

DrillBest Saves Operator 36 Hours Offshore Rig Time, \$1.5MM USD



Client

Major E&P Company
Deepwater, West Africa

Challenge

Reducing costs during an extensive deep-water development drilling program.

Solution

Analyze drilling operations in detail to identify areas for improvement in drilling procedures and reduce non-productive time. Employing the DrillBest Drilling Optimization Service using digital surface drilling data to review well operations.

Results

Analysis of various drilling parameters identified procedures causing excessive connection times. The root cause of the long connection time was the result of an unnecessary reaming procedure that was observed to be of no additional benefit. Once the procedure was modified a total savings of 36 hours was achieved.

Value

Through the identification of hidden NPT the drilling rig was able to reduce their connection times from 39min/connection to 19min/connection. Resulting in 36 hours of rig time, equating to \$1.5MM USD saved.

Services used



Identifying hidden Non-Productive Time (NPT)

Standard rig reporting systems have difficulty providing sufficient granularity for time based studies useful for drilling optimization. "Big Data" from rig sensors are challenging to sift through to find potential cost savings.

Utilizing surface logging data with proprietary software operated by dedicated specialists can improve overall drilling performance.

In this instance, the benefits of DrillBest are as a result of time studies of specific rig activities. By observing the time between Weight on Bit (WOB) during connections, DrillBest specialists were able to identify a significant portion of the time was caused by back-reaming. Something not previously identified by traditional reporting methods. The granularity of the information allowed the DrillBest Specialist and the Operator to review the need for reaming and concluded that this was an unnecessary procedure.

Once the changes to the reaming procedure were implemented, the Operator realized an immediate savings of 36 hours of rig time, or \$1.5MM USD, during the drilling of the 12 ¼" phase.

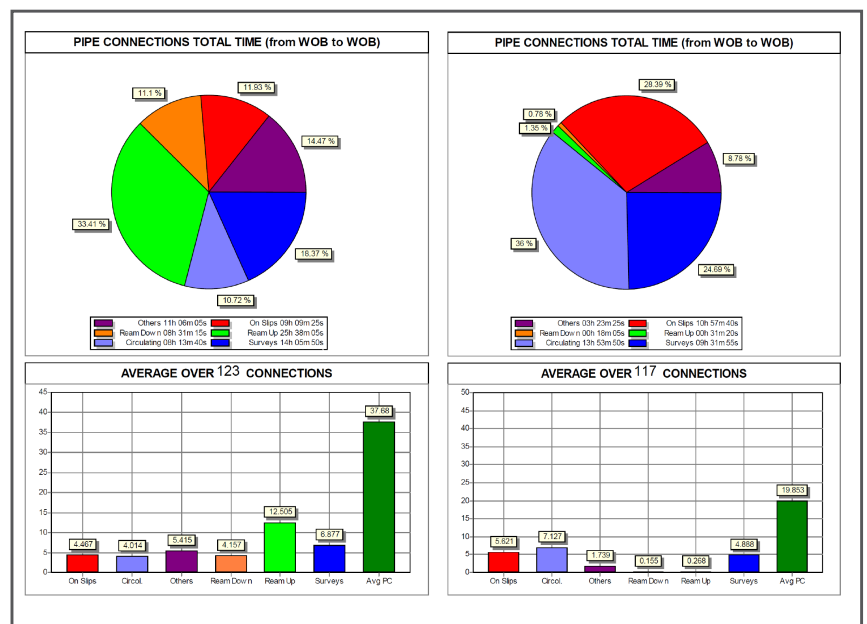


Figure 1. Rig activity broken down into greater detailing, allowing for reaming up activity to be reduced.