

SEA 3D for GeoViz

Schlumberger

Advanced seismic volume interpretation from Foster Findlay Associates (ffA)

SEA 3D™ for the GeoViz® 3D interpretation and visualization application offers a unique, flexible and powerful combination of interactive tools for rapid advanced volume interpretation. Designed with the user in mind, it can be applied at every stage of the interpretation cycle.

Integrated interpretation

SEA 3D is the first third-party software to work interactively with the new GeoViz application protocol interface (API). It processes volumes previously loaded in GeoViz and produces results immediately visible in your 3D view, ready to be used within your interpretation workflow.

Rapid insight

SEA 3D results offer rapid insight into sedimentary environments, their deposition trends, reservoir

geometries and architecture, helping you construct a more refined geological model.

Detailed understanding

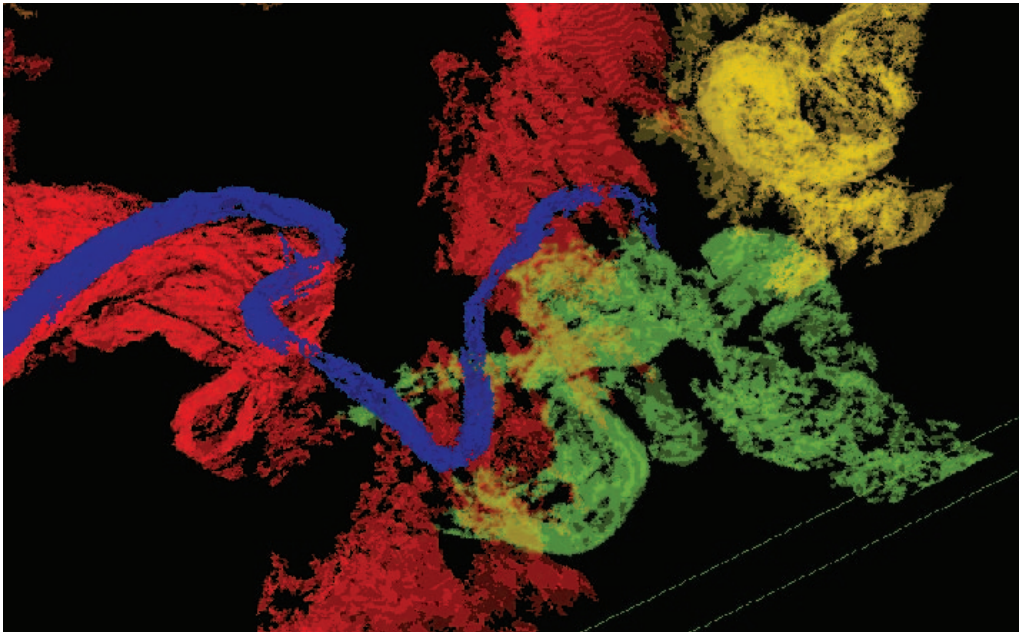
With SEA 3D, you can very quickly obtain a detailed understanding of structure activity and patterns in your data, both at a field scale and at an intra-reservoir scale.

Repeatable results

SEA 3D maintains the integrity of the information contained in seismic data. The results are totally repeatable adding unbiased objectivity to your interpretation workflow.

By modifying the parameters in the interface, the data can be processed using different scenarios, and the results used for interpretation risk assessment.

Let your data speak volumes with SEA 3D from ffA, running on the new GeoViz API.

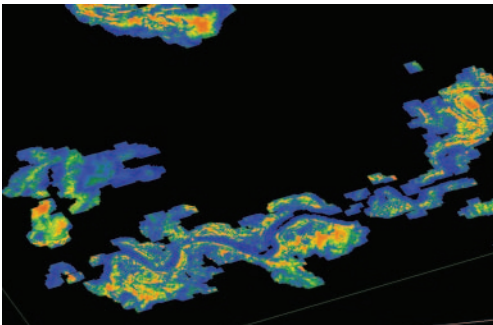


Complex channel geometries and architecture revealed through body labeling in SeisMine.

ffA—a GeoQuest technology partner



Interactive advanced volume interpretation



Developing a geological model using SeisMine and SeisMath functionality.

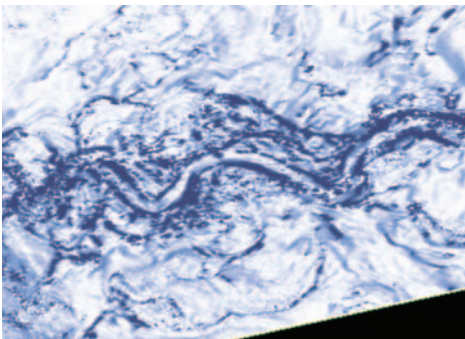
Advanced 3D processing

SEA 3D uses the complete 3D volume, not just 2D attribute maps, to generate more comprehensive and accurate geological results. Although the application is based on complex and sophisticated algorithms, using it is simple and intuitive.

Key components

SEA 3D offers an abundance of functionality organized into four distinct, but complementary, components:

- SeisMine—noise reduction, body labeling and sculpting.
- SeisMath—single and multitrace attributes generation and combination.
- SeisApps/StructApp—3D instantaneous dip and azimuth attribute volumes.



StructApp instantaneous dip.

- SeisApps/StratApp—stratigraphic analysis workflow for the definition of sediment deposition. This includes the thickness attribute, allowing identification of major depo centers within reservoir zones for better well planning.

Proven technology

SEA 3D is based on proven technology which leads to more repeatable and robust interpretations, more efficient cycle times—from shooting to drilling—and better well placements in both exploration and development environments.

Foster Findlay Associates Ltd. (ffa)

ffa is a world-leading originator and provider of high quality, multiplatform, 3D image processing and analysis software to the oil and gas (O&G) industry. SEA 3D is based on ffa core technology, C_Images 3D, developed in collaboration with Shell Research BV. ffa also provides advanced volume interpretation consultancy services to customers around the world.

GeoQuest

GeoViz is licensed and supported by GeoQuest, the software division of Schlumberger Information Solutions (SIS), an operating unit of Schlumberger Oilfield Services. SIS is the global industry leader for the supply of integrated business solutions comprising GeoQuest software, information management services, information technology and a complete range of expert services. Schlumberger—the leading supplier of services and technology to the international E&P industry—operates offices, service locations, and research and development facilities around the world.

**Contact your local GeoQuest office
or e-mail: sisinfo@slb.com
for more information about GeoViz.**

Benefits:

- Interactive connection to GeoViz brings easy integration of the SEA 3D tools into interpretation workflows.
- Results immediately available in GeoViz.
- Simple interface helps you to quickly become familiar with the tools.
- Based on proven technology developed in collaboration with O&G majors.
- Objective and repeatable interpretations allow you to consider different scenarios.
- Leads to more efficient cycle times.
- Gives rapid insight into sedimentary environments, deposition trends and reservoir architecture.
- Provides detailed understanding of reservoir geometry, structure activity and pattern, both at field scale and intra-reservoir scale.

