Radioactive Fluid Density Tool (FDR17, FDR19)

Titan Division | Instruments

Overview

The radioactive fluid density tool provides a reliable and comparatively safe means to measure wellbore fluid density regardless of the well deviation and flow rate. A Cesium-137 gamma ray source is used, which generates radiation rays to a distance of one meter from the tool. The radiational section is shielded so that the measuring is minimally negatively affected by radioactive scale. The very high count rate provides excellent statistics. A radiation shield is provided which can be locked on the tool so that the source can stay in the tool between jobs.

Application

- Fluid identification
- Horizontal and highly deviated well
- High fluid flow rates

Specifications

Model	FDR17	FDR19
Cable	Mono-conductor	
Max Working Temperature	175°C (350°F)	
Max Working Pressure	103MPa (15000psi)	
OD	43mm (1 11/16")	35mm (1 3/8")
Shipping Length	920mm(36.22")	885mm (34.84")
Make-up Length	825mm (32.48")	790mm (31.10")
Measuring Point	202mm (7.95")	
Operating Voltage	18V (WSTbus)	
Operating Current	<40mA	
Radioactive Source	Cs137 (5mCi)	
Sensor	NaI	
Measuring Range	0 to 1.25 g/cc	
Resolution	0.01 g/cc	
Accuracy	0.03 g/cc	
Threads	1 3/16 -12 UN-2A(B) GO (female/male)	1 3/16 -12 UN-2A(B) GO (female/male)

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