Central Stinger Element Achieves ROP Record in Brazilian Presalt Layer

Bit with center conical element drills 234 m at ROP of 15 m/h while applying WOB of 50 lbf, offshore Brazil

The SHARC PDC bit with Stinger element drilled 234 m at 15 m/h. The bit applied a WOB of 50 lbf until achieving section TD. After being pulled out of hole, the cutters exhibited low wear, showing that it could have been drilled for much longer.

**Background**
An operator sought to increase ROP while drilling through a presalt layer of the deepwater Campos basin that consists of carbonate, shale, and volcanic rock with an unconfined compressive strength (UCS) of 10,000 to 25,000 psi.

**Technologies**
- **SHARC** high-abrasion-resistance PDC drill bit
- **Stinger** conical diamond element
- **IDEAS** integrated drillbit design platform
- **PowerDrive** rotary steerable systems

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**CAMPOS BASIN**

**OFFSHORE BRAZIL**

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