Activate field-wide intelligence to maximize production.
GAIN INSIGHTS FOR SMART DECISIONS

Stay alert to production problems anytime, anywhere

Know immediately when operating parameters pass critical limits. The ForeSite platform monitors real-time data and generates intelligent alerts when it detects significant changes in setpoints or trends. Users can respond to alarms and send commands directly to the well. Alerts go anywhere you go, including mobile devices.

Optimize production with proven modeling engines

Improve lift operations in dynamic conditions. For over 15 years, our extensive suite of comprehensive calculation and modeling engines has helped to evaluate and tune performance in more than 150,000 wells. Our best-in-class nodal-analysis engine is the only software currently capable of modeling all forms of artificial lift. Our patented modified Everitt-Jennings algorithm, in combination with the Gibbs method, provides load computations at multiple points along the rod string for reciprocating rod lift.

Detect performance problems using expert diagnostic systems

Your well performance issues have met their match. The ForeSite platform performs diagnostics in real-time to recognize atypical behavior in your naturally flowing wells, ESP, gas-lift, plunger-lift, and rod-lift systems. Now, for example, the ForeSite platform can compare your rod-lift dynamometer characteristics with an extensive card library to help you diagnose key factors affecting the performance of each well.
Enhance lift performance throughout the life of your well

Change is constant in every well. With a capacity to store years of sub-second real-time sensor data and more than 10,000 cards per rod pump, the ForeSite historian can collect and store data at any frequency, in accordance with your analytical needs. This data will not only help to optimize your production today, it will also help you proactively transition to alternate lift methods as you respond to changing reservoir conditions.

Tune well performance by analyzing multisource data

Fine tune your models to reduce OPEX in the field. Our ForeSite platform uses physics-based models of your wells to identify opportunities for improving production and increasing run life. These models, automatically tuned by real-time data, give you actionable intelligence for optimizing output.

Spread asset intelligence across the enterprise

Harness the power of asset-wide data with a single, secure platform. Installed and maintained with the ease of a web-based system, our ForeSite platform provides seamless data integration from any source, and provides a user-friendly interface for enterprise-wide production optimization.

Prevent data loss and minimize exposure

Install a secure system that hinders cyber-attacks. Our ForeSite platform enables secure communication while providing separation between process controls and the business network. Fully compliant with security best practices, this system maintains legacy access and control authority from your existing systems.

Implement a powerful, easy-to-maintain platform

Thin out your installation and maintenance issues. The ForeSite platform is a web-based (HTML5) system that offers cost efficient cloud or on-premises implementation.

Take your optimization platform anywhere you go

Keep the important details at your fingertips. Available anywhere you want it—from desktops to tablets to mobile devices—the responsive ForeSite platform provides fast, intuitive displays that relay customized opportunities, notifications, and KPIs whenever and wherever you need them.

Integrate your in-house systems to empower decision making

Combine the power of multiple data systems. Our ForeSite platform offers bidirectional integration with in-house data mart, workover, finance, and historian systems to broaden your view of the enterprise. This single platform displays critical information in one place, to help you identify opportunities throughout your business.
Asset Optimization

Identify and prioritize production optimization opportunities across your asset. Unleash the potential of your asset with our innovative control, analysis, and field-management solutions.

Leveraging global expertise and an unparalleled depth of products, our integrated full-field optimization system helps you monitor performance and recognize current and future improvement opportunities across all reservoirs, wells, surface equipment and pipelines.

Remotely optimize your asset

Automate and optimize your reservoir, well, and surface networks. Our application enables full-field optimization and automation through remote monitoring and control, automated workflows, operations analyses and forecasts.

This software integrates data from real-time instruments and sensors across the asset into a single platform, allowing live asset-production tracking, full automation of daily engineering tasks, and continuous optimization throughout the asset.

Automated workflows monitor up-to-date asset performance to detect operational variances and identify current optimization opportunities. This application compiles enterprise-wide data, well tests, and predictive models to recognize future production optimization opportunities.
Realize the field of the future.

Leverage your data to optimize production

Our ForeSite® production optimization software platform harnesses data from every corner of your asset to help you improve the performance of your reservoir, wells, and surface facilities.

This single platform uniquely integrates physics-based models and advanced data analytics to increase equipment uptime and ultimately extend the life of your asset.

Combining decades of Weatherford production experience with cloud computing and the Internet of Things (IoT), our secure and easy-to-maintain platform connects the entire production ecosystem and empowers you with foresight to maximize production and reduce operating costs.

INTRODUCE YOUR ASSET TO INDUSTRY 4.0.

Create a production optimization ecosystem that can expand with your well count and asset base. This platform combines the power of IoT with cloud computing and advanced data analytics to help you capitalize on opportunities.

