

## AGHRACHA, AWHIFRITE, AWARK, LAMLIYSSA (U, REE) (SOUTHERN PROVINCES – MOROCCO)

### Overview :

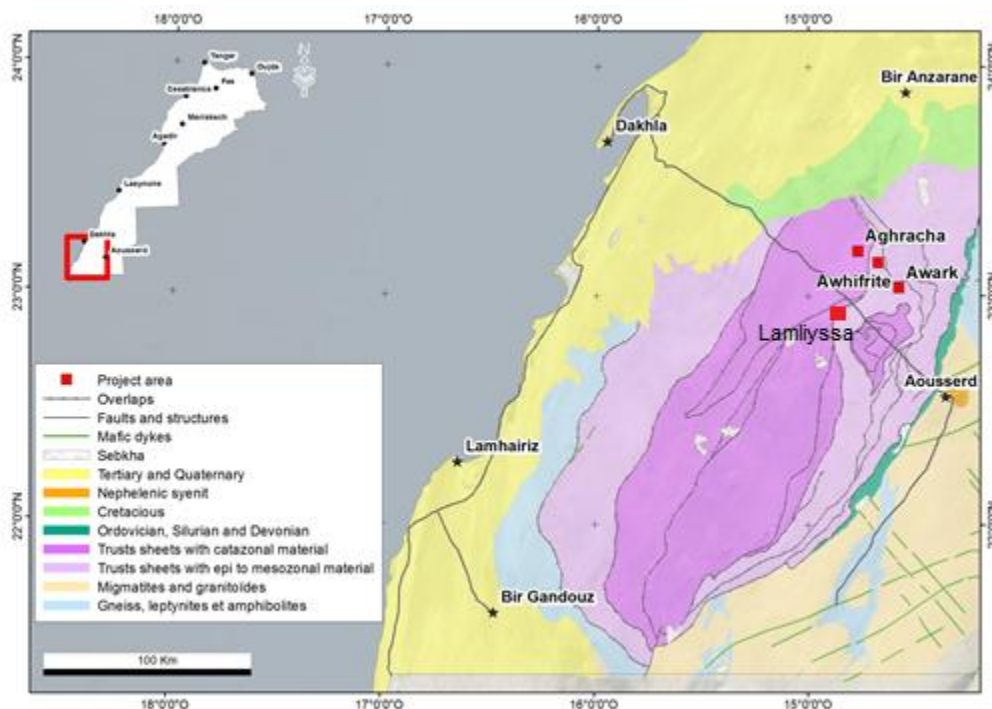
The Aghracha, Awhifrite Awark and Lamliyssa prospects are located in the Mauritanide belt, in the southern part of Morocco; they form a part of the overall prospects for uranium and rare earth elements that have been identified from the geological control of the geophysics airborne survey. The mineralized zone is located in favourable geological context essentially composed with carbonatite dykes, and epidote pegmatites rocks.

Target name	Aghracha , Awhifrite, Awark & Lamliyssa
Type of mineralization	Vein and Surficial type
Licence coverage	reserved area and 10 mining permits
Available data	Geological data/ chemical analysis/ Geochemical/ Geophysics
Grades	3,8% REE, 800 ppm U <sub>3</sub> O <sub>8</sub>
Dimensions	Length : 6 km / Rooting : 120 m / Average thickness : 5 m

### Geological setting and location :

The prospects are located in the Aousserd region on the 1:100,000 topographic map sheet of Madnat Aghracha and Hassi Latitabiyine, at 180 km South-East of the Dakhla city. Geological formations in the southern provinces shows two distinctive blocks:

- A stable and autochthon oriental Archean block part of the West African shield;
- An allochton western bloc constituted by epizonal, mesozonal or catazonal thrust sheets formed during the Hercynian orogeny. The age of the geological formations of the block, stretched NNE-SSW, ranged between Archean and Paleozoic.



