

TAFRENT (Au) (CENTRAL ANTI ATLAS, MOROCCO)

Overview

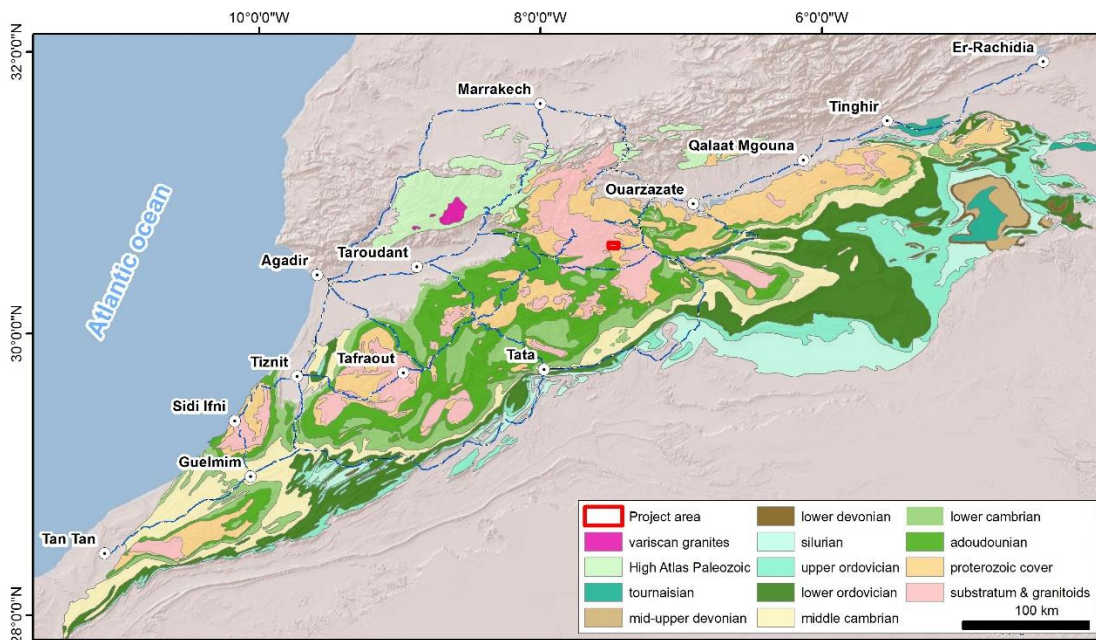
Located in the central Anti-Atlas, The Tafrent gold deposit is consisting of disseminated gold hosted in the Neoproterozoic greenstones with grade reaching up to 8,8 g/T. Gold is essentially free and is easily recoverable by cyanidation with a recuperation rate of 91, 4%. This ore deposit is suitable for an open pit exploitation.

Target name	Tafrent
Type of mineralization	hydrothermal
Licence coverage	1 exploitation licence covering an area of 25 km ²
Available data	Geological data/ Surface and drills rock analysis/ Resource
Grades	Up to 8,8 g/T Au
Dimensions	Length : 2 Km / Roofing : 300 m / Average thickness : 4m
Resources	6.1 Million tons with an average grade of 1.18 g / t Au
Infrastructures	Roads, Electrical network.

Geological setting and location

The Tafrent gold deposit is located south of the Sirwa massif in the Central Anti-Atlas. It is accessible by 30 km of a secondary road, linked to the main national road connecting the cities of Ouarzazate and Taznakht. The nearest port is located at 270 km in Agadir city.

This gold deposit is situated in the western extension of the anti- atlasic Major Fault separating the Panafrican and the Eburnian domains of the Anti-Atlas. The dominant geological formations relate to the lower Neoproterozoic in which two synchronous series are distinguished: The first is of ophiolitic nature; composed of cumulates, dolerite dykes and an effusive series (basalts, basic tuffs and brecciated pyroclastics). The second one is formed by a volcano-sedimentary series constituted of metapelites, limestones, basic sills and albitic tuffs. The sector is crossed by trending faults N110° to N130° corresponding to the major accident of the Anti-Atlas.



