

AIT TAMELLIL (Copper) (Demnate High Atlas, Azilal Province)

Overview:

Within the framework of mining exploration programs for copper in Morocco, a control of the shows in the Azilal area was carried out, which the results highlighted Ait Tamellil's copper prospect.

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| Target name | Ait Tamellil |
| Type of mineralization | Vein mineralization |
| License coverage | 5 exploration licenses (covering 80 Km ²) |
| Available data | Geological data/ Rock samples/ Geophysics/ Drill holes |
| Grades | Up to 4,1% Cu |
| Dimensions | Length : 1.3 km / Average thickness : 4 m |
| Infrastructures | Road and high way, Electrical network. |

Geological setting and location:

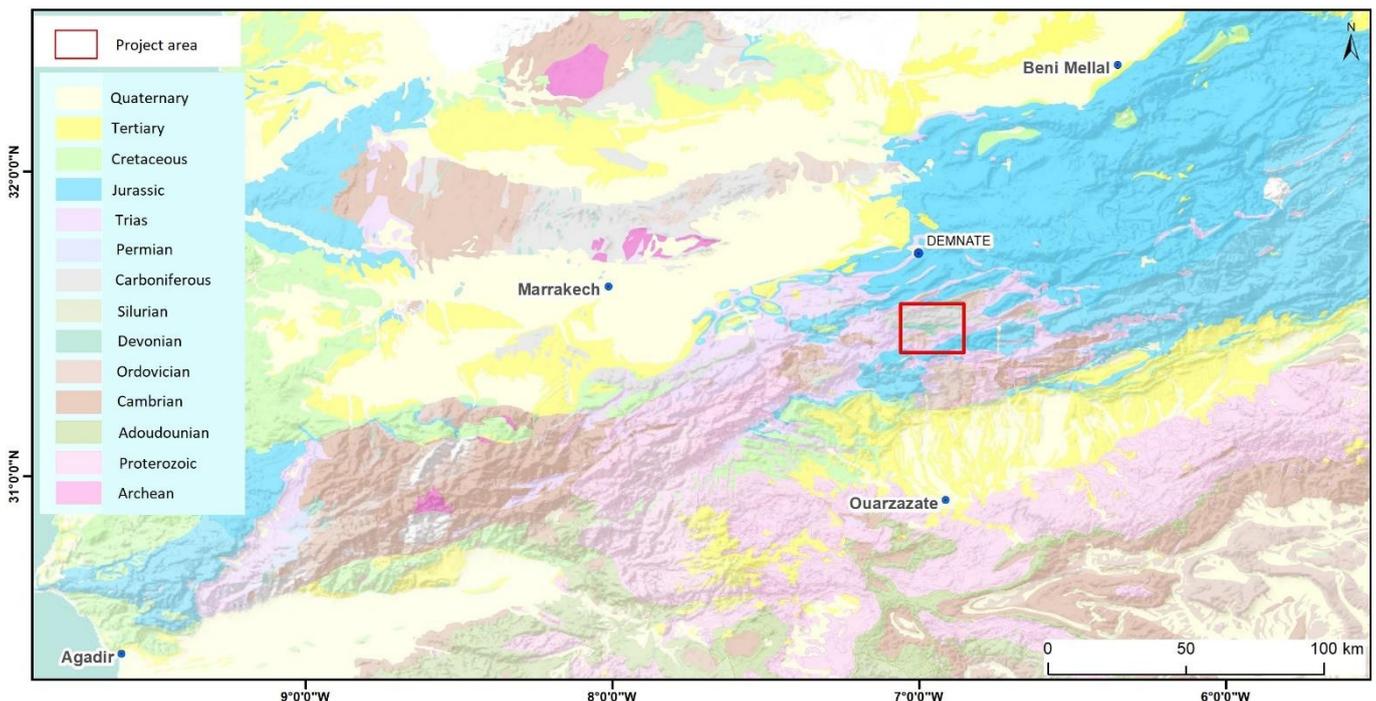
The search area is located in the Demnate region, it mainly includes the indices of El Had, Termert, Taist and Talat n'Ouslim which constitutes the prospect of Ait Tamellil.

Access to these indices, located about fifty km south of Demnate, is made by the road connecting Demnate and Ouarzazate. The area is administratively part of the province of Azilal.

Geologically, the Demnate region belongs to the Central High Atlas. It is made up of a succession of synclines and anticlines. The fairly flat synclinal

structures of dolomitic limestones from the middle and upper Lias, form vast plateaus which are not very uneven. The anticline structures are often parallel to the longitudinal accidents in the Atlas chain, they reveal the Permo-Triassic (red clays and sandstones, marl and in places of basalts) and the Paleozoic in the form of inliers (shales with sandstone benches).

