

## NORWAY

OFFSHORE NORTH SEA

<b>Lithology</b>	Chalk
<b>Well section</b>	11,467 ft [3,495 m]
<b>Scale removed</b>	7.5 metric tons

## Background

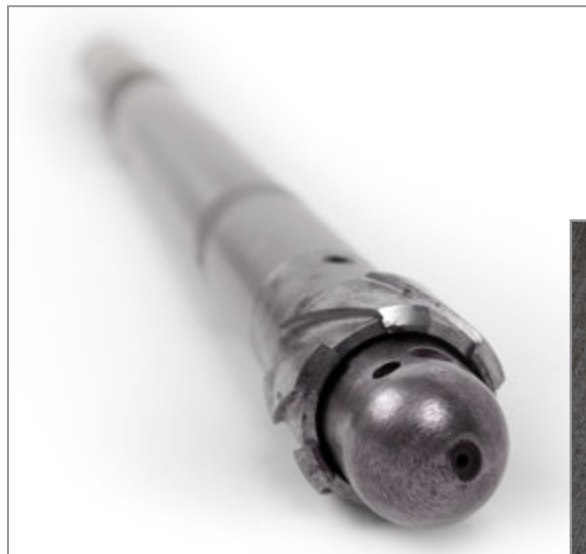
An operator needed to reverse declining production in an offshore well that suffered from heavy barium-sulfate ( $\text{BaSO}_4$ ) scaling. The Jet Blaster\* engineered high-pressure jetting service and Neyfor TTT\* thru-tubing turbodrill were used in combination to efficiently clean out scale. A multicycle circulating valve (MCCV) was used to preserve the life of downhole tools and to enable higher pump rates for enhanced transport to surface. More than 7.5 metric tons of  $\text{BaSO}_4$  was removed from an 11,467-ft section of well and recovered at the surface. The scale was successfully ground into fine particles, which helped ease flow to surface.

## Technologies

- Jet Blaster engineered high-pressure jetting service
- Neyfor TTT thru-tubing turbodrill

## High-Efficiency Scale Removal in North Sea Well

More than 7 metric tons of scale removed using Jet Blaster service and Neyfor TTT thru-tubing turbodrill



*The Jet Blaster service uses carbide nozzles with swirl eliminators to increase hydraulic efficiency, and the drift ring controls ROP for positive, one-pass cleaning.*

