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Interactive comment

Interactive comment on "Feathery and network-like filamentous textures as indicators for the crystallization of quartz from a silica gel precursor at the Rusey Fault, Cornwall, UK" by T. I. Yilmaz et al.

Anonymous Referee #1

Received and published: 16 May 2016

Dear Editor and Authors,

The manuscript deals with the formation of hydrothermal quartz in veins, an argument on which experimental data and observations are certainly scarce. This makes the article worth to be considered for a large audience.

I've found the manuscript well written, with a detailed description, rich of data and observations. The focus on a enrichment of Ca, Mg, Na, As, and K in the feathery structures is correct, representing a new finding, thus contributing to the understanding of the described microstructures.

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Discussion paper



The presented data support the proposed interpretation; the figures are all necessary. However, Fig.1 and 2 can be reasonably summarized in one, only.

I suggest to better address the "geological framework" to the described theme, giving more information on the geological conditions which favored the hydrothermal circulation along the RF fault zone. From the map given in Fig. 1 and 2, I've noted that post-hercynian plutons are indicated to the S and SE of the study area. Is the activity of the RF fault coeval with the cooling and exhumation of these plutons? Could it be possible to have an estimation on the age of the study quartz vein?

Finally, I've found this manuscript suitable to be published after implementing the geological setting (minor revisions).

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