

MURDOCH GEOPHYSICS - INFORMATION ON LOGGING TOOLS(a) Single Point Resistivity/SP Tool (Single Pass)

Company of Manufacture - S.I.E. Brisbane

Ranges Available: Resistivity (ohms) :- 25, 50, 100, 250, 500, 1000.

: SP :- Positive or negative deflection.

Maximum deflections (mV) :- 25, 50, 100, 250, 500, 1000.

Detection Method (Resistivity) :- Surface voltage pick-up with constant current output from tool.

Diameter :- 3.3 cm.

Length :- 0.34 metres.

(b) Gamma Tool (Single Pass)

Company of Manufacture - S.I.E. Brisbane.

Ranges Available: 25, 50, 100, 250, 500, 1000, 2500, 5000, 10000, 25000 count/second (CPS).

Time Constants Available :- 0.5, 1, 2, 5, 10 sec.

Detection Method - Scintillation method consisting of Sodium Iodide crystal coupled with a photo-multiplier tube.

Crystal size :- 1.9 cm diameter x 2.5 long (7.1 cm<sup>3</sup>)

Diameter :- 3.5 cm.

Length :- 1.095 metres.

(c) Gamma Gamma Density (Side Wall) (Single Pass)

Company of Manufacture - S.I.E. Brisbane

Ranges Available - 25, 50, 100, 250, 500, 1000, 2500, 5000, 10000, 2500, 50000, CPS.

Time Constants Available - 0.5, 1, 2, 5, 10 sec.

Detection Method - Scintillation method consisting of Sodium Iodide crystal coupled with a photomultiplier.

Crystal Size - 1.9 cm diameter x 2.5 cm long (7.1 cm<sup>3</sup>)

Source - Collimated Cesium (Cs) 137.

Source Strengths Available - 10 millicurie & 50 millicurie.

Source-Detector Spacings Available - 20 cm (BRD), 30 cm, 35 cm, 45 cm.

Diameter - 3.5 cm (no spring); 6.0 cm (with spring).

Length (BRD spacing) - 1.26 metres.