

# WONDER DRILL BIT STICKS

## LOW FOAMER FOR WATER & CONDENSATE

Wonder Drill Bit Sticks are condensate-dispersible water-soluble stick containing a combination of surfactants and friction reducers. This stick will perform in the presence of salt and fresh water systems.

Wonder 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.

Wonder 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.

Wonder 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.



## MIXING & HANDLING

Most common procedure is to drop the specified number of sticks 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.

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 sleeve before using.

## TREATMENT DETERMINATION

Field tests indicate that the following recommended usage achieves best results under normal drilling operations.

**Stick size:** 1 ¼ X 15

**Recommended usage:** 3 to 4 sticks per joint drill stem added

**Note:** Number of sticks required may vary from one drilling operation to another. Mud weight, drilling depth and water weight can also affect usage. To determine optimum treatment, gradually increase or decrease the number of sticks until reaching the most economical treatment point.