JuraOFM

Intelligent reservoir analysis and decision platform

For research institutes and departmental business specialists, JuraOFM supports monthly performance analysis, anomaly diagnosis, and development-adjustment studies for individual wells, well groups, and reservoirs.

Operating context

Reservoir engineering, development geology, and performance-analysis specialists work on representative blocks to prepare materials, screen anomalies, conduct thematic analysis, and discuss production interventions.

Why a shared evidence path matters

01 Data, maps, and methods are dispersed

Data retrieval, verification, and mapping are repeated, and geological, performance, and well-history evidence is difficult to cross-check.

02 Time windows, definitions, and parameters differ

Conclusions are difficult to compare, and research evidence remains in individual files, making review and reuse difficult.

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A connected reservoir-analysis workflow from evidence to reviewed action

How the reservoir work progresses

01 Geological understanding | **02 Single-well change** | **03 Well-group injection** | **04 Reservoir evaluation**

INPUTS

Production performance and injection–production

Well history, testing, and geology

Outputs from existing specialist software

OiO and data services

FOUR ANALYSIS TASKS

01 Production fluctuation diagnosis

02 Injection / production performance analysis

03 Waterflood performance evaluation

04 Production forecasting analysis

OUTPUTS

Anomaly and cause assessment

Injection–production and waterflood understanding

Forecast curves and comparisons

Candidate production interventions and supporting evidence

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Evidence, method comparison and review remain visible across the task

Value and evidence

OiO, together with JuraDataHub, organizes data and maps and reuses presentation components, scenario configurations, and model-management capabilities.

Reviewing causes and methods

01 Compare methods

Compare fitting intervals and parameters and retain forecast conditions. Evaluate production-intervention outcomes against agreed baselines and record other factors affecting the same period.

02 Verify causes

Support evidence verification and method comparison for the same object. Link production curves, well history, operations, and test information to compare candidate causes, response lags, and conditions for method applicability.

03 Validate outcomes

Validate actual outcomes within the task scope and against human effort

04 Preserve differences

Retain evidence gaps and differences among conclusions

Record the basis and compare against agreed baselines

Retain objects, time windows, method parameters, and review opinions. After production interventions are implemented, evaluate them against agreed baselines and observation windows and record other factors affecting the same period.

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A representative application, its evidence limits, and rollout conditions

Typical application and evidence basis

7

main organizational units

7–10 → 1–3 days

for block monthly performance analysis

The work covered 7 main organizational units, and block monthly performance-analysis time fell from 7–10 days to 1–3 days.

The record does not provide complete samples or statistical definitions and should not be treated as an efficiency commitment for new projects or used to infer a standalone OiO contribution or production-increase benefit.

Foundation and representative-block rollout

Foundation and configuration

Foundation: OiO and JuraDataHub. Modules, versions, interfaces, and the scope of intelligent enhancements are confirmed according to the actual configuration. Connect the agreed production, injection–production, well-history, testing, and geological materials and verify permissions, well–interval correspondence, and record definitions.

Rollout and responsibilities

Select a representative block and complete material verification, scenario configuration, trial use on a real task, and outcome review. Business specialists review conclusions; data and IT personnel coordinate authorization and interfaces; and the implementation team handles integration, configuration, and training.