

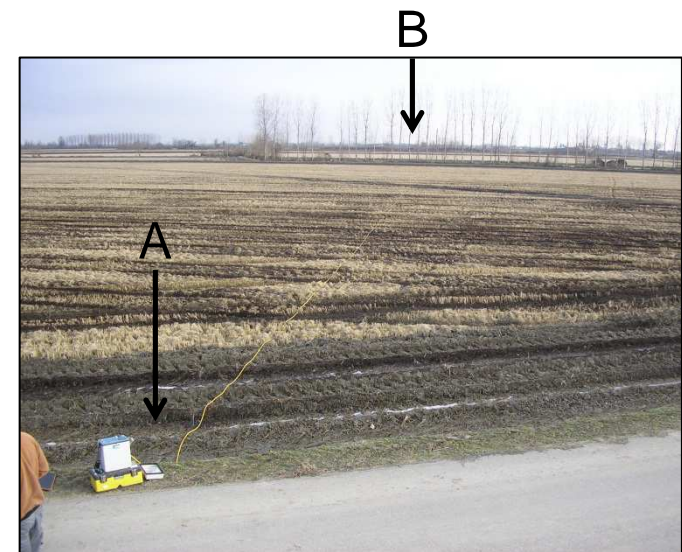
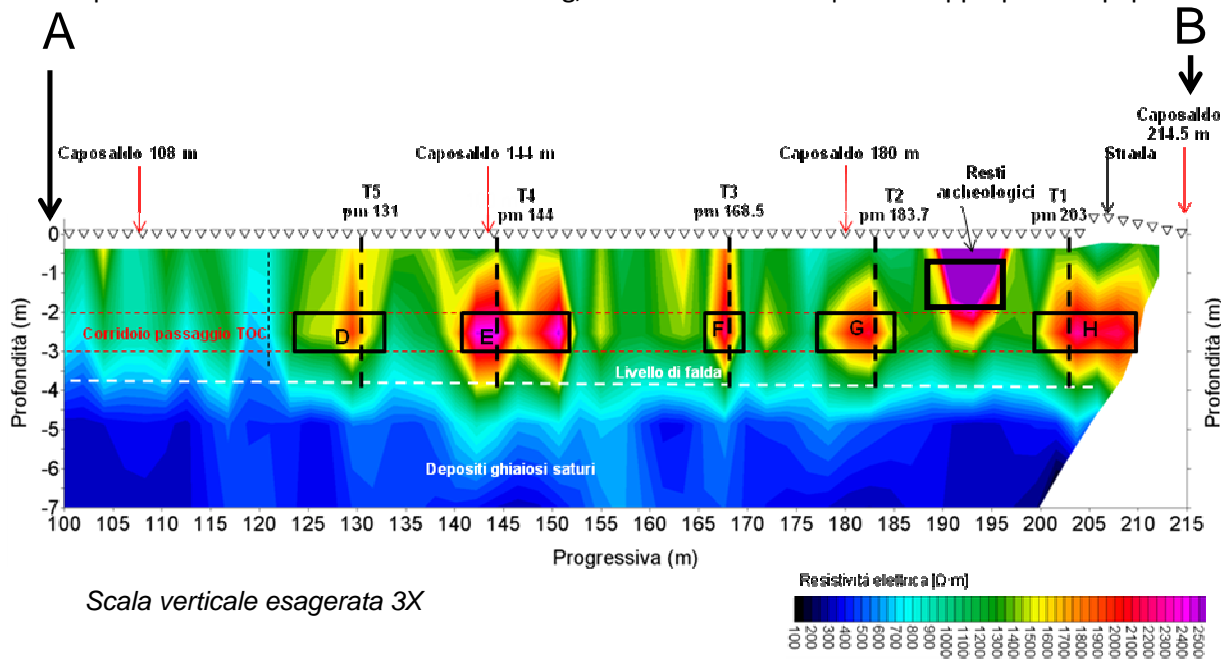
GEOLOGICAL PREDICTION FOR DIRECTIONAL DRILLING GEOELECTRICAL METHOD

The directional drilling (TOC) - generally used for the trenchless laying of pipes or cables - are intended to avoid interference with underground utilities or structures or, in general, to by-pass streams, roads, railways, etc..

The major problem related to the directional drilling concerns the prediction of geological features along the route. In the case below (related to the bypass of an archaeological site for the laying of a gas pipeline) we have used high-resolution geoelectrical method (large number of electrodes and small spacing between them).

The survey results showed the presence of lenses with pebbles and boulders in some sections of the excavation (digging difficult sections, parts D, E, F, G and H of the lower section).

The prediction of difficult sections for drilling, has enabled the adoption of appropriate equipment.



Progetto: posa gasdotto MOMO (Novara – Italia)
Committente: CIL Guatelli SpA (Aprile 2010)

Tratto	Progressiva metrica	Note
D	Da 123 a 132	Tratto esteso con ciottoli/trovanti prevalenti
E	Da 140 a 153	Tratto esteso con ciottoli/trovanti prevalenti
F	Da 166 a 168	Tratto con ciottoli/trovanti prevalenti
G	Da 177 a 185	Tratto con ciottoli/trovanti prevalenti
H	Da 199 a 210	Tratto esteso con ciottoli/trovanti prevalenti