



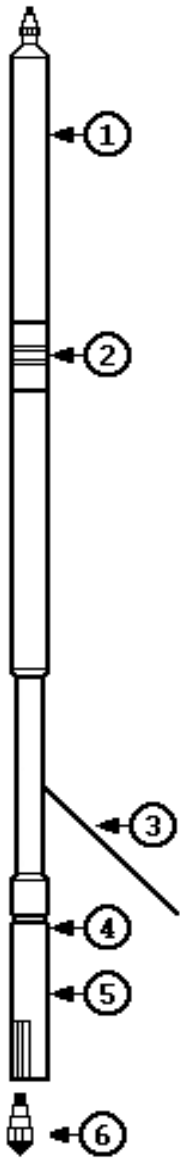
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**9239 Logging Tool**

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**9239 Series Compensated Density**

**Product Description**



**Background Information**

The Series 9239, Compensated Density logging tool uses the two focused density detectors to compute borehole compensated density real time while logging. No post processing required to produce CDL bulk density. Additionally, the tool also records natural gamma, caliper, and focused guard resistivity.

Features			
Properties Measured (see diagram)		Tool Specifications	
<b>1. Natural Gamma:</b> 2.2 x 10.16 cm (0.875 x4.0 in.) NAI Scintillation Offset: 21 cm (8.25 in.)	<b>4. Far Density:</b> 2.2 x 10.16 cm (0.875 x4.0 in.) 35.8 cm (14.1 in.) spacing Offset: 243.3 cm (95.8 in.)	<b>Length:</b> 280.3 cm (110.35 in.) <b>Temperature:</b> 85 C (185 F) <b>Diameter:</b> 56 mm (2.2 in.) <b>Pressure:</b> 175 kg/cm <sup>2</sup> (2500 PSI) <b>Weight:</b> 32.7 kg (72 lb.) <b>Logging Speed:</b> 9 m/min. (30 ft./min.) <b>Tool Voltage Required:</b> 56 VDC	
<b>2. 3-Element Guard Resistivity:</b> 127.6 mm (50.25 in.) guard electrode Offset: 63.5 cm (25 in.)	<b>5. Near Density:</b> 2.2 x 3.2 cm (0.875 x1.25 in.) 20 cm (7.9 in.) spacing Offset: 259.3 cm (102.1 in.)		
<b>3. Caliper:</b> Motorized, uphole actuated 35.6 cm (14 in.) or 20.3 cm (8 in.) Offset: 210.8 cm (83 in.)	<b>6. Radioactive source:</b> 200-300 mCi Cesium 137 in bullplug Offset: 274.3 cm (108.0 in.)		
Sensor Response Ranges			
Sensor	Response Limits		Accuracy
Natural Gamma (NG)	0-10,000 API units		+/-5%
Short or Long Arm Caliper (CAL)	0 to 35.6 cm (14 in.)	+/-0.635 cm (0.25 in.)	
Near Density (ND)	0.5 to 3.5 g/cc (0.02 to 0.13 lbs/ci)	+/-0.05 g/cc (0.001 lbs/ci)	
Far Density (FD)	0.5 to 3.5 g/cc (0.02 to 0.13 lbs/ci)	+/-0.05 g/cc (0.001 lbs/ci)	
Guard Resistivity (MG)	0 to 40,000 ohm meters	+/-5%	
Tool Information			
Item	Model #	Part #	
Tool with NG, CAL, ND, FD, MG	9239	320599	
200-300 mCi Source w/Shield Cesium		please inquire	
Source Handling Tool		101501	
Calibration Gauge		212471	
Guard Resistivity Calibration Box		335227	

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**7201 Logging Tool**

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**Spectral Gamma**

**Product Description**

**Background Information**

The Spectral Gamma tool is a three-channel analysis of the gross gamma ray spectrum as it relates to potassium, uranium, and thorium content. An internal energy source of less than 1 micro-curries of Cs137 is used to excite the crystal and to stabilize the electronics prior to logging. The spectral window is recorded via a 256 channel spectrum board so that the different energy levels from the formation can be analyzed.



