GVERSE® Geophysics

Powerful seismic interpretation for your play

GVERSE Geophysics, a brand new, intuitive and easy-to-use seismic interpretation system with powerful 3D visualization and interpretation capabilities. GVERSE Geophysics enables geoscientists to execute end-to-end workflows for basic interpretation and more advanced geophysical workflows. GeoGraphix 2017.2 also includes many feature enhancements derived from customer experience and consistent R&D.

Benefits

Cut cycle times with blazing Fast 3D Visualization

Our brand-new 3D viewer is built on an engine designed and optimized for seismic and related data. It’s never been easier to view your seismic sections, horizons, faults, wells and wellbore data, and much more in the 3D space. Our new LOD format does not compromise performance even with very large seismic files. With features like voxel rendering and co-blending, you can visualize subsurface structures like never before, gain more insight into your data, and make better decisions for your play.

Do More with Your Velocity Models

Import external velocity cubes and use them as your velocity model, visualize velocity values directly on
your sections and horizon surfaces, or use the velocity model for T/D conversion of horizons. Our velocity modelling improvements will help you get a more accurate picture of the subsurface.

**Easy to use, Intuitive Workflows**

Leverage the latest technology to minimize your learning curve and focus on what’s important. No more digging through tons of menus and dialogs to find what you are looking for. Our multi-screen enabled, ribbon-based interface puts everything you need right in front of you.

**Tighter Integration**

- Create cross sections in GVERSE® Geomodeling, smartSECTION and XSection with a single click
- Open wells in WellBase, PRIZM, Zone Manager, Depth Registration, and LogM Well Editor directly from the 3D module
- Send seismic sections displayed in 3D view to vertical and horizontal seismic display windows and work with sections in a 2D view
- View seismic sections displayed in 2D windows immediately in the 3D view.
- Access to interpretation, survey and section derived trace scaling options in 3D
- Apply customized PALX format color palette to seismic sections, horizon surfaces and more in the main GVERSE® Geophysics interface

**Enhanced Interpretation Capabilities**

- Quickly pick horizons even through noisy data with a new 2D auto pick algorithm
- Snap horizons more accurately with additional options to snap to events above, below or near existing picks
- Gain more insight into the stratigraphic features by flattening the entire 3D scene on a horizon
- Independent action lists for individual horizons and faults for more flexible and context aware undo and redo functionality
- Easily verify well-seismic tie using a variable density display for synthetic seismograms

**Increased Visualization Functionality**

- Add mapping grids to the 3D scene and Map of the new 3D module
- View horizon picks associated with mapping grids in the 3D scene
- Gain more insight into your structures by drawing IsoMap layers directly on the horizon surface

**Improved Efficiency and Usability**

- Access all depth conversion settings in a single location
- Shortcuts to depth conversion workflows in the 3D view
- Scene-specific toolbars for a true multiscreen experience
- Hotkeys for airline and probe face navigation
- Quicker access to partial transparency options in the color palette control
- Single click to open seismic sections at well locations and horizon and fault surfaces
- View well symbols as defined by the status field in WellBase in the 3D scene
- Manipulate and modify arbitrary lines directly in the 3D scene

**Key Feature**

- View 2D and 3D seismic data in our highly optimized 3D viewer
- Visualize volumes with voxel rendering
- View horizons, faults, wells and associated well data, ISOMap layers and much more in 3D
- Big data support with our new LOD format
- Powerful color palette control with histogram and selective transparency
- Blending to visualize data from multiple versions simultaneously
• Interpret horizons and faults directly in the 3D view
• View surveys, lines, wells, surfaces, layers on highly customizable maps
• Seamless interactivity between map and 3D views
• Import external cubes and use as your velocity model

Requirements
The following sections list the system requirements for the GVERSE Geophysics.

Software
The software that must be installed on the system running the application are as follows:
• GeoGraphix 2019.1
• LMKR License Management Tool 2016.1 for GVERSE Geophysics license
  The LMKR License Management Tool (LMT) must be installed to configure the Geophysics license.
• Microsoft DirectX End-User Runtime (June 2010)
• Microsoft® .NET Framework 4.5.1
• Adobe Reader for selected help files (optional)

Operating System
To run the application, you need one of the following operating systems installed on your system:
• Windows® 7 Professional x64
• Windows® 7 Enterprise x64
• Windows® 7 Ultimate x64
• Windows® 10 Professional x64
• Windows® 10 Enterprise x64

Hardware
Minimum
• 2.4 GHz 64-bit processor
• 8 GB RAM
• Any DirectX 11.1 capable card comparable with Nvidia® GeForce GTX 430 with 1GB VRAM. DirectX is not shipped with GeoGraphix 2019.1.
  You must download and install it separately.
• 1366 x 768 screen resolution

Recommended
• Quad 3.2 GHz 64-bit processor
• 32 GB RAM
• Any DirectX 11.1 capable card comparable with Nvidia®GeForce GTX 1060 with 6GB VRAM. DirectX is not shipped with GeoGraphix 2019.1.
  You must download and install it separately.
• Solid state hard disk
• 1920 x 1080 screen resolution

Licenses
• The following licenses are required to run the software:
• GeoGraphix license version 2019.1
• GVERSE® Geophysics license version 2019.1