



# Weatherford®

## REAL RESULTS

### DDV® Tool Reduces Time to Trip Drillstring by 3 Days, Saving £400K

#### Objectives

- Enhance safety while tripping drillstring during underbalanced drilling (UBD) operations in a North Sea well with a 68° inclination.
- Reduce nonproductive time by eliminating the need for tripping out the bottomhole assembly (BHA) and snubbing.
- Prevent formation damage by removing the need to kill the well.

#### Results

- Weatherford's DDV tool was set at 6,730 ft (2,051 m) TVD, 12,800 ft (3,901 m) MD, as an integral part of the casing.
- When completed, this operation set three world records for the DDV tool: deepest setting; first offshore deployment; and highest inclination at which the tool was set.

#### Value to Client

- Because the DDV tool is an integral part of the casing, the need to kill the well to trip out of hole was eliminated, reducing the time to trip the drillstring by three days and saving the operator about £400,000 (approximately US\$788,000).
- Use of the DDV tool allowed the operator to maintain the well in an underbalanced state while enhancing safety and preventing formation damage.

Weatherford's DDV tool is a downhole barrier valve with a flapper-type seal mechanism that contains reservoir fluids in the casing, preventing pressure at the surface. This capability increases well productivity by minimizing formation damage, and improves environmental and personal safety by eliminating the need for snubbing. Deployed as part of the casing string, the DDV tool also decreases well costs by reducing tripping time.

**Location**  
North Sea

**Depth**  
6,730 ft (2,051 m) TVD  
12,800 ft (3,901 m) MD

**Well Type**  
Single lateral new well

**Hole Size**  
6 in.

**Hole Inclination**  
68°

#### Products/Services

- Controlled Pressure Drilling® services
- DDV downhole deployment valve

