

# Premium Liner System Secures Integrity With Zero NPT in Deviated Offshore Well



Using proprietary swage technology, the SwageSet packer creates a V0-rated seal that eliminates fluid and gas leakage.

## Objectives

- Run and install a liner hanger system to hang off 3,507 ft (1,069 m) of liner in an offshore, high-angle well.
- Secure the wellbore by cementing the liner and forming a gas-tight packer seal at the liner top.

## Our Approach

- Weatherford recommended a liner system optimized for the well conditions and modeled to ensure setting of the packer at a high angle.
- The long liner string was run to a measured depth of 14,140 ft (4,300 m) on a mixed tubular landing string.
- The Weatherford service team set the WPHR premium hydraulic-rotating liner hanger and released the running tool on the first attempt using a mechanical ball seat (MBS).
- The liner was cemented and the subsurface-release, small-bore top plug was bumped.
- The SwageSet packer was set at an 80° inclination and tested.
- The entire job, from running the liner string to setting the liner-top packer, was completed in one trip without any performance issues or safety incidents.

## Value to Client

- The premium liner system enabled the client to hang and cement the 3,507-ft (1,069-m) liner string in one trip without incurring nonproductive time (NPT).
- The SwageSet packer secured the well with a V0-rated, gas-tight seal at the liner top.

## LOCATION

Malaysia

## WELL TYPE

Offshore, high angle

## HOLE SIZE

9.25 in.

## CASING SIZE AND TYPE

9.625-in., 53.5-lb/ft P-110 VAM TOP®

## LINER SIZE AND TYPE

7.625-in., 29.7-lb/ft VAM® FJL™ flush-joint liner

## LINER LENGTH

3,507 ft (1,069 m)

## LINER-HANGER SYSTEM SIZE

7.625 × 9.625 in.

## INCLINATION

80°

## DEPTH

- 14,140 ft (4,300 m) MD
- 7,792 ft (2,375 m) TVD

## PRODUCTS/SERVICES

- SwageSet PBR
- SwageSet high-performance packer
- WPHR premium hydraulic-rotating liner hanger
- Mechanical ball seats
- Subsurface-release, small-bore top plug

VAM, VAM TOP, and FJL are trademarks of Vallourec Oil and Gas France.

