CASE STUDY: MARCELLUS SHALE, NORTH AMERICA

The TRU-Steer ultimate rotary steerable enables a step-change in delivering faster, more reliable wells across a basin in North America

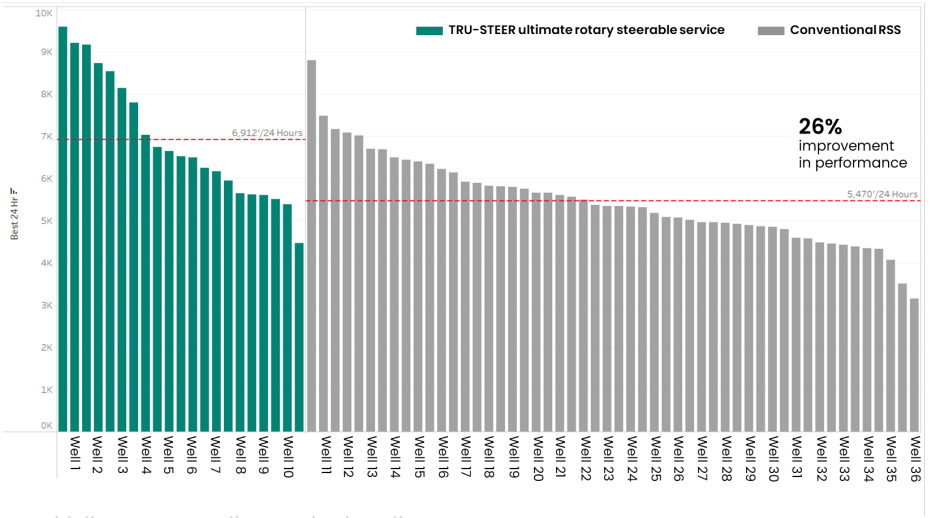
CHALLENGES

- Complex, hard formations with high-frequency torsional oscillations (HFTO), stingers, and high dogleg severity requirements constrained drilling and steering parameters, limiting the operator's ability to safely increase weight on bit or RPM without risking wellbore profile or BHA and drillpipe failure
- Inconsistent ROP and tool reliability: Offset wells showed frequent spikes, leading to early failures and extra trips
- Cost and time impact: vibration issues added hours per well, inflating spread-rate expenses

SOLUTION

The 6.75-in TRU-Steer™ ultimate rotary steerable service was deployed across multiple wells in the basin, virtually eliminating damaging HFTO. This enabled higher weight on bit and RPM, while improving reliability and extending run times compared with the conventional rotary steerable systems previously used in the basin

Best 24 hour performances



Performance comparison between TRU-Steer ultimate rotary steerable service and conventional RSS, demonstrating increased depth drilled over a 24-hour period.

RESULTS

$70,000 USD
saved on each well through shortening drilling time and cutting spread-rate costs

+44%
increase on average in ROP on the lateral

+26%
increase on average in depth reached compared to conventional RSS over 24hr period

+98%
elimination of HFTO

Baker Hughes
Rewriting The Energy Equation™