JewelSuite Subsurface Modeling
Rapidly build accurate 3D models and run multiple scenarios to determine the best course of action for your projects.

Modeling complex structures doesn't have to be complicated. Baker Hughes JewelSuite™ Subsurface Modeling software lets you quickly build accurate 3D models, regardless of the reservoir’s structural complexity. Regional and local structures are captured without compromise. Complex reservoir models can be updated and modified easily with new well information or alternative geological scenarios.

By integrating cross-disciplinary data sets, collaborative teams can quickly build accurate and predictive models with ease. Using these models, you can rapidly run multiple scenarios to determine the best course of action for your projects. With JewelSuite Subsurface Modeling, operators can gain a better understanding of the subsurface to make better decisions on well placement, reserves estimation, and production planning.

**Reservoir simulation**
Integrate geologic models, without losing any structural detail, seamlessly into your reservoir simulation. This application, which comes with a pre- and post-processor for your flow simulator of choice, includes all workflows required for dynamic modeling. Updates in the structural and geological model easily transfer into your simulation model allowing you to assess the effect on reserves, production rates, and other critical parameters of your field development planning. These workflows enable extensive and efficient history matching, sensitivity analysis, and field development planning optimization.

**Superior gridding technology**
Our JewelGrid™ patented gridding technology enables modeling of complex geological structures, such as intricate fault systems, unconformities, and salt intrusions, without compromises.

Unlike pillar or stair-step gridding, our gridding technology has no restrictions with respect to geometry and topology handling; all complex geometries are accurately captured and models...
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