In today’s environment it is even more important for drilling and completions teams to focus on reducing non-productive time (NPT) during well construction by enhancing operational integrity and efficiency. Kongsberg Oil & Gas, in conjunction with BP, developed the SiteCom® Well Advisor real-time advisory solution for well operations in response to this growing focus. By leveraging the existing industry leading SiteCom® solution, SiteCom Well Advisor takes real-time data management to the next level as a decision support system integrating data with predictive tools and processes. This supports the delivery of the right information to the right place at the right time allowing for more informed decisions during critical operations.

**No Drilling Surprises Console**

The No Drilling Surprises (NDS) Console provides information related to geologic uncertainty with a focus on the safety of drilling operations. Various NDS widgets allow users to correlate horizons, zones, risks, and annotations in the current well while referencing the original well plan and offset wells.

The NDS Console has been designed specifically to perform three main functions:

1. Acting as graphic and visual support for the representation of the pre-drill analysis, the risks that have been identified are displayed together with the planned formation markers as well as historical log data and formation markers from offset wells in a single display.
2. Correlation of geologic horizons, zones, risks, NPT events, annotations and other relevant information for the current well with the well plan and offset wells in the geological area.
3. Provide to the engineering and geologist teams a summary of the current operations in real-time with a focus on using previously collected data to improve safety and efficiency of current operations.

**Benefits:**

- Drill safely – by monitoring raw data and performing real-time calculations to deliver a clear ‘bigger picture’ of activities, mitigate operational and HSE risks across all operational phases from spud to Total Depth (TD), and providing alerts according to predefined KPIs
- Drill quickly – optimise Rate of Penetration (ROP) by tracking hydraulic and drilling data sets to observe and improve current and future operations in real time
- Drill cheaply – use real-time data to pre-empt potential issues and prevent operational downtime or equipment failure and improve drilling efficiency
- Position accurately – utilize real-time information in conjunction with historical and plan data to enhance well placement, geosteering, and hence achieve optimal production
- Improve learning – central standardized database enables pre- and post-well analysis, lessons learned, and training

**Value:**

- Onsite engineers correlate the real-time data with historical offset well data to better recognize problematic drilling conditions and proactively adjust drilling operations
- Well conditions are evaluated continually to identify new hazards
- Drilling risks could be re-evaluated developing new risk assessments
- Well events seen in current drilling operations can be utilized to assess risks in future drilling operations