Integrated Solution Delivers Flawless Execution

Single-Run Hole Enlargement Enables First Drilling of Carbonate Zone in Racemosa HPHT Field

Objectives

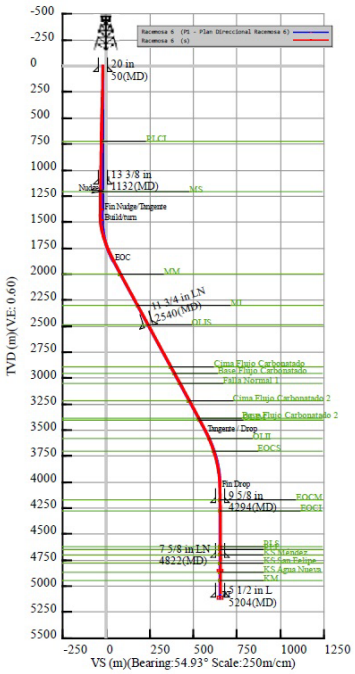
- Drill and enlarge the 10 5/8- × 12 1/4-in section in a single continuous run while maintaining well integrity.
- Enlarge the hole reliably through carbonate flow zones with a history of erratic torque, circulation losses, and rotary stoppages.
- Avoid premature tool damage and eliminate unplanned trips to the surface.
- Maintain continuous wellbore quality across multiple lithologies and through a geological fault.
- Keep the well on the planned trajectory within tight tolerances and reach the casing point safely.
- Isolate the known high-pressure zone and protect long-term well continuity.

Our Approach

- Deployed a bottomhole assembly (BHA) with a fully integrated directional drilling and formation evaluation solution combining the Magnus® rotary steerable system (RSS), RipTide® ball-drop drilling reamer, and suite of MWD sensors and systems.
- Configured the BHA to drill and enlarge the wellbore in one run while sustaining stable directional control in a complex environment.
- Used real-time downhole measurements to support accurate well placement and early detection of formation changes.
- Proactively managed transitions across carbonates, shales, bentonitic intervals, and a geological fault to reduce shock, vibration, and trajectory deviation risk.
- Maintained continuous drilling performance through torque fluctuations and circulation-loss-prone intervals without unplanned interruptions.
- Protected hole quality and well integrity all the way to the planned casing point.

Value to Customer

- Successfully drilled and enlarged in the 10 5/8- × 12 1/4-in section while maintaining precise wellbore placement, finishing the section with only 4.1 ft (1.25 m) deviation from the planned trajectory.
- For the first time in the priority field, two carbonate bodies were drilled and enlarged in a single continuous run where usually drilled a not enlarged 12 1/4–in diameter, ensuring full operational continuity and eliminating the need for unplanned trips.
- A total of 5,675 ft (1,730 m) were drilled and enlarged through abrasive and interbedded formations, achieving minimal cutter wear despite the hostile conditions.
- The enlarged hole quality allowed 9 7/8-in casing to be run to total depth without issues, confirming effective hole enlargement and wellbore integrity.
- All operations were completed in 316 total hours, including 211 circulating hours, delivering improved drilling efficiency and reduced operational risk compared to previous field performance.



The well profile, followed successfully by the Magnus RSS, building to a measured depth of 17,073 ft (5,204 m).

LOCATION
Mexico

WELL TYPE
Development, producer, directional

FORMATION
Cretaceous

PRODUCTS/SERVICES

- Magnus RSS
- RipTide ball-drop drilling reamer
- MFR™ multifrequency resistivity sensor
- HAGR™ high-temperature azimuthal gamma ray sensor
- BAP™ bore and annular pressure sensor
- IDS integrated directional sonde
- HEL™ hostile-environment-logging measurement-while-drilling system

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