JuraDOM

Drilling operations management

For drilling supervisors, engineers, and production managers, JuraDOM connects field data, operations analysis, and management workflows to support single-well tracking, multi-well benchmarking, and field decision-making.

Operating context

Routine oversight of multiple concurrent well operations

As operations continue at the wellsite, the base team needs timely visibility into progress, complications, and resource status so it can plan subsequent work.

01 Dispersed data makes field conditions difficult to see in full

Real-time parameters, daily reports, and design materials are scattered; even after repeated aggregation, forming a complete view of one well remains difficult.

02 Causes of waiting and downtime are unclear, and the basis for improvement is weak

Operating conditions, time performance, and rig-team performance lack a common basis for comparison, making resource scheduling and responses to complications prone to delay.

Capabilities and value

01 Understand field conditions faster and respond in time

1. presents real-time parameters and daily reports together; combined with 2. alerts, it reduces manual information assembly.

02 Identify efficiency differences to support lower costs and higher efficiency

2. compares waiting and downtime, penetration rates, and rig-team performance, while 3. tracks resources, together providing a basis for improvement.

03 Retain operational evidence and improve experience reuse

3. links operation records, procedures, and case studies to support compliant execution and post-job review.

Key outcomes: dynamic views, time-performance benchmarks, resource plans, and traceable operation records.

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Workflow and application

Well-site acquisition and existing systems → JuraDOM → Supervision and production management

Inputs Product actions Visible outcomes

Real-time mud-logging parameters Measurement-while-drilling data and video Field specialist input | 1. Collection, aggregation, and visual monitoring | Single-well dynamic view Structured daily reports

Coordinate source-level data collection, parse daily reports, and link curves, trajectories, and wellbore structure.

Design and offset-well data Actual drilling conditions Waiting and downtime events | 2. Risk, rate-of-penetration, and time analysis | Risk alerts Parameter recommendations Time-performance benchmarking

Detect abnormal operating conditions and parameters using models, offset-well benchmarking, and analysis of waiting and downtime.

Operating plans Material records Procedures and case studies | 3. Resource scheduling and standardized operations | Resource-scheduling dashboard Operation records Knowledge and case studies

Track rig plans, material flows, and work instructions, and reuse procedures and experience.

OiO foundation: business ontology, resource management, data services / cloud-edge collaboration

Supervisors and engineers review analysis results, decide in accordance with field procedures, and organize execution.

Typical application and practical basis

Drilling design-to-execution comparison system for an international oil company: it integrates real-time drilling, daily-report, and design data; supports single-well analysis, multi-well comparison, KPI analysis, multi-well remote oversight, and post-drilling evaluation; and has been deployed and highly recognized by drilling-department users.

Adoption and integration

Acquisition, monitoring, risk and time-performance analysis, and resource and operations management.
Relevant data must be connected, and rules, models, and business workflows configured.
Risk alerts and parameter recommendations support professional judgment.

Discuss a pilot around one management task

Select a well or rig team and bring representative daily reports, real-time data samples, and management requirements to discuss the demonstration scenario, integration scope, and required outcomes with Jurassic Software.