16-in. hole section: Optimizing ROP and weight-to-weight times

CHALLENGES

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- Tool failures due to downhole vibrations
- Longer circulating and reaming times to prevent pack-offs and stuck-pipe events
- Previously drilled without dynamic, real-time modeling
- Conservative drilling parameters reducing ROP to mitigate tool vibrations

SOLUTION

<u>Corva</u> and <u>i-Trak[™]</u> applications were used to monitor and improve operational performance, including:

- i-Trak to monitor bed height concentrations
- Corva to optimize surface drilling parameters to maximize ROP while mitigating downhole vibrations with i-Trak
- Reduced reaming times following the automated torque and drag trend deviation tendency



RESULTS

57% weight-to-weight time improvement from recommendations

ROP improvement due to optimized drilling parameters

CORVA

lday saved compared to nearest offset well

Baker Hughes >



REAMING TIME



Comparison of actual drilling performance versus nearest offset wells.