Features	
Properties Measured (see diagram)	Tool Specifications
<b>1. Potassium (K)</b> Percent 40 Offset: 135.63 cm (53.4in.) <b>2. Uranium (U):</b> Parts Per Million Offset: 135.63 cm (53.4in.) <b>3. Thorium (T)</b> Offset: 135.63 cm (53.4in.)	<b>Length:</b> 167 cm (65.75in.) <b>Temperature:</b> 65 C (150 F) <b>Diameter:</b> 60.96 mm (2.40 in.) <b>Pressure:</b> 232 kg/cm <sup>2</sup> (3000 PSI) <b>Weight:</b> 16.82 kg (37 lb.) <b>Logging Speed:</b> 1.5 m/min. (5 ft./min.) <b>Tool Voltage Required:</b> 60 VDC

Sensor Response Ranges	
Sensor	Accuracy
K, percent 40	+/-2%
U, PPM	+/-10 PPM
T, PPM	+/-10 PPM

Tool Information		
Item	Part #	Part #
Spectral Gamma Logging Tool	7201	272000

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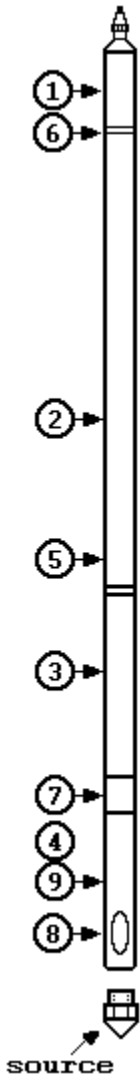
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**9057 Logging Tool**

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**Multi-Parameter E-Log, Neutron (Deviation Option)**

**Product Description**



**Background Information**

The Multi-Parameter E-Log, Neutron logging tool was developed to replace the 9055 which was historically Century's most popular tool. The tool duplicates all parameters on the 9055 while adding the 16 inch normal, 64 inch normal, and lateral resistivities. The 9057 natural gamma circuit features a low dead time and the ability to measure very high count rates making it a favorite for uranium logging. The tool records ten different parameters simultaneously in one pass of the borehole. The ten parameters are the following: natural gamma, spontaneous potential, single point resistance, 16 in. normal resistivity, 64 in. normal resistivity, 48 in. lateral resistivity, neutron-neutron, temperature, delta temperature, slant angle (tilt) and azimuth (bearing). Slant angle, azimuth, and natural gamma are optional.

Features		
Properties Measured (see diagram)		Tool Specifications
<b>1. Natural Gamma:</b> 2.2 x 10.16 cm (0.875 x 4.0 in.) NaI Scintillation Offset: 14.7 cm (5.8 in.)	<b>5. Lateral Resistivity 48 in.</b> Offset: 139.7 cm (55 in.)	<b>Length:</b> 237 cm (93.6 in.) <b>Temperature:</b> 80 C (176 F) <b>Diameter:</b> 53 mm (2.1 in.) <b>Pressure:</b> 281 kg/cm <sup>2</sup> (4000 PSI) <b>Weight:</b> 15 kg (33 lb.) <b>Logging Speed:</b> 9 m/min. (30 ft./min.) <b>Tool Voltage Required:</b> 36 VDC
<b>2. 64 in. Normal Resistivity:</b> Offset: 109.2 cm (43 in.)	<b>6. Spontaneous Potential:</b> +/- 0.1 mv resolution Offset: 27.7 cm (10.9 in.)	
<b>3. 16 in. Normal Resistivity:</b> Offset: 170.2 cm (67 in.)	<b>7. Single Point Resistance:</b> +/- 0.1 ohm resolution Offset: 190.5 cm (75 in.)	
<b>4. Neutron-Neutron:</b> He <sup>3</sup> Detector 2.54 cm x 15.2 cm (1 in. x 6 in.) Offset: 200.7 cm (79 in.)	<b>8. Temperature &amp; Delta Temperature:</b> 0.004 C (0.007 F) resolution Offset: 220.5 cm (86.8 in.)	
	<b>9. Slant Angle &amp; Azimuth:</b> 3-axis magnetometer and 2-axis inclinometer Offset: 200.7 cm (79 in.)	

Sensor Response Ranges		
Sensor	Response Limits	Accuracy
Natural Gamma (NG)	0-400,000 API units	+/-5%
16 in. (16N) & 64 in. Normal (64N) & Lateral Resistivity (LR)	0-2,000 ohm/meters	+/-5%
Spontaneous Potential (SP)	-400 - +400 mv	+/-5%
Temperature (TEMP)	0 C- 70 C (32 - 160 F)	+/-5%
Single Point Resistance (SPR)	0-2,000 ohms	+/-5%
Neutron-Neutron (NN)	0-20,000 API	+/-5%
X - Y Inclination (XYI)	0-45 degrees	+/-0.5 degrees
Azimuth (AZ)	0-360 degrees	+/-2 degrees

