



SENEGAL
West Africa



Mineral Exploration Case Study

Design of ground geophysical programme

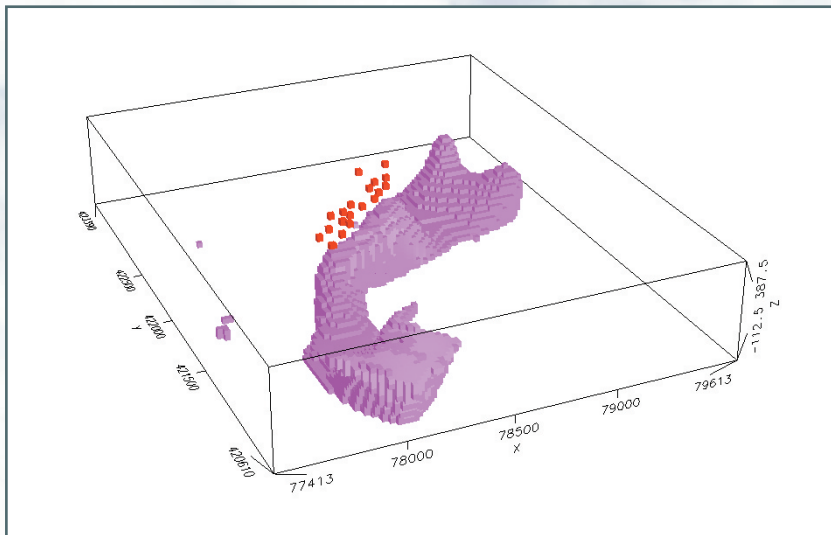
In 2012, Arrow Geophysics was commissioned to design and coordinate a ground geophysical programme across gold mineralisation identified from geochemical sampling in Eastern Senegal.

The aim of the ground geophysical programme was to improve the interpretation of drilling results across the central deposit, and to determine possible extensions to the mineralisation along strike, at a fraction of the cost of additional drilling.

Time-domain IP, total field magnetic survey, and magnetic susceptibility core logging were included in the work programme.



Ground magnetometer field work across challenging terrain



Geophysical model showing distribution of gold mineralisation

After the survey design phase, field activities included:

- ▶ Operator training in the use of total field magnetic survey equipment
- ▶ Quality control of the survey output from the selected IP contractor
- ▶ Troubleshooting problems with magnetic data acquisition
- ▶ Commenting on the output of the core logging pilot project and designing a robust methodology for use on all subsequent core samples

Positive results from all three elements of the geophysical programme contributed to the client's understanding of the 3D extent, geological context, and hydrothermal development of the gold mineralisation.

Arrow Geophysics combines world-class technical expertise with real-world field experience to provide pragmatic geophysical solutions to mineral exploration professionals across Africa, Europe and the Middle East.

If you would like to discuss a project similar to this case study, or to enquire about the technical and commercial benefits of geophysics for your current exploration programme, then please do not hesitate to contact us.

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