



# Weatherford®

## REAL RESULTS

### Shallow-Angle QuickCut™ Casing Exit System Successfully Installed from Semi-Submersible in the UKCS

#### Objectives

- Create a casing exit in a single trip.
- Create a long window with the shallow-angle whipstock assembly.
- Mill sufficient rathole requirements.
- Avoid having to recover 9 5/8-in. casing from open hole as a result of previous well problems.
- Avoid section-milling of 13 3/8-in. casing from a semi-submersible.

#### Results

- The casing exit was achieved and the formation was milled in a single trip, without having to pull the 9 5/8-in. casing or section-mill the 13 3/8-in. casing.
- A long milling ramp was created with a full-gauge window.
- Milling out of hole was accomplished with good gauge tolerance.
- The operation was completed safely and successfully.

#### Value to Client

- The client was able to exit the 13 3/8-in. casing with the new shallow-angle whipstock system in a single trip, saving time and costs.
- Complex workover operations from a semi-submersible in winter were avoided, reducing well cost and risk to personnel and equipment.
- Milling efficiency and gauge protection were increased and rig time and trips to condition window were reduced for greater efficiency and savings.



#### Client

Nexen Petroleum UK Limited

#### Location

UKCS North Sea

#### Field

Telford Subsea Development

#### Rig

Transocean John Shaw Semi-Sub

#### Casing

13-3/8 in., 72 lb/ft

#### Window

- 28 ft (8.5 m) with 2° concave
- 4.3 dogleg severity calculated

#### Milling Assembly

12-1/4 in.

#### Whipstock Setting Angle

<1° inclination at 2,892 ft (881 m)

#### Number of Trips

1

#### Products/Services

Shallow-angle *QuickCut* casing exit system