CASE STUDY: UPSTREAM CHEMICALS, GABON

FullSweet HSS1003 multiphase H2S scavenger cost-effectively lowered H_2S concentration in Gabon well, increasing production by 26 percent

CHALLENGES

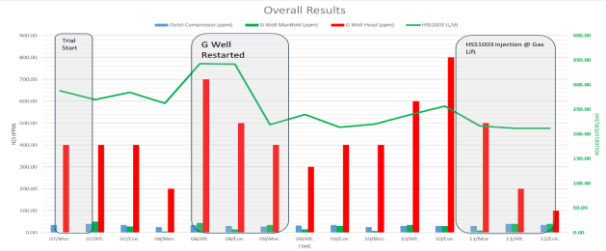
- Intermittent flow/slugs with pressure at the well flowline inlet fluctuating from 10-12 bar down to 5 bar with very low differential pressure
- Fluctuations were leading to inconsistent chemical injection
- Increased H_2S levels at the gas compressors were contributing to iron sulfide (FeS) scale requiring more chemicals to dissolve
- Competitor products had failed to meet operator's key performance indicator of 50ppm to maintain safe operating conditions

SOLUTION

- FullSweet HSS1003 multiphase H_2S scavenger was used to treat the well without increasing the overall H_2S concentration at the compressors:
  - Can be applied on surface or via gas lift (multiphase flow lines, wet gas, gas lift)
  - Safe operative conditions for gas compressors with KPI of <50ppm H_2S concentration
  - Fast-dissolving with lower corrosion rates, fouling, and FeS formation
  - Wide-range application successful in a range of dosages
  - No negative effect on fluid separation

RESULTS

- Cost-effectively lowered H_2S concentration from 800ppm to 50ppm while reducing treatment volumes by more than 25%
- Increased production by more than 350 BOPD ($7.6M USD per year at $60/bbl oil)
- Reduced risk to personnel and equipment by maintaining less than 50 ppm in production system, and lowered CO_2 emissions by reducing logistics and manpower requirements



FullSweet HSS1003 cost-effectively lowered H2S-associated corrosion with no adverse effects on gas compressors.

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