TAQA

THRUSTER

SUCCESS STORY

SINGLE BIT RUN IN 12.25" SECTION WITH MOTORIZED RSS BHA

West Australia, Perth Basin

48
DRILLING HOURS SAVED

2.9k
METERS DRILLED IN ONE RUN

1
DRILLING BIT SAVED

The Thruster technology transformed what would typically be a high-risk drilling operation into a controlled, efficient process. By simultaneously addressing weight transfer challenges and actively managing harmful shock and vibration, the Thruster significantly improved drilling performance while protecting valuable downhole tools.

THE CHALLENGE

Drilling though the highly interbedded formations of the Perth Basin comes with a lot difficulties, especially the ability of extending the life of the bit so it can make it to TD in a single run. After assisting the customer in mitigating drilling dysfunctions in the Yarragadee formation drilled in the surface section, the 12 1/4" was the next challenge. The operator was having difficulties maintaining consistent parameters in order to complete the section in a single run.

THE SOLUTION

After analyzing previous offset wells, TAQA recommended adding the 8" Thruster with a medium stiff spring configuration to the motorized RSS BHA.

THE RESULT

The section was successfully completed in a single run with a total of 2,900m drilled. The bit grade was a 1-1, which was something new for the operator. Adding the Thruster to the BHA reduced overall dysfunctions which allowed for an efficient WOB transfer and overall parameter consistency until TD.

BHA

- 12.25in PDC Bit
- RSS
- Motor
- MWD
- Stabilizer
- NMDC
- **8.00" Thruster**

Bit after the run