

## CAMPOS BASIN

OFFSHORE BRAZIL

<b>Formation</b>	Paramoa
<b>Lithology</b>	Carbonate, shale, and volcanic rock
<b>UCS</b>	10,000–25,000 psi

## 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.

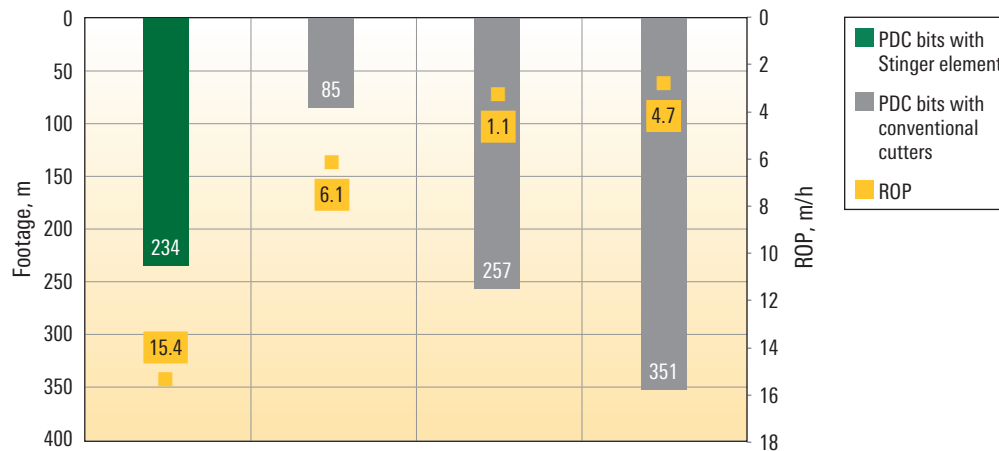
## Technologies

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

A Schlumberger Company

## 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.*