

D02 Integration of No-Flow Barriers Observed in Well Tests and Faults Mapped from Seismic in Exploration Wells

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Test interpretation may result in no-flow boundaries. These are deviation from radial flow in a pancake model and can be attributed to changing kh product or barriers in the reservoir like a faults or sedimentological events (e.g. sand pinchout).

The pressure transient may travel deep into the reservoir given high permeability or long test duration. In these cases is a valuable exercise to perform test simulation in order to transfer the geological information in the test data into the numerical model. This can provide valuable information which is not obvious from the test data alone.

In this presentation three examples are given – two for high permeable reservoirs and one for low permeable case.