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.

PRODUCTION SURVEILLANCE CAPABILITIES

With DecisionSpace Production Engineering technology, you can gain daily production insights and pinpoint downtime opportunities faster than with traditional methods — enabling you to model and predict the expected production for a well or asset more quickly. Flexible graphs and charts, along with multilayer visualization, provide helpful insights during production modeling.

CHALLENGES

» Reducing workforce to manage assets, while increasing the need for efficient production surveillance
» Quickly spotting engineering issues, such as pump failure or a sharp increase in water cut
» Accurately analyzing problems and optimizing wells
» Minimizing production deferment and unplanned downtime

SOLUTIONS

» Integrated asset information and insight to monitor performance and understand the reservoir limits and potential
» Operate by exception, using pattern recognition to detect underperforming wells
» Quickly spot high-risk wells and improvement opportunities
» Artificial neural network (ANN) technology and performance evaluation templates to diagnose artificial lift failures
» Flexible production comparisons with user-defined calculations
» Production engineering tools to identify problems such as water channeling, and to determine the appropriate corrective measures

RESULTS

» Help minimize downtime and improve production results with model-driven surveillance and accurate artificial lift diagnostics

Example of rod-pump well performance template overlaying rod-pump wells
Example of Dynacard analysis on a pump performance diagnostic chart
Block performance plot of monthly injection vs. oil
Contour map of daily oilwell production, comparing production from two different dates

Chart showing different production pay zones

Chart portraying a daily production bubble map over well locations

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