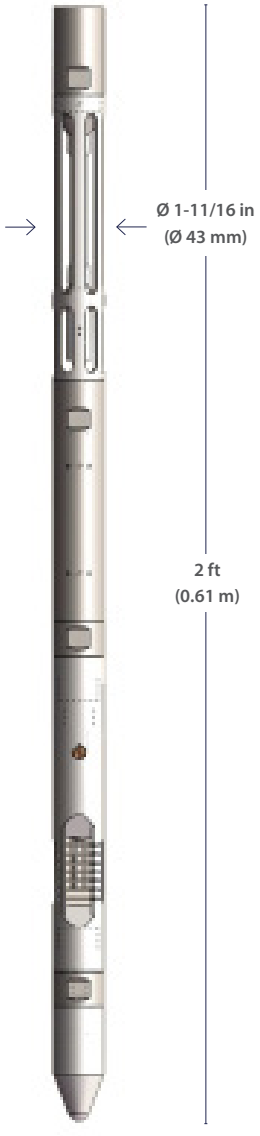
COMBINED WATER HOLDUP TOOL / DENSITY TOOL (QCD)

Combined Water Holdup Tool/Density Tool (QCD) offers capacitance (water holdup) and tuning fork density sensors in one module. This compact tool is fully compatible with GOWell's Pegasus series tools and the PegasusStar system. A compact PL string can be formed by combining this **QCD** with Pegasus modules PTF, FBM and GTC.

The density calibration is performed by using air, diesel, water and brine. The viscosity calibration is performed by using a range of silicon oils of known viscosity.



QCD

FEATURES

- Compact design by combining water holdup and fluid density
- Density unaffected by highly radioactive scale and well deviation
- No radioactive source – ease of logistics
- Accurate, repeatable density measurement
- Fluid viscosity estimate
- Compatible with all Pegasus series tools
- Sour Service / NACE MR075 compliant

APPLICATIONS

- Water Hold-Up measures the dielectric constant of the surrounding borehole fluid to determine the water holdup
- The QCD tool is a non-radioactive method of determining liquid and gas density unaffected by well deviation

SPECIFICATIONS

	QCD43J-A P/N 100517061
GENERAL SPECS	
Maximum Operating Pressure	14,500PSI (100 MPa)
Maximum Operating Temperature	347°F (175°C)
Instrument Diameter	1-11/16 in (43 mm)
Length	2 ft. (0.61 m)
Weight	8.8 lbs (4 kg)
Range of Density	0~1.25g/cc
Accuracy of Density	±0.02g/cc (Viscosity 0~50cs) – ±0.03g/cc (Viscosity 51~800cs)
Resolution of Density	0.01g/cc
Repeatability of Density	±0.01g/cc
Resolution of Holdup	1%
Accuracy of Holdup	±2%
Range of Holdup	0~50%