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GEOLOGICAL REPORT ON 2 PROPERTIES

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Énergie et Ressources naturelles
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H. J. BERGMANN
MINING ENGINEER

REPORT

ON THE

PROPERTIES

OF

GREAT VALLEY EXPLORATION AND MINING LTD.

(NO PERSONAL LIABILITY)

PASCALIS AND TIBLEMONT TOWNSHIPS

ABITIBI, QUE.

QUEBEC DEPARTMENT OF MINES
APL 25 1956
MINERAL DEPOSITS BRANCH
No G.M. 3944

Montreal, Que.
March 13, 1956

By:
H.J.Bergmann, P.Eng.

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INTRODUCTION:

The following report covers two separate properties held by Great Valley Exploration & Mining Ltd., one of which is in Pascalis township, and the other in Tiblemont township, Abitibi County, Quebec.

Due to winter conditions it was not practical for the writer to make an examination of the properties at this time and this report is based on personal knowledge of the area and data obtained from published government reports and maps.

PROPERTIES AND LOCATION:

The property located in Pascalis township is located in the western portion of the township. It consists of lots 2 to 10 inclusive, Range V which contain approximately 800 acres. The claims are registered with the Department of Mines, Province of Quebec, under the following mining licenses: C105589 to 105592.

The property is located approximately three miles north of Perron Gold Mines in what is known as the Noranda-Senneterre mining belt.

The second property held by Great Valley Exploration and Mining Ltd. is situated in the southern part of Tiblemont township and consists of 20 claims of approximately 40 acres each making a total of approximately 800 acres. These claims likewise are registered under the following mining licenses: C105594, 105595, 105596 and 105598.

FACILITIES AND ACCESSIBILITY:

The area within which the two properties are situated is an old mining area and is readily accessible by both highway and railroad. The property is Pascalis township is readily accessible by road from either Senneterre or Val d'Or and is only four miles northwest of the railroad.

The property in Tiblemont township is likewise very accessible and is situated approximately five miles east of the highway from Val d'Or to Senneterre.

There is a plentiful supply of timber and water for mining purposes and all facilities necessary for any mining operation are readily available.

HISTORY:

The properties are located in what is known as the Noranda-Senneterre mining belt which has given rise to such well known producing mines as Noranda Mines, Quemont, East Sullivan, Sullivan Gold, Malartic Goldfields, not to mention a host of smaller mines.

The area has seen a great many mining booms and in spite of past exploration it is now witnessing another burst of activity in the search for copper and other base metals. The present boom has come about because of the present high price for copper and new techniques in geophysical prospecting. Areas extensively covered with overburden can now be explored by geophysical methods with the result that ore bodies are now being located on ground explored in previous booms. An excellent example of this, is the orebody recently located in Clericy township by Rio Tinto Exploration and now being diamond drilled with excellent results.

The past exploration in the immediate area of the properties of Great Valley Explorations & Mining has largely been for gold. However, a staking boom was recently sparked by the discovery of good copper mineralization in a diamond drilling program being carried out by Canadian Shield Mining Corp. The first hole gave reported values of 6% copper over a core length of 20 feet. Since then ground has been acquired by mining companies and private interests and the properties acquired by Great Valley Explorations & Mining Ltd. are well located in this area.

GEOLOGY:

As mentioned previously, no examination of the properties has been made but the geology of the area has been covered in some detail by the Quebec Department of Mines. This source of information has been used to obtain the areal geology and also that in the immediate vicinity of the properties of Great Valley Explorations & Mining Ltd.

The consolidated rocks of the area are all Precambrian in age and consist largely of Keewatin volcanics of intermediate and basic composition. An area of volcanic breccia occurs in the southwest corner of Pascalis township which has probably been caused by the granodiorite intrusion in this area. Rhyolitic flows are comparatively rare but a fine grained acid

rock which has been termed rhyolite is found in the southern part of Tiblemont township.

A band of Temiskaming sediments which consists largely of grey wackes with some conglomerate extends across Louvicourt and Vauquelin townships and extends northwest across a portion of Pascalis township in the vicinity of the property of Great Valley Explorations & Mining.

There are two major intrusive bodies in the vicinity of the properties of Great Valley Explorations, and it is along the contacts of these intrusive bodies that most of the economic mineralization in the area has been found. The first of these intrusive bodies is known as the Bourlamaque batholith and this intrusive extends across the northern part of Bourlamaque township and into Louvicourt township. The granodiorite extends into the southwest corner of Pascalis township.

Numerous granitic dykes are found as offshoots from this intrusive body and the Keewatin rocks in the vicinity show a high degree of alteration and schistosity which approximates a N70E direction. It is along the contact zone of this batholith that such gold producers as Sigma, Lamaque and Sullivan are located. The property of Great Valley Explorations is extremely well located in regard to this batholith, being situated off the northeast corner of the intrusive.

