Complex Offshore Block Reduced Time By 50% Through DecisionSpace® Production Engineering

TACTICAL AND STRATEGIC WORKFLOWS RESULT IN SIGNIFICANT EFFICIENCY

ASIA PACIFIC

OVERVIEW

A multifield offshore block in Asia Pacific was facing production decline and a rapid water cut increase, reaching 92%. With a complex gathering network, limited water-handling capacity and more than 195 wells, the complex operation faced two challenges—time to collect and process daily production data and a better strategy for long-term recovery. Tactical and strategic workflows were formulated and delivered through DecisionSpace® Production Engineering, resulting in 50% less time spent on daily production management. That accounts for more than 15,000 person-hours annually, which have been shifted towards more impactful tasks.

CHALLENGE

» Required 4 hours per day to analyze daily production data
» Needed a better strategy for long-term asset recovery

SOLUTION

» Recommended DecisionSpace® Production Engineering to deliver a tactical and strategic workflow covering both daily production management and asset-level optimization

RESULT

» Saved 50% of the time spent for daily production analysis saving more than 15,000 person-hours annually
» Diverted hours saved towards more impactful tasks

CHALLENGE

For daily production surveillance, the manual process took up to 4 hours a day for an engineer just to collect and integrate data. On the other hand, a strategic, asset-level study was urgently needed to improve and increase recovery in the longer term. Not only were the engineers consumed with the cumbersome task, but the study required good quality data that was not readily available.

SOLUTION

Develop Tactical and Strategic Workflows

For daily production management, exception-based surveillance is deployed via DecisionSpace® Production Engineering, resulting in significantly more simplified and focused operation. Not only that, engineers can move quickly from surveillance to design and analysis due to the data and workflow integration. It decreases the time to find underperforming wells and diagnose problems. Engineers recognize downtime possibilities earlier and respond faster.

For improving long-term recovery, a strategic workflow around asset- and reservoir-level optimization is deployed. The in-depth study takes account of present-day production status and historic data to estimate production potential and index forecast. Then optimization strategy is formed to improve reservoir recovery. Aided by advanced surveillance, forecasting and flow modeling, the strategy is materialized into optimum design recommendation for the field.
DecisionSpace® Production Engineering helped deliver better production outcomes through exception-based surveillance and asset-level optimization.

RESULT

DecisionSpace® Production Engineering helped deliver better production outcomes through exception-based surveillance and asset-level optimization. Tactical and strategic workflows were formed and delivered, resulting in 50% less time spent on daily production management. This allowed the operator to shift more than 15,000 person-hours annually towards more impactful tasks.

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