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1965

REPORT ON

10 BLOCKS OF CLAIMS

ON PROPERTIES OF

Globe Exploration & Mining Company Limited

PROVINCE OF ONTARIO

The President and Directors,  
Globe Exploration & Mining Company Ltd.,  
Suite 403,  
62 Richmond Street West,  
Toronto 1, Ont.

Gentlemen: This report reviews ten blocks of claims held by your Company in Ontario, where further exploration and/or development work have been recommended.

32-CLAIM PROPERTY

BALDWIN AND PORTER TOWNSHIPS

Property, Location and Access -

The property consists of one (1) patented and thirty-one (31) unpatented claims, located in Baldwin and Porter Townships, Sudbury Mining Division, Ontario. The claims form a contiguous group, and are listed as follows:

- NE of N of Lot 5, Conc. VI, Baldwin Twp., No. S-89402; -
- NW of N of Lot 5, Conc. VI, Baldwin Twp., No. S-89401; -
- NE of N of Lot 6, Conc. VI, Baldwin Twp., No. S-89400; -
- SE of N of Lot 6, Conc. VI, Baldwin Twp., No. S-89403; -
- SW of N of Lot 6, Conc. VI, Baldwin Twp., No. S-89404; -
- NW of N of Lot 6, Conc. VI, Baldwin Twp., Parcel 8112; -
- NE of N of Lot 7, Conc. VI, Baldwin Twp., No. S-113219; -
- SE of N of Lot 7, Conc. VI, Baldwin Twp., No. S-89405; -
- SW of N of Lot 7, Conc. VI, Baldwin Twp., No. S-89406; -
- NW of N of Lot 7, Conc. VI, Baldwin Twp., No. S-115892; -
- NE of S of Lot 7, Conc. VI, Baldwin Twp., No. S-89408; -
- NW of S of Lot 7, Conc. VI, Baldwin Twp., No. S-89409; -
- SE of N of Lot 8, Conc. VI, Baldwin Twp., No. S-89407; -
- SW of N of Lot 8, Conc. VI, Baldwin Twp., No. S-118240; -
- NE of S of Lot 8, Conc. VI, Baldwin Twp., No. S-118239; -
- SW of S of Lot 8, Conc. VI, Baldwin Twp., No. S-118466; -
- NW of S of Lot 8, Conc. VI, Baldwin Twp., No. S-118241; -
- NE of S of Lot 9, Conc. VI, Baldwin Twp., No. S-118461; -
- SE of S of Lot 9, Conc. VI, Baldwin Twp., No. S-118462; -
- SW of S of Lot 9, Conc. VI, Baldwin Twp., No. S-118463; -
- NW of S of Lot 9, Conc. VI, Baldwin Twp., No. S-118465; -
- NW of N of Lot 9, Conc. V, Baldwin Twp., No. S-118464; -
- SE of S of Lot 10, Conc. VI, Baldwin Twp., No. S-118467; -

NE  $\frac{1}{4}$  of N  $\frac{1}{4}$  of Lot 10, Conc. V, Baldwin Twp., No. S-118468;  
SW  $\frac{1}{4}$  of S  $\frac{1}{4}$  of Lot 4, Conc. I, Porter Twp., No. S-97045;  
NW  $\frac{1}{4}$  of S  $\frac{1}{4}$  of Lot 4, Conc. I, Porter Twp., No. S-97044;  
NE  $\frac{1}{4}$  of S  $\frac{1}{4}$  of Lot 5, Conc. I, Porter Twp., No. S-97043;  
SE  $\frac{1}{4}$  of S  $\frac{1}{4}$  of Lot 5, Conc. I, Porter Twp., No. S-97042;  
SW  $\frac{1}{4}$  of S  $\frac{1}{4}$  of Lot 5, Conc. I, Porter Twp., No. S-97041;  
SE  $\frac{1}{4}$  of S  $\frac{1}{4}$  of Lot 6, Conc. I, Porter Twp., No. S-97038;  
SW  $\frac{1}{4}$  of S  $\frac{1}{4}$  of Lot 6, Conc. I, Porter Twp., No. S-97037;  
SE  $\frac{1}{4}$  of S  $\frac{1}{4}$  of Lot 7, Conc. I, Porter Twp., No. S-97034;

The claim group is located, for the most part, along the north shore of Agnew Lake, with about a 9-claim area underlying the lake.

