

# Lucida advanced rotary steerable service drills lateral to plan, reducing number of drilling days and trips downhole

## CHALLENGES

- Hard formation creates high-frequency tangential vibrations and stick-slip conditions that reduce reliability and require multiple trips
- High-quality formation evaluation data requirements increased drilling costs and rig time in offset wells
- Poor trajectory control increases wellbore tortuosity and number of drilling days to reach target depth

## SOLUTION

Deployed [Lucida™ advanced rotary steerable service](#) to improve drilling performance and rate of penetration (ROP) with features including:

- Advanced sensors and hydraulic units that provide greater reliability and accurate measurements
- Full inclination and automated azimuthal hold steering modes for reduced dogleg severity
- Faster and less frequent downlinking for increased ROP in challenging formations

## RESULTS

**2.3 days**  
of drilling saved compared to previous lateral

**2,234 m**  
of lateral drilled in 317 hours

**33 fewer**  
downlinks in lateral section

**50%**  
reduction in average number of runs to target depth

## RUN SUMMARY

- HE on JHW72-33 had the second highest ROP, longest run footage, shortest TD days, and fewest LDK counts in lateral section to hold azimuth compared to the offset wells in the same layer.
- JHW60-32 had the highest ROP in the same layer.
- Compared to 72-13, 72-33 with HE saved 2.3 drilling days, and 33 DLK counts in lateral section
- Average DLK counts to hold azimuth in 1840m lateral section is 43, correlates to 52 DLK counts in 2235m lateral meterage.

