SIKA AT WORK

MM-17 WELL CONDUCTOR REPAIR, OFFSHORE BRUNEI

OFFSHORE & MARINE CONSTRUCTION
CONVENTIONAL ENERGY

BUILDING TRUST

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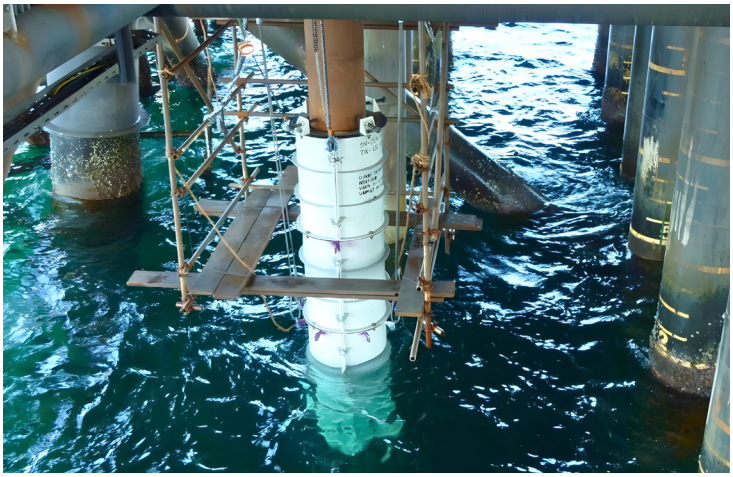

PROJECT DESCRIPTION

In October 2012, Brunei Shell Petroleum engaged Sika to carry out well integrity services on the MM-17 well conductor, located on the MMDP-01 platform offshore Brunei. The 24-inch conductor, located in the splash zone, exhibited external corrosion and required structural reinforcement and protection.

The repair involved installation of an external clamp followed by infill grouting using high-performance materials, all conducted without diver intervention. The work formed part of BSP's broader strategy to ensure long-term integrity across its offshore well stock.

Project name:	MM-17 Well Conductor Repair BSP
Client:	Brunei Shell Petroleum
Location:	MMDP-01 Platform, Offshore Brunei
Year:	2012
Application:	Well integrity
Product:	Ultra-High Performance Grout

PROJECT REQUIREMENTS

The conductor had experienced localized corrosion in the splash zone, raising concerns about ongoing exposure and structural capacity. A fast, diver-free repair solution was needed to encapsulate and strengthen the conductor in-situ without the need for hot work or extended downtime.

Sika was tasked with designing, supplying, and installing a custom clamp system and delivering a high-strength, quick-curing grout suitable for offshore repair conditions.

SIKA SOLUTIONS

Sika supplied 3 metric tons of ultra-high-performance cementitious grout, specially selected for its rapid strength gain and excellent bonding properties in splash zone environments. A bespoke external clamp was designed by Sika's engineering team, incorporating a tailored opening and closing mechanism that allowed installation without diver support.

Scaffolding was erected from the platform to access the repair area, enabling clamp installation at approximately 2 meters below mean sea level. Prior to grouting, marine growth was removed to ensure clean bonding surfaces. The annular space between the clamp and conductor was then grouted from 2 meters below to 2 meters above MSL to fully encapsulate the corrosion zone.

The grout achieved approximately 50% of its long-term strength within 24 hours, allowing the clamp to be safely removed the next day and minimizing offshore duration.

CUSTOMER BENEFITS

The use of a fast-setting UHPC material and a purpose-designed clamp enabled BSP to restore structural integrity in a short timeframe without shutting down operations or deploying divers. The cold-work solution offered a reliable and cost-effective alternative to traditional conductor replacement or welded repairs.

Sika's engineered approach ensured a safe, durable outcome while reducing offshore complexity and equipment footprint, demonstrating the value of UHPC-based conductor repair strategies for asset life extension.

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