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ABSTRACT
Fault properties estimated using lithoseismic Vclay are compared to those derived from a classical geomodelling approach with reservoir NTG. Throw and Shale Gouge Ratio (SGR) calculation at the seismic scale can provide a significant improvement in resolution and accuracy over the geomodelling approach. Fault properties included in numerical reservoir simulations give a qualitative match to observed production and time-lapse seismic effects in an offshore turbidite field. Errors introduced during upscaling of seismic properties into 'stairstep' faulted grids can be overcome using a virtual deformation of the grid geometry. This method could be extended to upscaling fault permeability estimated from seismic SGR.