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## **DRILL BIT STICK**

DRILL BIT STICKS are condensate-dispersible water-soluble sticks containing a combination of surfactants and friction reducer. DRILL BIT STICKS will perform in the presence of salt and fresh water systems.

### **PRODUCT USES**

DRILL BIT STICKS are primarily recommended for use to increase the drilling efficiency and life of the drill bits. The slick coating and foaming action increases the efficiency of the drilling process by preventing the clays from sticking and balling up on the drill bit while drilling operations are going on. This same slick coating and foaming action will also help prevent the jets on the drill bit from plugging, therefore optimizing mud and cutting returns to the surface and improving drill bit penetration into the ground formations.

DRILL BIT STICKS can also be used to increase the swabbing efficiency and life of the swab cups. The slick coating and foaming action increases efficiency of the swab and extends the life of swab cups. The perforations are often cleaned as a result of the detergent and swabbing action.

DRILL BIT STICKS can be used to remove fluid from gas-condensate wells and flowing oil wells, however Select Industries has a broad range of sticks specifically designed for this procedure. For gas-condensate wells with more than 75% condensate, it is recommended to use Select Industries OIL FOAM STICKS™.

### **PRODUCT ADVANTAGES**

DRILL BIT STICKS are an economical way of improving the efficiency of drilling operations by keeping the drill bit clean of debris and improving mud and drill cutting returns to the surface. Drill bit penetration into the ground formations will also increase due to bit and jets remaining clean of debris.

### **TREATMENT DETERMINATION & PROCEDURE FOR DRILLING OPERATIONS**

The number of DRILL BIT STICKS to be used varies from one drilling operations to the other. The weight of mud, drilling depth and water weight can also affect the number of sticks to be dropped. Field tests indicated the best results were achieved under normal drilling operations in the chart listed below:

## DRILL BIT STICKS

DRILL BIT STICK SIZES	STICKS PER JOINT DRILL STEM ADDED TO STRING
SENIOR (1 5/8" x 18")	1 to 2 Sticks per joint drill stem added
JUNIOR (1 3/8" x 16")	2 to 3 Sticks per joint drill stem added
JUNIOR (1 1/4" x 15")	2 to 4 Sticks per joint drill stem added
THRIFTY (1" x 15")	3 to 6 Sticks per joint drill stem added
MIDGET (5/8" x 15")	8 to 16 Sticks per joint drill stem added

**NOTE:** This amount recommended is based on past field drilling tests and operating under normal drilling operations and procedures. To determine the optimum amount of sticks required for periodic treatments you may choose to gradually increase or decrease the number of sticks until the most economical treatment point is reached.

**THE MOST COMMON PROCEDURE** is to drop the specified number of sticks to be dropped from the chart each time an additional joint of drill stem is added to the drill string in the drilling operation. As the fluid moves down the hole the surfactants and friction reducer will dissolve and penetrate the drilling fluids and slick up the metal surfaces. It is important to add the desired volume of sticks each time a new joint of drill stem is added to the string to maintain the slick film on the metal surfaces.

## **PRODUCT PACKAGING**

SENIOR (1 5/8")	Case/Toolbox (24 sticks)	Pail – N/A	Chest (42 sticks)
JUNIOR (1 3/8")	Case/Toolbox (36 sticks)	Pail (42 sticks)	Chest (72 sticks)
JUNIOR (1 1/4")	Case/Toolbox (36 sticks)	Pail (45 sticks)	Chest (72 sticks)
THRIFTY (1")	Case/Toolbox (49 sticks)	Pail (72 sticks)	Chest (98 sticks)
MIDGET (5/8")	Case/Toolbox (108 sticks)	Pail (155 sticks)	Chest (216 sticks)

**CAUTION:** As with all industrial chemicals, contact with eyes or skin should be avoided. Wash thoroughly with water. Sticks should be stored in a cool dry place. Always remove stick from plastic bag or cardboard tube before using. Bag or tube can be used as a glove to avoid contact with hands.

## **DISCLAIMER OF LIABILITY**

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