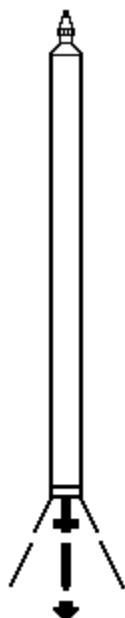
Tool Information		
Item	Model #	Part #
Tool with 16N, 64N, LR, SP, SPR, NN, TEMP (No Natural Gamma)	7057	336600C
Tool with NG, 16N, 64N, LR, SP, SPR, NN, TEMP	8057	336600A
Magnetic Deviation Option and Same Parameters as 8057	9057	336600B
Source w/Shield Am 241 Be		109901
Source Handling Tool		101501

## 9074 Logging Tool

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### 9074 Series Three Arm Caliper

### Product Description



#### Background Information

The 9074, 8074, 7074 and 6074 Three Arm Caliper logging tools, are a three-arm caliper configuration used to measure the diameter of the borehole. They can be used in both open and cased holes. Natural Gamma and the casing collar locator are optionally available. However, when configured with both the natural gamma and casing collar locator the tool is slightly longer.

Features	
Properties Measured (see diagram)	Tool Specifications
<b>1a. Natural Gamma: (optional)</b> 2.2 x 10.16 cm (0.875 x 4.0 in.) NaI Scintillation Offset: 14.6 cm (5.76 in.) <b>1b. Casing Collar Locator: (optional)</b> Dual magnet and coil assembly Offset: 14.6 cm (5.76 in.) <b>2. Three Arm Caliper:</b> Short- or Long- arm configuration, motor operated Sensor Offset: Short-arm: 220.4 cm (86.8 in.) Long-arm: 241.0 cm (94.9 in.)	<b>Tool Length:</b> With Short-arms: 226 cm (89 in.) With Long-arms: 264 cm (104 in.) <b>Temperature:</b> 85 C (185 F) <b>Diameter:</b> 50.8 mm (2.0 in.) <b>Pressure:</b> 281 kg/cm <sup>2</sup> (4000 PSI) <b>Weight:</b> Short-arm: 18.5 kg (48 lbs.) Long-arm 20.8 kg (54 lbs.) <b>Logging Speed:</b> 9 m/min. (30 ft./min.) <b>Tool Voltage Required:</b> 56 VDC

#### Sensor Response Ranges

Sensor	Response Limits	Accuracy
Natural Gamma (NG)	0-400,000 API units	+/-5%
Casing Collar Locator (CCL)	+/- 50,000 CPS	NA
Short-Arm Caliper	5.1 to 76.2 cm (2 to 30 in)	+/-0.38 cm (0.15 in)
Long-Arm Caliper	5.1 to 113 cm (2 to 44.5 in)	+/-0.64 cm (0.25 in)

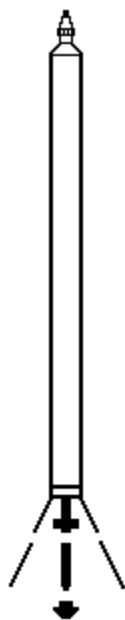
#### Tool Information

Item	Model #	Part #
Three Arm Caliper, with NG & Short Arms, without CCL	9074	298000A
Three Arm Caliper, with Short Arms, without NG and CCL	8074	298000B
Three Arm Caliper with CCL & Short Arms, without NG	7074	297000A
Three Arm Caliper with CCL & Short Arms, with NG	6074	298200A
Extensions to Long Arms	All	298009 (3 Req.)
Long Arm Center Shaft Extension	All	298010
Caliper Tip Balls	All	799959
Calibrator, Rings, 2	All	298001

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**9074 Series Three Arm Caliper****Product Description****Background Information**

The 9074, 8074, 7074 and 6074 Three Arm Caliper logging tools, are a three-arm caliper configuration used to measure the diameter of the borehole. They can be used in both open and cased holes. Natural Gamma and the casing collar locator are optionally available. However, when configured with both the natural gamma and casing collar locator the tool is slightly longer.