Another massive intrusive occurs to the northwest and extends across the northeast portion of Pascalis township and the western half of Tiblemont township. This intrusive has been called a quartz monzonite with a composition between a granite and a granodiorite. It likewise has caused considerable alteration in the surrounding rocks and several mineral occurrences have been found along its borders, both within the intrusive and in the adjacent altered volcanics.

This intrusive is located slightly northeast of the Pascalis property of Great Valley Explorations and thus the rocks underlying this property have come under the influence of both major intrusives and should be extremely favorable for mineral deposition.

The property in Tiblemont township is located along the southern contact of the major intrusive in Tiblemont township and the property appears to straddle the contact. The underlying rocks consist of the quartz-monzonite intrusive and the adjacent schists. It is along this same contact zone, a short distance to the west, that the recent discovery of copper mineralization has been found on the property of Canadian Shield Mining Corp.

DEVELOPMENT:

The area in the vicinity of the properties of Great

Valley Exploration & Mining Ltd. had considerable exploration for gold in the nineteen thirties. This exploration consisted of prospecting in areas of rock outcrops, trenching and some diamond drilling but areas covered with overburden were virtually unexplored.

Geophysical techniques now can test the areas of overburden for favorable structures and base metal mineralization. As a result the entire Noranda-Senneterre mining belt is receiving detailed exploration with excellent results.

In the Pascalis-Tiblemont area diamond drilling is presently under way on a property held by Canadian Shield Mining Corp. The writer understands that diamond drilling here has shown values of 6% copper over a width of 20 feet and a second hole has shown mineralization over a width of 20 to 30 feet containing several sections of 3% copper. These results caused considerable staking in the area and there would appear to be excellent chances of developing a major orebody. West Malartic Gold Mines have recently acquired an adjacent property and are planning a geophysical survey.

The properties of Great Valley Explorations have only had preliminary prospecting carried out on them and since there are large areas covered with overburden this type of exploration would have very little chance of success. The properties are well located geologically in regard to the major intrusive bodies and detailed exploration should have good chances of locating economic mineralization of both gold and base metals. The Tiblemont property is located along the same contact zone as the copper discovery of Canadian Shield Mining Corp. and there is also an old copper showing reported on the property immediately to the west of Great Valley Exploration & Mining Ltd.

CONCLUSIONS AND RECOMMENDATIONS:

The recent encouraging results obtained on the property of Canadian Shield Mining Corp. in Pascalis township has opened up a large area favorable for base metal mineralization. This area has previously been explored for gold with exploration largely confined to areas of outcrops.

Geophysical techniques now enable us to explore the large areas covered with overburden and which are known to have favorable geology for mineral deposits. The two properties held by Great Valley Exploration & Mining Ltd. are well situated in regard to the major intrusive bodies that have been responsible for most of the economic mineralization in the area. It is the writer's opinion that a comprehensive exploration program carried out on these properties should have a good chance of locating economic mineralization and the following recommendations are made:

1. A combined magnetometer and electrical-type survey should be carried out over both properties.

2. Geological mapping of all outcrops in conjunction with the geophysical surveys to allow for proper interpretation.

3. The anomalies obtained from the geophysical surveys should be investigated by surface stripping and trenching wherever possible.

4. Any anomalies that are covered by overburden should be investigated by diamond drilling if trenching is not possible.

5. Detailed diamond drilling of any important mineralized zones located in the above program.

Respectfully submitted,

H. J. Bergmann, P. Eng.

Montreal, Que.
March 13, 1956

H. J. BERGMANN
MINING ENGINEER

CERTIFICATE OF QUALIFICATION

I, H.J. Bergmann, of the City of Montreal in the Province of Quebec hereby certify:

1. That I am a Consulting Mining Engineer and reside at 3518 Vendome Avenue, Montreal, Quebec.

2. That I am a graduate of the University of Alberta and hold a Bachelor of Science degree in Mining Engineering.

3. That I am a registered Professional Engineer in the Province of Ontario and Quebec.

4. That I have been practising my profession as a Mining Engineer since 1938 and during the past two years as a Consulting Engineer.

5. That I have no interest, either direct or indirect, in the properties or securities of Great Valley Exploration and Mining Ltd. and do not expect to receive, either directly or indirectly, any interest in the securities of the Company.

6. That the accompanying report is based on maps and reports published by the Department of Mines, Province of Quebec together with a personal knowledge obtained from numerous visits to the area in the past.

Dated at Montreal this 13th day

of March, 1956.

H.J. Bergmann

H.J. Bergmann, P.Eng.