Weatherford®

REAL RESULTS

North Sea No Match for Multilateral/Expandable Sand Screen Combination

Weatherford's *StarBurst* multilateral and *ESS* system provided BP the stability needed for the rough waters of the North Sea.

Objectives

- Install a subsea multilateral junction with an intelligent completion across two separate reservoir intervals to allow commingled production from two zones on either side of a sealing fault. The operator wanted to use proven technologies in this high-profile, hostile-environment well.
- Control costs and operational risks.
- Control sand production.
- Control the production from either lateral.

Results

- Weatherford's proven StarBurst™ Level 4 multilateral system was successfully deployed and perforated from a semi-submersible.
- A 1,824-ft (556-m), 5 1/2-in. ESS® expandable sand screen system was installed in the main bore.
- A 1,862-ft (567-m), 4 1/2-in. *ESS* system was installed in the lateral—the longest single-trip expansion to date.

Value to Client

- Two reservoir intervals in different fault blocks were commingled at the junction and produced to surface, resulting in an incremental benefit of US$11 million to BP.
- The combination of the *StarBurst* multilateral system and the *ESS* system provided a low-cost, low-risk alternative for accessing lateral deposits.
- Onshore testing of whipstock perforation equipment for the multilateral junction established guaranteed offshore success.

Client
BP

Location
West of Shetlands, North Sea

Well Depth
6,463 ft (1,970 m) MDSS

Main-Bore Casing
9 5/8-in. (244-mm), 53.5-lb/ft L80

Products/Services
- *StarBurst* multilateral system
- *ESS* expandable sand screen system

"The *StarBurst* system was chosen primarily for its simplicity, cost effectiveness and tolerance to debris during construction. The junction was constructed with zero nonproductive time due to the care and attention to detail from everyone involved in both the planning and execution."

—Ken Horne, BP

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