GeoGraphix offers the geologist tighter integration between geological and geophysical interpretations. Depth-converted seismic horizons and faults can be directly accessed by the geomodel and combined with well control to enable a more comprehensive and complete interpretation. In addition, the enhancements in velocity modeling deliver a more accurate depth-converted seismic backdrop in the cross section to improve the interpretation of the geomodel between and beyond well control. New 3D visualization of fence diagrams with interpolated curve fill, IsoMap surfaces with draped attributes, and depth converted seismic sections further the interpreter's understanding of the geology, reservoir anisotropy and structure.

Make this well better than your last through integrated, multi-dimensional geological interpretation

GeoGraphix smartSECTION®
GeoGraphix smartSECTION is a 3D geomodeling application that combines the industry's most intuitive log correlation capabilities with advanced tools for 3D surface modeling, sequence stratigraphy, structural analysis, and horizontal well correlation. It supports high-volume geologic interpretations and boosts interpreter productivity many times over conventional interpretation tools. Its ease of use, combined with its advanced geological tool set, affords users a significant competitive advantage.

When used in an integrated manner, GeoGraphix smartSECTION, Framebuilder™ and smartSTRAT™ comprise the industry's premier geological interpretation system for both conventional and unconventional resource plays.

Framebuilder™
An add-on module to GeoGraphix smartSECTION®, GeoGraphix Framebuilder™ software is an advanced, topological 3D geomodeling tool that allows geologists to create real-time maps depicting complex structural and stratigraphic frameworks from relationships interpreted in the smartSECTION software. Combined with the advanced 3D visualization module, the...
geological framework can be viewed in three dimensions to define prospects quickly and more accurately and to gain better insight into hard-to-reach assets.

Framebuilder lets interpreters see their earth models created "on-the-fly" in map view during the interpretation process. Doing so allows the interpreter to adjust their interpretations interactively based on instantaneous feedback of their well log correlations, cross section picks, fault picks, and ensuing mapping geometries. This real-time access to a fully integrated and interactive 3D geologic model (resulting from their analysis of all the data in a prospect area) gains users a strong competitive advantage, guaranteeing a much quicker and more accurate interpretation.

smartSTRAT®
smartSTRAT, an add-on module to LMKR GeoGraphix’s smartSECTION software, enables fast, easy, and accurate horizontal well correlation and geosteering with the simultaneous update of the geomodel. The module offers easy-to-use geosteering tools, the capacity to view depth-converted seismic backdrops, and instantaneous integration with mapped geologic surfaces within a 3D geomodel. This unique ability effortlessly leads to more efficient and accurate geologic correlations and predictions. The additional level of quality assurance enables the geoscientist to stay ahead of the drill bit, avoid faults and other geohazards, and keep the borehole in the target zone.

During the geosteering process, geoscientists interactively update their geologic models in smartSECTION with new picks, inter-well points, and revised drilling targets. The resulting interpretations can be displayed seamlessly in GeoGraphix’s advanced 3D visualization tool, allowing the geoscientist to pinpoint problems or new areas for development across the field.

PRIZM™
LMKR GeoGraphix PRiZM log analysis software is the ideal tool for performing full reservoir characterization on well datasets of all sizes and complexity, from basic individual wells to multi-well, multi-zone projects.

PRIZM™ contains highly customizable and interactive tools for normalizing and editing data, digitizing log curves, and creating flexible track displays. Its user-defined equations, including more than 250 predefined standard log analysis equations, help generate quick, interactive log calculations.

PRIZM™ seamlessly interacts with the LMKR GeoGraphix® Suite of mapping, cross-section, and zone analysis, as well as with other geological applications.

Requirements

Hardware (MINIMUM)
- 2.4GHz 64-bit Intel class or better
- 4GB RAM
- 1,024 x 768 graphics resolution
- CD-ROM drive
- 19-inch monitor

Hardware (RECOMMENDED)
- Quad 2.4 GHz 64-bit Intel class or better
- 16 GB RAM or greater
- NVIDIA GeForce or Quadro - 2GB video RAM
- DVD-RW drive
- Dual 21+-inch monitors

Software
- Microsoft® .NET 4.5
- Microsoft® DirectX 11

Operating System(s)
- Windows® 7 Professional x64
- Windows® 7 Enterprise x64
- Windows® 7 Ultimate x64

GeoGraphix® is a registered trademark of Landmark Graphics Corporation. The LMKR Logo is a trademark of LMKR Holdings. LMKR Holdings is the exclusive world-wide licensor and distributor of GeoGraphix® software.