords: leucogranite mineralization, pegmatites, cassiterite, quartz veins, fluid mixing, geochemical modelling

Abstract

The fluid sources of granite-related Sn-quartz vein deposits are commonly obscured by fluid mixing or fluid-rock interactions. As a result, fluid inclusions, minerals and isotopes in these veins indicate an intermediate composition between magmatic and metamorphic, but the degree of mixing between

Download English Version:

<https://daneshyari.com/en/article/8909398>

Download Persian Version:

<https://daneshyari.com/article/8909398>

[Daneshyari.com](https://daneshyari.com)