CASE STUDY

Saudi Arabia: SAFE-SCAV HS greatly reduce H₂S treatment costs on Coil Tubing Drilling project

“SAFE-SCAV* HS provides an efficient low cost solution for the safe treatment of H₂S, which will open the door for drilling more sour gas wells safely and economically.”

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Well Information
Location/Well Type ............................................................................................................................................................Onshore Saudi Arabia/CTD UBD
Interval drilled- Lat 1 ........................................................................................................ Total 1,980 ft - 5 ¾ in. hole drilled from 12,002 ft to 13,982 ft (3,658 - 4,262 m)
Interval drilled- Lat 2 ........................................................................................................ Total 2,143 ft - 5 ¾ in. hole drilled from 12,050 ft to 14,193 ft (3,673 - 4,545 m)

The Situation
The operator required an efficient, low cost solution for treating the high concentrations of hydrogen sulfide (H₂S) expected on the onshore well.

The Solution
M-I SWACO recommended the operator employ SAFE-SCAV HS H₂S, a liquid, brine soluble scavenger, which remains soluble after reacting with H₂S. Based on an organic chemical rather than the typical zinc- or iron-base compound, it provides a solids-free solution to H₂S intrusion. SAFE-SCAV HS chemically “ties up” the H₂S in an irreversible reaction.

The Results
The recorded volume of H₂S was more than 4.5% (45,000 ppm). SAFE-SCAV HS was injected directly in the waste water stream to maintain a consistent average sulfides reading below 100 ppm before being discharged. At no time during the field trial were the H₂S alarms activated at the waste pit. The consistent target readings after treatment were achieved by accurate measurement of sulfides and quick reaction time of SAFE-SCAV HS.

The Details

Questions? We’ll be glad to answer them.
If you’d like to know more about SAFE-SCAV HS and how it’s performing for our other customers, please call the M-I SWACO office nearest you.