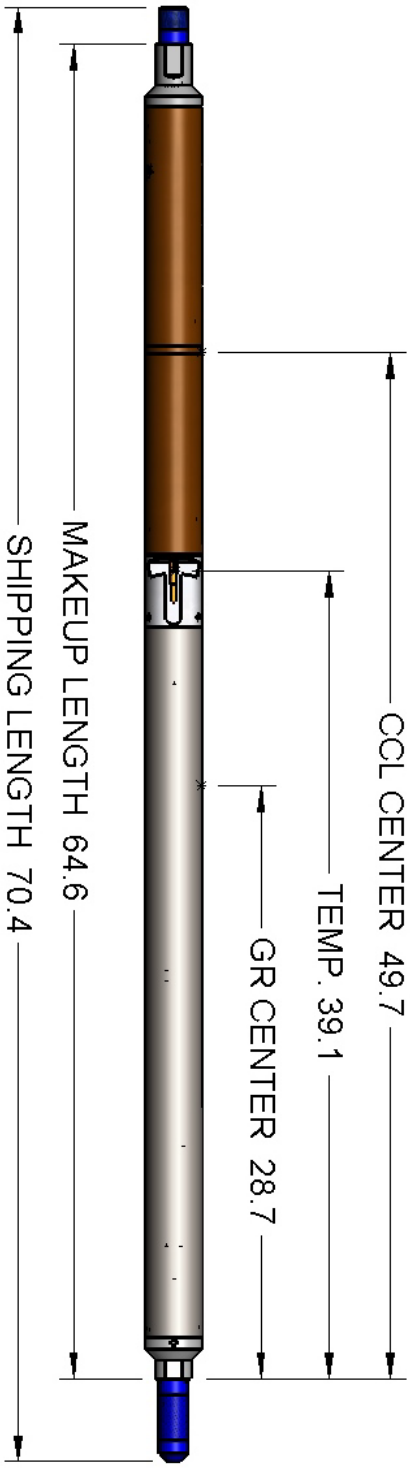
Technical Specification Sheet

Gamma Ray - CCL - Temperature Tool - Big Pipe - 2 3/4 in.



Ratings & Dimensions

Max Temperature	350°F (177°C) for 4 hours
Maximum Pressure	20,000 psi (138 MPa)
Outer Diameter	2.75 in (69.9 mm)
Length	64.56 in (1639.824 mm)
Weight	59.0 lb (15.9 kg)
Min Csg/Tbg OD	4.5 in (115.0 mm)
Max Csg/Tbg OD	13.375 in (339.73 mm)
Tensile Strength[1]	**Tension:** 65,000 lb **Compression:** 130,000 lb **Torque:**150 ft-lb
Measure Points	**Gamma Ray:** 28.70 in (728.98 mm) **Temperature:** 39.1 in (993.14 mm) **Casing Collar Locator:** 49.7 in (1262.4 mm)

Borehole Conditions

Tool Positioning	Centralized | Eccentralized

Hardware Characteristics

	Gamma Ray	CCL	Temp
Sensor Type	Thallium Activated Sodium Iodide Crystal	Dual Magnet, Center Coil	RTD (1000Ω)
Transmission Type	Analog Pulse or Telemetry	Line Wobble or Telemetry	Digital Telemetry
Data Rate	20 frames / sec @ 20 kHz		
Combinability	Corrosion Platform		
Connections	GO Top / GO Pin Bottom		

Measurements

Principle	Natural Gamma Radiation	Magnetic Flux Lines	NA
Range	0-10,000 cps	4.5 in to 13.375 in	NA
Resolution	6.0 in (152.5 mm)	NA	NA
Accuracy (1SD)	± 5%	NA	NA
Sensitivity	≈ 1.5 cps per API Unit	NA	NA
Primary Curves	GR (API)	CCL (mV)	Temp (°F/°C)
Secondary Curves	Head Voltage, (Telemetry Only)		

Calibration

Primary	Houston API Pits
Wellsite Verifier	Thorium Blanket
Temperature	2 pt Linear

Electrical Specifications

Operating Voltage	130V DC @ 34 mA

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

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