

GM 38993

GEOLOGICAL REPORT

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586, THIRD AVENUE
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LEBOEUF, RAYMOND "CLAIMS"

Report on
Mining Claims Nos. A-191,512 to A-191,517 incl.,
La Corne Twp., Abitibi-East Co., NW Quebec,

By

T. Koulomzine, L.Sc. Ing. ENSP.

Ministère de l'Énergie et des Ressources
Gouvernement du Québec
Service du Potentiel minéral

October 12th, 1954.

DATE: 1 SEP. 1982

No G.M.: 38993

INTRODUCTION

The property described in this report consists of six mining claims, adjoining on the south the property of Quebec Lithium Corporation where a major deposit of lithium is presently being prepared for production on a scale of at least 1000 tons per day. The ground is underlain by the same type of rock as that in which the Quebec Lithium Corporation finds its lithium bearing pegmatite dykes. Pegmatitic stringers have already been found within the limits of the claims and, therefore, the ground must be considered as worthy of intensive exploration. The object of the present report is to study the best means of exploring the property and appraise the chances such a program of exploration would have of meeting with success.

PROPERTY TITLE AND LOCATION

The claims under review are registered on the books of the Quebec Department of Mines as belonging to Raymond Leboeuf, Barrister, of Montreal. They appear on the official map of La Corne Township as C-66,469 - Cls. 1 & 2; C-66,476 - Cls. 1 & 2 and C-66,477 - Cls. 1 & 2, cover lots 54 to 59 inclusive in Range VII of La Corne Township and have a total area of 630.0 acres. The claims are held under development licenses Nos. 23,127 to 23,129 inclusive, which expire on March 27th, 1955. The mining rights are renewable from year to year, provided an acreage tax and license fees totalling \$180.00 are paid and a minimum of 375 working days of assessment work performed. If no assessment work is done, the mining rights can be renewed by paying taxes and fees amounting to \$630.00.

The ground is very easy of access as it can be reached by following a good gravel road, going from the village of Barraute to the Quebec Lithium property, and then, for about two miles, a private road leading to the Lake Legendre, the southern part of which is already within the property boundaries. Barraute is a fair-sized agricultural center and a junction on the Canadian National Railway.

DESCRIPTION OF THE PROPERTY

History

The claims were originally staked in March 1953 by Mr. J.C. Cossette and subsequently transferred to Mr. R. Leboeuf on March 25th, 1954. The ground was acquired because it is underlain by part of the La Corne batholith and adjoins the Quebec Lithium Corporation.

General Location

The main value of the property is its location in a favourable part of the Preissac-La Corne batholith. It has been known for some years that the pegmatite dykes found near the borders of this batholith contain lithium, beryllium and other uncommon minerals. However it was only the sudden expansion of the uses of lithium in the industry, which took place within the last two or three years, that made the deposits of the La Corne Township particularly valuable and gave an impetus to their development on a major scale.

Lithium has been used for a long time in medicine and pyrotechnics. Recently its uses expanded enormously as it became an additive to greases and also an ingredient in the manufacture of certain, still secret, defence items.

Production of lithium compounds has increased tenfold since 1947. Interesting data on the utilization of lithium are given in

1. A report of the Battelle Institute to the President (1952),
2. The "Chemical Week" magazine, November 8, 1952,
3. A recent report of the "Minerals Economics Subcommittee of the Senate Interior Committee on the Accessibility of Strategic Materials to the United States in Time of War and For Our Expanding Economy".

One and a half miles north of the Leboeuf claims the Quebec Lithium Corporation is presently sinking shaft and developing a major deposit of lithium estimated to contain up to 10 million tons grading 1.25% lithium oxide.

General Geology

The general geology of the property appears on the following Government maps:

1. "Piedmont Sheet" Map No. 206A, issued by the Geological Survey of Canada in 1929.
2. "Piedmont", Map No. 999A, issued by the Geological Survey of Canada in 1950.
3. "Piedmont Map-Area, Abitibi County, Quebec", by L.P. Tremblay, Memoir 253 of the Geological Survey of Canada, issued in 1950.
4. "Barrute Mining Area", Geological Compilation Map No. B539, by W.N. Ingham and M. Latulippe, revised to April 1952, issued in ozalid print form by the Quebec Department of Mines.
5. Aeromagnetic Map "Barrute", Geological Survey of Canada, Geophysics Paper No. 72, issued in 1952.
6. "Pegmatitic Beryllium and Lithium Deposits, Preissac-La Corne Region, Abitibi County, Quebec", by Robert B. Rowe, Geological Survey of Canada, Paper 53-3, issued in 1953.
7. "Structural Features of the Preissac-La Corne Batholith, Abitibi County, Quebec", by K.R. Dawson, Geological Survey of Canada, Paper 53-4 issued in 1954.

