

High performance Gravel Pack System accelerated production across three wells in HPHT deepwater environment

CHALLENGES

Our customer had difficulty maintaining open hole integrity and precise tool positioning during gravel pack operations in a harsh deepwater environment:

- Water depth: 6,539 ft
- High Pressure/High Temperature conditions: 21,200 psi and 336 °F

The customer wanted to achieve 100% gravel pack efficiency, minimize operating time, and eliminate fluid losses using a fully qualified system.

SOLUTION

The **SC-XP™ Gravel Pack System** was selected for its ability to offer faster conveyance rates and a higher production rating than existing sand control systems for extreme environments.

It is rated for up to 400°F (204°C), 15,000 psi (103.4 MPa), and can handle a proppant volume of 11.5 million lbm (680,400 kg) at a rate of 60 bbl/min (0.16 m³/s) while maintaining casing integrity.

Extensive onshore testing was conducted including bonded seal qualification, seal assembly validation, custom setting tool development, and a full system integration test.

RESULTS

- Completed lower completion installation flawlessly in 4 days
- Pumped 16,000 lbs of proppant below XO per well, achieving high gravel pack efficiency
- Delivered three consecutive wells, enabling production within 3 months at rates up to 75,000 bpd
- Collaborated across product lines to execute operations seamlessly

