

AXIOM® Liner-Hanger System Reduces Operational Costs by 25% in Offshore Oil Field

Objectives

- Install a liner-hanger system in a highly deviated, 9,166-ft (2,794-m) deep offshore well.
- Reduce well construction costs compared to previous jobs in this field.

Our Approach

- Weatherford deployed the AXIOM® series liner-hanger system, a cost-effective option for running liners in mature wells. The AXIOM system, which had not previously been used in Thailand, was chosen for its compatibility with the well type as well as the potential for cost savings.
- Despite encountering several challenges—including tight clearance, high drag, severe dogleg conditions, and parent casing that had been hung 58 ft (18 m) above the planned setting depth—Weatherford installed the liner at 9,127 ft (2,782 m).
- Weatherford performed pressure testing to confirm that the AXIOM system had set, and released and retrieved the running tool.

Value to Client

- By using the AXIOM system instead of an older liner-hanger solution, the client reduced operational costs by 25% without compromising rating or performance.
- After the successful installation of the AXIOM system in a challenging, highly deviated well, the client decided to use AXIOM systems in other wells throughout the field. This change led to further cost savings and efficiencies.



The AXIOM system combines a hydraulic hanger and a weight-set packer in a single body, which eliminates potential leak paths.

LOCATION

Songkhla, Gulf of Thailand

WELL TYPE

Offshore, oil, production

HOLE SIZE AND ANGLE

8.73 in., 70°

PARENT CASING TYPE AND SIZE

9-5/8 in., 40 lb/ft, N-80

LINER TYPE AND SIZE

7 in., 23 lb/ft, N-80

LINER LENGTH

6,870 ft (2,094 m)

TOTAL DEPTH

9,166 ft (2,794 m)

SETTING DEPTH

9,127 ft (2,782 m)

PRODUCTS/SERVICES

- AXIOM series liner-hanger system
- Float shoe
- Float collar
- Landing collar

