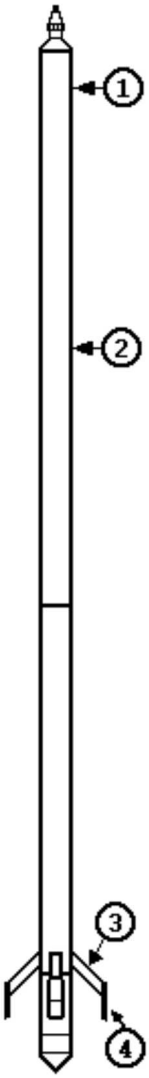
9411 Logging Tool

Dipmeter

Product Description



Background Information

The Dipmeter tool is a formation strike and dip directional probe primarily used in mining and environmental logging applications. Additionally, the tool also records natural gamma, X-Y calipers, and borehole deviation is computed from the slant angle and bearing measurements calculated from the inclinometer and magnetometer sensors. To ensure accurate strike and dip measurements in small-diameter holes, special care should be taken when calibrating the calipers to maximize their accuracy.

Features	
Properties Measured (see diagram)	**Tool Specifications**
1. Natural Gamma: 2.2 x 8.9 cm (0.875 x 3.5 in.) NaI (TI) Scintillation Offset: 14 cm (5.5 in.) **2. Slant Angle Bearing:** Offset: 67 cm (26.4 in.) **3. Independent X-Y Calipers:** Maximum 30 cm (12 in.) Hole Diameter Offset: 305 cm (120 in.) **4. 4-pad Micro Resistance:** Offset: 305 cm (120 in.)	**Length:** 323 cm (127 in.) **Temperature:** 85 C (185 F) **Diameter:** 57 mm (2.25 in.) **Pressure:** 352 kg/cm^2 (5000 PSI) **Weight:** 34.6 kg (76 lb.) **Logging Speed:** Maximum: 5.5 m/min. (18 ft./min.) Minimum: 2.7 m/min. (9 ft./min.) **Tool Voltage Required:** 115 VDC

Sensor Response Ranges		
Sensor	**Response Limits**	**Accuracy**
Natural Gamma (NG)	0 to 10,000 API units	+/-5%
X & Y Caliper (XCAL & YCAL)	6.4 to 30.5 cm (2.5 to 12 in.)	+/-0.5 cm (0.2 in.)
Micro Resistance (MR)	0 to 10,000 ua	+/-5%
X-Y Inclinometers (XYI)	0 to 90 degrees	+/-0.5 degrees
Azimuth (AZ)	0 to 360 degrees	+/-2 degrees

Tool Information		
Item	**Model #**	**Part #**
Tool with NG, XCAL, YCAL, 4-MR, XYI, AZ	9411	321300
Deviation Calibration Test Stand		317420

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