Access is via a well-travelled road leading north from McKerrow, on Highway 17, to Espanola Bay on the south shore of Agnew Lake, and then across the lake by boat for about 1.5 miles, to the claim group. The distance from McKerrow to Espanola Bay is 5 miles.

The camps were on the north shore of Agnew Lake, at the southeast corner of Claim S-89405, but there are now no buildings standing belonging to the owner of the property.

#### GEOLOGY, AEROMAGNETIC DATA, HISTORY AND DEVELOPMENT -

The general geology of the area is on Map No. 1952-1, Ontario Department of Mines, to a scale of One Inch to One Thousand Feet. This map shows the underlying formations to be largely sediments, including Ramsay Lake conglomerate, interbedded with quartzite and greywacke (Pre-Huronian). These sediments strike N. 69°E., and, in the immediate area of the claim group, dip from 70 to 80 degrees to the northwest.

The Ramsay Lake conglomerate forms a narrow band about 150 feet wide, lying between greywacke to the south and quartzite to the north. It is thought to be older than the quartzite, and has a gradual contact. The contact between the conglomerate and the greywacke is sharp.

The sedimentary formations form a series of anticlines, with axes paralleling the bedding. Considerable schistosity paralleling the strike of the bedding, was observed in all three sedimentary rock types, with strong contorted beddings in the greywacke.

The sediments have been intruded by basic rocks varying from gabbro to diorite, with some small isolated masses of younger granite in the area. One band or sill of gabbroic rock, about 700 feet in width, extends in a northeast direction across the northwest boundary area of the property. There are several other bosses of basic and acidic intrusives located along the south shore of Agnew Lake.

Aeromagnetic data on Map 1523 G., G. S. C., shows a magnetic zone which strikes northeasterly along the northwest boundary area of the property. This zone is apparently indicating the band of gabbroic intrusive partly occurring on the property.

To the southeast of this magnetic zone and over most of the property area, the magnetic intensities are low. There are weak magnetic anomalies indicated to the south and east of the property area.

The first exploration work appears to have been done on the property in the late 1920's, when surface trenching was carried out to explore a mineralized zone occurring in quartzite and located on a hill in the NE  $\frac{1}{4}$  of the S  $\frac{1}{2}$  of Lot 7, Conc. VI, Baldwin Township. A total of thirteen trenches was put in at that time, two of which did not reach bedrock. This work was followed by ten diamond drill holes, for a total footage of 5,665 feet. The drilling was stopped in December, 1929, and there is no evidence of further work until 1956-57, when nineteen holes were drilled for a total footage of 7,231 feet.

All the drilling, with the exception of the last three holes, was concentrated in the main mineralized zone, which was calculated by W. P. Murdoch, P. Eng., to contain 621,829 tons of probable ore of an average grade of 1.77% copper over an average width of 17.9 feet and a length of 1,200 feet to a maximum depth of 500 feet. His work was done for Federal Kirkland Mining Company.

During the period 1962-63, seven additional holes were drilled, for a total footage of 3,940 feet, by Brismil Mines Limited. These holes were confined to the area of the main mineralized zone, and two were stopped because of excess flattening before they reached their objectives. One blank hole, drilled to a vertical depth of 840 feet and intersected the plane of the mineralized zone at a lower depth than planned.

During the period June 2 to July, 1965, seven additional holes with a total of 3,253 feet core length, were drilled by Brismil Mines Limited.

~~During the period 1962-63, seven additional holes were drilled, for a total footage of 3,940 feet, by Brismil Mines Limited.~~ X Up to date, 44 holes with a total of 20,184 feet of drilling have been completed on the property.

