



Case Study 1:

PulseEight™ wireless intelligent completion technology regains P/T data from clients wells in Norway

The PulseEight product range from Tendeka uses unique ‘pressure pulse telemetry’ to regain pressure & temperature from clients wells.

Well Data

- Location:** Offshore Norway
- Well Type:** Gas & Gas Condensate producer
- Installation Date:** June 2011
- Depth:** 2500m
- Tubing Size:** 7”
- Temperature:** 100°C
- FBHP:** 900psi **FWHP:** 450psi



A Scandinavian operator had experienced downhole pressure and temperature gauge failure in their well, losing vital data required to plan for tertiary recover techniques in this mature and heavily depleted field.

The Challenge

Low well energy with little pressure drop across the wellhead choke coupled with condensate slugging are potentially challenging for pressure pulse telemetry.

Tendeka Solution

Tendeka restored measurements using the PulseEight Wireless PT Gauge. No surface acquisition equipment or data relay system was required as the existing wellhead pressure sensor was used to read the signal.

Project Results

The gauge transmitted data for 226 days. On retrieval, the data was compared to a memory gauge deployed in the assembly, confirming the veracity of the transmitted and recorded Wireless Gauge data.

- Successful installation, hanging off the WDG on an IDSP Packer
- Successful downhole data acquisition
- Successful wireless transmission to surface