Location and geology of Tafrent Project

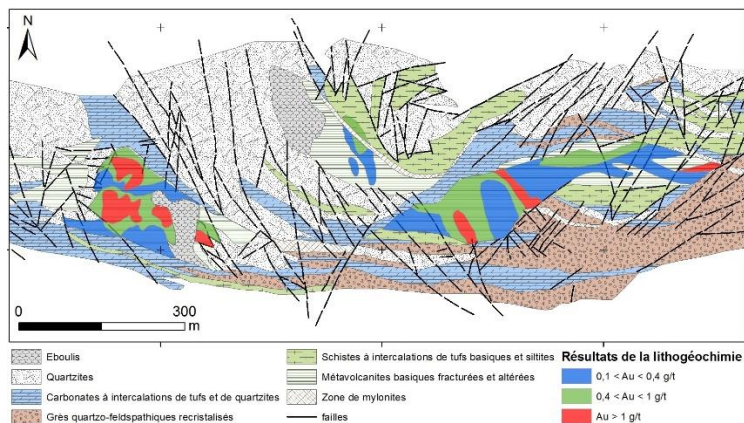
Mineralization

The mineralization in Tafrent is represented by quartz lenses hosted in metavulcanites intensively fractured with hydrothermal alteration characterized by pyritization, chloritization and carbonation, over 2 km long and 100 to 200 m large. The mineral association is constituted of pyrite, chalcopyrite, arsenopyrite, pyrrhotite, sphalerite and native gold which is either included in pyrite or free in quartz with dimensions varying from 15 to 250 microns.

Achieved Works and results

The Tafrent gold deposit has been discovered in 1994 by ex BRPM. Since, geological, geochemistry works and drillholes campaigns have been achieved in the area.

The geological detailed mapping shows that the gold mineralization is hosted in the metavulcanites that have been systematically investigated by 1320 litho-geochemistry samples with a mesh of 20x20m and 20x40m. The mineralized zones circumscribed by the surface litho-geochemistry sampling presents gold grades varying between 0,1 and 4,8 g/t.

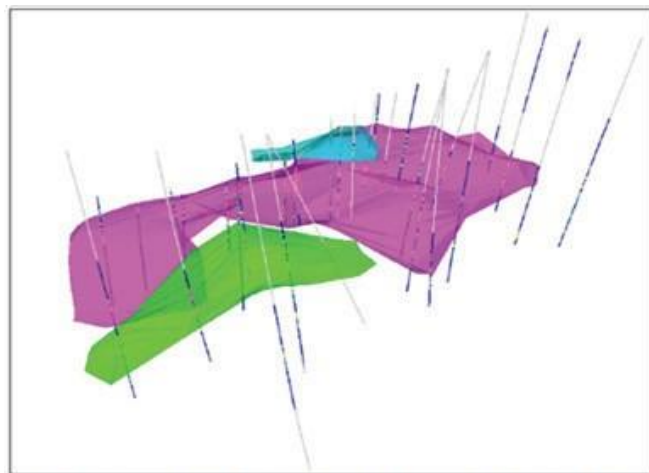


Geological map and litho-geochemistry results of the Tafrent deposit

A campaign of 50 cored drill holes totalizing 9294m has been executed. The analysis of drill core samples gave gold grades varying between 0,5 and 8,8 g/t with a thickness ranging from some meters to tens of meters.

Resources: The evaluation of resources gave 6.1 Million tons with an average grade of 1.18 g / t Au and a cut-off grade of 0.8 g / t. The deposit is divided into three solids:

- (i) The upper part with relatively high grade;
- (ii) The main part, relatively low grade;
- (iii) In the lower part with average grade.



Mineralisation within the Central Zone (Domains 1 (Main - pink), 2 (Lower - green) and 3 (Upper - blue) - view towards southwest)

Metallurgical test: Preg-robbing tests showed that the composite oxide sample had significant preg-robbing characteristics. The gold dissolutions were 74.4% and 91.4%. The crushability tests indicate that there is a slight advantage with a composite sample of oxide of finer grain size. The grinding size of 80% passing 75 µm was chosen as optimum. Gold dissolutions ranged from 83.0% to 91.4%.

Outlook

In order to expand the gold resources, exploration works will continue laterally to the west along the major accident of the anti-atlas.

For more information, please contact

Ms. Amina BENKHADRA
General Manager

5, Avenue Moulay Hassan- BP 99 - Rabat, Maroc

Tél: + 212 5 37 23 98 98

Fax: + 212 5 37 70 94 11

E-mail: benkhadra@onhym.com

Web site: www.onhym.com