



GAMMA RAY-WELLBORE TEMPERATURE-CCL (GTC)

GR-Temp-CCL tool (GTC) is mainly used for depth correlation and leakage detection. This tool integrates three sensors into a single tool (CCL, Gamma Ray & Temperature). It can be combined with any other Pegasus series tools.



NATURAL GAMMA RAY MEASURING PRINCIPLE

The natural gamma ray section uses a sodium iodide (NaI) scintillation crystal to detect and count the bulk gamma rays emitted by the formation.

WELLBORE TEMPERATURE MEASURING PRINCIPLE

The wellbore temperature measurement uses a platinum thermal resistor which is linearly responsive with the ambient temperature.

CCL MEASURING PRINCIPLE

The CCL section consists of an induction coil, a magnet assembly, and an amplifier. As the tool passes the casing collars while moving inside the casing, the magnetic field strength in the coil changes accordingly, generating a small induction voltage that is measured.

FEATURES

- API Calibrated response
- Warrior Compatible
- Reduced tool length
- Combinable with all Pegasus series tools
- Compliant to **NACE MR0175/ISO 15156-2015** for **sour service version**
- Up to **20305 PSI** maximum working pressure for **high pressure version**

APPLICATIONS

- Correlation of cased hole logs between runs and wells
- Depth Control
- Lithology Identification
- Leakage Detection through High Resolution Temperature Log
- Identification of production/injection intervals
- Identification of wellbore hardware



GAMMA RAY-WELLBORE TEMPERATURE-CCL

SPECIFICATIONS

	GTC43C-E	GTC43J-A	GTC43D-A
	P/N 1.01.07.100510368	P/N 1.01.07.300001219	P/N 1.01.07.300002250
	STANDARD TOOL	SOUR SERVICE TOOL	HIGH PRESSURE TOOL
GENERAL SPECS			
Maximum Pressure	15,000PSI (103MPa)	15,000PSI (103MPa)	20,305 psi(140Mpa)
Maximum Temperature	350°F (177°C)	350°F (177°C)	350°F (177°C)
Diameter	1-11/16 in. (43 mm)	1-11/16 in. (43 mm)	1.71 in. (43.5 mm)
Length	43.31 in. (1100 mm)	43.31 in. (1100 mm)	43.31 in. (1100 mm)
Weight	14.33 lbs (6.5 kg)	13.23 lbs (6 kg)	15.43 lbs (7 kg)
Offset (Standalone)	GR Section - 31.73 in. (806 mm)	GR Section - 31.73 in. (806 mm)	GR Section - 31.73 in. (806 mm)
	CCL Section - 11.42 in. (290 mm)	CCL Section - 11.42 in. (290 mm)	CCL Section - 11.42 in. (290 mm)
	Temperature Section - 3.94 in. (100)	Temperature Section - 3.94 in. (100)	Temperature Section - 3.94 in. (100)
Dynamic Range	0 ~10,000 CPS		
Resolution	1 CPS		
Natural Background	≥100 CPS		
Sensor Type	NaI Crystal		
Statiscal Fluctuation	≤ 7%		
Probe Type	PT100		
Measurement Range	-13°F ~ 350°F (-25°C~177°C)		
Precision	±1.8°F (±1°C)		
Resolution	0.09°F (0.05°C)		
Response Time	≤ 1S		
Dynamic Range	0 ~3300 (mv)		
Signal Transmission Method	CAN Communication Port		
Signal Transmission Baud	1Mbit/s		