This region is generally known by mineralization of the cupro-barytic vein type hosted in the various formations.



Location and geology of Ait Tamellil Area

Mineralization:

The vein-type El Had prospect is related to faulty contact between Paleozoic sediments and permo-triassic sediments.

The central and western part of the vein is in the form of ankerite mixed in the majority with a quartz material and veins of white calcite. In the eastern part, the vein forms hard black escarpments (hematite).

The mineralization occurs in veneers (malachite, azurite), disseminated and / or veinlets (pyrite and chalcopyrite).

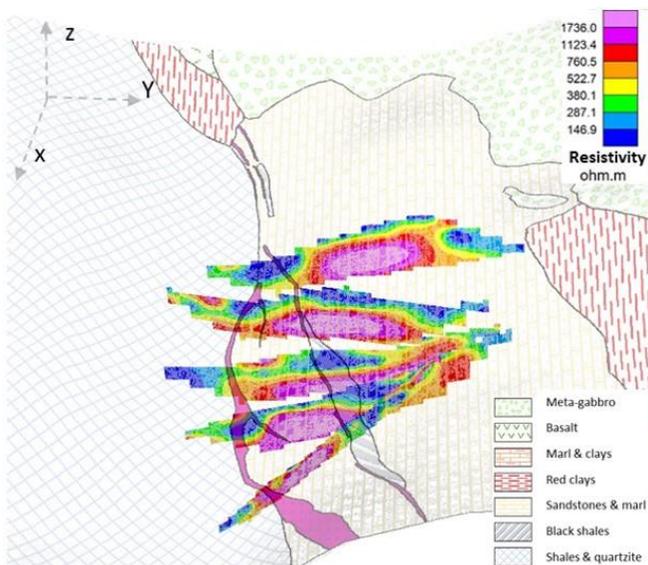
Sometimes the mineralization diffuses and is found either in the marly sandstones of the Permo-Triassic, or at the level of the Ordovician shales.



Spotted chalcopyrite in ankerite

Achieved Works and results:

The Ait Tamellil's prospect has been the subject of geological, geophysical and drilling work. A detailed geological survey has been carried out. Chemical analyzes show encouraging copper grades of around 1.21% Cu over a thickness of 5 m (including 4.11% Cu over 1 m).



3D modelling of resistivity profiles

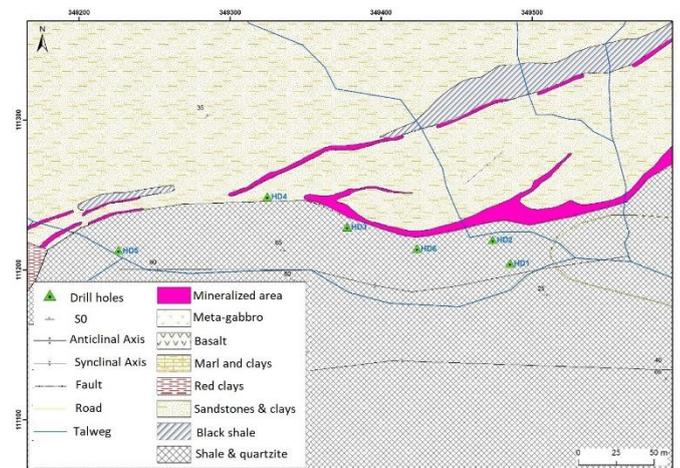
A geophysical survey by magnetometry and resistivity was carried out.

It shows that the vein structure studied occurs at the level of shale / sandstone contact on certain profiles. This moderately polarizable structure is rooted up to a maximum depth of 70 m.

A campaign of 6 drill holes was carried out for a 400 m length. The holes crossed a brecciated zone with elements of quartz and / or calcite with elements of the hosted rocks. This zone is mineralized in disseminated pyrite, chalcopyrite, sometimes we find malachite and azurite.

The mineralized passes are intersected at varying depths from drill hole to other.

The results show grades that cap 5.8% Cu on 3.10 m of thickness (HD4 drill hole).



Drill holes carried out in the El Had area



Sulphide mineralization in HD4 drill hole

Outlook:

The work carried out by ONHYM in the Demnate area highlighted copper mineralization in the El Had prospect. Following the encouraging results, this prospect will be the subject of other additional detailed work, namely reconnaissance trenches, litho-geochemical surveys and core drilling to identify its mining potential.

For more information, please contact

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