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Temperature effect on low permeability porous media filled with water at high pressures

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Highlights

- The study is concerned with low permeability media with natural pores filled with water
- The effect of a small temperature variation in the pore pressure is analysed
- Due to compressibility a small temperature variation may cause a huge pressure variation
- Such a pressure variation may eventually lead the solid matrix to failure
- The procedure may be interesting, for instance, in Enhanced Geothermal System

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