GVERSE™ WebSteering

Stay ahead of the drill bit

GVERSE WebSteering is designed specifically to help geoscientists' geosteer horizontal wells in thin pay zones and to direct the drill bit in real time.

It is the only web browser based geosteering application in the industry that delivers optimal well placement with simple data loading and full integration with GeoGraphix. GVERSE WebSteering installs into the web browser like a plugin and then it's simple to load curve and survey data from the rig, add type logs and subsurface grids from GeoGraphix®, and start steering within minutes. At any point, data can be sent back to GeoGraphix for further analysis using GeoGraphix's feature-rich suite of tools. GVERSE WebSteering runs even when disconnected from your corporate network so whether you are in the office or working remotely, you can define your target surface and send updated drilling targets to the rig.

GVERSE WebSteering is a complementary tool for GeoGraphix users who can sync their interpretations on-the-fly with their GeoGraphix projects and update their target surface in smartStrat®. This application lets you **stay ahead of the drill bit** with real time information accessible from anywhere.

Benefits

The GVERSE WebSteering software offers you the following benefits:

Flexible: Geosteer in the office, at home, or in the field.

Simple: Load LWD and survey data using drag-and-drop or by connecting to a WITSML server. Data are saved into LMKR GeoGraphix projects with a single button click.

Integrated: Select type logs and gridded surfaces from GeoGraphix and send results back to GeoGraphix to model more accurate target surfaces.

Key Features

On the Go Horizontal Well Correlation and Geosteering

- Web-based software designed to work when it is connected to a GeoGraphix server as well as when it is not.
- Simple and easy to use approach for horizontal well correlation and geosteering.
- View the geology of the target surface and the geometry of wellbore path.

Real time data Integration

- Ability to utilize real time data for horizontal well correlation and geosteering using WITSML data providers.
- Send drilling parameters to the rig on the fly.
- Share results by sending a saved file to other geologists to open in their web browser.

Swift Data Loading and Striking Presentation

- Simple data loading by dragging and dropping LWD data from LAS files or MS Excel spreadsheets.
- Process files that have been dragged-and-dropped on the interface.
- Converting an LAS file into a typelog.
- Graphic display of data with full zooming capabilities and coupling of graphs including LWD, wellbore directional survey data and typelog.
- Customized display.

Technical Geosteering

- Technical Geosteering based on Relative Stratigraphic Depth
- Automatically calculates True Vertical Depth (TVD), Northing, Easting and Vertical Sections from MD, Inclination and Azimuth.
- Directional survey calculations and related minimum-curvature interpolations for geosteering and graphing.

Integration with LMKR GeoGraphix

- Integrates with GeoGraphix.

- Real time data from WITSML data providers loaded into GeoGraphix
- Geosteered segments exported back into GeoGraphix.

Requirements

The following sections list system requirements for the WebSteering software.

Software

The software that must be installed on the system running the WebSteering software are as follows:

- GeoGraphix Discovery 2016.1.4 with hotfix (HF1)
- Microsoft .NET Framework 4.2 or greater
- LMKR License Management Tool 2016.1 for WebSteering license

The LMKR License Management Tool (LMT) must be installed to configure the WebSteering license.

- Adobe Reader for selected help files (optional)

Note: It is recommended that you run WebSteering on Internet Explorer 11.x.x or later and Google Chrome 61.x.x.x or later. 2 GVERSE™ WebSteering™ 2016.1.4 Installation Guide.

Operating System

To run the WebSteering software, you need the Windows® 7 or Windows® 10 operating system installed on your system.

Note: It is recommend to use the latest Microsoft® service packs and security patches.

Hardware

The hardware requirements for the WebSteering software are as follows:

- Quad 2.4 GHx 64-bit Intel class® or better
- 4GB RAM or greater
- 1024x768 graphics resolution

Licenses

The following licenses are required to run the WebSteering software:

- GVERSE WebSteering 2016.1 license
- GeoGraphix Discovery 2016.1 license

Note: Refer to the LMKR Customer Support Portal (http://support.lmkr.com/) for up-to-date information on the requirements.