KWAT

Wireline Abandonment Tool

APPLICATIONS

- Wireline multi-zone abandonments
- Hole hunts for wellbore leaks

BENEFITS

- Wireline only operations
- 50% less installation times
- Reduced cost over standard abandonment operations
- Improved safety by reducing service footprint
- Reduced emissions

FEATURES

- Ability to pressure test in multiple locations
- Able to pressure test bridge plug after it is set

TOOL SPECIFICATIONS

- Casing size / weight
  4.5" 9.5-15.1 #/ft
  114.3mm 14.14-22.47 Kg/m
  5.5" 14-17 #/ft
  139.7mm 20.83-25.30 Kg/m

- Temp. rating: 100°C / 212°F
- Max OD 4.5" 92.7mm / 3.65 in
  5.5" 116.8mm /4.60 in
- Length: 9.2 m / 30.2ft
- Pressure rating: 68.9 MPa/ 10 Ksi

WACORP's patented technology allows for wireline only multi-zone abandonments by simultaneously setting and pressure testing the bridge plug on wireline. The WACORP K-WAT tool sets and pressure tests the bridge plug eliminating the costly tubing run. This technology can save as much as 50% in both time and expense compared to current practice for a multistage abandonment.

While monitoring the pressure above and below the WACORP K-WAT tool seal, the bridge plug is set and confirmation of pressure integrity test is completed immediately. Pressure is increased between the K-WAT element and the set bridge plug element and recorded via the tool string and surface software. This allows abandonment operations to be carried out by a wireline truck only rather than requiring both a wireline unit and service/coil rig.

WACORP's technology is a tool with a Gamma Ray, Casing Collar Locator, Pressure, Temperature and Resistivity sensors. Utilizing a patented design and process the bridge plug is set in place and fluid is pumped from the wellbore above, thru the tool, to the area below. By design, the volume is minimal, and the pressure increases rapidly. Pressure below and fluid conductivity above the tool is monitored continuously yielding a digital and paper record of the entire process for confirmation and regulatory board submission of the pressure test. Improved reliability of pressure test confirmation and a drastic reduction in the abandonment timeline results in reduced cost and improved efficiency.