CASE STUDY: ANGOLA OFFSHORE OPERATIONS

Baker Hughes team delivers well four days faster than planned

CHALLENGES

- Difficulty interpreting formation hazards (hard stringers) in real time, with static geomechanics model correlations not easily transferable to real-time operations
- High torsional fluctuation and stick-slip
- Premature cutting structure damage and bit under gauge
- String stabilizers with extra wear

SOLUTION

- A Baker Hughes team leveraged data from the JewelSuite™ Offset Analyzer, our offset-well analysis application, to prepare a detailed roadmap of drilling parameters
- Corva applications optimized the roadmap by setting alerts for formation hazards and real-time actions to avoid them
- The team easily correlated formation stringers identified in the Gamma Ray vs Depth application
- The team proactively adjusted drilling parameters before the well reached the hard stringers, preventing wear and damage seen in the latest offset well

RESULTS

75%
reduction in stick-slip vibrations

11%
well-to-well improvement in rate of penetration

4 days
saved compared with P50

"Corva used geomechanics correlations from JewelSuite Offset Analyzer to monitor parameters in real time. This enabled our team to take proactive measures to optimize drilling performance and planning for future wells in the area."

– **Pablo Rojas**
Well Construction Solution Engineer

bakerhughes.com

CORVA | Baker Hughes