

Summary: Customer saves time and improves drilling efficiency through combination of physical and digital tools

CHALLENGES

- Tool failures due to downhole vibrations
- Additional wiper trips needed due to deteriorating hole conditions
- Potential for stuck pipe events
- Inability to get casing to bottom
- Longer circulating and reaming times to prevent pack-offs and stuck-pipe events

SOLUTION

- Combination of Baker Hughes 12 ¼-in. D806S [Dynamus™](#) extended-life drill bit and [AutoTrak™ RSS](#)
- [Corva](#) and [i-Trak™](#) applications were used to monitor and improve operational performance, including:
 - Real-time, multi-parameter optimization for drilling dysfunctions and penetration rate
 - Deep learning-enabled, physics-based models deployed continuously in real-time

RESULTS

15.7
days saved compared to P50

28%
ROP improvement compared to previous benchmark

15%
weight-to-weight improvement compared to offset well