

BEACON Saves Offshore Nigeria Operator 24 Hours Rig Time

Benefit

Saved operator at least 24 hours of rig time by determining that a new cement job was unnecessary

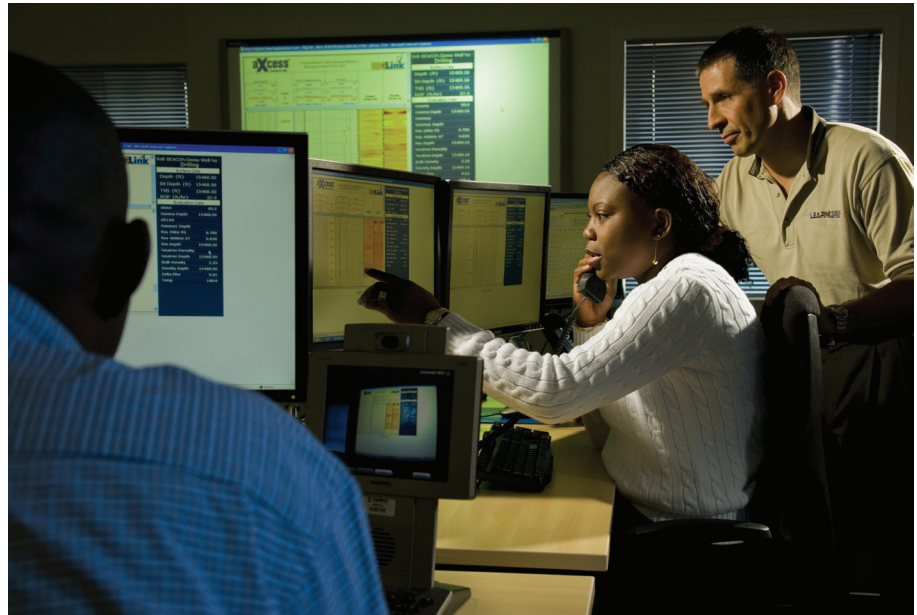
Background

- Offshore Nigeria, Abana A-18
- September 2007
- Goal was to kick off sidetrack from vertical
- Hole was plugged back, and kickoff had been attempted
- No sleeve rotation for six hours; no sign of sidetrack being initiated
- Operator was concerned about the competence of the cement plug
- New cement job would require at least 24 hours rig time

Baker Hughes Solution and Results

- AutoTrak™ G3 Rotary Steerable System
- OnTrak™ Advanced LWD Resistivity
- LithoTrak™ Advanced LWD Porosity
- Baker Expert Advisory Center Operations Network (BEACON™)
- VSAT satellite communications deployed at rigsite to transmit real-time data to BEACON
- Drilling parameters adjusted and continually monitored
- Successfully kicked off sidetrack from vertical
- Avoided unnecessary new cement job

BEACON (Baker Expert Advisory Center Operations Network) Enterprise Services, the digital oilfield platform of Baker Hughes, uniquely integrates expertise with services and technology through remote communications and data management, enabling remote monitoring, support, and control for all business units and all geomarkets at the enterprise level.



An offshore Nigeria operator attempted a kick off from vertical, but experienced no sleeve rotation for six hours and no sign of the sidetrack having been initiated. The operator was concerned about the competence of the cement plug and was considering a new cement job, which would incur the expense of at least 24 hours of rig time.

Baker Hughes deployed a VSAT satellite communications solution at the rigsite to transmit real-time data to the BEACON center.

The BEACON experts reviewed drilling parameters: RPM 60 to 100; WOB 15 klbs; steer direction 270° and steer force 100.

After review and analysis, they suggested drilling parameter changes, including an increase in RPM to 150 and maintaining an ROP of 60 to 80 ft/hr.

BEACON experts continued to monitor the drilling parameters and confirmed the correctness of this approach.

Sleeve rotation returned to normal and the sidetrack was initiated successfully.

With BEACON's technical expertise, the operator avoided the expense of at least 24 hours of offshore rig time incurred for an unnecessary new cement job.