



Combination Wiper Plug (CWP) with Integral Ball Seat

Weatherford's combination wiper plug (CWP) is used to displace cement through the ID of liners that consist of multiple sizes of casing. The CWP comes with an integral ball seat, which is used to activate hydraulic liner hangers and running tools. The CWP is always run with a swab-cup style lower packoff above it and is usually used in conjunction with Weatherford's jointed system.

The drillpipe dart (DPD) is released behind the cement. When it reaches the CWP, the DPD latches and seals into the inner body of the CWP. Differential pressure across the CWP then launches it from the plug adaptor. The CWP is displaced through the liner, acting as a mechanical barrier behind the cement. It then lands and latches in the landing collar, and pressure can be applied as required.

Applications

- Cemented liners that use more than one size of liner pipe

Features, Advantages and Benefits

- Integral ball seat is more reliable than conventional landing collar ball seats, minimizing the potential for nonproductive time.
- When the integral ball seat is sheared, the pressure dissipates in the liner volume, greatly reducing the possibility of formation damage related to hydraulic shock.
- High-strength design makes the CWP capable of withstanding high bump pressures.
- Several features help simplify or accelerate drill-out, saving rig time:
 - Anti-rotation devices prevent the CWP and DPD from rotating during drill-out of the landing collar.
 - The CWP is made of aluminum and elastomeric materials, making it PDC drillable.

Specifications

Contact an authorized Weatherford representative.

