



# Weatherford®

## REAL RESULTS

### Jet Frac™ Straddle System Stimulates 15 Zones in One Run, Yielding 3,000 BOPD More Than Anticipated

#### Objectives

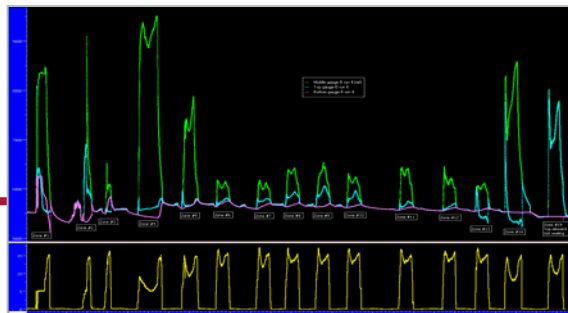
- Selectively stimulate 16 perforated intervals of a newly drilled well, using 2 7/8-in. coiled tubing. This method, used for the first time on a new well, was founded on the experience of re-stimulations performed with the *Jet Frac* system in 2003.
- In this very heterogeneous reservoir pay, perform the best possible treatment for all zones through zonal isolation and definitive knowledge about placement.
- Use the data acquired through selective treatment to identify variations in zonal permeability and formation pressures along the wellbore.
- Achieve higher production rates per zone.

#### Results

- Zones 1 to 15 were stimulated in one run in just 26 hr. The 16<sup>th</sup> zone was stimulated with a dedicated run, as planned.
- Approximately 8,000 Bbl of fluid was pumped at 17.1 BPM, including 2,930 Bbl of 28% hydrochloric acid.

#### Value to Client

- Production is approximately 3,000 BOPD greater than anticipated from the flank of the field.
- The *Jet Frac* system allows more perforations per interval, which reduces friction and increases stimulation efficiency and production rates. This multiple-zone stimulation solution provided the operator with a new tool for more efficient extraction of more production from troublesome portions/layers in the field.



Weatherford's *Jet Frac* straddle system requires no pipe movement for setting. This multi-set, thru-tubing monobore system enabled the stimulation of 15 zones in one run for ConocoPhillips. The system provides precise zonal isolation and efficient selective stimulation and fracturing, perforation/sand screen testing, tubing testing, and water shut-off treatments.

#### Client

ConocoPhillips

#### Location

Ekofisk field, offshore Norway

#### Well Type

Oil producer

#### Hole Size and Angle

8-1/2 in., 90°

#### Casing

6 5/8-in., 66-lb/ft liner

#### Setting Depth

15,777 to 12,500 ft (4,809 to 3,810 m)

#### Products/Services

- Intervention services
- *Jet Frac* sand fracturing system