WellLink Performance Service
Identify drilling inefficiencies and improve well performance

In today’s cost-sensitive drilling environment, Operators are looking for opportunities to improve their drilling efficiency and reduce their financial exposure. Their ability to identify and remedy issues affecting efficiency can lead to improved drilling economics. The Baker Hughes WellLink™ Performance analysis service provides the granularity and tailored outputs to truly understand what is going on in the daily operation, and where time is being lost, rig to rig, crew to crew, activity to activity.

Identify invisible lost time
Most drilling performance initiatives focus primarily on eliminating downtime caused by wellbore problems and equipment failures. What many operators can’t see is the invisible lost time (ILT) related to inefficiencies around drilling processes which can be as much as 30% of normal uptime activities.

Currently, it is common practice to manually analyze drilling reports to uncover ILT, but with the WellLink Performance service you can effortlessly expose this by leveraging the visualization and analysis capabilities in the application, in real time and to a greater degree of granularity than through manual analysis.

The WellLink Performance service applies analytics to historic and real time wells site data to create a comprehensive drilling performance solution. Web-based dashboards interpret complex data buried inside legacy applications and drilling reporting systems to provide instantly accessible and actionable information.

This insight can be obtained through a variety of intuitive, multilevel drilldown dashboards, plots, charts, and alarm monitor displays, including:
- Connection and tripping speed graphical views - Real-time displays for immediate visualization of performance challenges and trends
- Crew KPI view - User configurable crew performance KPI comparisons including support for setting up crew schedules
- KPI monitor - Real-time advanced KPI metrics and visualizations with alarm status
- Performance Opportunity Time (POT) - Instant identification of areas needing performance improvement
- Days vs. Depth - Plot current well against well plan, offset, or benchmarked well

Applications
- Well planning and construction
- Benchmarking and score-carding
- Look-back analysis
- Personnel and portfolio optimization
- Remote Operations Decision Support

Features and benefits
- Provides drilling, flat-time analysis, and visualization of plan vs. actual, performance opportunity time (POT), rig activity, and crew performance
  - Achieve operational efficiencies by identifying opportunities to reduce ILT and improve top quartile performance
- Displays real-time dashboard of KPI’s and actively compare values to benchmark metrics
  - Enhances decision making to improve well delivery
  - Proactively identify operational gaps to minimize risk
- Scalable, multi-well analysis to systematically monitor and measure performance
  - Provides insight to drive “best in class” performance using leading indicators
  - Supports “Technical Limit Drilling” processes to reduce ILT
  - Identify and document best practices
  - Provides insight into bottom line cost exposure improvement programs through managed services
- Multiple service delivery and language options
  - Enables collaboration across experts
  - Provides global opportunity for efficiency improvements
The WellLink Performance service allows you to display the breakdown of operational activities and compare KPIs from multiple wells and rigs to identify inefficiencies during the well construction process.

**Investigate the root cause of invisible lost time**
WellLink Performance allows you to proactively identify causes of drilling inefficiencies and performance gaps, enabling decision makers to recognize performance improvement opportunities and define mitigating actions for current and future wells.

This solution eliminates time consuming manual analysis tasks including measuring and analyzing flat time and deriving performance opportunities. Additionally, you will be able to drill down into various defined activities to provide you additional context to the analysis.

This solution allows you to efficiently sift through all the key data points to find the root cause of your ILT.

**Identify areas of improvement, learn from past experiences, and set performance expectations**
You can improve drilling and rig performance and reduce well construction cost by immediate detection and rectification of drilling problems through comparisons of drilling times against plans and benchmarks.

Daily KPI reports provide individual rig performance information enabling decision-makers to take proactive actions to improve tripping times, connection times, gross ROP, and flat time on low-performing rigs. Once you have identified the lessons learned from identifying and analyzing your performance data, WellLink Performance allows you to set operational limits and controls that can be monitored and alarmed against in real time. This capability creates a closed loop of operational monitoring that will help you drive continuous improvement across your operations.

Contact your Baker Hughes representative today, or visit www.bakerhughes.com/WLP to find out how the WellLink Performance service can maximize drilling performance, improve operational efficiencies, and minimize ILT.

**WellLink Performance Value Chain**

1. **Identify Invisible Lost Time**
   Understand activity times and compare plan versus actual across multiple wells.

2. **Investigate**
   Drill down into the data to identify specific areas of improvement.

3. **Improve**
   Setup KPI alarms and dashboards to ensure improvements are operational in real time.

© 2015 Baker Hughes Incorporated. All rights reserved. 42820 12/2015