



# Weatherford®

## REAL RESULTS

### Weatherford Thru-Tubing Service Allows Continuous Production During Fishing Operations, Saves Rig Time and Well Productivity

#### Objectives

- Safely fish a memory-logging tool bottomhole assembly (BHA) and 9,176 ft (2,797 m) of 1 1/2-in. coiled tubing from an offshore producer well without incident.
- Recover all fish without killing the well.

#### Results

- Weatherford's thru-tubing deployment system provided dual barriers during recovery operations and fishing tools were configured to allow maximum pulling capacity from the 1 1/2-in. QT 1000 fishing string.
- The entire coiled tubing string and the production-logging tools were recovered.
- Well production continued uninterrupted during the fishing operations.

#### Value to Client

- The recovery of the coiled tubing and BHA was completed in just five runs and all fish were recovered safely without killing the well, saving the client US\$18 million, the cost of a gas producer.
- No safety or environmental incidents were recorded.

*This fishing exercise was a last-ditch effort to save this \$18 million gas well. The careful planning, expertise, management, superior equipment, and onshore management has brought success that was beyond KNOC's expectations.*

— Dr. Se Jin Park  
General Director, KNOC, Vietnam



Pictured clockwise from top left: Weatherford's dual-barrier deployment system, coiled tubing rig-up with deployment system, 1 1/2-in. coiled tubing after being snipped by cutting overshot.

#### Client

Korean National Oil Company (KNOC)

#### Location

Offshore Vietnam

#### Well Type

Gas and condensate producer

#### Tubing Size

4 1/2-in. tubing with 7-in., 26-lb liner

#### Well Pressure

2,500 psi (172 bar) flowing at 25 MSCFM

#### Shut-in Tubing Pressure

4,100 psi (282 bar)

#### Well Temperature

300°F (149°C)

#### Total Depth

14,704 ft (4,482 m)

#### Products/Services

Thru-tubing fishing and milling services