

GEOLOGGER-GWS SYSTEM**GW COMBINATION LOG**

GW combination Probe
Model-3493

<Abstract>

The Geologger-GWS has been designed to provide simultaneous execution of Natural gamma log and electric log through its GW Combination Probe (Model-3493).

Natural gamma log and electric log are very useful means for groundwater survey because these logs can discriminate between permeable layers such as gravel layer and sandstone layer, high in percentage of porosity, and impermeable layers such as clay and shale layers. Porosity is presented by intensity of resistivity. Impermeability closely relates to the volume of clay contained in a layer, and the higher the potassium (k) content in the clay is, the higher the Natural gamma ray intensity is.

<Features>

- For water well loggings, both Electric log and Natural gamma log are those required for evaluation of water bearing layers.
- GW combination log is of combination type, and its single probe is able to conduct these logging simultaneously.
- With its easily settable measurement by 'Menu-driven operation' and 'Auto-ranging', it facilitates anyone to utilize the same.
- The measurement items are four, composed of Normal resistivity for 16" and 64" spacing, SP and Natural gamma by one logging run.

<Specifications>

● GW Combination Probe, Model-3493

Natural gamma

Detector : NaI (Tl)
Size : 1/2" dia. x 2" long

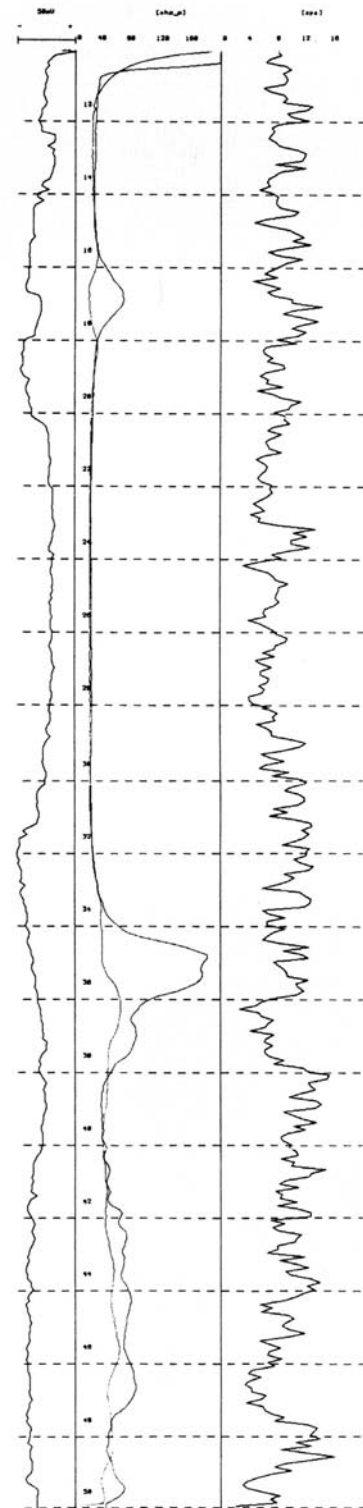
Normal resistivity

Spacing : 16" and 64"
Electrode : stainless steel

SP : common with potential
electrode for 16" spacing

Physical : 40 mm dia. x 170cm, 6.1kg

FIELD : GAMMA :RED
ID NO. :001 SHORT NORMAL:BLUE
DATE 16 SEP 88 LONG NORMAL :GREEN
TIME 10:29:37 AM SP :BLACK



<Applications>

- Evaluation of producibility for the water well.
- Determination of optimal location of screen in tubewell design.
- Investigating the strata in ground water field,
- Checking the salinity of ground water.