

GM 02251

RESULTS OF THE MAGNETIC SURVEY

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Énergie et Ressources
naturelles

Québec 

KOULOMZINE, GEOFFROY & Co.

SUCCESSORS TO TECHNI-COUNSEL LIMITED
GEOPHYSICAL AND GEOLOGICAL PROSPECTING

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VAL D'OR, QUE. April 10, 1953.

Results of the Magnetic Survey
of Part of the
Celta Development & Mining Company Limited
Property

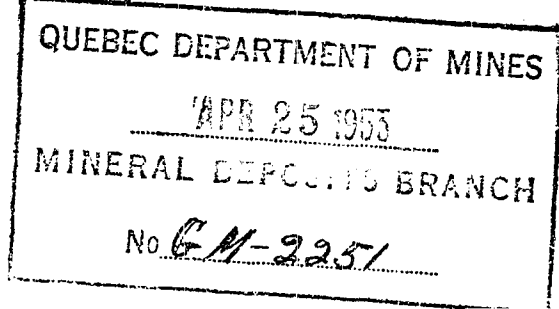
Barraute & Fiedmont Twps.-N.W. Quebec

January 1952.

Our survey covered the southern half of lots 41 & 42, ^{Part I} Barraute township and the entire area of lots 41 & 42, Range X, Fiedmont township. The aim of the survey was to compare the structural conditions existing on Celta claims to those obtaining on the adjacent Mogador property where a precious and base metal deposit has been recently found. No rock outcrop has yet been found on the Celta holdings.

Geological information gathered on the neighbouring properties establishes that the area is affected by a structural trough which, in range X, Fiedmont, and ranges I and II, Barraute, extends from lot 28 to lot 40. It strikes N-NE and forms what we previously called the "Laflamme River Fault Zone". This trough is characterized by a sort of "accordion" folding of the formations (which have a general E-SE trend) obviously caused by lateral compression. It also contains stocks and innumerable dykes of dioritic and granodioritic intrusives.

Similar conditions prevail farther to the north in the Barvue area. As a matter of fact, the Barvue deposit is located on the western edge of the trough while the Bartec ore-shoot lies on its eastern edge. Mineral deposits in the Mogador area have been found, so far, within the trough itself, where they are closely controlled by the "accordion folding" referred to above.



RESULTS OF THE SURVEY

The results are shown on the attached map which also incorporates the magnetic results of the survey carried out on Mogador and Roymont claims. It is immediately apparent that the eastern part of the map can be divided in two zones bounded by Line CC, the area located south of this dividing line being characterized by the presence of numerous large anomalies.

From what has been learned on Mogador, it may be reasonably inferred that Line CC has a structural meaning and represents a faulted contact between two different geological units. Furthermore, the shape of Line CC suggests that the eastern edge of the trough is reached on lot 40, a short distance west of the Celta property. This edge is certainly associated with intense folding and faulting as well as intrusive injections. Such conditions would readily explain the presence on Celta claims of high magnetic anomalies.

As a matter of fact, an exploratory hole drilled across the anomaly obtaining on Line 3E, station 23 south, intersected a strongly altered and fractured quartz-diorite intrusion.

The presence of large anomalies does not permit to trace accurately the contact between the magnetic formations and the non-magnetic ones prevailing farther to the north, a contact which, roughly, is represented by Line CC. However, a section drilled across that line would probably intersect the assumed contact.

CONCLUSIONS & RECOMMENDATIONS

Magnetic surveying suggests that the Celta claims cover the eastern edge of the major tectonic trough that cuts across the Barraute area and which bears a definite relation to the mineralization already found in the area.

In our opinion, this is a sufficient reason to recommend a careful and exhaustive exploration of the Celta claims which occupy a strategic location. It must be born in mind, however, that the Celta geology is definitely different from that of Mogador and that a simple extrapolation to Celta of the results obtained on Mogador is bound to be grossly misleading.

Sworn before me at VAL D'OR, P. Q.
this Thirteenth day
of April 1953.

*Certified true copy
KOULOVINE, GEOMINERALS
[Signature]*

C. S. S. S. S.
Commissioner Superior Court.
District of Abitibi