



PRESSURE-TEMP-CCL TOOL (PTC43C-A)

Pressure-Temp-CCL PTC43C tool is mainly used for depth correction and leakage detection. This tool integrates three parameters of Pressure, Temperature & CCL, and can be combined with any other Pegasus Series tools.



PTC43C-A

PRESSURE MEASUREMENT PRINCIPLE

The pressure section adopts piezoresistive pressure which produce different resistance according to pressure.

WELLBORE TEMPERATURE MEASUREMENT PRINCIPLE

Wellbore temperature measurement circuit uses a PT100 platinum thermal resistor which is linearly responsive with the ambient temperature.

CCL MEASURING PRINCIPLE

CCL section is made up of induction coil, magnetic steel and amplifier. The induction coil is located between the four magnetic steels. When the tool meets the casing collar while it's moving in the casing, the magnetic field strength in the coil changes correspondingly to the change of the magnetic flux surrounding magnetic objects in order to generate induction voltage.

FEATURES

- Warrior Compatible
- Reduced tool length

APPLICATIONS

- Correlation of cased hole logs between runs and wells
- Depth Control
- Leakage Detection through High Resolution Production Temperature Log
- Productivity Index Evaluation
- Identification of production/injection intervals
- Pressure Transient Analysis
- Pressure Gradient Evaluation



PRESSURE-TEMP-CCL TOOL (PTC43C-A)

SPECIFICATIONS

PTC43C-A	
P/N 100510369	
GENERAL SPECS	
Maximum Pressure	15,000PSI (103MPa)
Maximum Temperature	-4°F~350°F (-20°C~175°C) / 2 hours
Operating Voltage	18V to 36V
Operating Current	20±5mA@18V
Diameter	1-11/16" (43 mm)
Tool Length	36.3 in. (0.922 m)
Weight	13.3 lbs (6 kg)
Suggested Casing Size	2.375 in. - 7in. (60-178mm)
BOREHOLE TEMPERATURE SECTION	
Probe type	PT100
Measurement range	-13°F~350°F (-25°C~175°C)
Precision	±1.8°F(±1°C)
Resolution	0.09°F(0.05°C)
Response Time	≤1S
INTERNAL TEMPERATURE SECTION	
Probe Type	PT100
Measuring Range	-13°F~350°F (-25°C~175°C)
Measuring Accuracy	±1.8°F (±1°C)
Resolution	0.09°F (0.05°C)
Response Time	≤1S
CCL SECTION	
Measurement Range	0 to 3.3V (24-digit ADC Data)
Resolution	+ /- 2 uV
SNR (Signal to Noise Ratio)	14 dB
PRESSURE	
Precision	+/- 0.2% FS
Range	15,000PSI (103MPa)
Resolution	1KPa (0.145psi)
Sensor Type	Stain Pressure Gauge
SIGNAL TRANSMISSION	
Signal Transmission Method	CAN BUS2.0B
Connection Type	Pegasus 13 Pin Connection
Logging Mode	Memory Mode, SRO