

TRUE SUCCESSES

NEW CORROSION PROGRAM SAVES CUSTOMER 30% IN TREATING COSTS

Challenge

A major Canadian operator approached PureChem Services to complete a full field review with a focus on further field optimization. The production rates varied throughout the field, but the acid gas concentrations were $\text{CO}_2 = 2.08\%$ (47.3 kPa pp CO_2) and $\text{H}_2\text{S} = 3.78\%$ (26.0 kPa pp H_2S).

Solution

PureChem technical specialists performed a line by line internal corrosion assessment including water analysis, bacteria analysis, and Fe/Mn analysis. Based on the information gathered in the assessments, seven corrosion inhibitors were identified as potential candidates. Each of the products were tested using HPHT Autoclaves and RCE at 20°C, emulsion tendencies and product compatibilities were considered before selecting CC-1502 as the ideal solution.

Benefit

PureChem's CC-1502 corrosion inhibitor provided a 91.45% protection rate while running at lower treat rates and \$0.60 per liter less expensive than the incumbent product. The combination of a lower treat rate and reduced product cost resulted in the operator saving 30% in their corrosion treating costs. Coupons have been utilized to monitor the corrosion program and have shown no concerning upward trends in corrosion rates.

Formation

Montney, Belly River,
and Cadomin

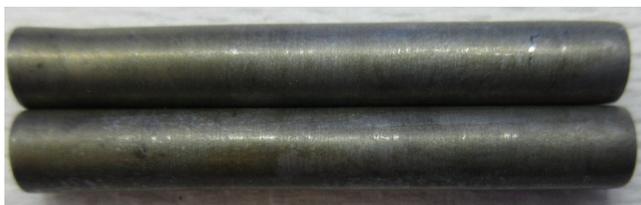
Form of Lift

Free Flowing, Gas Lift,
Plunger Lift, Pumpjack

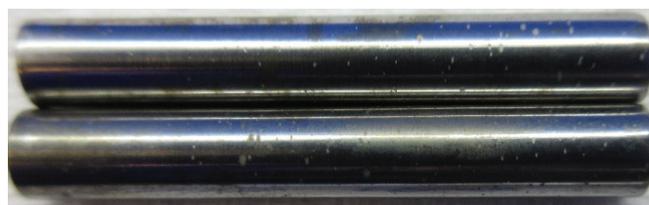
PureChem Product

CC-1502

Untreated electrodes versus electrodes treated with CC-1502



Untreated electrodes



Electrodes treated with CC-1502