



**PRODUCTION ENHANCEMENT SYSTEMS, LLC**

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### **SI-16 SOAP STICK**

SI-16 SOAP STICKS are water-soluble sticks containing a combination of surfactants and friction reducer. Natural gas bubbling through the water-column, surfactants, and friction reducer produces foam which can help remove water from watered-up gas wells.

#### **PRODUCT USES:**

SI-16 SOAP STICKS are primarily used to remove water from gas wells and increase gas production. The foaming action decreases the hydrostatic back-pressure which increases gas production that further enhances the foaming action until the well unloads.

SI-16 SOAP STICKS can be used to remove fluid from gas-condensate wells and flowing oil wells. For gas-condensate wells with more than 75% condensate it is recommended to use an OIL FOAM STICK.

SI-16 SOAP STICKS can be used to increase the swabbing efficiency and life of swab cups. SI-16 SOAP STICKS contain a very slick friction reducer. The extremely slick coating along with the foaming action increases efficiency and life of the swab cups and allows the well to flow easier. The perforations are often cleaned as a result of the surfactants and swabbing action.

SI-16 SOAP STICKS are used in water injection wells in combination with ACID STICK to help reduce injection pressures. Surfactants contained in SI-16 SOAP STICKS can help remove oil coating on scale. This helps the ACID STICKS to react with the exposed scale.

#### **PRODUCT ADVANTAGES:**

SI-16 SOAP STICKS are an economical way to remove water from gas wells without using expensive well service operations such as swabbing, jetting with coiled tubing, or installing artificial lift and siphon strings.

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

The number of SI-16 SOAP STICKS to be used is based on the volume of water above the perforations. Field tests indicate that the best results were achieved by using a larger initial slug treatment of ½ to 1 percent by weight of SI-16 SOAP STICKS to water above the perforations. A treatment of ½ to 1 percent by weight would require 1.75 to 3.50 lb of stick per BBL of water.

#### **DISCLAIMER OF LIABILITY:**

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