



# Real Time H<sub>2</sub>S Monitoring of an HPHT well during a staged DST Campaign



## Key Facts:

The global exploration for oil and gas includes a growing number of Sour Fields. H<sub>2</sub>S is a colourless gas that is highly corrosive and flammable, one breath can be lethal at concentrations as low as 100ppm.

**Location:** United Arab Emirates

**The Client:** Middle East Operator

## Challenge / Summary:

**Reduced Risk** - The challenge was to reduce the risk to personnel from both potentially harmful gas exposure and utilising breathing apparatus in ambient temperatures above 40°C.

**Dynamic Data** – Data was to be available in realtime to the client onsite offshore and onshore to allow dynamic decision making.

## Solution:

SMS mobilised and installed their **Real-time Inline H<sub>2</sub>S Monitoring System**, via existing sampling points, with the system setup as a closed loop, minimising potentially lethal gas emissions. Up to **30% H<sub>2</sub>S** concentration can be measured without the need for personnel to be tasked with taking samples.

## Results:

SMS successfully conducted the first-ever topside H<sub>2</sub>S real-time monitoring during a multiple DST programme in harsh conditions in UAE, monitoring H<sub>2</sub>S levels of up to 6%, without the need for personnel to take manual samples onsite. Throughout all phases of the operation, continuous H<sub>2</sub>S readings of the gas stream were taken and the results were made available onsite, remotely and via the well test acquisition system.

## Value to Client:

### Reduced Risk to Personnel

- Reduced risk from potential exposure to harmful gases
- Reduced risk to personnel using breathing apparatus in ambient temperatures above 40°C

### Reduced Manpower Costs

Reduced requirement for personnel to be tasked with taking samples

### Realtime data

Increased speed at which data is available, allowing dynamic decision making

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