



TECHNICAL DATA SHEET

CWH

Capacitance Water Hold-up Tool (Enhanced)

The enhanced Capacitance Water Hold-up Tool measures the proportion of water to hydrocarbon within the well fluid, at any given depth in the wellbore. This technology features superior circuitry compared to a standard tool, offering an improved response to fluid changes when the water-cut value is high.

The enhanced CWH is an annular capacitor with the central probe and external cage acting as the capacitor plates, and the well fluid flowing between the plates acting as the dielectric. The difference in the dielectrics of water and hydrocarbon are detected by the tool, and output as a frequency change. Water hold-up is determined by reference to a hold-up/fractional response chart.

Applications:

- Multi-phase production profiling
- Oil/gas/water hold-up calculations
- Qualitative analysis of water loaded up wells
- Qualitative analysis of high GOR and water free wells
- Identification of water ingress

Benefits

- Improved understanding of water and hydrocarbons within the wellbore
- Support water shut-off operations
- Part of READ's trusted production logging portfolio backed by 30 years of cased hole logging experience
- Deployable on Slickline, Electric line, Coil Tubing and Tractor
- Suitable for all well deviations including horizontal
- Comprehensive range of ANSA log analysis and report services available





Specifications

Temperature rating	350°F (177°C)
Pressure rating	15,000 psi (103.4 MPa)
Tool diameter	1 11/16 - 2 1/8 in (43 - 54 mm)
Tool length	26.125 in (664 mm)
Tool weight	10 lb (4.5 kg)
Effective range	0 - 48% water-cut
Resolution	1%
Measure point	8.6 in (218 mm)
Maximum working pull	6700 lb (3045 kg)
Materials	Corrosion resistant throughout