<b>Features</b>		
<b>Properties Measured (see diagram)</b>	<b>Tool Specifications</b>	
<b>1a. Natural Gamma: (optional)</b> 2.2 x 10.16 cm (0.875 x 4.0 in.) NaI Scintillation Offset: 14.6 cm (5.76 in.) <b>1b. Casing Collar Locator: (optional)</b> Dual magnet and coil assembly Offset: 14.6 cm (5.76 in.) <b>2. Three Arm Caliper:</b> Short- or Long- arm configuration, motor operated Sensor Offset: Short-arm: 220.4 cm (86.8 in.) Long-arm: 241.0 cm (94.9 in.)	<b>Tool Length:</b> With Short-arms: 226 cm (89 in.) With Long-arms: 264 cm (104 in.) <b>Temperature: 85 C (185 F)</b> <b>Diameter: 50.8 mm (2.0 in.)</b> <b>Pressure: 281 kg/cm<sup>2</sup> (4000 PSI)</b> <b>Weight:</b> Short-arm: 18.5 kg (48 lbs.) Long-arm 20.8 kg (54 lbs.) <b>Logging Speed: 9 m/min. (30 ft./min.)</b> <b>Tool Voltage Required: 56 VDC</b>	
<b>Sensor Response Ranges</b>		
<b>Sensor</b>	<b>Response Limits</b>	<b>Accuracy</b>
Natural Gamma (NG)	0-400,000 API units	+/-5%
Casing Collar Locator (CCL)	+/- 50,000 CPS	NA
Short-Arm Caliper	5.1 to 76.2 cm (2 to 30 in)	+/-0.38 cm (0.15 in)
Long-Arm Caliper	5.1 to 113 cm (2 to 44.5 in)	+/-0.64 cm (0.25 in)
<b>Tool Information</b>		
<b>Item</b>	<b>Model #</b>	<b>Part #</b>
Three Arm Caliper, with NG & Short Arms, without CCL	9074	298000A
Three Arm Caliper, with Short Arms, without NG and CCL	8074	298000B
Three Arm Caliper with CCL & Short Arms, without NG	7074	297000A
Three Arm Caliper with CCL & Short Arms, with NG	6074	298200A
Extensions to Long Arms	All	298009 (3 Req.)
Long Arm Center Shaft Extension	All	298010
Caliper Tip Balls	All	799959
Calibrator, Rings, 2	All	298001

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**9721 Logging Tool**

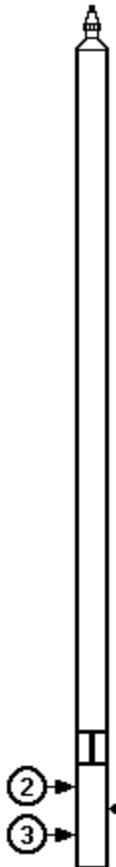
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**E-M Flowmeter**

**Product Description**

**Background Information**

The E-M Flowmeter tool is used in the environmental and hydrology industries to measure fluid movement in a borehole. It incorporates [Quantum Engineering's "EBF" electromagnetic sensor](#). The instrument measures flow rates using the principal of Faraday's Law of Induction. The downhole probe consists of an electromagnet and two electrodes located 180 degrees apart and 90 degrees to the magnetic field inside of a hollow cylinder. The voltage induced by a conductor moving at right angles through the magnetic field is directly proportional to the velocity of the conductor (water) through the field. The tool is capable of measuring low velocity flow rates down to less than 50 ml/min and increased flow rates to 40 liters/min, through the tool's 1 inch inside diameter sensor. When using the tool to measure low velocity flow rates a rubber skirt is attached to the outside of the sensor to block off the bore hole and force the fluid to pass through the 1 inch diameter opening inside the sensor coil. The Compu-View Software program is designed to allow the automatic collection of data at selected static stations in the borehole. When measuring faster flow rates the rubber skirt is typically removed and the tool is run in either the static station or dynamic mode. The tool has no moving parts.



Features	
Properties Measured (see diagram)	Tool Specifications
<b>1. Flowmeter:</b> Electromechanical Offset: 139.7 cm (55.0 in.) <b>2. Fluid Resistivity:</b> Offset: 139.7 cm (55.0 in.) <b>3. Temperature &amp; Delta Temperature :</b> Offset: 139.7 cm (55.0 in.)	<b>Length:</b> 142 cm (56.0 in.) <b>Temperature:</b> 60 C (140 F) <b>Diameter:</b> 41.3 mm (1.625 in.) <b>Sensor Housing:</b> 50.8 mm (2.0 in.) <b>Weight:</b> (13.5 lbs.) <b>Tool Voltage Required:</b> 64 VDC

Sensor Response Ranges		
Sensor	Response Limits	Accuracy
Flowmeter (EMF)	50 ml./min. to 40 liters./min.	+/-20 ml/min. (High Gain)
Temperature (TEMP)	0 C to 60 C (32 to 140 F)	+/-5%
Fluid Resistivity (FR)	0-100 ohm meters	+/-5%

