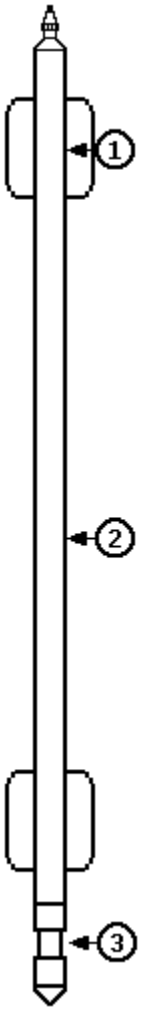
9804 Logging Tool

9804 Series Acoustic Televiewer — Product Description



Background Information

The Acoustic Televiewer takes an oriented "picture" of the borehole using high-resolution sound waves. This acoustic picture is displayed in both amplitude and travel time. This information is used to detect bedding planes, fractures, and other hole anomalies without the need to have clear fluid filling the boreholes. The televiewer digitizes 256 measurements around the borehole at each high-resolution sample interval (.005 meters/.02 feet). This data is oriented to North and displayed real-time while logging using the Visual Compu-Log software. Analysis includes color adjustment, fracture dip and strike determination, and classification of anomaly. It allows information to be displayed on the graphical screen, plot, and in report format. Optionally, the tool can be equipped with a natural gamma sensor.

Features	
Properties Measured (see diagram)	**Tool Specifications**
1. Natural Gamma: Offset: 30.48 cm (12 in.) **Scintillation (NG):** 0 to 10,00 API, Accuracy +/-5 percent **2. Deviometer:** **Offset: 175 cm (69 in.)** **X-Y Inclinometer (XYI):** **0 to 90 degrees, Accuracy +/-0.5 degrees** **Azimuth (AZ):** **3-axis magnetometer** **0 to 360 degrees, Accuracy +/- 2 degrees** **3. Acoustic Amplitude & Acousitic Travel Time:** **Offset: 175 cm (69 in.), Accuracy +/- 2.55 mm (0.1 in.)**	**Outside Diameter** 50.8 mm (2 in.) **Weight:** 14 kg (30 lbs.) **Length:** 193 cm (76.0 in.) **Pressure:** 105 kg/cm^2 (1500 psi) **Temperature:** 85 C (185 F) **Scan Rate:** 12 revolutions/second **Sample Rate:** 256 samples/revolutions **Borehole Size:** 74 to 230 mm (2.9 to 9 in.) **Logging Speed:** 2 m/min (6 ft/min.) **Tool Voltage Required:** 115 VDC

Tool Information		
Item	**Model #**	**Part #**
Tool with Acoustic Televiewer, XYI, AZ	8804	332004B
Tool with Acoustic Televiewer, XYI, AZ, and Natural Gamma	9804	332004A
Deviation calibration test stand		317420

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