



**PRODUCTION ENHANCEMENT SYSTEMS, LLC**

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## **BEADLEJUICE ACID CAP – WST STICKS**

ACID CAP STICKS are 100% active water-soluble tube sticks that release acid down-hole in producing and water injection wells to remove carbonate scale and rust deposits. ACID CAP STICKS are water soluble tubes filled with 100% active solid acid material.

### **PRODUCT USES & ADVANTAGES:**

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

ACID CAP STICKS, after removing the plastic wrapper, 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 openings, ACID CAP STICKS may be successfully used by first dissolving the sticks in fresh water and then pumping or pouring the solution into the well.

ACID CAP 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 CAP STICKS (especially after a conventional acid or clean-out job) can extend the time period between future scale removal operations. ACID CAP 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 CAP 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. The plastic protective wrapper when removed before dropping stick can be used as a protective glove while handling the stick. ACID CAP STICKS are safe to use in cement lined tubing and plastic line pipe. Continued treatments over long periods of time through a by-pass feeder into cement lined pipe should be avoided.

### **TREATMENT DETERMINATION & PROCEDURE FOR WATER REMOVAL:**

The number of ACID CAP 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 large initial slug treatment (1.8 to 5.4 lbs of stick per foot of interval) followed by smaller periodic treatments (about half of the initial slug amount).

### **DISCLAIMER OF LIABILITY:**

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