Now you can keep your field operations “healthy” using the innovative diagnostic capabilities offered by Digital Field Solver™, a DecisionSpace® 365 cloud application.

Increased production at a lower cost per BOE is your asset’s ultimate goal, achieved largely by intelligent monitoring and surveillance, and by optimizing your operations.

Now you can keep your field operations “healthy” using the innovative diagnostic capabilities offered by Digital Field Solver™, a DecisionSpace® 365 cloud application. The cloud’s uniquely open, digital solution delivers integrated, physics-based and data-driven models to help you detect, analyze, and resolve production problems with more precision and speed. Smart, continuous monitoring further aids you in boldly taking the necessary proactive steps to avoid costly non-productive time and, thus, optimize ROI. This is a must-have tool to stay ahead of the game in today’s competitive market.

**Reduce your Infrastructure and Maintenance Costs**
Leveraging cloud-based computing for intensive calculations and multiple scenario analyses allows you to scale and adapt faster, at much lower cost.

**Transform Expertise From Seasoned Engineers Into Executable Workflows and Digital Twins**
Capture the knowledge and best practices from your top engineers in widely deployed cross-functional workflows running on centralized and integrated production datasets translating your knowledge into action.

**Customize Automated Workflows for Optimal Performance**
Intelligent, customizable workflows, machine learning, and advanced analytics will enable you to quickly solve unique and intricate problems.

**Monitor the Health of Your Production Operations Anywhere, From any Device**
Rapidly identify operational events, receive recommendations, and execute corrective actions from a single open platform.
Digital Field Solver™ provides an integrated view and analysis of a production asset leveraging real-time data, diagnosis, optimization and automated workflows to execute faster data-to-decision-to-action cycles to drive efficiency and reduce costs.

**CENTRALIZE & INTEGRATE YOUR PRODUCTION DATA**
Monitor, analyze, model, and diagnose field production data in a single application for efficient, end-to-end problem solving.

**ADVANCED TECHNOLOGY AT YOUR FINGERTIPS**
Build powerful, integrated models and orchestrate workflows using advanced analytics, production engineering science, and business knowledge microservices.

**AN ACCESSIBLE AND UNIFIED VIEW OF YOUR DATA**
View production data consolidated on a single, user-friendly dashboard display available via the cloud to anyone, anywhere, anytime.

**OPTIMIZE YOUR PRODUCTION WORKFLOWS**
Identify production deviations, minimize NPT, and meet production targets with automated, intelligent workflows.

**SCALABILITY**
Process larger datasets and run more complex models faster in the cloud, reducing the need for costly IT infrastructure.

**AUTOMATED WORKFLOWS**
Get a head start with predefined, intelligent workflows to increase efficiency and reduce costs while maximizing the BOE per $ spent.

**FLEXIBILITY**
Design your own tailor-made workflows to reflect unique asset requirements using the application’s robust Workflow Designer component.

**MULTI-DISCIPLINE EXPERIENCE**
Concurrently view and discuss data displayed in one virtual location to reach collaborative solutions among production engineers, operators, and managers.

**SYNCHRONIZATION**
Stay in sync with shared access to correct, up-to-date production data for making accurate decisions from a single, trusted source.
FEATURES

WORKFLOW AUTOMATION
Digital Field Solver™ cloud application features a new and improved AssetConnect™ workflow automation engine, now powered by pSeven, which is web-based and provides advanced tools for design exploration and predictive modeling. Workflows can be easily built by dragging data access and engineering functions blocks visually to your workflow canvas and connecting them in the right order to implement your workflow logic.

WELL MODEL CALIBRATION
Digital Field Solver™ cloud application comes out-of-the-box with a set of workflows, data footprint, and dashboards to provide a solid well-centric, model-based surveillance system. Aside from generating the main production data in the asset, the surveillance system builds trust in the models enabling the system to start using the models in new workflows to perform optimization. Wellbore and completion models are enabled by the Landmark NETool™ application with automatic well model calibration provided by the Well Test Validation workflow, which uses single and/or multi-rate well tests to both analyze the quality of the well test data and also adjust the model to be able to reproduce the well test. Updated well models are used to estimate the well rates in-between formal production allocation results.

IDENTITY & ACCESS MANAGEMENT
Identity and access management is facilitated by the Integration Foundation and is managed by Keycloak, an advanced open-source tool to manage from very simple to very complex authentication schemes. LDAP and Active Directory, single-sign-on, user federation, identity brokering, and social login; all these features are available to implement the access granularity you need to provide a secure environment.

WORKFLOW SCHEDULING
The scheduler is responsible for managing how and when to run workflows. Published workflows can be triggered either on-demand or on a schedule via trigger events. A scheduled run can include information to narrow the scope of operation to a subset of all possible entities, for instance, it is possible to limit a well-centric workflow to only wells from a given gathering center, among other scenarios. Automated workflows save precious engineering time by providing your engineers with actionable results freeing more time for analysis and decision-making activities.
DATA MANAGEMENT

Digital Field Solver™ cloud application leverages the Production Data Management (PDM) component of Data Foundation to provide high-quality structured data to feed the automated workflows. Typical types of data supported are well and network master data, production history, well test data, and right-time data (aggregated time-series datasets from real-time data sources).