OPTIMIZE IN THE CLOUD

Harness the productive power of our ForeSite platform CAPEX-free.

Operational realities can restrict the time and resources needed to install and support an onsite solution. Installed in a matter of hours and reliably hosted with Google Cloud, our ForeSite platform on the cloud accelerates your transition to field-wide intelligence. Our solution effectively places a virtual network of IT professionals and computing power right at your fingertips.

For more detail on this industry-first solution, please contact your Weatherford software specialist.
Well Optimization and Reliability

Monitor performance of multiple wells, regardless of lift type. With an enterprise-wide approach to well optimization and real-time monitoring, our application lets you quickly identify, prioritize, and service underperforming wells to reduce production losses and downtime, and improve your bottom line.

Boost production through well analysis
Analyze production for naturally flowing and artificially lifted wells. Our real-time data collection capabilities and engineering models provide detailed well analyses to help you evaluate performance and optimize production.

Monitor performance and avoid problems
Identify production-equipment and lift-performance issues. Our intelligent monitoring applications become your eyes and ears in the field. Using real-time and engineering-model-derived data, our software helps you make sense of each layer of input, to help you recognize and head off production problems.

Manage your field service agenda
Plan, execute, and track downhole and surface equipment workovers. Our ForeSite field service management application helps you to reduce downtime and minimize deferred production while prioritizing the most economically sound jobs to ensure the best ROI. Our field-wide approach to well monitoring and management lets you quickly identify, prioritize, and service underperforming wells to reduce production losses and downtime.

Predictive analytics for failure management
Utilize big data and artificial intelligence to predict failures. Leveraging a combination of real-time sensors, engineering-model-derived data, and equipment failure history, ForeSite software can help you to proactively remediate subsurface equipment issues to extend equipment life and reduce failure frequency. Let our predictive analytics guide your workover and maintenance planning to reduce downtime and minimize deferred production.

ForeSite® application capabilities

<table>
<thead>
<tr>
<th>Well Type</th>
<th>Well Optimization</th>
<th>Well Monitoring &amp; Surveillance</th>
<th>Field Service Management</th>
<th>Predictive Analytics for Failure Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reciprocating Rod Lift</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Naturally Flowing</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Future</td>
</tr>
<tr>
<td>Gas Lift</td>
<td>Yes</td>
<td>Yes</td>
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<td>Future</td>
</tr>
<tr>
<td>Electric Submersible Pump</td>
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<td>Gas/Water Injection</td>
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<td>Yes</td>
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<td>Future</td>
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<tr>
<td>Progressing Cavity Pump</td>
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<tr>
<td>Plunger Lift</td>
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<tr>
<td>Hydraulic Lift</td>
<td>Future</td>
<td>Future</td>
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</table>
PRODUCE WELL INTO THE FUTURE

Prevent issues before they impact your bottom line. Our ForeSite platform provides well-management tools to help you pinpoint and prioritize production issues. Using advanced data analytics, this platform gives you foresight for creating a proactive optimization plan to help you produce well into the future.

Predict failures to maximize uptime
Extend mean time between failures (MTBF) with a complete daily checkup. Our ForeSite platform uses predictive analytics to track the condition of your system. With just a few mouse clicks, you can forecast potential problems and pull up a heat map to display concentrations of historical and predicted failures.

Reduce costs with predictive analytics
Fix minor issues before they cascade into bigger problems. The ForeSite platform helps you predict failure by lift component, so you can proactively dispatch your maintenance crews when needed to reduce downtime and associated production losses.

Select the right lift at the right time
The right form of lift isn’t a single answer. Our ForeSite platform uses current and projected data—including in-flow and completion modeling, fluid properties, PVT analysis, and flow dynamics—to help you anticipate problems and design the optimal lift solution for every stage in the life of your well.

Plan ahead for virtually any scenario
Develop a back-up plan with what-if scenarios. Our ForeSite platform helps you to develop a contingency plan for any production situation. You can investigate potential failure conditions downhole or in the surface system and develop proactive responses to minimize impacts to production.

Scale up without limits
Growth or complexity is never a constraint. OpenStack elasticity gives the ForeSite platform unparalleled scalability that spans from a few wells to multi-asset projects. Flexible in every respect, our system accommodates growth across your enterprise and across geographic borders.

Focus on what matters most
Devote more time to proactively optimizing performance rather than looking for problems. Our real-time monitoring, fully configurable intelligent alarms, and intuitive user interface give you the tools to manage by exception and make informed decisions.
CONTACT US TO TRANSFORM DATA INTO PERFORMANCE

Our ForeSite® production optimization software platform gives you actionable information to make the decisions you need to extend the life of your asset. To learn how our services and technologies can work for you, please visit the link below.

WEATHERFORD.COM/FORESITE