



Innovative Technology Increases H₂S Scavenging Efficiency



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CASE STUDY: Application of MaxScav™ IHS-8000 in a Mexican Oil Field Operation

SITUATION

An oil and gas producer in Mexico was having difficulties maintaining low H₂S levels in the environment of the tank battery. The field produces 0.18 mmpcd of gas containing ratios > 20,000 ppm of H₂S along with their oil production with readings of 500 ppm of H₂S in the tank battery in the environment which created a hazard to the operators.

The excessive H₂S in the gas resulted in nonconformance with ASEA PEMEX regulations and posed a significant health and safety hazards for the employees working in that area.

Quimicorp and FlowChem determined that the properties of MAXSCAV IHS-8000 with its fast reaction time would be capable of decreasing the H₂S level to zero. In collaboration with the customer, scavenger injection point was moved to the production meter manifold.

Production Data	
Parameters	Value
H ₂ S Concentration – Gas Phase	23,000 ppm
H ₂ S Concentration – Environment in Control Room	68 ppm
Gas Production	5,000 M ³ /day
Temperature	28°C
Oil & Water Production rate	250 BBPD
Oil Production	115BBPD

PERFORMANCE EXCEEDS EXPECTATION

MAXSCAV® IHS-8000 decreased the H₂S concentration in the tank battery environment from 500 ppm to zero. This drastic decrease allowed met the ASEA PEMEX regulation requirement and eliminated health hazards for employees that may potentially be exposed to the gas.

BOTTOM LINE:

The customer must to reduce the concentration of H₂S in the gas to meet regulation requirements and decrease health and safety hazards.

PERFORMANCE OBSERVATION:

MAXSCAV IHS-8000 reduced the concentration of H₂S in the environment, ensuring effective treatment and helping the customer meet regulatory requirements and decrease health hazards.

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