The drilling performed by Brismil Mines Limited, has established the fact that the copper-bearing mineralization is cut off against the greywacke sediments, and is, therefore, limited to a vertical depth of about 500 feet in the immediate area. The shallow holes cut some ore-grade copper, but the results have not been correlated with W. P. Murdoch's calculation on ore reserves.

#### ECONOMIC GEOLOGY -

The mineralized zone is fairly well exposed on the surface and in rock trenches at the most easterly portion, for a length of approximately 200 feet.

Chalcopyrite with minor amounts of pyrite and pyrrhotite, occur in streaks, and are finely disseminated in a highly siliceous matrix of injected quartz and quartzites which have been sheared and brecciated.

Locally, the zone is approximately 75 feet wide in plan, strikes N.83° E., and dips to the south at approximately 71°, crossing the trend of the enclosing quartzites and conglomerates on dip and strikes. The strike changes more to the south, toward the west, and the chalcopyrite appears to be confined to lenses of light-blue silicified schist within a strong shear with pyrite and pyrrhotite mineralization more prevalent.

The walls of the zone, in general, are quite distinct, and usually consist of occasional blue quartz stringers in a sheared and silicified rock containing some pistachio-green alteration. As noted in the section on History and Development, up-to-date diamond drilling has established the fact that the chalcopyrite mineralization is cut off against the greywacke, which has a sharp contact with the conglomerate.

It seems probable that the mineralization accompanied the injection of siliceous solution along local faults. One would expect to find somewhere along the general trend, particularly within more competent rocks lying between them, transverse faults which would provide channels along which ore-bearing solutions could circulate.

#### RECOMMENDATIONS AND WORK IN PROGRESS -

A program of geophysical survey and geochemical check survey is now in progress, to cover the land areas of the property. The lake area of the property is to be covered by a combined magnetic and electromagnetic survey, after the freeze-up. Targets obtained by the above-said surveys are to be tested by diamond drilling. Locations of old drill holes are to be located for reference and the planning of a minimum of 3,000 feet of shallow drilling, to more definitely outline the known copper deposit. It is also recommended to conduct an induced-polarization survey along the full length of the known mineralized zone, to check the possibilities at depths of greater than 500 feet. The total cost is estimated at \$35,000.00

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# Globe Exploration & Mining Company Limited

## AMENDING STATEMENT NO. 4 TO THE PROSPECTUS OF THE COMPANY DATED NOVEMBER 12, 1964

### AMENDMENTS TO:

1. Paragraph 12 of the Prospectus as previously amended:

Add sub-paragraph 12(p) as follows:

(p) By an agreement dated the 22nd day of September, 1965, the Company purchased from Brismil Mines Limited, Suite 509, 25 Adelaide Street West, Toronto, Ontario, a subsidiary of Cadamet Mines Limited, Suite 509, 25 Adelaide Street West, Toronto, Ontario, one patented mining claim in the Township of Baldwin, in the Sudbury Mining Division of Ontario, officially designated as Claim No. S 16711, and 31 unpatented mining claims located in the Townships of Porter and Baldwin in the Sudbury Mining Division officially designated as follows:

Claims Nos. S 113219;  
S 115892;  
S 97034;  
S 97037;  
S 97038;  
S 97041 to S 97045 inclusive;  
S 89400 to S 89409 inclusive;  
S 118239 to S 118241 inclusive; and  
S 118461 to S 118468 inclusive.

The transaction of purchase and sale is conditional upon the acceptance for filing by the Toronto Stock Exchange of notice of the agreement on the part of Cadamet Mines Limited (which condition has been fulfilled), the approval of the shareholders of Brismil Mines Limited (which condition has not yet been fulfilled) and the acceptance for filing by the Ontario Securities Commission of this Amending Statement. The purchase price to be paid to Brismil on closing is the sum of \$10,000 plus the firm commitment of the Company to expend a minimum of \$25,000 upon the properties in useful exploration and development work within a period of one year from the effective date of the agreement, and a royalty to Brismil of 25 cents per ton for each ton of mineralized material mined from the property. So far as the signatories hereto are aware, no person other than the vendor company has received or will be entitled to receive a greater than 5% interest in the vendor consideration and the only person or company owning a greater than 5% interest in Brismil is Cadamet Mines Limited, Suite 509, 25 Adelaide Street West, Toronto, Ontario, which in turn is a public mining company listed on the Toronto Stock Exchange and it is not possible to say who may own a greater than 5% interest in Cadamet.

