TruCorr 9807

CORROSION TREATMENT & TEST RESULTS

Production well treatment



SI A	SI B	9807	Untreated
1 week	1 week	52 weeks	35 weeks

Chemistry effects vs. corrosion

Corrosion inhibition effects of **TruCorr 9807** chemistry: the first two coupons were immersed in **fresh tap water** for 1 week while the last two were immersed in 180,000 ppm TDS brine for extended periods (note dose rate was 250 ppm). The corrosion rate on the **TruCorr 9807** treated coupon was < 1.2 mpy.

The coupon comparison records **52 weeks** of exposure for the TruCorr 9807-treated brine sample and **35 weeks** for the untreated brine sample. The different water types and exposure periods should be considered when reviewing the images.

A separate seven-day coiled-tubing evaluation used **500 ppm TruCorr 9807** in fully oxygenated, recirculating **2% KCl**. Its test conditions and photographs are shown below.

Coiled tubing corrosion treatment

Untreated



Coil pieces in 2% KCl untreated

With inhibitor



Coil pieces with inhibitor

Test fluids



Fluids after test "un" and treated

Test conditions

- Test was run for 7 days at 500 ppm TruCorr 9807 dose rate
- Fully oxygenated conditions (water return jetting in 3" above surface), 3 GPM recirculation rate, temperature range from 90 - 120 F
- 2% KCl solution
- Product has since been utilized for Coiled tubing operations for 5 years

Additional applications

- The corrosion inhibition effect of the **TruCorr 9807** shown above has been applied to CaCl2 and NaCl brine based drilling fluids without the use of Oxygen scavenger and still reduced corrosion rates dramatically.
- This chemistry has been successfully incorporated into formulations that contain traditional, proven effective corrosion inhibitors such as Imidazoline / Quat and Coco Quat to protect vs. the effects of CO2 and H2S in production treating.
- The chemistry has been applied in pipelines and transfer lines to reduce corrosion for several years.

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