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Such complexities can only be treated adequately by a numerical modelling approach. 3-D geomechanical reservoir models based on the finite element (FE) method have been proven to be valuable tools to gain a quantitative understanding of the in situ stresses in a reservoir (van Wees et al., 2003; Henk, 2009, 2010). 3D geomechanical modeling can identify problems in the deep, complex wells A modern mechanical earth model is a numerical representation of the geomechanical state of a reservoir, field or basin In addition to property distribution and the fracture system, 3D geomechanical modeling and estimating the compaction ...

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