



FLEXB2D[®] TECHNOLOGY

ACHIEVE CONFIGURABLE AND CONSISTENT BIT AND BHA ENGAGEMENT

Staging drilling set points after tagging bottom is often inconsistent and can cause drilling dysfunction. H&P has transformed this common multi-step task into an automated and configurable process with FlexB2D[®] technology.

FlexB2D technology performs automated zeroing of the weight on bit (WOB) and differential pressure set points and helps ensure proper contact with the formation. This allows for configurable and consistent bit engagement, reducing bit and BHA torsional and lateral vibrations.

- Reduce torsional and lateral vibration
- Reduce bit and BHA damage
- Cut unplanned trips
- Decrease transition time from connection to drilling
- Automated zeroing ensure accuracy and consistency
- Automated staging to 9 operator defined drilling setpoints ensure consistent execution

Repeatable Results Enable Optimal Outcomes

Reduces Risk

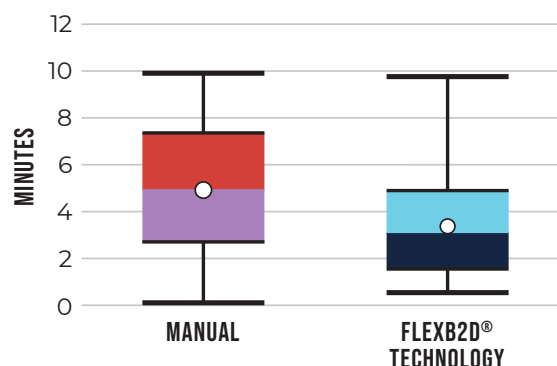
- Lowers risk of damaging downhole tools by reengaging the bit in a controlled and repeatable manner

Lowers Total Cost of Operations

- Less costly bit and BHA issues
- Improved consistency drives lower cost per foot

Accelerates Well Programs

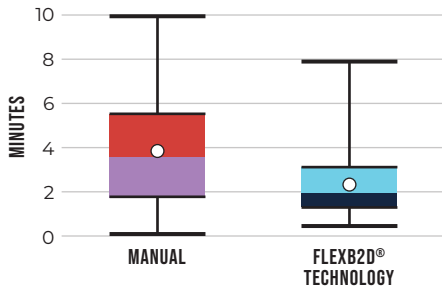
- Lower rotary to on-bottom time averages contribute to time savings in overall cycle time



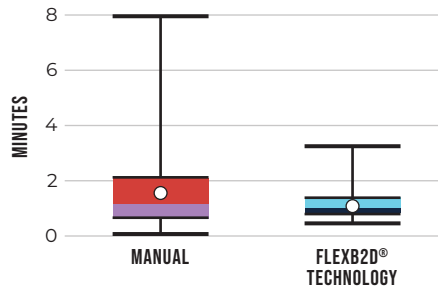
Compare the difference between Manual and FlexB2D[®] technology in both average back to drilling time (rotation to on-bottom drilling) and standard deviation. Automating the multi-step task not only shortens the amount of time it takes, it also reduces variation among all occurrences.

FLEXB2D® TECHNOLOGY PERFORMANCE IMPROVEMENTS ACROSS ALL DISTRICTS

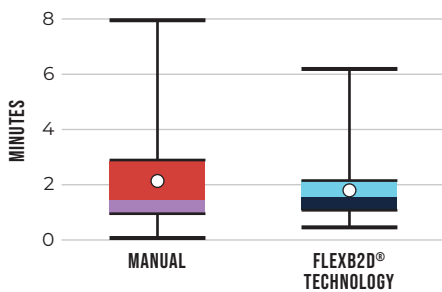
WEST TEXAS – DELAWARE BASIN



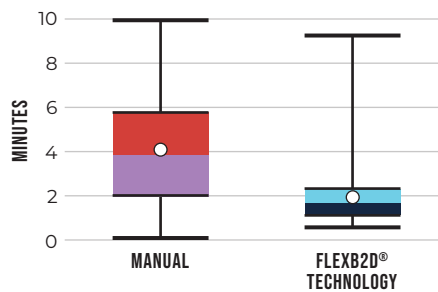
NORTH DAKOTA – BAKKEN SHALE



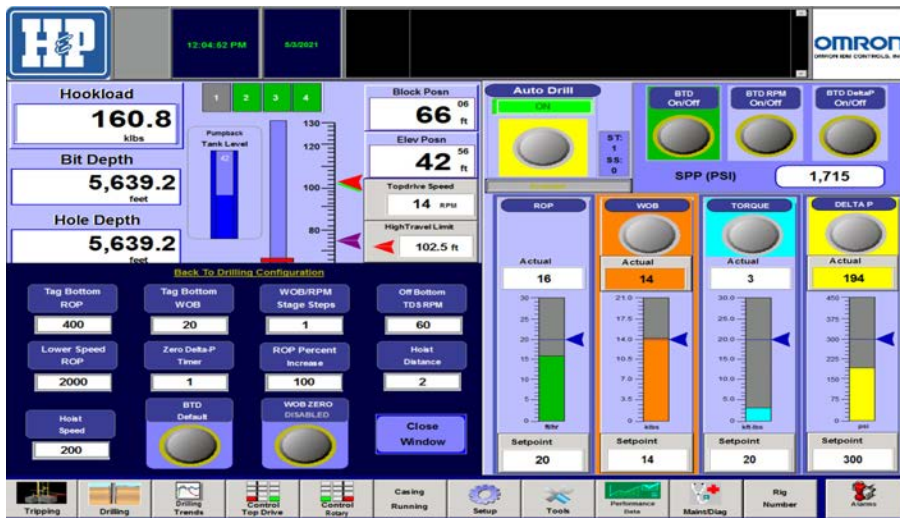
SOUTH TEXAS – EAGLE FORD SHALE



MIDCONTINENT – MERAMEC SHALE



ANALYZING AND MEASURING PERFORMANCE EFFICIENCIES WITH FLEXB2D® TECHNOLOGY



*Bit Engagement/
Disengagement Optimization*

CONTACT US

For more information on how FlexB2D® technology can help you achieve better drilling outcomes, contact an H&P sales representative today or contact us through our website at helmerichpayne.com/contact.