3DEXPERIENCE®

OIL & GAS PRODUCTION INTELLIGENCE

ENERGY, PROCESS & UTILITIES INDUSTRY
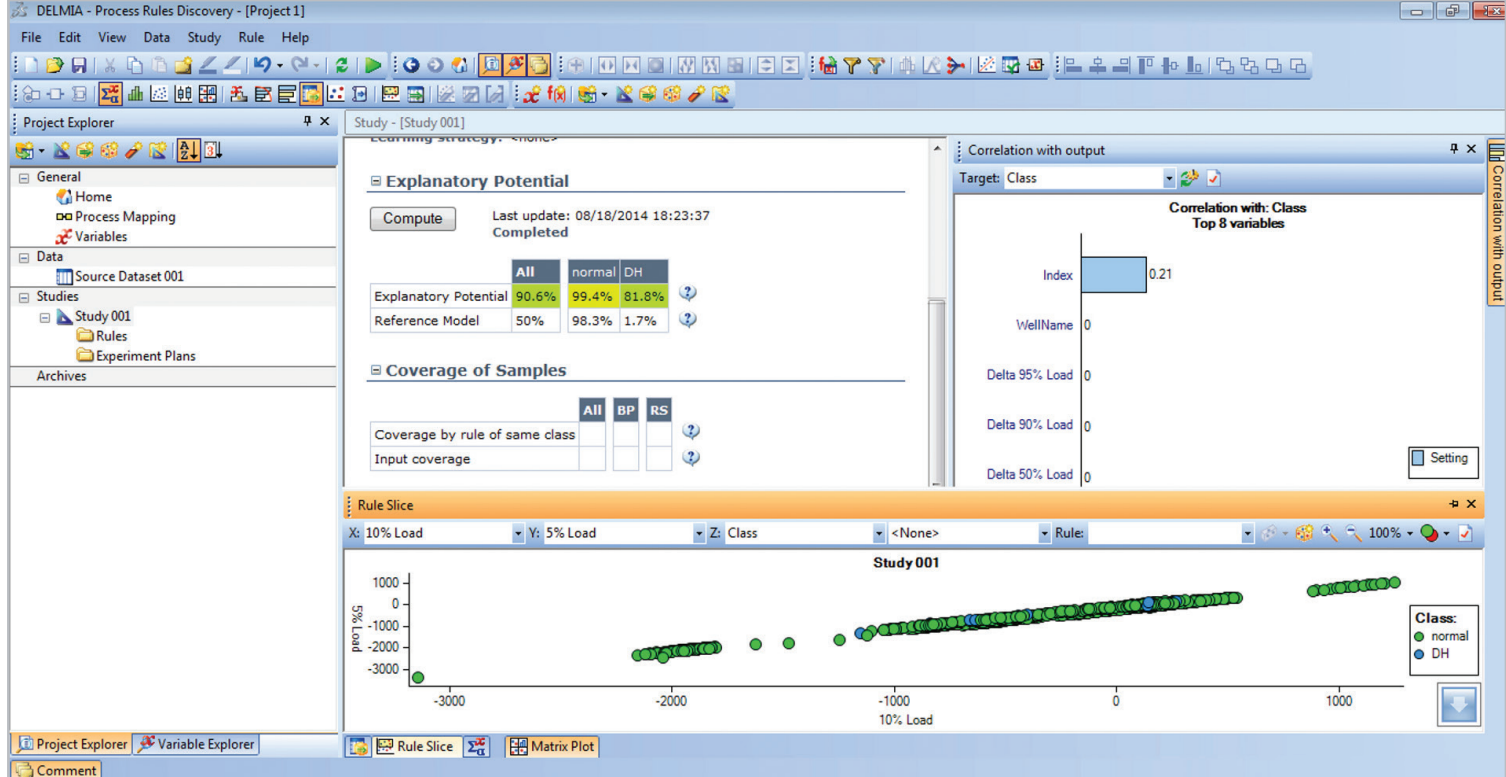
Detect and Avoid Production and Exploration Risks

DELMIA's Oil and Gas Production Intelligence solution for the Energy, Process & Utilities Industry is a data-driven, rule-based continuous process improvement methodology.

DELMIA's Energy, Process & Utilities Oil and Gas Production Intelligence solution provides real-time detection and avoidance of Oil and Gas production and exploration risks. Easily collecting production data in real-time, root causes of failure can be quickly identified. Taking into account the quantified influence of process variables, the solution can reduce unscheduled downtime due to abnormal operating conditions such as excessive fluid pound, or fluid loads that are outside the acceptable range. The value is driven from the analysis of historical reservoir data or current production data and discovery of rules validated by experts.

Understand quantified influence of process variables

Analyze reservoir data to discover hidden root causes

INDUSTRY CHALLENGES

- How to improve recovery, keeping in mind economic and environmental constraints?
- How to increase exploration success rates?
- How to better anticipate field development and production costs?
- How to analyze information more effectively to make informed decisions?
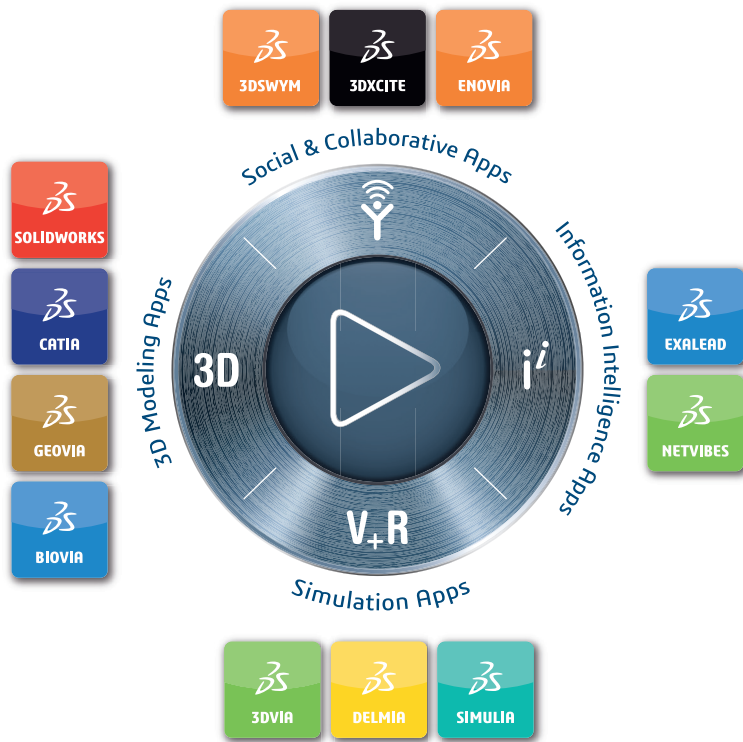- How to establish continuous process monitoring and improvements?

SOLUTION HIGHLIGHTS

- Analyze and search through data to discover hidden root causes
- Capture best practices in natural language rules
- Rule-based, closed-loop continuous improvement process
- Enable real-time adjustment of Rod Pump Control process to changing conditions

SOLUTION VALUES

- Operating parameters are continuously monitored to detect anomalies in beam pumping performance
- Detect Well Performance Degradation before it becomes a problem
- Reduce unscheduled downtime because of abnormal operating conditions
- Maximize oil recovery by matching system pumping time to well inflow capacity
- Analyze and search through large volumes of data to make informed decisions
- Edit and establish rules with experts (knowledge capture)
- Understand quantified influence of process variables

USERS

- Production Manager

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