

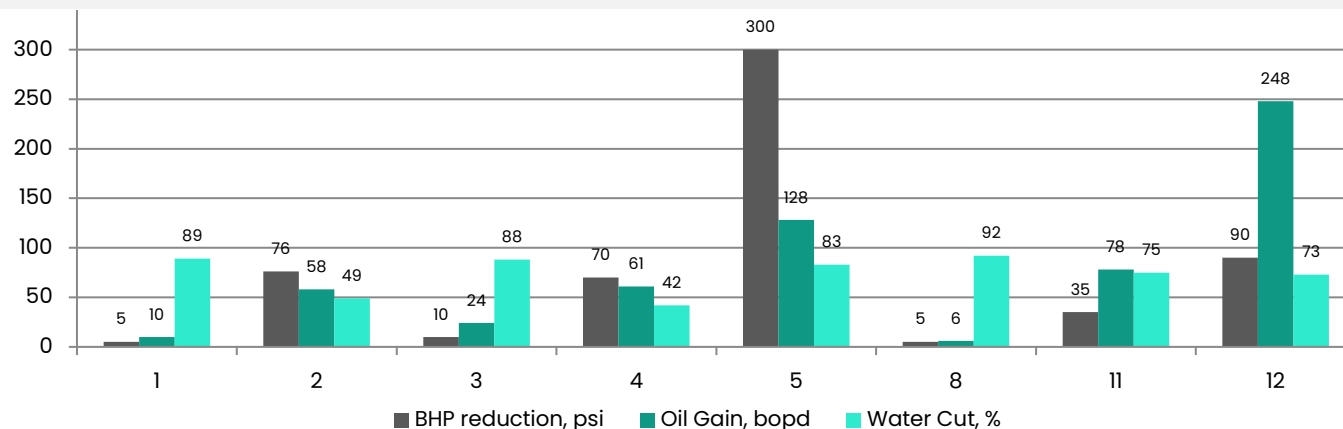
TRETOLITE demulsifier reduces downhole viscosity, increases production

CHALLENGES

- An operator faced significant production declines as reservoir pressures dropped in their offshore Vietnam field
- This pressure drop necessitated a chemical treatment to reduce fluid viscosity in the production tubing
- Operational challenges related to the application included the need to maintain chemical stability under extreme downhole conditions (120°C, 2,800 psi) and the requirement to apply it through either capillary injection or gas lift

SOLUTION

- Baker Hughes evaluated multiple options to address the viscosity-reduction performance and identified a [TRETOLITE™ demulsifier](#) (TRETOLITE DMO32112) as the optimum solution
- Laboratory testing indicated viscosity could be reduced by as much as 66 (based on emulsion severity)
- Stability testing confirmed suitability for both capillary or gas-lift injection
- Based on testing, the Baker Hughes team recommended field dosages ranging from 50 to 300 ppm based on specific well conditions



12 wells' responses to DMO injection 1) BHP reduction (psi), 2) oil gain BOPD, and 3) water-cut %

RESULTS

Successful
field trials that validated lab performance in both capillary and gas lift applications

5-300 BHP
improvement in downhole flow pressure

6-248 barrel
improvement in daily oil production

Long-term solution
extended to additional wells