



Geophysics 2017.3

Powerful seismic interpretation for your play



GVERSE® Geophysics

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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

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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** and **smartSECTION** with a single click.
- Open wells in **WellBase**, **PRIZM**, **ZoneManager**, **DepthRegistration**, 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 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 arblines 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 Features

- 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 Discovery 2017.3
- LMKR License Management Tool 2016.1 for GVERSE Geophysics license
The LMKR License Management Tool (LMT) must be installed to configure the license.
- Microsoft DirectX End-User Runtime (June 2010)
- 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

The hardware requirements for this application are the same as the GeoGraphix hardware requirements.

Any DirectX 11.1 capable card comparable with **Nvidia® GeForce GTX 430 with 1GB VRAM (Minimum) / Nvidia® GeForce GTX 1060 with 6GB VRAM (Recommended)**. DirectX is not shipped with GeoGraphix 2017.2. You must download and install it separately.

Please refer to the LMKR Customer Support Portal (<http://support.lmkr.com/>) for up-to-date information on the requirements.