THE USE OF ERT FOR THE CHARACTERIZATION OF A THERMAL KARSTIC AQUIFER

This is a case history on an ERT survey in a karstic aquifer characterized by the presence of thermal water having a temperature > 35°C.

The aim of this survey was to define the best position of a well for exploiting thermal water, in order to restore the old thermal bath.

ERT was used to define:
- The depth and the morphology of the carbonatic bedrock
- Different aquifer features
- Thermal water concentration

The positioning of the well defined by the ERT survey result was successful. Thermal data logging agreed with the ERT model.

Fig. 1 - The model of the Mf-e07-01 line, with the limestone supposed saturated with thermal water.

REFERENCES


Loke M. H., 1999, Electrical imaging survey for environmental and engineering studies, www.geoelectrical.com