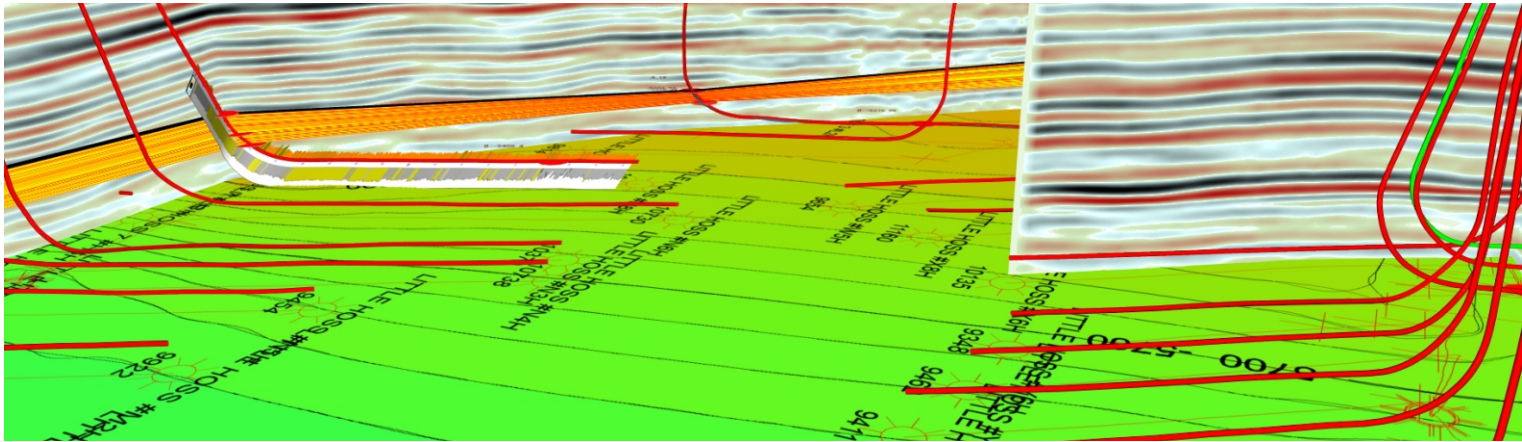


LMKR Well Planner



Well Planning Software from LMKR

With today's hectic drilling schedules in field development, time is of the essence in delivering planned wells, and an integrated approach in software is required for delivering results on schedule. LMKR Well Planner is a new offering from LMKR designed with the key needs of efficient field planning in mind. Well Planner unlocks a multiple well planning approach, with the ability to visualize geologic surfaces, quickly create surveys, and just as easily make changes to existing plans. It provides geologists with the capabilities needed to accurately design proposed wells and make well completion decisions to maximize productivity. LMKR Well Planner software fully integrates and operates with LMKR GeoGraphix to offer an easy day-to-day well planning workflow.

Benefits

Eliminates Manual Well Planning

Powerful and intuitive design enables geoscientists and asset teams to quickly create well plans. Interpreters can visualize their geologic data, create targets and generate a final well plan.

Quick Modification

Since LMKR Well Planner integrates with GeoGraphix, making modifications to existing wells is quick and easy.

Enhances Collaboration

No need to import or export files between GeoGraphix GeoAtlas' Field Planning and LMKR Well Planner as they work side by side. This streamlines the workflow while reducing work time.

Key Features

Interactive Well Planning

- Well Planner works with GeoGraphix field planning capabilities to allow for multiple well configuration scenarios
- Works with GeoGraphix GeoAtlas' field planner in single / multi-well mode and GeoGraphix smartSECTION in single well mode
- View your proposed surveys in a 3D environment
- Generate geoprognosis reports to hand off to drillers

Well Path Design

- Plan wells with minimum curvature to reduce piping costs
- Allows for specifying build rate (DLS) restrictions
- Visual feedback if restrictions are exceeded
- Easily modify target points and view them in 2D and 3D
- Display GeoGraphix IsoMap surfaces to assist in strategically planning target points

Integration with LMKR GeoGraphix

- LMKR Well Planner software integrates and operates with LMKR GeoGraphix
- View planned wells in GeoGraphix XSection, GeoAtlas, advanced 3D visualization, and WellBase



LMKR Well Planner

Requirements

LMKR Well Planner requires a license for the LMKR GeoGraphix Basic Interpretation package (Basic Geological Interpretation System or the equivalent modules), with which to run in conjunction. Well Planner runs in two modes: Single Well Planning and Field Planning mode:

Single Well Planning Mode requires:

- GeoGraphix Basic Interpretation package
- LMKR Well Planner 2014 with Microsoft .NET Framework 4.5

Field Planning Mode requires:

- GeoGraphix Basic Interpretation package
- GeoGraphix Pro License
- LMKR Well Planner 2014 with Microsoft .NET Framework 4.5

Hardware (MINIMUM)

- 2.4GHz 64-bit Intel class or better
- 4GB RAM

Hardware (RECOMMENDED)

- Quad 2.4 GHz 64-bit Intel class or better
- 4GB RAM or greater
- 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

This document contains confidential information and is intended only for the individual(s) or the company to whom it is presented. The document may otherwise be protected by work product immunity or other legal rules including but not limited to Copyrights. You should not disseminate, distribute or copy this document in any way whatsoever without prior written permission from LMKR. This document cannot be guaranteed to be error-free. LMKR therefore does not accept any liability for any errors or omissions in the contents of this document or for the consequences of any actions taken on the basis of the information provided, unless that information is subsequently confirmed to be accurate in writing.