OVERVIEW
The DecisionSpace® Production Engineering platform is designed to help maximize production, increase recovery, and improve efficiency by combining advanced production engineering tools with cross-domain workflows for more complete asset understanding. This innovative technology enables managers, petroleum engineers, and geoscientists to be more productive and to pinpoint problem wells quickly in order to deliver better production outcomes.

ANALYSIS AND DESIGN FEATURES
This software platform provides well flow modeling techniques applicable from bottomhole to surface for production diagnostics, analysis, and design well flow – using nodal analysis for all well and fluid types, including all major artificial lift methods. The nodal modeling has extensive access to more than 500 pump models from multiple manufacturers. The platform also includes more than 45 PVT and 25 IPR models for different reservoir, well, completion, and fluid flow types.

WITH THIS TECHNOLOGY, YOU CAN:
» Easily make technological parameter adjustments to help excavate production potential and achieve the maximum result at a minimum cost
» Enhance efficiency of hydrocarbon production management by obtaining faster production analysis and optimum design of your wells
» Calculate pump pressure for different possible rates by employing sensitivity analysis
» Increase your total output by realizing the potential of your production
» Save costs by reducing energy consumption

![Chart showing node pressure vs. liquid rate](image1)
![Chart showing multiphase flow match](image2)
CHALLENGES

» Optimizing wells to achieve increased production
» Improving artificial lift designs
» Identifying inaccuracies or lack of insight on well inflow performance that could be causing design errors
» Optimizing wells that are producing at lower rates than initially predicted
» Predicting the required pressure for different liquid rates
» Determining the artificial lift size and configuration while reducing capital expenditures

Example of a well design report, showing electric submersible pump (ESP) design parameters and performance curve, chosen from an ESP catalog built into the software

SOLUTIONS

» Construct well and network flow models to calculate fluid properties and inflow performance
» Validate optimal well designs for different lifting methods and mechanical configurations
» Analyze bottomhole pressure (BHP) and production rates
» Determine the appropriate operating production rates and artificial lift specifications
» Solve for design issues of the well, tubing, lift mechanisms, and surface equipment

Graph showing temperature vs. measured depth (MD)

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

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