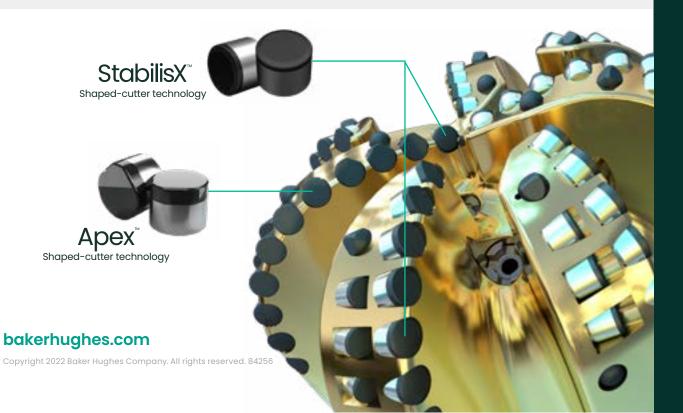
Apex, StabilisX shaped cutters help operator save time and costs in deepwater drilling

CHALLENGES

- Complicated deepwater build section through clays and sandstones where it was difficult to achieve desired build rates without applying excessive steering forces
- Tough, interbedded carbonate stringers
- Excessive vibrations and stick-slip encountered in offset wells

SOLUTION

- Advanced simulation modeling to identify optimal bit/shaped-cutter combination for precise steering control and superior bit stability
- 12-1/4-in. <u>Dynamus™ extended-life PDC bit</u>
- Apex[™] shaped-cutter technology
- StabilisX[™] shaped-cutter technology
- AutoTrak[™] rotary steerable drilling system



RESULTS

85% reduction in stick-slip

30% increase in ROP

\$688K USD estimated savings vs offset

