

GM 04222

GEOLOGICAL REPORT

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Énergie et Ressources
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Québec 

PUBLIC

PRELIMINARY REPORT

on

PETAWAGA MINING CORPORATION

Briand Township, Quebec

by

F. Corminboeuf, B.S.A., I.Ch., Ph.D.

June 18th, 1956.

Oka, Quebec

QUEBEC DEPARTMENT OF MINES

AUG 9 - 1956

MINERAL DEPOSITS BRANCH

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PRELIMINARY REPORT

on

PETAWAGA MINING CORPORATION

Briand Township, Quebec

LOCATION, ACCESS, AREA

The property is located in the Township of Briand electoral district of Gatineau, approximately fifty-five (55) miles North of Mont Laurier and is bisected by the Canadian International Paper Company road on the North shore of Lake Baskatong.

The property consists of approximately 3400 acres comprising claims:

C103352 ✓	Claims	1	to	5	inclusive
C89769 ✓	"	1	"	"	"
C102447 ✓	"	1	"	"	"
C102435 ✓	"	1	"	"	"
C104877 ✓	"	1	"	"	"
C102437 ✓	"	1	"	"	"
- C87178 ✓	"	1	"	"	"
- C87247 ✓	"	1	"	"	"
- C87161 ✓	"	1	"	"	"
- C87232 ✓	"	1	"	"	"
- C81592 ✓	"	1	"	"	"
- C81591 ✓	"	1	"	"	"
- C87162 ✓	"	1	"	"	"
- C87163 ✓	"	1	"	"	"
- C87179 ✓	"	1	"	"	"
- C87229 ✓	"	1	"	"	"
- C81605 ✓	"	1	"	"	"
- C81604 ✓	"	3	&	5	"

For the most part the property is wooded timber area. The hilly character of the Laurentian shield is evident here and numerous outcrops are visible along both sides of the road. Lake Petawaga is near the North Boundary.

GEOLOGY

The property is constituted of pegmatites intrusions of Laurentian or more recent rocks in the Grenvillian Series which are of the precambrian age. The general strike of the formation is in a North westerly direction with a near vertical dip. Except for the roadside, the surface is covered with glacial drift and no main contact can be observed.

During my seven days on the property I was able to examine the thirty exposures which represent thirty (30) pegmatite dykes. A few shallow pits had been blasted out and samples taken by myself and analyzed. The impression gained is that the dykes are quite extensive. The outcrop of the pegmatite showings had a width of 50 to 60 feet.

Evidence of a metamorphic contact with highly altered Grenvillian Limestone injected with Pyroxene was observed in one dyke to the southwest.

GENERAL

Analysis of the pegmatites show quantities of Uranium, Thorium, Molybdenum, Lithium and Columbium (Niobium).

Metallic Sulphides (Pyrite and Chalcopyrite) were also identified on the property.

The five major minerals associated with the pegmatites are Samarskite, Euxenite, Thoriannite, Columbite and Lepidolite.

One of the dykes was cross-trenched for eight (8) feet and a channel sample of One Hundred (100) lbs. when split was found to contain:

U	$\frac{1}{2}$	$\frac{8}{100}$	0.65%
Cb	$\frac{2}{2}$	$\frac{5}{100}$	3.4%

The samples were assayed at Ottawa by Quebec Metallurgical Institute and the location is noted on the appended map.

GENERAL (Cont'd)

Numerous other grab samples contained these two metallic oxides.

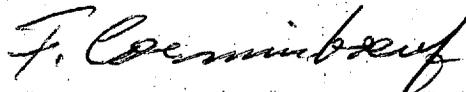
These pegmatites also contain Lithium bearing Mica which is a significant indication that commercial quantities of Lithium may be present in the pegmatites at depth.

RECOMMENDATIONS

This Property is practically virgin ground with only a narrow band opened by the building of the road. It lies in an area that is being actively prospected.

The numerous pegmatite dykes and mineral content give this property more than prospective merit and I would recommend a thorough geological exploration of the property in order to evaluate the ore potential. This to be followed by a stripping and diamond drilling where warranted.

Respectfully submitted,



F. Corrainboeuf, B.S.A., I.Ch., Ph.D.

June 18th, 1956.
Oka, Quebec.

CERTIFICATION

(1) I, F. Corminboeuf, a Mining Geologist,
do certify that:

I am a naturalized Canadian and reside
at Pointe Calumet, County Laval, Province of Quebec.

(2) I am a Post Graduate of the Faculty of
Science of the University of Montreal with a degree of
B.S.A., I.Ch., Ph.D. in Chemistry and Professor of Geology
and that I have been practicing my profession for over 25
years.

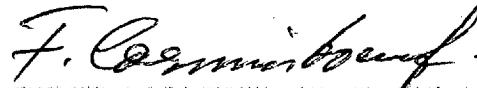
(3) That I have no direct or indirect interest
in the Petawaga Mining Corporation, referred to in this report,
nor in any of the securities of this company, nor do I expect
to receive such an interest.

(4) The report was made on regional studies
and mapping by myself and from information received from
laboratory work carried on at the University of Montreal.

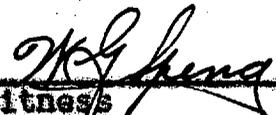
(5) That the examinations by me were made in
July and August 1955.

Dated this EIGHTEENTH Day of June 1956

OKA, Quebec.



F. Corminboeuf



Witness

PUBLIC

Ministère des Richesses Naturelles, Québec
SERVICE DES GÎTES MINÉRAUX
No GM- 4222

