

Spectral Gamma Ray and CCL Tool

Collects data for correlation and formation evaluation

Applications

- Correlation to formation and wellbore tubulars
- Formation evaluation of potassium (K), uranium (U) and thorium (Th) elements
- Mineral composition and clay content determination

Features and Benefits

- Fully Probe HD platform compatible with fast telemetry
- Available in SRO and Memory
- Combinable with ArrayPro and RAS for comprehensive cased hole formation evaluation

Tool Description

The Weatherford casedhole spectral gamma ray and casing collar locator (CCL) operates on a common tool bus and can be combined with any HD tool platform tools.

The SGR tool consists of a CCL sensor signal and a sodium iodide gamma-ray detector and electronics. The tool outputs are total GR counts, a 256-channel spectrum of gamma ray energy and the CCL signal. Processing on the surface system analyses the gamma ray spectrum for the three most common natural radioisotopes: potassium (K), uranium (U) and thorium (Th).

Data from the SGR processing is used for mineral composition and clay volume calculations. The tool may provide useful insight to radioactive deposits in and around the wellbore.



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Specifications

Ratings and Dimensions

Maximum Temperature (°F/°C)	350/177
Maximum Pressure (psi/MPa)	15,000/103.4
Outside Diameter (in./mm)	2.75/70.0
Makeup Length (in./mm)	47.7/1,212.0
Weight (lb/kg)	42.1/19.1

Measurement

Depth of Investigation (in./mm)	9.5/(241.0)
Precision	0.5%
Accuracy	K +/- 0.5%, U +/- 5Kppm, Th +/- 5Kppm
Max Logging Speed	25 fpm (7.6 mpm)

Hardware Characteristics

Materials	Titanium Corrosion resistant materials used throughout
Combinability	RAS
Acquisition Mode	Real-time (with TCU) Memory (with MLT)

