

STABILDRILL

————— CASE STUDY —————

Smoothbore

ECCENTRIC REAMER

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IMPROVED WELLBORE QUALITY AND INCREASED EFFICIENCY IN MISSISSIPPI LIME SAVES \$87,000

Stabil Drill's Smoothbore™ Eccentric Reamer reduces tripping time and reactive torque, providing a smoother wellbore for seamless casing operations.

Challenges:

- Increase wellbore quality
- Reduce casing time
- Increase efficiency
- Decrease operations cost

Solution:

- Helical blade design to match operating conditions
- Stabil Drill Smoothbore™ Eccentric Reamer

Results:

- Created a smooth wellbore
- Successfully reamed to TD with minimal torque
- Saved **37 hours** of combined dedicated tripping time and liner/casing setting
- Lowered costs by **\$87,000**

Overview

Our client was using a conventional motor BHA in a deviated well in the Mississippi Lime formation with a depth of 12,778 feet. Because of the many twists and turns in the wellbore, the client needed an efficient solution that would improve the drift diameter and provide smoother wellbore geometry. While previous wells drilled in that same area had used dedicated reaming runs to achieve this, the process significantly increases the amount of time it takes to run liner or set casing.

Approach

In order to significantly increase the wellbore quality while cutting time and costs, the client adopted the Stabil Drill Smoothbore™ Eccentric Reamer to ream while drilling. The helical blade of the Smoothbore™ is designed to progressively engage into the formation, delivering a full cut with every turn. This enables the bottom reamer to improve the drift diameter while the top section dynamically stabilizes the tool to ensure the reamer is properly balanced while drilling. The use of a balanced reamer with a helical blade not only created a smooth wellbore geometry, but it significantly lowered reactive torque throughout the operation.

Results

In the end, the Stabil Drill Smoothbore™ Eccentric Reamer increased the overall drilling efficiency by completely removing the need for a dedicated reamer run. This saved a combined 37 hours of dedicated tripping time and liner/casing setting, lowering costs by \$87,000.

