



# 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 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.

Upto 50% **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 upto 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 gas stream were taken and the results 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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