

Resubmission of gchron-2021-25

Direct dating of overprinting fluid systems in the Martabe epithermal gold deposit using highly retentive alunite

Jack Muston¹, Marnie Forster², Davood Vasegh², Conrad Alderton³, Shawn Crispin⁴, Gordon Lister⁵

¹ AngloGold Ashanti, Perth, 2601 Australia

² Argon Geochronology and Structural Geology, Research School of Earth Sciences, Australian National University, Canberra, 2601 Australia

³ C3 Metals, Toronto, Canada

⁴ Eurasian Resources Group, Dubai

⁵ W.H. Bryan Mining and Geology Research Centre, Sustainable Minerals Institute, The University of Queensland, Brisbane 4068, Australia

Correspondence to: Jack Muston <jemuston@gmail.com> and Gordon Lister <g.lister@uq.edu.au>

Dear Klaus

Please accept my apologies, for the tracking option was not turned on and I did not notice. However, changes made fall into the category of improving English usage, avoiding emotive language, etc. as well as directly addressing the requested corrections.

All the best
Gordon

Corrections are as noted [including on the PDFs of individual figures, as required].

- 1) with the writing style of the main text. It reads like someone is telling a story to a live audience in a casual environment. It lacks scientific rigor and clarity.
THIS IS NO LONGER THE CASE
- 2) The paper needs some rewriting to make it more scientific. Words like: interestingly, clearly, yet, obviously, we remark, we see, in our view, one can be sure, we must conclude, we doubt are too emotional/personal for a scientific text and should be eliminated to present an objective scientific story rather than a subjective evaluation.
THIS HAS BEEN ADDRESSED
- 3) It is not acceptable in the paper to respond to reviewer comments. (e.g. 222, 425, 538..)
THIS HAS BEEN ADDRESSED
- 4) Place figure captions below figures, not above and below at random
DONE
- 5) Decide if you want to use “e” or “E” for exponential expressions and keep it consistent throughout the main text, also in the Supplement
DONE
- 6) Report data properly. Error usually two significant digits. Data: enough and not more digits so the error is in the last or two last digits reported.
WE THINK THE DATA IS ALREADY REPORTED CORRECTLY, BASED ON THE PRECISION OF THE MEASUREMENT (BUT PLEASE LET US KNOW IF YOU DIFFER)
- 7) Use the chemical symbol for the element if not specified. Use name only at the beginning of a sentence and when you mean the pure element (e.g. argon gas, rhenium filament).
DONE EXCEPT WHEN WOULD INTERRUPT THE FLOW OF THE SENTENCE
- 8) Kelvin (K) does not have a degree symbol (°), only Celsius or Centigrade do.
CORRECTED
- 9) Every map needs a scale. Not everybody knows that 1°latitude is ca. 111.1 km
DONE
- 10) 113 K content: do you mean mol% or wt%, K or K₂O
DONE
- 11) 144: unwanted gases: very imprecise statement, what are they?
DONE
- 12) 221: this is very strange text for a scientific paper. Hear-say should not be part of a scientific paper. Try to remain factual and make sure all statements are backed by accessible data and publications. Referring to a comment from a review is not appropriate.
REMOVED
- 13) 406: attitudes are not scientific criteria. Delete sentence
DONE
- 14) 425: one reviewer cited Ren and Vasconcelos (2019): this statement cannot be part of the paper. It is only suitable in the response to a review that is directed to the editor.
REMOVED
- 15) Fig 16: asymptotes: should be asymptotes
CORRECTED – THANKS – WELL SPOTTED
- 16) Fig 18 released not release ?
CORRECTED
- 17) Fig 19: random use of capital letters and lower case for the same word
CORRECTED
- 18) 791: very poor writing style. You can talk like this, but not write a scientific text this way
CORRECTED
- 19) 704: very arbitrary statement. Doubts are not a robust statement in a scientific text
REMOVED