

# Zerust® Underside Injection for Aboveground Storage Tank

**Zerust®** OIL & GAS  
WORLDWIDE CORROSION SOLUTIONS



## CLIENT APPLICATION *Underside Injection | March 2018*

### Project Summary:

- Zerust Oil & Gas, in collaboration with a contractor, was awarded a project encompassing the injection of a corrosion inhibiting solution beneath one (1) tank located in a tropical climate.
- The targeted tank, so forth recognized as Tank 1, was constructed atop a double-bottom with compacted sand fill foundation with a surrounding concrete ring wall. The double-bottom was welded completely around the circumference.
- Zerust Oil & Gas was to provide installation services during the injection of a corrosion inhibitor slurry.
- In addition to providing installation services during the injection process, the scope of work for this project included the installation of "Electrical Resistance" (ER) probes for monitoring the inhibitor replenishment timeline as necessary.

### Goals and Objectives:

- Assembly and installation of ports for corrosion inhibitor slurry injection
- Injection of corrosion inhibitor slurry
- Assembly and installation of ports for the installation of ER probe monitoring units
- Installation of ER probe monitoring units

### Product(s) Used:

- Zerion® FVS-B15, Bulk Powder

### Conclusions/Recommendations:

- The injection of the corrosion inhibitor slurry was completed in a successful and timely manner. A high concentration of the inhibitor slurry was maintained throughout the application to address SSB corrosion problems. This high concentration of corrosion inhibitor will provide adequate corrosion protection as it diffuses throughout the targeted vessel's underlying foundation.
- This type of foundation design is ideal for corrosion inhibitor injection, as there is no need to prepare any chime seal and the exposure to leaks is eliminated by having the welded chime.
- At this time, it is recommended that readings be recorded from the installed ER probe on a monthly basis and sent to Zerust Oil & Gas for analysis and determination of the need for further corrosion inhibitor application.



1. PUMPING SYSTEM



2. INJECTION PORT SETUP



3. CHIME PLATE  
CONDITION



4. INSTALLING ER PROBE



5. ER PROBE ENCLOSURE A



6. ER PROBE ENCLOSURE B