

Winterized FORSA paraffin inhibitor cuts flow- line pressures, adding \$140k/year to customer's bottom line

CHALLENGES

The customer was experiencing low flowline pressure and significant downtime that necessitated multiple cleanouts and hot oil jobs. Complicating factors included:

- No available pigging facilities on site so temporary pigging facilities had to be set up for the frequent production shut-ins which required for pigging/ coil tubing clean outs
- Additional hot oil jobs were often needed to keep lines free and flowing
- Incumbent dispersant (paraffin dispersant) was somewhat effective at reducing wax, but pigging was still required
- Low pressure lines were experiencing pressure increases due to wax buildup

SOLUTION

- Baker Hughes recommended replacing the incumbent paraffin dispersant with a winterized [FORSA™](#) (PAO3200) paraffin inhibitor which had been tested to confirm compatibility with both the production fluid and the incumbent demulsifier
- The treatment was deployed at ~1500 ppm down the annulus
- Post-FORSA deployment:
 - Line pressure has stabilized at lower levels
 - There has been no need for coil tubing, pigging, or hot oil jobs



Wax coupon (2 month check) before implementing FORSA PAO3200 showed significant buildup.



Wax coupon (2-month check) after implementing FORSA PAO3200 was significantly cleaner.

RESULTS

≈ \$30k/yr

in incremental production due to reduced production downtime

≈ \$110k/yr

savings via reduced pigging/hot-oiling costs

Zero

unplanned downtime or line-pressure increases

Eliminated

growing need for pigging facilities