

Mechanical Shift Down Tubing Release Running Procedures

Running Procedure:

The LRI Shift-Down Tubing Release is used when dropping of the gun assembly to the bottom of the well bore is desired. Hole depth and tubing string will determine placement of shifting tool, however a minimum of 10m (32ft.) is recommended.

Make up and run the perforating assembly to the point of the Shift-Down Mechanical Tubing Release.

The Shift-Down Mechanical Tubing Release should be made up independently from the string and tightened only with the pipe wrenches ensuring the wrenches are placed on the bottom half of the tool on the knurl and the tubing upset. (Power tongs should not be used)

Note: Do not apply torque through the Shift-Down Tubing Release when making up tubing onto the tool.

Make up the next pup joint in the assembly. Placing the back up wrench on the knurl on top of the Shift-Down Mechanical Tubing Release tighten the pup joint in with pipe wrenches only. (Again, power tongs should not be used)

To ensure the Shift-Down Tubing Release will hold the weight of the perforating assembly before removing the slips, pick up the string 2 – 3 ft.

Remove slips and continue running assembly in the hole.

Precautions:

To avoid accidental/premature shifting of the guns LRI does not recommend using this tool with a drop bar actuated firing head. It is designed to be used with pressure activated firing heads.

Always insure that there are no restrictions smaller than the shifting sleeve I.D. above the Shift-Down Mechanical Tubing Release. Restrictions will prevent the shifting tools from reaching the Shift-Down Mechanical Tubing Release.

If swedging down to smaller tubing (i.e. 2 7/8 to 2 3/8) the tubing joint directly below the Shift-Down Mechanical Tubing Release should be the same size as the shifting tool needs to pass through the Release then back up to shift the string.

Insure that all tools run inside the tubing string (logging, swabbing, ect.) are kept well away from the Shift-Down Mechanical Tubing Release to prevent them from getting stuck in the shifting tool causing accidental dropping of the guns.

Releasing Procedures:

Use an Otis type “B” shifting tool with weight bars and positive or selective keys corresponding to the I.D. of the shifting latch. Ensure that the shift tool is run in the shift-down orientation.

When running in the well, the shifting tool will stop as it engages the latch of the release. The engagement of the shift tool can easily be recognized as a reduction of string weight on the slickline weight indicator. Jar down to shear the screws that hold the latch in place and shift the tool.

After jarring proceed down hole to verify that the guns have dropped off.