Tool Informaiton		
Item	Model #	Part #
Tool with EMF, TEMP, FR	9721	300000
(included) 6.5 in. Diameter Flow Diverter Skirt (modifiable for use in hole from 3.75 in. to 6.25 in. diameter)		
(included) Centralizer		
(included) Weighted Section		

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## 9721 Logging Tool

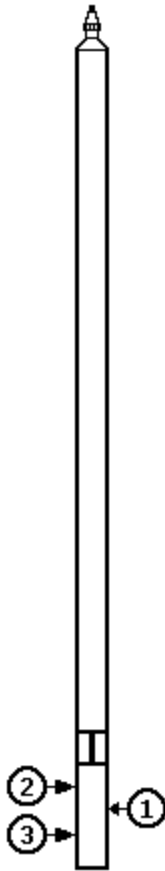
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## E-M Flowmeter

## Product Description

## Background Information

The E-M Flowmeter tool is used in the environmental and hydrology industries to measure fluid movement in a borehole. It incorporates [Quantum Engineering's "EBF" electromagnetic sensor](#). The instrument measures flow rates using the principal of Faraday's Law of Induction. The downhole probe consists of an electromagnet and two electrodes located 180 degrees apart and 90 degrees to the magnetic field inside of a hollow cylinder. The voltage induced by a conductor moving at right angles through the magnetic field is directly proportional to the velocity of the conductor (water) through the field. The tool is capable of measuring low velocity flow rates down to less than 50 ml/min and increased flow rates to 40 liters/min, through the tool's 1 inch inside diameter sensor. When using the tool to measure low velocity flow rates a rubber skirt is attached to the outside of the sensor to block off the bore hole and force the fluid to pass through the 1 inch diameter opening inside the sensor coil. The Compu-View Software program is designed to allow the automatic collection of data at selected static stations in the borehole. When measuring faster flow rates the rubber skirt is typically removed and the tool is run in either the static station or dynamic mode. The tool has no moving parts.



Features		
Properties Measured (see diagram)	Tool Specifications	
<b>1. Flowmeter:</b> Electromechanical Offset: 139.7 cm (55.0 in.) <b>2. Fluid Resistivity:</b> Offset: 139.7 cm (55.0 in.) <b>3. Temperature &amp; Delta Temperature :</b> Offset: 139.7 cm (55.0 in.)	<b>Length:</b> 142 cm (56.0 in.) <b>Temperature:</b> 60 C (140 F) <b>Diameter:</b> 41.3 mm (1.625 in.) <b>Sensor Housing:</b> 50.8 mm (2.0 in.) <b>Weight:</b> (13.5 lbs.) <b>Tool Voltage Required:</b> 64 VDC	
Sensor Response Ranges		
Sensor	Response Limits	Accuracy
Flowmeter (EMF)	50 ml./min. to 40 liters./min.	+/-20 ml/min. (High Gain)
Temperature (TEMP)	0 C to 60 C (32 to 140 F)	+/-5%
Fluid Resistivity (FR)	0-100 ohm meters	+/-5%
Tool Informaiton		
Item	Model #	Part #
Tool with EMF, TEMP, FR	9721	300000
(included) 6.5 in. Diameter Flow Diverter Skirt (modifiable for use in hole from 3.75 in. to 6.25 in. diameter)		
(included) Centralizer		
(included) Weighted Section		

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# Current Production Logging Tools



All of Century's Tools digitize the sensor measurements downhole. This minimizes interference from varying wireline cable lengths, and other factors that can alter the data. All measurements from Century Tools are calibrated, and are recorded in engineering units.

Click on the Model Number for more information  
 Legend: **S**=Standard **O**=Optional

Sensors	Model Number																			
	90112128	902238	902239	902444	902533	902537	902538	902722	902724	902701	902926	902920	902922	902921	902922	902922	902921	902921	902924	
16" Normal				S	S															
64" Normal				S	S															
Acoustic Televiewer																				S
Gyro Deviation									S											
Magnetic Deviation				O	O	O			O			S		O	S					S
Caliper		S	S						S											
Casing Collar Locator				S					O			O	O							
Conductivity														S						
Dipmeter													S							
Compensated Density			S																	
High Resolution Density		S																		
Near Density			S																	
Far Density			S																	
Fluid Resistivity				S																
Guard Resistivity		S	S					S												
Lateral Resistivity				S	S															
Micro Resistivity													S							
Flowmeter, Impeller																		S		
Flowmeter, Electro Magnetic																			S	
Fluid Sampler																				S
Magnetic Susceptibility														S						
Natural Gamma	S	S	S	O	S	O	S	S	O	S	S	O	O	S	S	S	S	O		O
Neutron - Neutron					S	S	S													
Potassium Uranium Thorium									S											
Spontaneous Potential				S	S															



