

Set For Life cementing solutions ensure the integrity of challenging HPHT offshore wells

CHALLENGES

- HPHT conditions with pressures up to 13,500psi and temperatures reaching 200°C BHST
- Over 40% CO₂ content was shown in the target gas zone
- Offshore wells at 110m water depth with >5000MD and up to 50° deviation with negative pressure test to 4400psi
- Top to bottom temperature difference of 155°C, creating risk of flash set and excessive retardation.

SOLUTION

- [XtremeSet™](#) / [DuraSet™](#) / [PermaSet™](#) cement slurry systems were selected to:
 - Overcome the HPHT challenges
 - Withstand high CO₂ corrosion environment
 - Improve durability during pressure and thermal cycles
- In combination with [CemMaster™](#), Baker Hughes provided an engineered, tailored cementing system
- Long-term zonal isolation under high induced wellbore stress conditions

RESULTS

100% zonal isolation

Cement bond log data and pressure testing, demonstrated optimal zonal isolation

Zero NPT

flawless execution under HTHP/High CO₂ environment

“Safety is the ultimate efficiency, and the Set for life cement system is the best friend for well integrity.”

– Operations Manager, Customer Operator

