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## **CORROSO-BAC™**

### CORROSION CONTROL

#### General Description

**Corroso-Bac™** is a proprietary combination of natural, facultative anaerobic bacteria used in oil well operations to inhibit corrosion and sulfate scale formation through its metabolic by-products, including alcohols, ketones, organic acids, and biosurfactants. Like other products, **Corroso-Bac** also has the ability to disperse, dissolve, and prevent paraffin deposition.

Application of **Corroso-Bac** protects the formation face, as well as down-hole and surface equipment, from corrosion by sequestration, filming, and removing solids that cause under-deposit corrosion. The by-products of metabolism, the ketones and organic acids, are polarizing agents that can inhibit the corrosion process. This is accomplished by neutralizing the cathodic portion of the metal, breaking the "circuit" of the corrosion cell. This is similar to the process by which chemical inhibitors work.

#### Product Specifications

Color	Light pink to tan
pH	6.5-8
Weight per gallon	8.51 lbs.
Specific gravity	1.02
Freeze point	32° F
Viscosity	1.30 cps - 60°F
Odor	Mild organic

#### Application

**Corroso-Bac** comes as a ready-to-use liquid formulation and can be

introduced to the well by batch or squeeze treatments. Batch treatments usually involve the product being applied to the annulus and flushed with clean lease or KCL water. For optimum performance, it is recommended that the well be shut in for one to three days after treatment; however, this is not mandatory.

Treatment begins with an inoculation to establish the bacterial population of the well system. Thereafter, at predetermined intervals, maintenance doses of **Corroso-Bac** can be added to maintain the colony of bacteria.

Squeeze treatment applications are a function of fluid production, porosity, perforation interval, and desired depth of penetration. The well is shut in for three to seven days.

Tank bottoms can also be treated with **Corroso-Bac**, without the use of heat. This process makes tank bottom removal a safer and more environmentally-sound procedure. Treatments consist of a calculated volume of **Corroso-Bac** and fresh water. After circulation, the combination is allowed to sit until the tank can be pumped down.

#### Handling and Safety

*Corroso-Bac meets EPA requirements for release into the environment. Special clothing or equipment are not required for handling Corroso-Bac. Routine sanitary hygiene practices should be observed.\**

\*MSDS Available upon request.