

Zerust® Protects AST with Inhibitor Flood Injection

Zerust® OIL & GAS
WORLDWIDE CORROSION SOLUTIONS



CLIENT APPLICATION

Inhibitor Flood Injection | August 2016

Project Summary:

The tank is a 67-ft diameter waxy crude oil storage tank located in a hot and dry climate. The tank has a foundation design that consists of a concrete fill between the old and new tank bottom plates. This type of foundation was developed by the client and is a common practice. To provide tank bottom plate external corrosion mitigation, Zerion® FVS volatile corrosion inhibitor was mixed with water and injected into the area between the two tank bottoms.

Goals and Objectives:

- Installation of injection ports
- Installation of liquid corrosion inhibitor slurry
- Installation of ER probes and Weight Loss Coupons

Product(s) Used:

Zerion® FVS Dry Powder

Zerust® Zerion® FVS corrosion inhibitor was to be placed around the tank chime using the “Chime Ring Dry” inhibitor delivery system (IDS).

Specifications:

Vessel(s) Diameter: 240'

Outcome:

- The installation of a Zerust IDS solution was a success.
- As required by the customer, four coupons were placed around the tank chime within custom made coupon ports.
- It is recommended that after eight months, one of the coupons be pulled for analysis. With each additional four months, another coupon should be pulled for analysis, following the same protocols. The last coupon should be pulled after 20 months from the date of installation.

Benefits:

- Tank SSB IDS systems can be replenished while the tank is in operation and ensures uniform distribution across tank bottom.
- VCIs offer non-permanent corrosion protection at the molecular level that is safe and eco-friendly.
- Corrosion protection for voids and interstices that are impossible to protect with other methods.
- Maintenance time is significantly reduced.



Client Facility



Installation of UT Scan Ports and Coupon Ports



Installation of UT Scan Ports on Problematic Areas of Tank Chime



Preparation of the Tank Chime



Installation of the “Chime Ring Dry” IDS PVS Pipes



Application of Viscotaq EZ Wrap



Complete Installation of Coupons and Inhibitor Sleeves



Finished Installation of Zerust IDS with Inhibitor Sleeves

For more information, please contact marketinginfo@zerust-oilgas.com