

# WellLink performance

## Automated drilling performance benchmarking and performance optimization

Baker Hughes **WellLink™ Performance** is a benchmarking and operational analysis service to provide web-based application to automatically convert the surface data into an intelligent insight. This will free up drilling engineers to focus on proactive mitigation of non-productive and invisible lost times instead of data processing and manual calculations. Studies show that companies lose 15 to 20% of rig time in non-productive activities due to operational inefficiencies. Drilling operators and contractors can benefit from micro and macro views of their operations to drill as per plan and maintain budgetary control.

Performance KPIs must be relevant and reliable to facilitate timely and effective actions. KPIs such as average times for tripping, drilling, connection, weight-to-weight, etc. enable easy comparison of rig, well, and crew performance, but when calculated manually, they can be time consuming and prone to error.

### Composite benchmark well

Utilize the best performances from different wells within the same field to create a composite benchmark well automatically that will drive the benchmark closer to the technical limit.

### Identify performance opportunity time (POT)

Most drilling performance initiatives focus primarily on eliminating non-productive time (NPT) caused by wellbore problems and equipment failures. What many operators cannot see is the invisible lost time (ILT) related to inefficiencies around drilling processes, which can be as much as 30% of normal uptime activities. WellLink Performance allows you to compare the performance against the benchmark well and provides POT with an automatic analysis of where the ILT and NPT occurred.

### Track performance using KPIs

Comparison of rig, well, and crew performance using out of the box automated KPIs in real-time. These KPIs enable to drive performance close to the benchmark set.

### Investigate invisible lost time

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.

### Applications

- Well planning and construction
- Benchmarking and score-carding
- Look-back analysis
- Personnel/portfolio optimization
- Remote Ops decision support

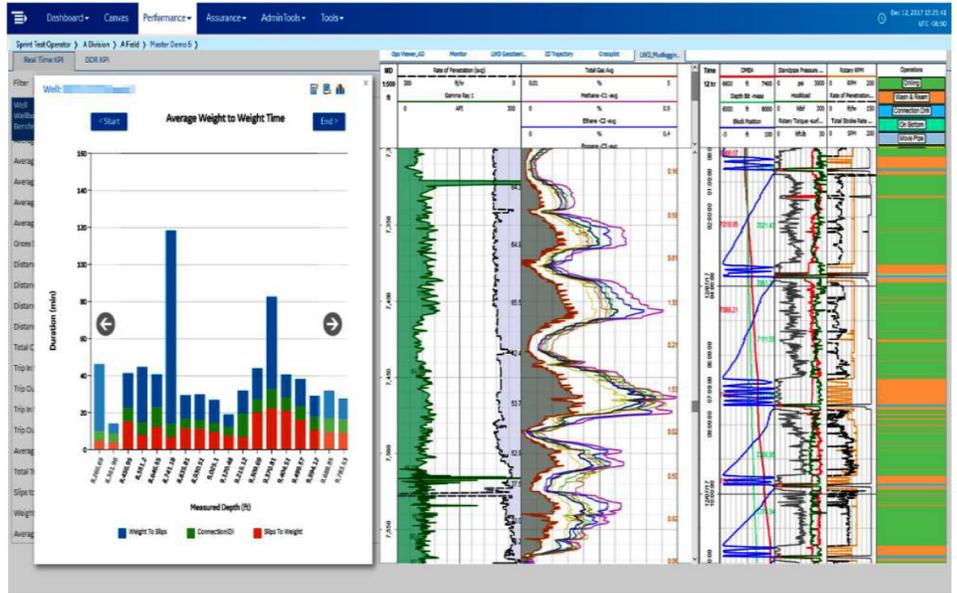
### Benefits

- Effective performance opportunity time (POT) using composite best of best well for benchmarking
  - Drive repeatable section by section best performance
- Provides analysis and visualization of plan vs. actual, performance opportunity time, rig activity, and crew performance
  - Improve operational efficiencies by reducing ILT and achieving performance
- Displays real-time dashboard of KPIs and actively compares values to benchmark metrics
  - Improve well delivery
  - Proactively identify gaps to minimize risk
- Scalable, multi-well analysis to systematically monitor and measure performance



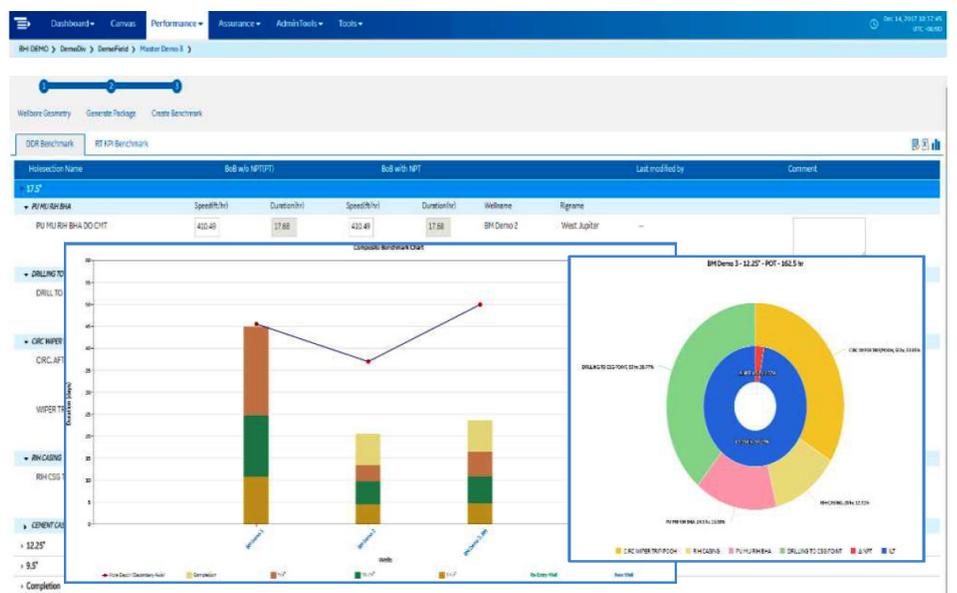
## Key performance indicators

Eliminate inconsistency in off-bottom procedures between crews that cause invisible lost time. Identify inefficiencies with automatic real time weight-to-weight break down of off bottom time during connections. These inefficiencies addressed in pre-tour meetings has an immediate impact on daily performance.



## Composite benchmarking and effective POT

Drive financial performance oriented operations by creating an automated best of best composite well based on historical performance to benchmark future operational performance. Identify effective performance opportunity time based on NPT and ILT from DDR KPIs and real-time KPIs.



## Service delivery

- 24 x 7 support
- High availability
- Secure
- Customized solutions