8. The "Northeast La Corne", geological compilation map prepared by M. Latulippe and issued in ozalid print form by the Quebec Department of Mines.
9. The area has been air photographed by the Federal Government and the corresponding photographs can be purchased through the National Air Photographic Library in Ottawa.

Geology of the Property

The main geological feature of the property is the fact that it is covered, almost entirely, by glacial overburden. The geological maps published show the existence within the limits of the property of only twelve small outcrops nine of which are clustered together. All the outcrops are formed of granite which has been classified more specifically by geologists as a hornblende monzonite. The writer observed the presence of pegmatitic stringers on the two outcrops on the shores of Lake Legendre. No larger pegmatite dykes have been found as yet on the property, but it would be hard to expect any discoveries until a systematic effort of prospecting is made.

All of the large, lithium bearing, pegmatite dykes found to date in the batholith are near the contacts of the intrusion. Thus, offhand, the Leboeuf claims, which are located about one mile and a half to the south of the northern boundary of the batholith, would seem to be situated not too favorably. It must be emphasized, however, that Map No. 999A shows a roof-pendant of hornblende schist which appears to the west of the property. The existence of this roof-pendant proves that the now eroded upper contact of the batholith was rather close to the present surface of the ground. Therefore, the chances of encountering pegmatite dykes within the limits of the property are just about as great as in the area where intensive drilling was so successful on the Quebec Lithium property.

Although outcrops are very few, overburden seems to be rather thin over most of the ground. Recently, tractors making roads for bush cutting southwest of Lake Legendre, scratched bare some rocks. It seems, therefore, that a systematic program of sounding may show that a large part of the property would be amenable to exploration by trenching.

Exploration Work

Except for some routine prospecting and the cutting of unchained lines at 850-foot intervals, there has been no exploration work done on the claims.

RECOMMENDATIONS

In view of the fact that modern geophysical methods still cannot differentiate between pegmatite dykes and the granite which they intrude, geophysics can be of no help for the exploration of the property.

I recommend, therefore, that a network of picket lines 300 feet apart be cut over the entire property and a systematic campaign of sounding with a 6-foot 3/8-inch thick steel sounding bar be undertaken over these to outline the areas where exploration could be done by means of a bulldozer and/or by pick and shovel trenching.

Trenching in general, and bulldozing in particular, is much cheaper than diamond drilling as a means of exploration; furthermore, when a valuable deposit is found, the information supplied by trenching is usually more complete than that obtained through drilling. Line cutting, sounding, bulldozing and cleaning of the trenches may cost from \$2000.-- to \$5000.--, depending on the area that can be explored. Subsequently some cross sectional diamond drilling may become advisable to close the gaps between the areas which it would be possible to bulldoze.

The location of the property and the importance of the deposits discovered on the neighbouring Quebec Lithium property lead me to believe that the exploration program outlined above for the Leboeuf claims is well warranted.

Th. Houeouy

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CERTIFICATE

TO WHOM IT MAY CONCERN

I, Theodore Koulomzine, of Val d'Or, in the Province of Quebec, hereby certify:

1. THAT I am a Consulting Mining Engineer, Geologist and Geophysicist and reside at 218 Ninth Street, Val d'Or, and that I have my place of business at 1263 Seventh Street, Val d'Or, P.Q.;
2. THAT I am a graduate of Paris (Sorbonne) and Strasbourg Universities and have been practicing my profession for twenty-five years, of which 20 years in the Province of Quebec;
3. THAT I am a member of the Corporation of Professional Engineers of the Province of Quebec, duly licensed to practice in this province;
4. THAT I have no interest whatsoever, neither direct nor indirect, in the properties described in the attached report, nor do I expect to receive any.
5. THAT the accompanying report is based on a personal examination of the property and neighbouring properties as well as on the study of numerous documents and maps pertaining to them.
6. THAT I have examined the ground personally on September 30, 1954.
7. THAT I hereby consent that my report attached herewith be used as part of a prospectus and/or of other documents filed, or to be filed, with government agencies dealing with the control of the issue of public securities.

DATED THIS TWELVETH DAY OF OCTOBER 1954.

Theodore Koulomzine
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