DecisionSpace® Production Engineering

HELP MAXIMIZE PRODUCTION THROUGH ADVANCED SURVEILLANCE, FORECASTING AND FLOW MODELING

OVERVIEW
DecisionSpace® Production Engineering software can help maximize production, increase recovery and improve efficiency by combining advanced production engineering tools with cross-domain workflows for more complete asset understanding. Managers, petroleum engineers and geoscientists can pinpoint problem wells more quickly – enabling them to be more productive, and to deliver better production outcomes.

Solve Production Problems Faster
Production decision makers can solve problems faster by using updated production information with well and network flow models, interactive visualizations, production trending, bubble mapping and integrated diagnostics workflows. Finding and solving problems can be reduced from days to minutes across thousands of wells.

Production Optimization Through Advanced Multiphase Flow Simulation
From daily production troubleshooting to asset flow assurance challenges, engineers can quickly perform production optimization, select and size artificial lift equipment, run sensitivity analyses to design changes, and conduct debottlenecking analysis. Using the interactive model builder, engineers can model and estimate production and injection rates on the surface and downhole.

Predict Rates and Reserves with Greater Confidence
With ready access to production information that is integrated with advanced forecasting tools, engineers and geoscientists can quickly predict potential individual well declines, estimate remaining recoverable reserves, and assess reservoir and fieldwide depletion strategies. Combining production forecasts with flow models, engineers can more confidently compare flow predictions and calibrate forecasts with physical flow limits.

KEY BENEFITS
» Simplify workflows with integrated surveillance, forecasting and flow modeling
» Find and diagnose well and operational problems faster
» Construct well and network flow models easily, using an interactive model builder
» Improve understanding of reservoirs and assets with advanced forecasting

KEY FEATURES
» Asset-to-completion surveillance that combines wellbore and reservoir visualizations, reporting and data access
» Advanced production engineering analysis and forecasting techniques, including decline curve analysis, rate transient analysis and type curves
» Integrated, comprehensive multiphase flow simulation
» Exception-based workflows and neural networks to automatically classify downtime

Production team members can enjoy faster problem solving and better asset understanding, thanks to collaboration and integration provided by the DecisionSpace® Production Engineering software.
Model-Driven Production Surveillance
Gain daily production insights and pinpoint downtime opportunities faster. Model and predict the expected production for a well or an asset more quickly. Flexible graphs and charts, along with multilayer visualization, can provide critical insights during production modeling.

Artificial Lift Diagnostics
Help solve downtime problems faster by immediately initiating analyses, diagnoses and follow-up corrective actions. At one glance, highlight problematic wells, detect underlying causes of problems and identify optimization opportunities. The intelligent, neural network diagnosis for rod pump detects anomalies and automatically triggers workflows for more than 35 types of pump failures.

Advanced Forecasting
Forecast the potential asset production more accurately for better recovery strategies and more efficient completions. There are more than 50 techniques available to suit unique field characteristics, including decline curve analysis (DCA), rate transient analysis (RTA), type curve analysis, and differentiated techniques for unconventional assets.

Well and Network Flow Modeling
Validate potential well designs, optimize mechanical configurations or artificial lift settings, and assess network flow assurance problems by using comprehensive sensitivity analysis. More than 45 pressure/volume/temperature (PVT) models, 25 inflow performance relationship (IPR) models for different reservoir types, various multiphase and temperature models, and both black-oil and compositional models can be simulated.

Integrated Data Management
Improve solution turnaround time by eliminating the need to search for data. Increase collaboration and knowledge sharing with integrated data management that unifies raw data with analyzed results.

A mature Asia Pacific offshore field operation cut costs by more than USD 30 million through the implementation of integrated production workflows delivered by the DecisionSpace® Production Engineering software.

Landmark offers solutions to help you deliver on your business strategies. For questions or to contact your Landmark representative, visit us at: www.landmark.solutions