

IDENTIFICATION OF A QUARZITE BODY FOR THE OPENING OF A NEW QUARRY MULTI ELECTRODE GEOELECTRICAL METHOD

Project:

Location and volume estimation of a quartzite rock body – Martiniana Po (CN) - 2007.

Survey method:

Multi electrode geoelectrical method (lines up to 72 elettrodi, with regular spacing between electrodes of 3 and 5 m)

Scope of the survey:

- Evaluation of the underground prolongation of a quartzite body (outcropping on the surface, with schist rock at the top and at the bottom of the layer)
- Evaluate the volume of the quartzite body, for the feasibility estimation of the opening of a quarry
- Evaluate the thickness of the upper schist rock, to evaluate the depth of excavation and the volume of the waste rock

Obtained results:

- Identification and location of two quartzite bodies at two different levels
- Selection of the more shallow quartzite body for the quarry opening, because of the thin schist coverage (ease of excavation, reduced volume of waste rock)

