ASPEN SKUA™

Integrated Earth Modeling

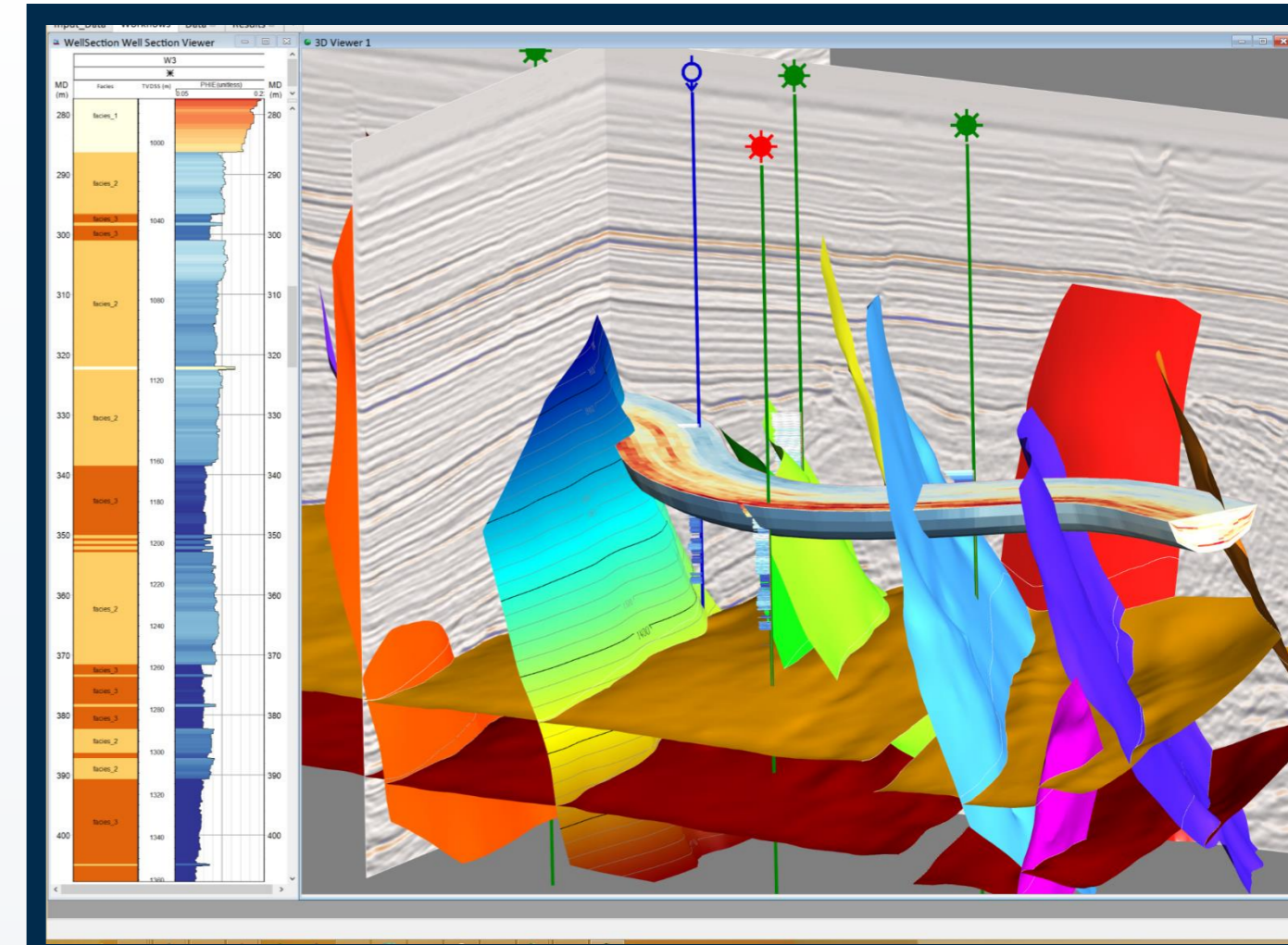2023

aspentech

Improve understanding of the geology and lower risk in reservoir management decisions

Gain an accurate, reliable and geologically realistic picture of the subsurface, to help locate new prospects, identify drilling targets, optimize completions, and accelerate field development.

CHALLENGES

Create accurate geological models using all available data honoring geologic rules, and accounting for uncertainties.

Model any type of simple-to-complex fault system, and complete reservoir models in days or weeks, not months or years.

Reduce risk by seamlessly incorporating uncertainty into data and interpretations.

IDEAL SOLUTION

A shared earth model to provide consistent, discipline-specific views of the subsurface.

A volume-based 3D modeling approach that removes all limitations and deformations caused by conventional methods.

Geologic interpretation and validation combined with structural and stratigraphic modeling, to help create property models that match geological concepts, honor all available data, and account for uncertainties every step of the way.

DESIRED OUTCOMES

A shared geology-centric framework ensures consistency, enables parallel workflows, accelerates model update cycles ,and facilitates the propagation of uncertainty between disciplines, all of which are critical for reliable, risk-informed decisions.

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Aspen SKUA

A collaborative platform for geoscientists and engineers to integrate, visualize and analyze all subsurface data, extract insights and build reliable 3D geological models for optimal earth resource management.

1 LOWER RISK, BETTER DECISION MAKING

Comprehensive uncertainty propagation from structure to simulation, repeatable workflows and evergreen models result in lower-risk management decisions..

2 A RELIABLE MODEL

Handle the most adverse and complex geological settings to create accurate subsurface models for planning and forecasting..

3 EASY COLLABORATION AND DATA SHARING

Remove silos through a common earth model that serves multiple disciplines and drives collaboration and consistency across the value chain.

Aspen SKUA & Microsoft Azure

With Aspen SKUA and Microsoft Azure, users have access to best-in-class applications from anywhere with an internet connection, and data can be shared between multiple users.

ALWAYS CURRENT

Ensure you are always using the latest release, never miss new features.

EASY AND FLEXIBLE ACCESS

Work with Aspen SKUA on Linux or Windows through a customizable web portal, Aspen Fabric.

ENHANCE COLLABORATION

Projects and data sharing on Azure cloud environment make collaboration with peers easier

SKUA Helps Create a 3D Full-Field Reservoir Model Incorporating All Data, including Seismicity, at The Geysers Geothermal Field

"SKUA is my main software used during a day at the Geysers. Without it, I would be like a carpenter without a hammer."

Craig S. Hartline, Calpine Corporation

ENHANCED COMMUNICATION AND COLLABORATON
3D visualization is an effective tool for sharing information and real-time well drilling analyses with geoscientists, reservoir engineers, drilling specialists and regulators

DEEPER INSIGHT INTO COMPLEX SUBSURFACE GEOLOGY
Gain a much deeper understanding of the geothermal field and its potential for sustainable energy production.

LOWER RISK OF INDUCED SEISMICITY
Analysis of induced seismicity patterns provides a better understanding of the complex fault zones and fracture systems existing throughout The Geysers.

Aspen SKUA™

Call for more information: +1-781-221-6400

Ask a question via email: info@aspentech.com

Learn more: www.aspentech.com/en/partner-network/microsoft

Marketplace solution: Aspen SKUA