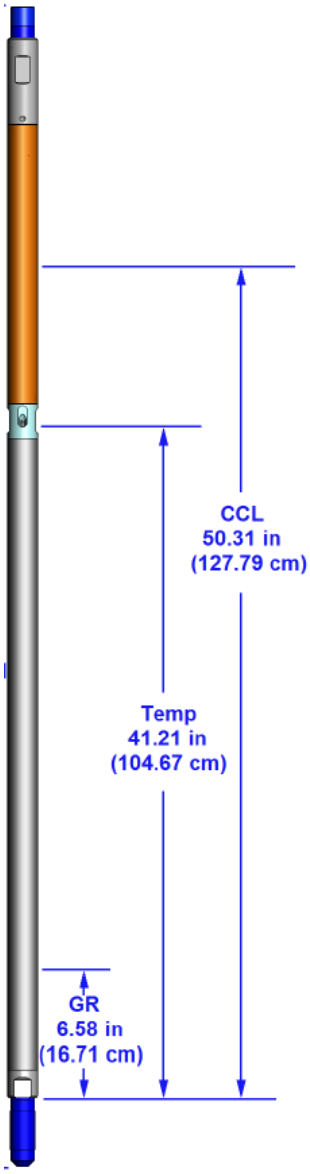
Technical Specification Sheet

Gamma Ray - CCL - Temperature Tool - 1 $^{11}/_{16}$ in.



Ratings & Dimensions

Max Temperature	350°F (177°C) for 4 hours
Maximum Pressure	20,000 psi (138 MPa)
Outer Diameter	1.69 in (42.93 mm)
Length	69.44 in (1763.78 mm) (M/U length 63.65 in (1616.71 mm)
Weight	35 lbs (15.9 kg)
Min Csg/Tbg OD	2.38 in (60.45 mm)
Max Csg/Tbg OD	7.0 in (178.0 mm)
Tensile Strength[1]	**Tension:** 65,000 lb **Compression:** 130,000 lb **Torque:**150 ft-lb (203 N-m)
Measure Points	**GR:** 6.58 in (167.132 mm) **CCL:** 50.31 in (1277.874 mm) **TEMP:** 41.21 in (1046.734 mm)

Borehole Conditions

Logging Speed	**Recommended:** 60 ft/min (18.2 m/min) **Maximum:** 100 ft/min (30.5 m/min) at 0.08 ft (.02 m) sample rate
Tool Positioning	Centralized | Eccentralized

Calibration

Primary	Houston API Pits
Wellsite Verifier	Thorium Blanket

Electrical Specifications

Operating Voltage	130V DC @ 34 mA

Hardware Characteristics

	Gamma Ray	**Casing Collar Locator**	**Temperature**
Sensor Type	Thallium Activated Sodium Iodide Crystal	Dual Magnet, Center Coil	RTD (1000Ω)
Transmission Type	Digital Telemetry	Line Wobble or Telemetry	Digital Telemetry
Data Rate	20 frames / sec @ 20 kHz		
Combinability	RADII, CBT, & Corrosion Platform		
Connections	GO Top, GO Pin Bottom		

Measurements

Principle	Natural Gamma Radiation	Magnetic Flux Lines	NA
Range	0-10,000 cps	2.38 in to 7.0 in (60.452 mm to 178.0 mm)	NA
Vert Resolution	6.0 in (152.5 mm)	NA	NA
Accuracy (1SD)	± 5%	NA	NA
Sensitivity	~0.998 cps/API unit	NA	NA
Primary Curves	GR (API)	CCL (mV)	TEMP(°F/C)
Secondary	Head voltage, (telemetry only)		

[1]Strengths apply to new tools at 70°F (21°C) and 0 psi.

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