CENTURY GEOPHYSICAL LLC. PRODUCT DESCRIPTION

9702 Natural Gamma/Deviation Logging Tool

Background Information



Used when natural gamma log and deviation data is required. The natural gamma sensor is located near the bottom of the tool to permit data acquisition near the total depth of the borehole. The deviation device uses two inclinometers and three magnetometers to determine precise borehole path and direction. The small diameter (41mm/1.625in) of the tool allows logging in 2.0 ID PVC casing, non-metalic metal casings, or open holes. The deviation test stand is recommend for both calibration of the device and routine tool checks for accuracy.

Features				
Properties Measured (see diagram)	Tool Specifications			
1. Natural Gamma:	Length: 154.4 cm (60.0 in.)			
2.2 x 10.2 cm	Temperature: 85 C (185 F)			
(0.875 x 4.0 in.)	Diameter: 41 mm (1.625 in.)			
NAI Scintillation	Pressure: 281 kg/cm ² (4000 PSI)			
Offset: 14.63 cm (5.76 in.)	Weight: 7.46 kg (20 lb.)			
2. Inclination & Azimuth:	Logging Speed: 9 m/min. (30 ft./min.)			
2-axis Inclinometer and 3-axis	Tool Voltage Required: 36 VDC			
Magnetometer.				
Offset: 149.86 cm (59 in.)				
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Sensor Response Ranges

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Sensor	Response Limits	Accuracy	
Natural Gamma (NG)	0 - 400,000 API units	+/-5%	
X-Y Inclination (XYI)	0 - 45 Degrees	+/-0.5 Deg.	
Azimuth (AZ)	0 - 360 Degrees	+/-2.0 Deg.	

Tool Information				
Item	Model #	Part #		
Tool with DEV.	7702	318350		
Tool with NG/DEV.	9702	318350		
Deviation Test Stand		317420		