EDGE AUTOPILOT™ ADS DRIVES $800K ANNUAL

CASE STUDY: EDGE AUTOPILOT™ ADS DRIVES $800K ANNUAL SAVINGS FOR PERMIAN OPERATOR BY CUTTING UPTs AND CONNECTION TIME

Challenge

In a high-pressure drilling environment, a major operator in the Permian Basin faced frequent Unplanned Trips (UPTs) and extended Weight-to-Weight (W2W) connection times—both of which were negatively impacting well delivery and overall efficiency.

The majority of UPTs were attributed to bit and motor damage caused by engaging bottom before flow rates were properly established, leading to costly equipment wear and lost time.

Solution

To address these challenges, the operator implemented EDGE AUTOPILOT™ ADS—an advanced drilling automation system that enforces programmable best practices and automates key downhole tasks.

The system ensured that bottom was only engaged after optimal flow rates were reached, preventing premature contact and significantly reducing bit and motor failures.

By automating these routines, ADS reduced unplanned events, protected the Bottom Hole Assembly (BHA), and minimized delays during connections.

To quantify the impact, a detailed performance analysis was conducted comparing operations before and after ADS installation. The results showed a dramatic improvement in efficiency and a total annual savings of approximately $800,000.

CASE STUDY FACTS

Location: Midland, Texas

Customer: Major Operator

Timeframe: Q1 – Q2 2024

Customer Value:

With EDGE AUTOPILOT™ ADS, the operator is on track to save approximately $800,000 annually by reducing UPTs.

The system also delivered an 11% improvement in connection times, supporting more efficient and consistent drilling performance.

Savings: Estimate based on a reduction of 1.67 UPTs per month, a spread cost of $80,000/day, 12 hours of non-productive time per UPT, and continuous rig operation (365 days/year).

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EDGE AUTOPILOT™ ADS SAVES BIG IN THE PERMIAN

Results

1. Decrease in UPTs

Within the first three months of EDGE AUTOPILOT™ ADS implementation, the operator saw a 55% reduction in Unplanned Trips (UPTs) compared to the three months prior.

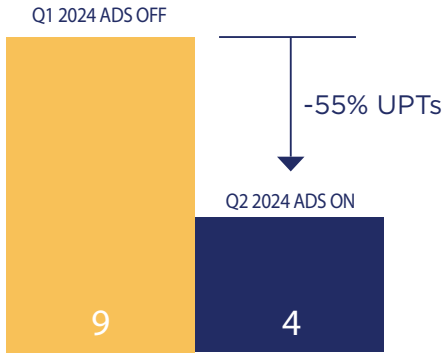
2. Faster Connection Times

EDGE AUTOPILOT™ ADS improved efficiency during Weight-to-Weight (W2W) connections, reducing average connection time by 0.62 minutes—an 11% improvement

3. Reduced Cycle Time per Well

Post-implementation, the rig averaged a cycle time of 9 days from spud to rig release, achieving a daily drilling rate of 694 meters per day.

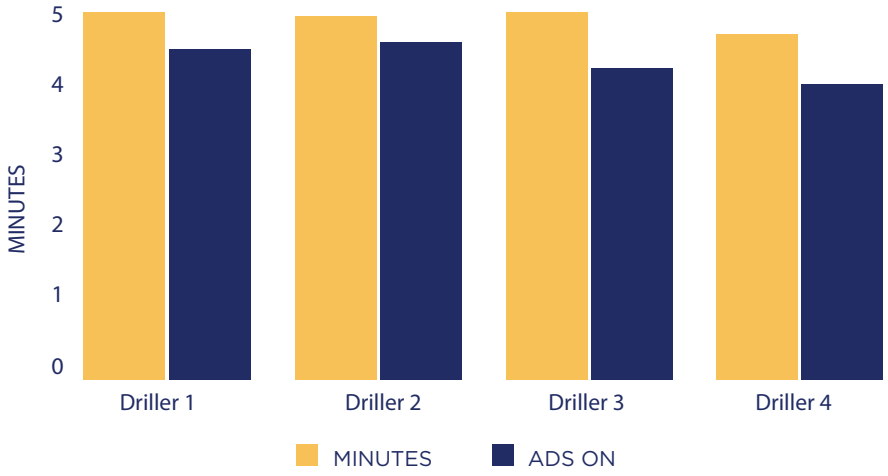
Average UPTs Per Quarter



Every trip avoided = thousands saved. EDGE AUTOPILOT™ ADS helps eliminate downtime and reduce costs—automatically.

11% AVERAGE REDUCTION IN DRILLER W2W CONNECTION TIME

Four drillers operated manually without EDGE AUTOPILOT™ ADS, then with EDGE AUTOPILOT™ ADS



PERFORMANCE AUTOMATION UNLEASHED

Navigate the future with EDGE AUTOPILOT™ ADS—a breakthrough in full-process drilling automation. This trailblazing technology unlocks each rig's full potential through intelligent control, advanced algorithms, and machine learning.