Benefits
- Saved time and money with one-trip completion
- Australia’s first successful horizontal openhole gravel-pack completion
- Successful implementation of both the upper and lower completions

Background and challenges
- Implement numerous horizontal openhole gravel packs in a deep subsea water environment
- Challenging sand and shale heterogeneities
- Field resides in 2,625-ft average of water
- Deliver necessary sand control while ensuring minimal formation damage

Baker Hughes solution and results
- Installed packer equipment, pumped gravel for successful packing operations, and released running tools
- Performed Australia’s deepest offshore subsea completion, as well as Australia’s first successful openhole gravel-pack completion
- Completed nine-well development project

Openhole Gravel Pack Provided Subsea Sand Control
Formation damage was minimized

The customer identified an opportunity to implement numerous horizontal openhole gravel packs in Australia’s deepest offshore subsea development with challenging sand/shale heterogeneities. Successful implementation of a sand control program is critical to the development of these fields. The gravel pack would provide necessary sand control while ensuring minimal formation damage.

The development wells consisted of a production packer on a 5 1/2-in. tubing string, with capabilities for downhole gauges and vertical lift equipment, landed in a horizontal, openhole, gravel-packed sandface completion.

The one-trip system was capable of sealing into the sandface completion assembly and developing upper completion space-out while running the lower completion to allow for one trip. This included successfully snapping the S-22 seal assembly into the SC-2R™ packer of the lower completion.

The successful project would become Australia’s deepest offshore subsea development, as well as Australia’s first successful openhole gravel-pack completion. The field, in 2,625-ft (800-m) average of water, is a nine-well development project, consisting of five horizontal producers, three water-injection wells, and one gas-injection well.

A range of tools services were provided including:
- Upper and lower completion equipment and accessories
- Project planning
- Onshore technical and operational support
- Onshore preparation services
- End-of-well reviews

www.bakerhughes.com

Disclaimer of Liability: This information is provided for general information purposes only and is believed to be accurate as of the date hereof; however, Baker Hughes Incorporated and its affiliates do not make any warranties or representations of any kind regarding the information and disclaim all express and implied warranties or representations to the fullest extent permitted by law, including those of merchantability, fitness for a particular purpose or use, title, non-infringement, accuracy, correctness or completeness of the information provided herein. All information is furnished “as is” and without any licenses to distribute. The user agrees to assume all liabilities related to the use of or reliance on such information. BAKER HUGHES INCORPORATED AND ITS AFFILIATES SHALL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, PUNITIVE, EXEMPLARY OR CONSEQUENTIAL DAMAGES FROM ANY CAUSE WHATSOEVER INCLUDING BUT NOT LIMITED TO ITS NEGLIGENCE.