



# SIKA AT WORK

## WELL INTEGRITY SERVICES, BSP CAMPAIGN, BRUNEI

OFFSHORE & MARINE CONSTRUCTION  
CONVENTIONAL ENERGY

BUILDING TRUST



# WELL INTEGRITY SERVICES, BSP CAMPAIGN, BRUNEI



## PROJECT DESCRIPTION

In 2012, Brunei Shell Petroleum (BSP) conducted a series of offshore inspections that revealed widespread corrosion across a large number of wells. These findings posed a risk to the structural performance and service life of the affected conductors. To address this, BSP commissioned Sika to deliver a long-term well integrity solution that would strengthen the conductors and extend asset life without interrupting production.

Sika was tasked with delivering a large-scale annulus grouting campaign across multiple wells. The offshore grouting campaign was conducted annually from 2012 to 2020 as part of a long-term well integrity initiative.

Project name: Well Integrity Services, BSP Campaign  
Client: Brunei Shell Petroleum  
Location: Offshore Brunei  
Year: 2012-2020  
Application: Well integrity  
Product: SikaGrout®-9110

## PROJECT REQUIREMENTS

The primary objective was to halt the progression of corrosion and restore structural capacity by filling the annular space between the outer casing and conductor with a high-performance, durable material. This method would allow for continued operation of the wells while providing permanent reinforcement.

Given the offshore environment, all work had to be executed from the platform's main deck with no reliance on a workboat alongside the structure. The solution also needed to accommodate varying site conditions across multiple jackets.

Any product name or reference reflects the Sika product name at the time of creation of this document and may differ from the product name or reference during past events.

Our most current General Sales Conditions shall apply. Please consult the most current local Product Data Sheet prior to any use.



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## SIKA SOLUTIONS

As part of the initial phase of the campaign launched in 2012, Sika supplied approximately 500 metric tons of ultra-high performance cementitious (UHPC) grout. From 2014 to 2020, an additional 600+ metric tons of SikaGrout®-9110 UHPC were delivered. SikaGrout®-9110 was selected for its excellent bond strength and mechanical properties. The grout was used to fill the annulus at the upper section of the conductor, where oxygen exposure is greatest and corrosion is most aggressive.

The cleaning and grouting equipment was lifted onto the main deck and deployed from there, enabling annular cleaning and grout injection without diver support or external vessel assistance. To ensure long-term corrosion prevention, special attention was paid to surface preparation and bonding. The grout's high tensile strength and adhesive properties ensured strong mechanical interlock with the steel surfaces of the casing and conductor.

The entire campaign was delivered by Sika's offshore engineering and field crew, with all operations carried out while the wells remained live.

## CUSTOMER BENEFITS

Sika's cold-work grouting methodology allowed BSP to restore structural integrity without the need for shutdowns or major interventions. By targeting the corrosion-prone annular zone and using high-performance grout, BSP was able to significantly improve load transfer between the casing and conductor.

This not only arrested the corrosion process but also enhanced the long-term stability of the wells, delivering a cost-effective, minimally disruptive alternative to traditional conductor replacement or reinforcement methods.