



# Driller's Operational Do's and Don'ts

## Use and Care Practices for PR Polymers Rod Wiper Disc and Deflector Sheet Systems

Normal conditions:

### **Rotary, Tri-cone Cutter Bits:**

**Do:** Forward feed the TRICONE BIT through the rod wiper disc and deflector sheet with a slight forward rotation (approximately 10 rpm) until the bit has passed through both the rod wiper disc and deflector sheet.

**Don't:** Feed/hoist the TRICONE BIT through the rod wiper disc and deflector sheet using a fast forward rotation. This can result in shortening the life of the polyurethane parts.

Wet/muddy conditions:

### **Rotary, Tri-cone Cutter Bits:**

**Do:** After having drilled in wet/muddy blasthole conditions and the rod wiper disc and deflector sheet have accumulated a muddy build-up, clear the mud from these areas in the following manner:

- Setup over the next hole to be drilled. Before collaring, place the position of the TRICONE BIT into the area between deck bushing and rod wiper housing. This is the area directly below the deck bushing and above the rod wiper assembly.
- Engage bailing air supply.
- Slowly rotate TRICONE BIT with forward rotation (approximately 10 rpm)
- Slowly feed (approximately 3m/min) the forward rotating TRICONE BIT through the rod wiper and deflector sheet, thus utilizing bailing air from the rotating TRICONE BIT for clearing the accumulated mud. Repeat if necessary.
- Resume normal collaring/drilling operations.

### **Don't:**

- Resume drilling without first clearing mud from rod wiper and deflector sheet as directed above. The weight of mud buildup can reduce the efficiency of the deflector sheet.
- Feed/hoist the TRICONE BIT through the rod wiper disc and deflector sheet using a fast forward rotation. This can result in damage to the polyurethane parts.

Normal conditions:

### **Rotary, Claw Bits:**

**Do:** Forward feed the CLAW BIT through the rod wiper disc and deflector sheet with a neutral or slight reverse rotation (Approximately 10 rpm) until bit has passed through both the rod wiper disc and deflector sheet. (use caution when using reverse rotation – watch for loosening of pipe joints).

**Don't:** Feed/hoist CLAW BIT through the rod wiper disc and deflector sheet using forward rotation. This can result in damage to the polyurethane parts.

Wet/muddy conditions:

### **Rotary, Claw Bits:**

**Do:** After having drilled in wet/muddy blasthole conditions, and the rod wiper disc and deflector sheet have accumulated a muddy buildup, clear the mud from these areas in the following manner:

- Setup over the next hole to be drilled. Before collaring, place the position of the CLAW BIT into the area between deck bushing and deflector sheet. This is the area directly below the deck bushing and rod wiper assembly.
- Engage bailing air supply,
- Slowly rotate the CLAW BIT in reverse (approximately 10 rpm) (use caution when using reverse rotation – watch for loosening of pipe joints),
- Slowly feed (approximately 3m/min) the reverse rotating CLAW BIT through the rod wiper and deflector sheet, thus utilizing bailing air from the rotating CLAW BIT for clearing the accumulated mud. Repeat if necessary. (use caution when using reverse rotation – watch for loosening of pipe joints).
- Resume collaring/drilling operations.

**Don't:**

- Resume drilling without first clearing mud from deflector sheet as directed above. The weight of mud buildup reduces the efficiency of the deflector sheet.
- Feed/hoist the CLAW BIT through the deflector sheet using forward rotation. This can result in damage to the polyurethane parts.

**Maintaining/Adjusting for Proper Deflector Sheet Positioning:**

For optimum deflector sheet life, it is important to maintain proper adjustment.

Reference the: [Installation Guide for a replacement Deflector Sheet System](#)

