

## Preparing for more water injection



18.12.2012 ConocoPhillips has carried out water injection on the Ekofisk field for more than 25 years. The capacity will be expanded considerably in 2013 when a new subsea installation - Ekofisk 2/4 V B – is put into service. The installation will be operated from Tananger.

When completed, the installation will have a total capacity of up to 100,000 barrels of water per day from a total of eight subsea wells. The water will be supplied from the water injection platform Eldfisk 2/7 E via a new pipeline.

### Pressure support

The main purpose of water injection is to provide pressure support and thus help increase the production of hydrocarbons from the Cretaceous reservoir. Since 1987 water injection in the Ekofisk reservoir, and later also at Eldfisk, has made a valuable contribution to a considerable increase in the recovery rate in the fields. The recovery rate on the Ekofisk field has increased from the original 17 per cent to 52 percent. This is in part due to water injection.

### Intelligent wells

All the eight wells on Ekofisk 2/4 V B will be so-called intelligent wells. This means that water may at all times be injected into chosen zones in the reservoir to achieve the best possible effect. These wells will also be the first "intelligent wells" that are automated and can be controlled from an operator station on land.

### Important step

The new subsea installation is expected to begin water injection from the first well at the beginning of 2013. A little under two years will then have lapsed since the Ekofisk 2/4 VA was completed as a similar subsea installation on the Ekofisk field. This is also controlled from the onshore operations centre (pictured). When the installation was put into service in the spring of 2010, NPD's director-general Bente Nyland stated that water injection is an important step towards a continued high production level on the shelf.

A total of around 550,000 barrels per day are injected into the Ekofisk and Eldfisk fields. The treated seawater is pumped under high pressure down into the ground from wells at the platforms at Ekofisk 2/4 K and Eldfisk 2/7 A and 2/7 B and from the Ekofisk 2/4 V A subsea installation.