<b>Single Point Resistance</b>				<b>S</b>	<b>S</b>																
<b>Temperature</b>				<b>S</b>	<b>S</b>	<b>S</b>	<b>S</b>												<b>S</b>		
<b>Sonic Full Wave</b>												<b>S</b>	<b>S</b>								
<b>X - Y Caliper</b>														<b>S</b>							<b>S</b>
<b>Sensors</b>	<a href="#">901132</a>	<a href="#">902221</a>	<a href="#">902221</a>	<a href="#">902221</a>	<a href="#">902221</a>	<a href="#">902221</a>	<a href="#">902221</a>	<a href="#">902221</a>	<a href="#">902221</a>	<a href="#">902221</a>	<a href="#">902221</a>	<a href="#">902221</a>	<a href="#">902221</a>	<a href="#">902221</a>	<a href="#">902221</a>	<a href="#">902221</a>	<a href="#">902221</a>	<a href="#">902221</a>	<a href="#">902221</a>	<a href="#">902221</a>	<a href="#">902221</a>
	<b>Model Number</b>																				

**Legend: S=Standard O=Optional**  
**Click on the Model Number for more information**

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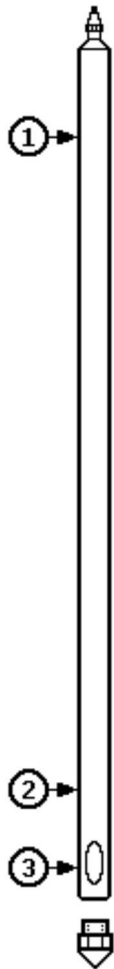
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## 9058 Logging Tool

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### Natural Gamma, Neutron (Deviation Option)

### Product Description



#### Background Information

The Natural Gamma, Neutron logging tool is designed for open and cased hole use. In open holes the neutron log may be converted to porosity units based on a limestone, sandstone or dolomite matrix. The tool's small diameter makes it useful for logging Natural Gamma and Neutron through drill rods in cases where the hole is too unstable to be logged open hole. Natural Gamma, X-Y Inclinometers and Azimuth are optional.

Features		
Properties Measured (see diagram)		Tool Specifications
<b>1. Natural Gamma:</b> 2.2 x 102 mm (0.875 x 4.0 in.) NAI Scintillation Offset: 13.5 cm (5.3 in.)	<b>3. Temperature</b> Offset: 220.4 cm (86.8 in.)	<b>Length:</b> 243 cm (96 in.) <b>Temperature:</b> 80 C (176 F) <b>Diameter:</b> 42 mm (1.625 in.) <b>Pressure:</b> 292 kg/cm <sup>2</sup> (4000 PSI) <b>Weight:</b> 12.0 kg (25 lb.) <b>Logging Speed:</b> 9 m/min. (30 ft./min.) <b>Tool Voltage Required:</b> 36 VDC
<b>2. Neutron-Neutron</b> He <sup>3</sup> Detector 25.4 mm x 152 mm (1 in. x 6 in.) Offset: 217.5 cm (85.6 in.)	<b>4. Slant Angle &amp; Azimuth:</b> 3-axis magnetimeter and 2-axis inclinometer Offset: 213.3 cm (84 in.)	
Sensor Response Ranges		
Sensor	Response Limits	Accuracy
Natural Gamma (NG)	0-400,000 API units	+/-5%
Temperature (TEMP)	0 C to 70 C (32 to 160 F)	+/-5%
Neutron, Neutron (NN)	0 - 2000 API	+/-5%
X - Y Inclination (XYI)	0 to 45 degrees	+/-0.5 degrees
Azimuth (AZ)	0 to 360 degrees	+/-2 degrees
CPS to API conversion = 1.0176		
Tool Information		
Item	Model #	Part #
Tool with NG, TEMP, NN	8058	338000
Add XYI, AZ	9058	338000
Source w/Shield Am 241 Be		109901
Source Handling Tool		101501
Deviation Calibration Test Stand		317420

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