



**PRODUCTION ENHANCEMENT SYSTEMS, LLC**

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## **BEADLEJUICE ACID STICK**

ACID STICKS are water-soluble sticks that release acid down-hole in water injection wells to remove carbonate scale and rust deposits. ACID STICKS are a combination of acid, surfactant, dispersing agent, iron sequester, and inhibitor in solid form.

### **PRODUCT USES:**

ACID STICKS are primarily used in water injection wells to remove carbonate scale, rust deposits, and lower injection pressures. Injection pressure drops of several hundred PSI have been observed following ACID STICK treatments. Some wells have gone on vacuum and taken water by gravity. Success has also been experienced in some oil wells, gas wells, and water supply wells.

ACID STICKS are dropped directly into the well or introduced to the system through the water supply tank. Dropping the stick directly into a well is best because not as much dilution will occur. In a well with tubing obstructions or small valve opening, ACID STICKS may be successfully used by first dissolving the sticks in fresh water and then pumping or pouring the solution into the well.

### **PRODUCT ADVANTAGES:**

ACID STICKS are very economical (as compared to conventional scale removal operations) and can eliminate or delay the need for HCL acid treatments. Continuous treatment with ACID STICKS (especially after a conventional acid or clean-out job) can extend the time period between future scale removal operations. ACID STICKS are less corrosive to steel pipe than conventional liquid HCL acid jobs because most of the acid generated by the stick is released down hole. Conventional liquid HCL acid reacts with the steel, rust, and scale inside the pipe all the way down the well. ACID STICKS are corrosion inhibited and mildly corrosive to steel (like inhibited amidosulfonic acids).

ACID STICKS are safe to handle and easy to use by less experienced field personnel; however, like all acids, contact with eyes or skin should be avoided. ACID STICKS are safe to use in cement lined tubing and plastic lined pipe. Continued treatments over long periods of time through a by-pass feeder into cement lined pipe should be avoided.

### **TREATMENT DETERMINATION & PROCEDURE:**

The number of ACID STICKS to be used is based on the number of feet of perforated interval or open hole and severity of scale build-up. Field tests indicate the best results were achieved by using a large initial slug treatment (1.8 to 5.4 lbs of stick per foot of interval) followed by smaller periodic treatments (about half the initial slug amount).

### **DISCLAIMER OF LIABILITY:**

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