

5.2 4175 Stack Series Neutron Detector Tool Subassembly

This tool sub of the 4000 Stack Tools Series records the neutron porosity of the formation, short and long neutron counts. It must be used with the 4000 Stack Gamma Ray Tool Sub, which provides the needed telemetry. It is compatible with the 4239 Stack Density Tool Sub.

Tool Specifications

Length: 194.1cm Temperature: 85°C Diameter: 6.35cm Pressure: 232kg/cc Weight: 28.8kg

Logging Speed: 9m/min.

Features

1. Neutron Detector, Far Spacing: He3 5.1 x 25.4 cm, 61cm spacing
 Sensor
 Response Limits
 Accuracy

 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%

- 2. Neutron Detector, Near Spacing: He3 2.9 x 10.1 cm, 32.4 cm spacing
- 3. Neutron Porosity:
- 4. Radioactive Source:
- 5. Ci AmBe 241 neutron source, bullplug