

Comprehensive Fracture Calibration Model

Research Themes

Quantify fracture and reservoir parameters from Fracture Calibration Tests (FCTs)

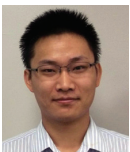
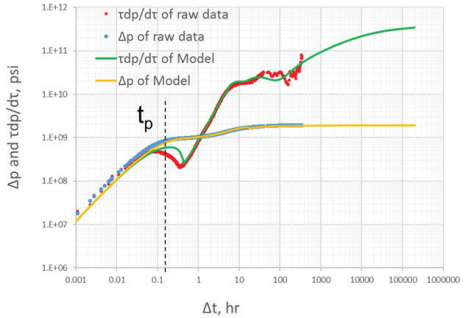
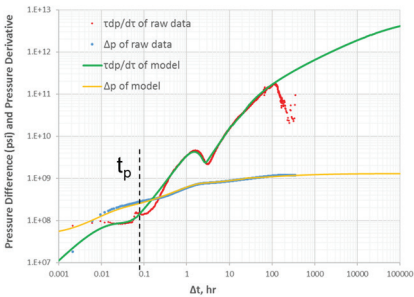
1. Build model for all observed behaviors in the diagnostic plots of FCTs
2. Build a completely comprehensive global model with both before- and after-closure analysis
3. Validate the model with real field cases
4. Put the model into a software that suitable to commercialization

Recent Accomplishments

1. Most of the known flow behaviors have been modeled into the comprehensive FCT model
2. The model has been tested and validated with several field cases, and many more parameters are quantified than conventional analysis, which greatly enhance the understanding of the formation

Issues

1. Some new issues have just been proposed, such as the difference between tests in vertical and horizontal wells. More attention will be paid for a further investigation
2. Put the model into a software that suitable to commercialization



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