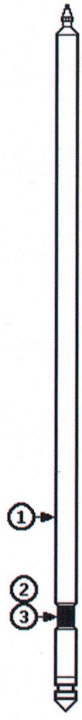


CENTURY GEOPHYSICAL, LLC.

PRODUCT DESCRIPTION

9014 Natural Gamma, SP, Res Logging Tool



Background Information

The 9014 tool is a multi-parameter slim hole mining and hydrology tool that records natural gamma, SP, single-point resistance. With the tool's slim hole design, it can be used in 5.08 cm (2 in.) steel or plastic cased holes to record natural gamma for lithology. Even with its simple design, this tool records all three parameters simultaneously, without any merging or down logging required.

Features	
Properties Measured (see diagram)	Tool Specifications
1. Natural Gamma: 1.3 x 7.6 cm (0.5 x 3.0 in.) NAI Scintillation Offset: 276.8 cm (69.6 in.) 2. Spontaneous Potential +/-0.1 ohm Resolution Offset: 204.2 cm (80.4 in.) 3. Single Point Resistance +/-0.1 ohm Resolution Offset: 204.2 cm (80.4 in.)	Length: 137.2 cm (54 in.) Temperature: 75 C (167 F) Diameter: 47.6 mm (1.875 in.) Pressure: 281 kg/cc ² (4000 PSI) Weight: 6.8 kg (15 lb.) Logging Speed: 9 m/min. (30 ft./min.) Tool Voltage Required: 30 VDC

Sensor Response Ranges		
Sensor	Response Limits	Accuracy
Natural Gamma	0 - 10,000 API units	+/-5%
Resistance	0 to 1500 ohms	+/-5%
Spontaneous Potential	-400 to 400 mv	+/- 10 mv

Phone: 918-838-9811
Fax: 918-838-1532

Century Geophysical, LLC
1223 S. 71st E. Ave.
Tulsa, OK 74112

sales@century-geo.com
www.century-geo.com