

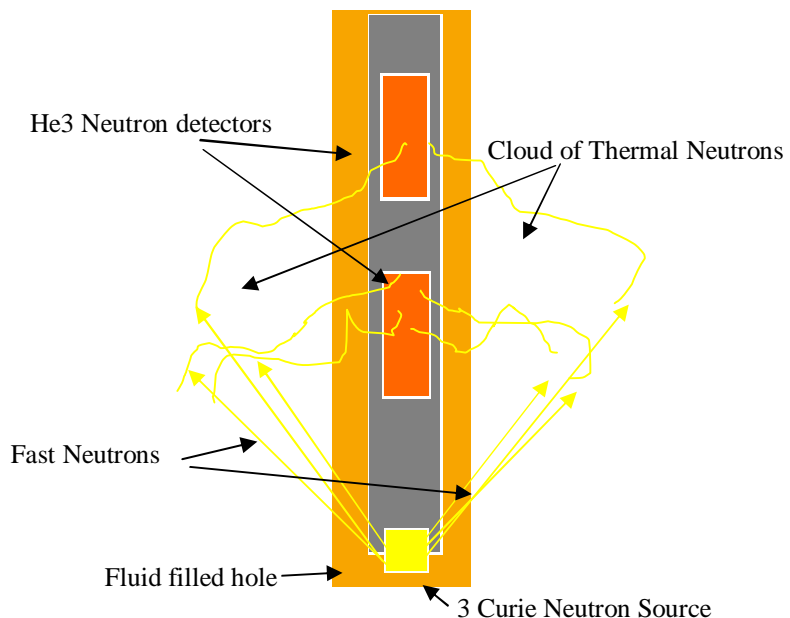
Geovista Compensated Neutron Tool



This tool is able to determine quantitative formation porosity measurements in open or uncased holes. The tool uses a 3-curie neutron source that emits Fast Neutrons, after interaction with the formation the Fast Neutrons are slowed to Thermal neutrons that can be detected by two Helium-3 detectors located 20cm (near) and 32cm(far)from the source. The Fast Neutrons are slowed much more effectively by Hydrogen as the Neutron and Hydrogen nucleus, a proton, are of the same mass. Neutron interactions with other larger atoms are more elastic, resulting in less energy transfer. Therefore with the tool sensitive to Hydrogen it can be used to determine water content(H₂O). Porosity values can be determine by way of the ratio of the Near and Far detector count rates.



Compensated Neutron tool



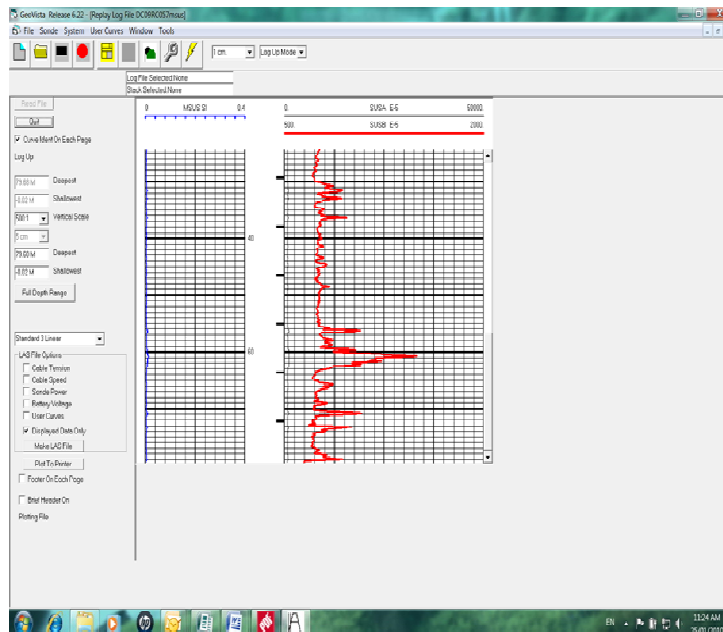
Peter Bowman
Operations Manager
ABIM Solutions
130 Fauntleroy Avenue, Redcliffe
WA 6104
Mob: +61 4577 57194
pbowman@abims.com.au
www.abims.com.au

Geovista Compensated Neutron Tool



Specifications:

Length/Weight/Diameter:	1.67m/23.0Kg/60mm
Detectors:	2 * He3 counters
Detector Spacing:	Near 20cm, Far 32cm
Radioactive Source :	3 Ci 241Am-Be
Maximum Temperature:	80°C
Maximum Pressure:	20MPa



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