TG12
Pressure Transient Analysis in Tight Fluvial Environment, Case Studies
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SUMMARY
This study is an attempt to shed some light on the well testing interpretation challenges of complex fluvial environments, and suggest interpretation and provide numerical well testing models to the pressure data.

Four field cases are presented, a well drilled on the flank of a meandering channel, sand lenses effect on pressure data, characterization of a compartmentalized sand reservoir and a well intersecting a fracture network. In the latter case, two examples of a fracture behavior at early times and a conductive fault behavior at late times were identified.

Because of the complex nature of these flow problems, the power of numerical simulation along with integrating all available data, including seismic, approach was used to match the pressure responses.