

Drilling- Re-assemble Core Tube

Facility:	Written By:	Approved By:	Date Created:	Date of Last Revision

Hazards Present:	PPE or Devices Required:	Additional Training Required:
Pinch Points	Hand Protection (Ideally Kevlar)	First Aid with CPR
Lacerations	Steel Toed Boots	
Noise Hazard	Hard Hat	
	Hearing Protection	
	Eye Protection	

Safe Work Procedure:

- 1) After reassembling core spring, attach lifter case with proper core spring onto bottom of core tube, tighten this joint with the correct tube wrenches
- 2) Place the head assembly top end on a step or block to allow balance and align the female ends of the inner tube cap with the male threads of the core tube. These threads should easily screw together clockwise, tighten this joint with the correct tube wrenches
- 3) Using a needle bar pop the locking indicator into the unlocked position, note the resistance it takes, as the locking indicator bushing (sher-lock) may be wearing, and a weak bushing will result in difficulty of noticing when a tube is locked in a core barrel. Replace bushing if necessary
- 4) Inspect head assembly:
 - i) inspect spearhead for wear, most likely to see more wear while drilling HQ than NQ or BQ, if worn, replace
 - ii) inspect Seating Ring, wear will occur on the bottom in a tapered manor that may cause the tube to sit lower in the core barrel than intended and/or cause stuck tubes.
 - iii) Inspect Ears. Inspect for wear, generally the leading edge of the ear will wear if the steel tab is still being used on the locker coupling, without the steel tab being used, wear will be on the thickness of the ear and the length of the locking portion of the ear. Wear will be noticed on the tip side.
 - iv) Inspect the Latch Spring. Ensure that ear retract when the spearhead is pulled, and expand to the locked position when let go.
 - v) Inspect the “valves”. These are the two white, yellow or black Teflon discs located about the inner tube cap. These valves range from hard to medium, to soft. If there is wear, cuts or burs on these to the point that they do not easily fit through a new landing ring, replace these valves as they will lead to stuck tubes and miss-latches.
- 5) Grease the inner tube cap ensuring that all bearing are taking grease. Give the tube a quick wash with rig clean and the tube is ready to go back down the hole on the drillers instructions

If an emergency situation occurs while conducting this task, or there is an equipment malfunction, engage the emergency stop and follow the lock out procedure

REPORT ANY HAZARDOUS SITUATIONS TO YOUR SUPERVISOR

Guidance Documents/Standards: MB Workplace Safety & Health Act & Regulations: Part 2.1 General Duties Part 5 First Aid Part 6 Personal Protective Equipment Part 12 Hearing Conservation	This Safe Work Procedure will be reviewed any time the task, equipment or materials change and at a minimum of every three years
	Reviewed By WSH Committee: Date: