

TWIHINATE AND LAMLAGA ANNULAR STRUCTURES (REE, Nb, FE, U) (SOUTH PROVINCES, MOROCCO)

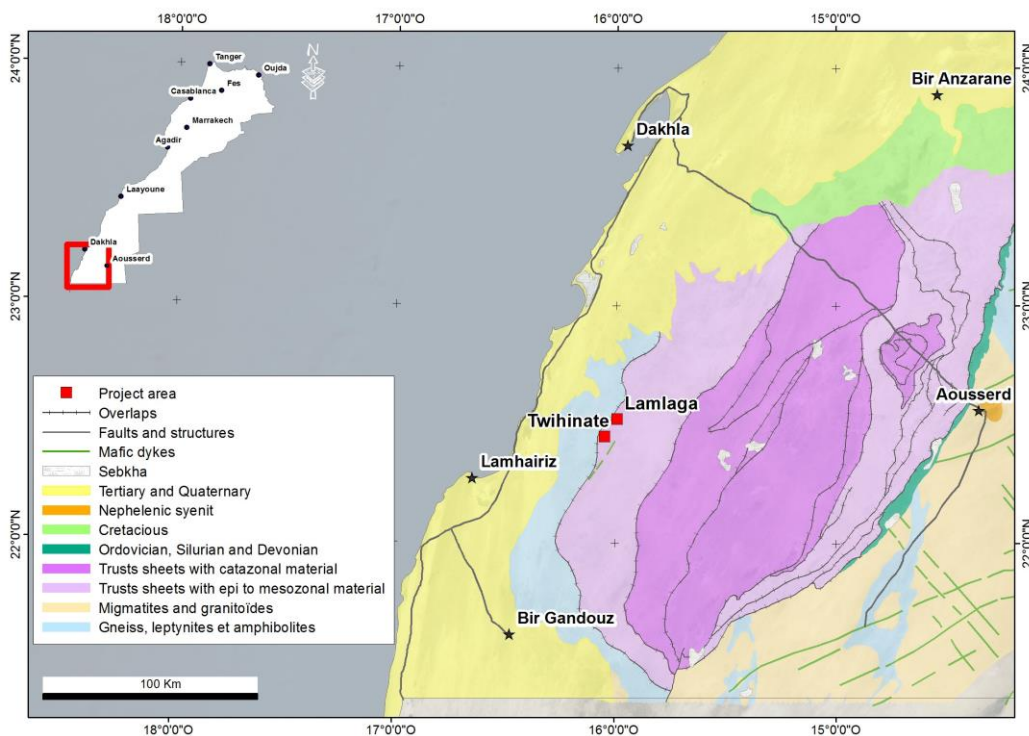
Overview :

Twihinate and Lamlaga are annular volcanic Mega structures of breccia silica, iron oxides and carbonatites, linked to magnetic and radiometric anomaly. The mineralization appears as high grade of REE, Niobium, Iron with indicial grades of V, Au and Mo in Lamlaga. They have a plurikilometric extension and they constitute a prospect which could be a world class deposit for Niobium, REE and Iron.

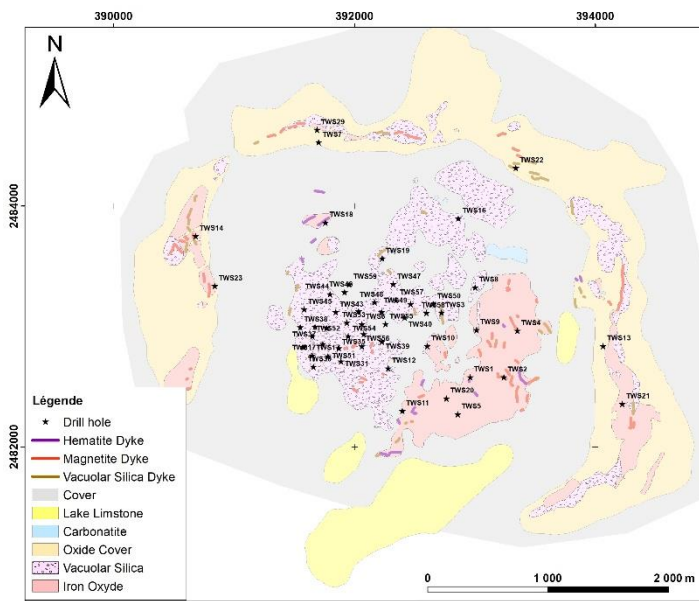
Target name	Twihinate	Lamlaga
Type of mineralization	REE, Nb, Fe, U	REE, Nb, Fe, V, Au, Mo
Licence coverage	Area reserved to ONHYM by the Ministry of Mines	
Available data	Geophysical data	
	Geochemical data	
	Geological data	
	Drilling data (50 drill holes totaling 6 415,15 m)	Drilling data (21 drill holes totaling 3 735 m)
Grades	0,7% REE and 0,37% Nb ₂ O ₅	0,64% REE and 0,28 Nb ₂ O ₅
Dimensions	Extension : kilometric - Thickness : 10 to 207 m	Extension : kilometric - Thickness : 16 to 153 m
Resources	584.5 million tonnes	618 million tonnes
Infrastructures	Road and Dakhla seaport to 210 km	

Geological setting and location:

The prospect of Twihinate and Lamlaga are located 260 km south of the city of Dakhla, including 210 km of roads and 50 km of tracks, in the 1/100 000 topographic sheet of Mzayzat As-Sakkoum. These volcanic structures include a main body (composed of breccia silica and iron oxides) and a peripheral ring (composed of iron oxides and quartz) that surrounds it.



Location and general geological setting of Twihinate and Lamlaga



Geological map of Twihinate and location of drill holes

Achieved Works and results :

The result of this drill holes shows that mineralization exists both in iron oxides and argillised zone. The preliminary resource estimates, taking into account the results of the four drill holes surveys are of the order of :

584.5 million tonnes with an average grade of 0.7% REE, 0.37% Nb₂O₅ and 193 ppm U₃O₈ ; which enclose resources of 216.2 million tonnes at 1.25% REE and 0.34% Nb₂O₅, on thicknesses varying from 10 to 207 m. This estimate is based on 28 drill holes totaling 4 545.95 m. The final estimate will be made after integrating the results of the 22 additional drill holes totaling 1 885.20 m.

Several drill holes in the periphery show significant grades of Mo and Au in the periphery's holes. In Lamlaga structure, four drill holes surveys totaling 3 735 m were undertaken to explore this prospect. All these surveys have crossed the mineralized structures.

A resource estimates, taking into account all the results, shows a potential of at about 618 million tonnes at 0.64% REE and 0.28% Nb₂O₅, however, we can define an area in the center

with resources of approximately 46 million tonnes with 0.95% REE, 0.12% Nb₂O₅; on thicknesses varying from 16 to 153 m. The drill holes LMS9, LMS16, and LMS17 LMS18, made on the peripheral ring, show a molybdenum mineralization with grades ranging between 100 and 1 000 ppm MoO₂, with a thickness of 20 to 100 m, and local grade of gold up to 2.7 ppm on metrical thickness.

Perspectives :

The perspectives and the potentialities of the sector are important by:

- the importance of the area showing higher value on niobium, REE and iron oxides in the central body and on the peripheral ring ;
- the existence of others geophysical anomalies in the immediate vicinity of the annular structures of Twihinate and Lamlaga ;
- the dimensions of outcropping facies of the structures ;
- The continuity of the prospect of Twihinate under the quaternary cover and outside of the peripheral ring ;
- continuity of the Lamlaga prospect under the intermediate depression (drill hole n° 8 crossed over 100 m of siliceous breccia under the recent cover) ;
- the presence of Mo and Au mineralization at the periphery of the annular structures of Twihinate and Lamlaga.

For more information, please contact Ms.

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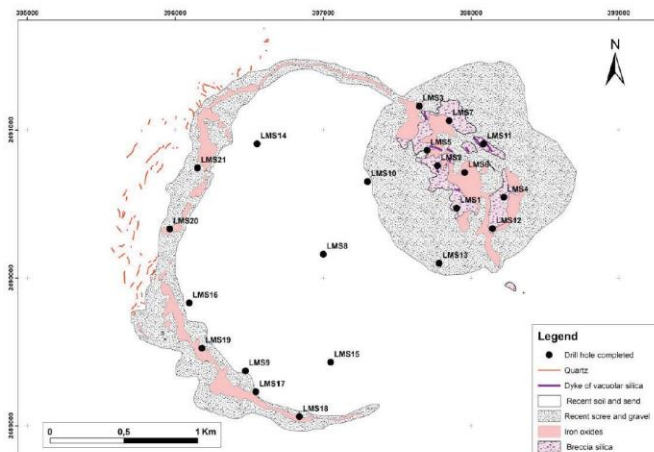
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Geological map of Lamlaga and location of drill holes