DecisionSpace®
Well Integrity Management

MAXIMIZE WELL AVAILABILITY
BY MANAGING WELL INTEGRITY RISKS

DecisionSpace Well Integrity Management is designed to minimize risks and production loss associated with well barrier failures by streamlining well integrity monitoring and analysis. With automated and integrated workflows, it delivers rapid diagnosis on well barrier elements to spot well integrity risks faster and execute preventive and corrective maintenance in time. Engineers can rapidly identify high-risk wells, take corrective actions faster, and mitigate issues to maximize well availability.

KEY BENEFITS
» Trigger follow-up action and streamline well integrity standard procedure with automated workflow engine
» Quickly diagnose and resolve complex well integrity issues through interactive dashboards that display key metrics and well barrier element status
» Maximize well availability and minimize production loss with cross-domain integration from well planning to abandonment

KEY FEATURES
» Easily configurable reports for adhering to industry, corporate and regulatory standards
» Well failure model that automates decision-tree workflows for technical and business process
» Continuous monitoring with information updates and alerts

Identify and mitigate high-risk wells faster
Spot high-risk wells at a glance through interactive dashboards that shows key indicators, risk ranking, and well barrier schematics. Capture and review findings, assign action codes, track progress, and trigger decisions with comprehensive anomaly management workflows. Easily configure limits, elements, multi-tier failure envelopes, and ranking criteria to accommodate policy and condition changes.

Simplified reporting based on industry standards
Easily generate reports based on industry standards such as ISO 16530 and NORSOK D-010 with more than 15 built-in templates. Summarize full well history, encompassing audit documentation and operational status, tailored to local and regional requirements via configurable reports system. Automatically distribute report and track approval trail for timeline adherence.

Full well integrity lifecycle
Powered by the DecisionSpace cross-domain platform, maximize well lifespan by addressing well integrity critical points throughout the E&P lifecycle. During planning, combine geomechanical analysis with well trajectory design to create safer well plan. During well construction, optimize well and operation design according to wear prediction. During production, continuously monitor well barriers and leverage Halliburton field expertise in well control and prevention.
Scalable Workflow Automation
With more than 35 logic combinations, tailor the automated well failure model according to asset’s growing needs. Start with simple well integrity workflows to address the most critical issues at minimum cost. Drill down on well barrier criteria and combine it into model that can trigger workflows, recommend mitigation methods, track repair or replacement efforts and issue changes. Seamlessly scale the workflows to manage bigger, more complex challenges involving multiple scenarios, advanced well control actuation and enterprise-level decision triggers.

Well Integrity Dashboards
The analytics dashboards are designed to quickly comprehend potential well barrier element impairments and failures. It tracks enterprise-level well integrity by benchmarking and correlating asset-wide key performance to discover optimization opportunities. It also provides KPIs and traffic light status on individual wells, allowing quick identification of well barrier element status, risk ranks, operating limits, well barrier envelopes and annuli pressure anomalies. Powered by DecisionSpace cross-domain platform, manage real-time alerts by exception according to safe operating envelopes, Maximum Allowable Annular Surface Pressure (MAASP) calculation, and casing pressure.

Audit Process Integration
Enabled by iEnergy® cloud, instantly capture wellhead audit findings, auditor assessments and recommendations to increase asset intelligence and assist decision-making. Get status and audit results on critical well barrier elements, from wellhead to tubular, in real time. While designed for Halliburton’s Well Integrity Audit standard procedure, it can be customized to reflect specific audits and processes, as requested.

Cross-domain Data Sources
Feed the well integrity management system with data from various sources, including inventories, production details, pressure data, maintenance schedule, operator log, previous reports, audit trails, documents and instrumentation data streams. Get the insights needed to make more accurate analysis and better prioritize preventive and corrective maintenance.

A multi-field operation with over 2,000 wells minimizes production loss by accelerating well barrier review process from almost two hours down to seconds, using DecisionSpace Well Integrity Management.

For more information, contact your local Halliburton Landmark representative or visit us on the web at www.Landmark.Solutions

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