## CENTURY GEOPHYSICAL LLC. PRODUCT DESCRIPTION

	Background Information The Compensated Neutron tool contains a two detector, neutron system which uses a 5.0 Curie, Am241Be source to record neutron porosity of the formation. Additionally, the tool also records short and long neutron counts, natural gamma, temperatu and a deep guard resistivity. Features			
	Properties Measured (see diagram)		Tool Specifications	
D	<ol> <li>Natural Gamma: 2.9 x 10.2 cm (1.125 x 4.5 in.) Nal Scintillation Offset: 30.5 cm (12 in.)</li> <li>Deep Guard Resistivity: Upper guard, measure and lower guard electrodes, 3 m (10 ft.) Offset for measure electrode:147.3 cm (58 in.)</li> </ol>	<ul> <li>3. Neutron Detector, Far Spacing: He<sup>3</sup> 3.8 x 24.4 cm (1.5 x 9.6 in.) 61cm (24 in.) spacing Offset: 218.4cm (86 in.)</li> <li>4. Neutron Detector, Near Spacing: He<sup>3</sup> 2.9 x 10.1 cm (1.125 x 4.0 in.) 32.4 cm (12.75 in.) spacing Offset: 241.3cm (95 in.)</li> <li>5. Temperature Measurement: Thermal temperature on needle sensor. Offset: 265.4 cm (104.5 in.)</li> <li>6. Radioactive Source: 5 Ci AmBe 241 neutron source, bullplug Offset: 276.9 cm (108 in.)</li> </ul>	Length: 282 cm (111 in.) Temperature: 85 C (185 F) Diameter: 5.1 cm (2.0 in.) Pressure: 232 kg/cc (3300 PSI) Weight: 16.4 kg (36 lb.) Logging Speed: 9 m/min. (30 ft./min.) Tool Voltage Required: 70 VDC	
	Sensor Response Ranges			
	Sensor	Response Limits		Accuracy
	Natural Gamma	0-10,000 API units		+/-5%
	Near Neutron CPS	0 to 20,000		+/-5% cps
	Far Neutron CPS	0 to 5000		+/-5% cps
	Neutron Porosity	-10 to 100% porosity		+/-2% to 60%
	Resistivity	0 to 20,000 ohm meters		+/-5%
		32 to 150 degrees F.		+/-5%
	Temperature	52 to 150 degrees F.		
	Temperature	Tool Information		
				Part #
		Tool Information	250050A	
	I	Tool Information	250050A Please Inc	
	Compensated Neutron Logging Tool	Tool Information		