



## **HydraWell Internal Cement Foundation™**

### **DESCRIPTION/APPLICATION:**

The Hydrawell Internal Cement Foundation™ was developed to be able to perforate, wash the perforated interval and set a cross sectional cement plug in the same interval using the HydraHemera™ System in one trip. Contrary to the HydraWash™ System, where the actual HydraWash™ tool is disconnected after the washing sequence and acts as a foundation for the following cement job, the HydraHemera™ System requires a separate cement foundation in order to prevent slumping of cement down into the rat hole needed for the TCP-assembly, which could potentially contaminate the cement plug.

### **OPERATION:**

After perforating the plug interval and dropping the TCP-assembly, a ball is dropped and the Internal Cement Foundation™ is positioned and disconnected at a pre-determined depth above the disconnected TCP-assembly and below the perforations. Cement is then placed using the Hydrawell Spray Cementing Valve™, which feature flow area optimized for cement. Cement is pumped through the Hydrawell Spray Cementing Valve™, which combined with the Hydra Archimedes Cement Optimizer efficiently places cement into the annulus (or annuli if utilized for dual casing applications).

### **FEATURES/BENEFITS:**

- Enables one trip plugging system with HydraHemera™
- Large by-pass area while tripping
- Simple design and operation
- Isolates rat hole from desired plug interval.
- Prevents slumping and contamination of cement.
- Available for all casing sizes

