

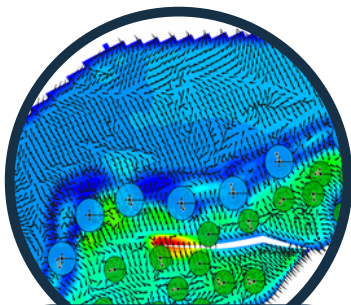
tNavigator[®]

Rock Flow Dynamics

UNCONVENTIONAL RESERVOIRS

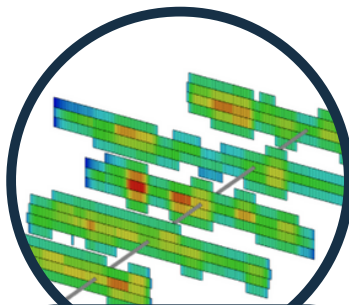
RFDYN.COM/UNCONVENTIONALS

We understand that operations in unconventional basins work at a high pace, reservoir modeling needs to be able to keep the same pace; tNavigator provides a unique workflow that captures Geoscience, Completion Engineering, and Dynamic Reservoir Simulation within one single tool, allowing a unique and seamless integration between multiple domains that can accelerate reservoir modeling analysis to a similar pace with operations in the field.



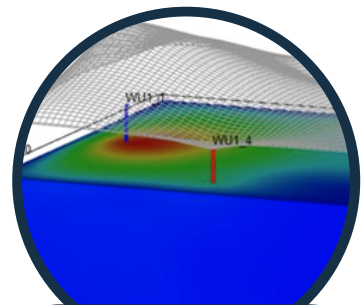
RESERVOIR GEOMECHANICS

tNavigator uses a joint system of coupled equations to calculate reservoir fluid flow and geomechanical effects simultaneously.



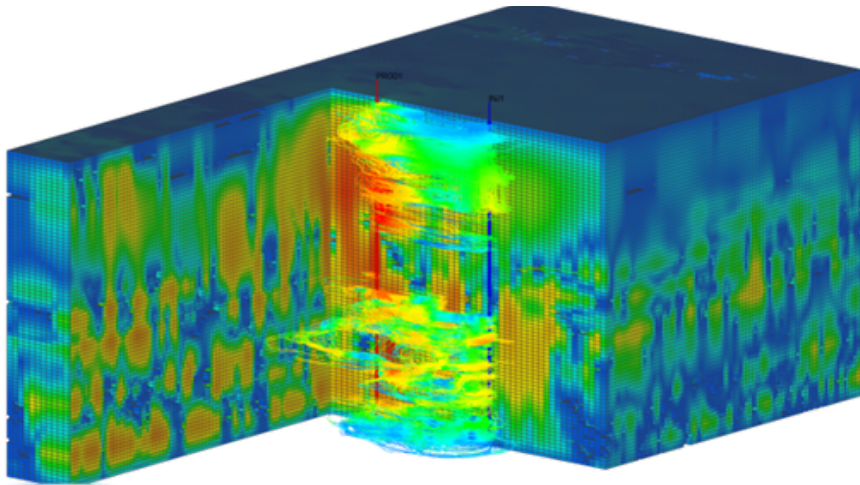
HYDRAULIC FRACTURE SIMULATOR

tNavigator offers a full P3D fracture propagation simulator that can be seamlessly integrated with the dynamic reservoir simulation.



DYNAMIC RESERVOIR SIMULATOR

Full GPU and CPU reservoir simulator allows to speed up simulation times, allowing reservoir optimization to keep up operations pace.



ABOUT US

tNavigator, developed by Rock Flow Dynamics, is a one-stop comprehensive reservoir management solution that leverages modern computing architecture to deliver superior speed, scalability & ease-of-use for integrated static and dynamic modelling from reservoir to surface networks.

Promoting cross domain collaboration, tNavigator is a single environment that enables subsurface teams to work together to navigate your reservoir and not lose any time or data by moving between applications. In tNavigator you will find unique integrated workflows from geophysics to reservoir modelling, allowing geoscientists to construct a robust interpretation and reservoir model of their field. In the same interface, models can then be instantly carried forward to reservoir simulation, allowing for thorough analysis and evaluation of the field, and for your team to make informed decisions on your assets.

UNCONVENTIONAL RESERVOIRS

The versatility of tNavigator makes it an ideal choice for working with unconventional projects. Whether you are working with 'Shales', Coal Bed Methane, Coal Seam Gas, or Heavy Oil, tNavigator has functionality you can use to improve results.

tNavigator integrates multiple features that will allow you to model green energy, conventional, and unconventional assets.

FLEXIBILITY

The ability to move wells and fracs independently of the 3D-Grid design is common across all types of unconventional and conventional plays. This feature, together with some powerful optimisation techniques and an adaptable workflow management tool, makes it easy to plan robust locations for wells in all types of unconventional plays.

UNSTRUCTURED LOCAL GRID REFINEMENT

tNavigator is always aiming for fast and reliable reservoir simulations; hence, dynamic unstructured local grid refinement was developed for unconventional resources, this combined with existing features allows proper modeling of complex development scenarios, including multi-bench and parent well interaction.