CuuLong JOC Optimizes Oilfield Production with Consolidated Database and Automated Workflows

Case study: Avocet, DECIDE!, and DecisionPoint software enables efficient production data gathering, surveillance, and reporting for Vietnamese assets

Challenge
Aggregate production data from many small and diverse assets into a single repository; automate workflows to eliminate duplication and replace manual procedures; improve decision-making quality.

Solution
Implement a combined production operations and data management solution using standardized workflow templates and the following software applications:

- Avocet® Data Manager—for capturing and reporting on daily field production data and allocation
- DECIDE!* Data Hub—for high-frequency data conditioning and workflow automation
- DecisionPoint* E&P solution—for Web-based content and workflow delivery to asset teams and management.

Results
Streamlined oilfield monitoring, reporting, and allocations; reduced nonproductive time; increased reliability of data for making better production decisions.

Manage production data for large, complex organization
CuuLong Joint Operating Company (JOC)—comprising PetroVietnam, ConocoPhillips, KNOC, SK Corporation, and Geopetrol—is the second-biggest oil producer in Vietnam. This large, complex organization wanted to better manage its production data for monitoring operations and to optimize production. Certain known constraints needed to be overcome, such as workflow duplication, scattered data sources, manual reporting procedures, and data quality issues. To further complicate matters, the various JOC assets differed on many levels, ranging from a variety of infrastructures to different phases of the oilfield life cycle. Ideally, a production management solution needed to be implemented as early as possible before the production phase to achieve the best results in reduced risk, cost, and downtime while maximizing efficiency and productivity.

New CuuLong JOC workflow with integrated systems offshore and onshore.

Management understood the urgency of moving scattered field data from Excel® spreadsheets to a unified system with the ability to output reliable reports for decision making. Having a consolidated production database and automated workflows would help CuuLong JOC reach its goals of consolidated production data gathering and management-level reporting.
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**Enhance production engineering and information management**

Schlumberger Information Solutions (SIS) production engineering and information management experts partnered with JOC project engineers, production engineers, petroleum engineers, and IT professionals. Together, the teams configured a production data management and surveillance monitoring system, integrating features of Avocet Data Manager, DECIDE!, and DecisionPoint software to best suit the company’s needs. Standardized production workflow templates were produced to improve consistency, avoid duplication of effort across assets, and relieve operators from the time-consuming and error-prone tasks of manual data entry.

This technology solution provided widespread enhancements for both production engineering and information management, including:

- easy online access to well and reservoir data analysis
- daily field and facility surveillance with extensive downtime failure analysis
- monitoring of information and trends to anticipate and prevent potential well and equipment problems
- viewing of companywide variances and key performance indicators across all producing assets.

**Improved production surveillance**

The newly integrated production data management, surveillance, and monitoring technologies increased the overall efficiency of CuuLong JOC oil fields. The streamlined field monitoring and reporting facility not only simplified tracking of production performance, but also improved the reliability of the data. Thanks to automated workflows, operators now spend less time entering data and more time solving actual production issues.

**Schlumberger Information Solutions**

Schlumberger Information Solutions (SIS) is an operating unit of Schlumberger that provides software, information management, IT, and related services. SIS collaborates closely with oil and gas companies to solve today’s tough reservoir challenges with an open business approach and comprehensive solution deployment. Through our technologies and services, oil and gas companies empower their people to improve business performance by reducing exploration and development risk and optimizing operational efficiencies.

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