

# Case Study: Automated gas-lift monitoring features reduces analysis time

Event detection used to detect open and closed mandrels during gas-lift injection

The ongoing process of optimising gas-lift wells can reduce operating cost, increase NPV and maximise recovery from an oilfield. DTS can be a valuable tool in continuous monitoring of gas-lift valve operation, but traditionally require manual analysis to be undertaken.



## The Challenge

A major South East Asia operator with a large well stock equipped with DTS and multiple gas lift mandrels was using analysis techniques within Tendeka’s FloQuest software to establish the gas-lift mandrel status at different points over time. To improve the efficiency and therefore the frequency of the analysis, an automated analysis process was required.

## Tendeka Solution

The event detection functionality within FloQuest was applied to gas-lift. The algorithm uses multiple methods to generate an output based on a weighted evaluation of the results. New graphics were generated to enable graphic visualisation of the result.

## Project Results

The functionality was evaluated against several datasets comparing manual with automated results and found to have a high level of accuracy and repeatability. The operator can shorten the time taken to complete gas-lift optimisation thereby improving well performance.

Sep 28 10.13.33 to Oct 1, 23.05.40 (78 traces)

