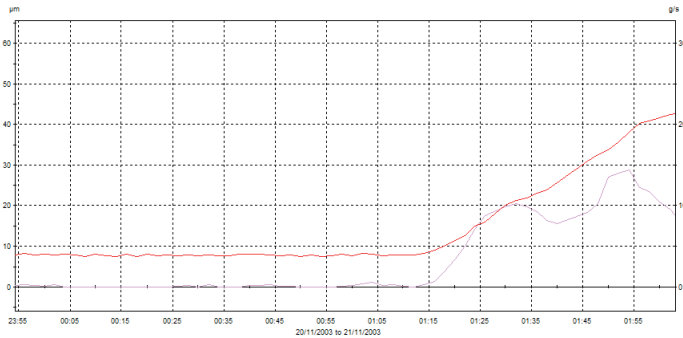


SANDLOG WIRELESS MONITORING

CHALLENGE

A major North Sea Operator required sand erosion monitoring due to expected sand produced in the line with a high risk of erosion to pipelines.



Example of data showing increased sand production leads to metal loss

SOLUTION

A new wireless transmitter design (see image below) which is utilised to accurately record metal loss and sand rate was recommended by Stork and Emerson as a cost effective alternative solution to help extend equipment life and increase production from reserves. The innovative wireless approach was ideal due to limited space available in cable trays, which is typical on mature assets.

The new wireless device provided flexible, cost-effective and highly accurate online monitoring of sand erosion from the field. The system enabled additional temperature and pressure

sensors to be added to the wireless mesh network for a more complete monitoring package as well as proactively preparing the asset for further development of innovative wireless technologies in the future.

CLIENT BENEFITS

The collaboration with Emerson marked the first installation of the SandLog wireless monitors in the UKCS. The system delivered a range of significant benefits for the Client:

- Data accessible from onshore for data reporting
- Continual monitoring real time to provide instant and accurate data used to optimise process and risk-based inspections
- More detailed data recovered for rigorous analysis
- Reduced manpower as reports downloaded online
- Reduced installation costs compared to wired systems
- Enable monitoring in previously inaccessible locations

PROJECT FAST-FACTS

Project : Sand erosion monitoring
Client : Major North Sea operator
Location : North Sea installation
Service : Wireless sand erosion monitoring
Date : 2015



SandLog wireless monitor