

Review of the REVISED manuscript « *Transport mechanisms of hydrothermal convection in faulted tight sandstones* » by Guoqiang YAN et al., submitted to Solid Earth. February 2023.

My two major points have been addressed in this revised manuscript :

- 1) An Appendix explaining the benchmark experiment is now included. Fluid density law is discussed and presented in the main text. Everything seems correct.
- 2) The basal heat flow condition is discussed, lines 220-229, but 0.58 and 0.84 (line 221) have to be changed by 0.058 and 0.084

All other minor points and mistakes have been correctly addressed and the manuscript can be accepted.

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