DIGITAL SUITES FOR OIL AND GAS
Smart Use of Real-time Data for Advanced Well and Field Surveillance
Well Performance Monitor

Smart Use of Real-time Data for Advanced Well and Field Surveillance

**Challenges**

With an increasing number of assets in remote and geographically-dispersed locations, the demands placed on your team to effectively manage production become more complex. Too little quality well data, lots from multiple data sources, limited well testing facilities and finite manpower resources make monitoring, diagnosing and identifying optimization opportunities a real challenge. As a result, unexpected shut-ins and production losses are common.

Your team must analyze large amounts of data from downhole to processing facilities as well as engineering well models to make decisions that impact performance and field efficiency.

The challenge is how to easily understand what the wells are doing, where to focus engineering efforts and how to make the best use of your engineering resources to optimize well and field production.

**Solution**

Well Performance Monitor is a real-time field and well production surveillance solution that enables continuous tracking of well performance to ensure targets, and easy access to real-time and historical KPIs to support decisions and optimize production.

It allows rapid deployment and quick ROI through an out-of-the-box, intuitive interface that presents prioritized views of total field and individual well performance.

Well Performance Monitor helps avoid deferred production, reduce well workovers, increase production and ultimately improve recovery.

Well Performance Monitor can interface with third party control systems and applications, has the flexibility to monitor from small to large fields and effectively support remote operations.

**Features & Benefits**

- Exploit real-time data to have continuous surveillance and visibility
- Real-time performance of wells and fields in a single prioritized view
- Continuously track production targets and detect abnormal conditions
- Full visibility from bottom hole to gathering facilities, facilitating analysis and collaboration

**Real Impact in Field Operations**

Reported benefits from customers include:

- Improved collaboration and field knowledge, which increases the efficiency of operations
- 5% increase in production through early identification of well performance issues
- Faster restoration of optimal operation following shut in
- Immediate identification of well and process instabilities allowing incremental production
- Power to respond earlier to identified production issues
- Reduction in personnel risks and production downtime through timely identification and rectification of well integrity issues
- Reduction in maintenance costs through identification of abnormal operational situations and reduced well maintenance visits
- Increased effectiveness through business role transformation

**Features**

- Simple and secure access to well, field and facilities data through common web views provides visibility of your operations for all your team anywhere in the world.
- Automate surveillance of your well/assets, allowing you to focus on optimization actions.
- Respond earlier to emerging well issues through single, prioritized views of abnormal well performance.
- Improve collaboration through common web-based views for your well/assets, with no desktop deployment needed.
- Use best real-time rate estimates to improve production allocation and forecasting.
- Monitor the performance of water injection and diagnose plugging or fracturing issues.
- Analyze pump/motor efficiency and safe operation on ESP wells.

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**References**

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