Location and geology of Aghracha , awhifrite, awark and Lamliyssa

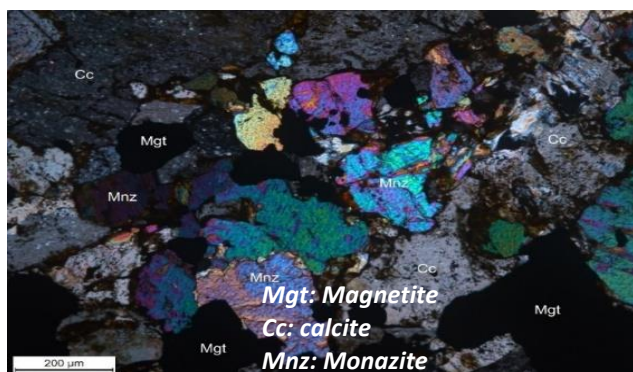
## Mineralization :

In Aghracha, the mineralization consists of carnotite hosted in placer deposit formed essentially by calcrete all along paleo-channels. The most important deposit extends over a length of more than 5 km.

While in Awhifrite and Awark prospects, the mineralization is hosted basically by magmatic rocks (epidote pegmatites) associated with REE minerals.



Carnotite observed in the area



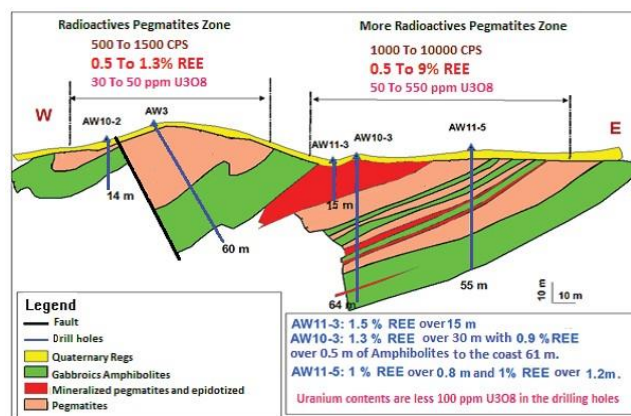
Lameliyssa Monazites observed by scanning microscope

## Achieved Works and results :

The prospects were identified from the control of the airborne survey anomalies by ONHYM, works carried out under this program were: (i) Airborne geophysical survey (magnetic and radiometric); (ii) Campaigns of Geochemistry; (iii) Geophysical prospection using magnetic and gravimetry survey; (iv) Geological studies; (v) drill holes; (vi) Resources estimation.

In Aghracha project, an estimation of uranium resources in calcrete carnotite gives about 35 million tons at 143 ppm U<sub>3</sub>O<sub>8</sub> with an average thickness of 1.35 m, or 11.1 Mlbs U<sub>3</sub>O<sub>8</sub>. For the magmatic complex of Awhifrite, A core-drilling program was made to recognize this mineralization. They all intersected the epidotized pegmatites and some showed encouraging results. The drill holes intersected the mineralization of rare earth elements in a depth lower than 50 m with

average grade of REE ranging 1.3%, 1.5%, 1.9%, 2.6%, 2.8%, 3% and 5.6% with respective thickness of 25 m, 15 m, 5 m, 4.3 m, 4 m, 3 m and 1.3 m.



Moreover, one drill hole with 0.73% Cr + Ni intersected a gabbroic intrusive sub - outcropping over a thickness of 11 m. Rock chip samples collected in Awark project shows REE grade ranging from 1% to 12% LREE and for Uranium arise up to 1000 ppm U. The ground geophisic survey (magnetic and gravimetry) allowed to define a gravimetric structure oriented N45° similar to the main structure of Awhifrite prospect. According to these results, 10 holes were drilled there. They intercepted the mineralization of REE-allanite on thicknesses of 3.2m, 1.7m, 0.8m and 0.3m and with respective REE contents of 1.41%, 1.76%, 3.12% and 2.26%.

The rest of the work highlighted the Lameliyssa prospect with rare earths linked to the monazites. 09 holes were drilled there, the results are in progress.

## Outlook :

The presence of several similar anomalies in the other areas, which opens new perspectives mainly in the eastern and the southern area of the sector. The exploration works, will continue to control other airborne radiometric anomalies.

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