2. Paragraph 13 of the Prospectus as previously amended:

BLOCK 17 — 10 CLAIMS — MASSEY TOWNSHIP.

The Company has carried out the geochemical check survey recommended by Dr. S. S. Szetu in his last report on this property, particulars of which were given in Amending Statement No. 3. The following is taken from the Report of S. S. Szetu, Ph.D., on the programme of geochemical surveying:

#### "Conclusions and Recommendations

The geochemical survey has obtained no indication of possible phase changes along the mineralized zone indicated by electromagnetic survey and diamond drilling. Anomalies along an inferred cross fault contained insufficient copper indications to be of interest.

Since only traces of gold were obtained from previous assays of some core intersections, the writer recommends no further work."



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**3. Paragraph 13 of the Prospectus:**

The mining property referred to in sub-paragraph 12(p) above is located along the north shore of Agnew Lake in the Townships of Baldwin and Porter in the Sudbury Mining Division of Ontario. The property is accessible by a highway from McKerrow, Ontario to Espanola Bay on the south shore of Agnew Lake and it is then necessary to cross the lake by boat a distance of about one and one-half miles. There is no surface or underground plant or equipment on the property at the present time. As a result of previous exploration work, it was estimated that the property contained 621,829 tons of probable ore of an average grade of 1.77% copper over an average width of 17.9 feet and a length of 1,200 feet, to a maximum depth of 500 feet. For further particulars relating to the history of the property, the results of various exploration programmes carried on by other owners in the past and for recommendations for further exploration of the property, reference is made to the Report of S. S. Szetu, Ph.D., dated September 15, 1965, which accompanies and forms part of this amending statement.

**4. Paragraph 15 of the Prospectus as previously amended:**

In addition to the proposed uses of corporate funds in the prospectus, the Company intends to apply the proceeds of the current offering, together with other treasury funds available in carrying out the exploration programme recommended in the accompanying report.

DATED October 22, 1965.

The foregoing, together with the Prospectus dated November 12, 1964, Amending Statement No. 1 dated December 18, 1964, Amending Statement No. 2 dated March 3, 1965, and Amending Statement No. 3 dated August 24, 1965, constitutes full, true and plain disclosure of all material facts in respect of the offering of securities referred to above as required by Section 38 of The Securities Act (Ontario) and there is no further material information applicable other than in the financial statements or reports where required.

**DIRECTORS:**

GEORGE READE	B. A. BLACKBURN
IRWIN A. WALLACE	FRANK FURNISS
P. E. PRICE	

**PROMOTER:**

G. D. RICHMOND SECURITIES LIMITED  
Per: GEORGE RICHMOND, President

To the best of our knowledge, information and belief, the foregoing, together with the Prospectus dated November 12, 1964, Amending Statement No. 1 dated December 18, 1964, Amending Statement No. 2 dated March 3, 1965, and Amending Statement No. 3 dated August 24, 1965, constitutes full, true and plain disclosure of all material facts in respect of the offering of securities referred to above as required by Section 38 of The Securities Act (Ontario) and there is no further material information applicable other than in the financial statements or reports where required. In respect of matters which are not within our knowledge we have relied upon the accuracy and adequacy of the foregoing.

**UNDERWRITER-OPTIONEE:**

G. D. RICHMOND SECURITIES LIMITED  
Per: GEORGE RICHMOND, President.



# Globe Exploration & Mining Company Limited

REPORT ON  
32-CLAIM PROPERTY  
BALDWIN AND PORTER TOWNSHIPS  
SUDBURY MINING DIVISION, ONTARIO

1965

The President and Directors,  
GLOBE EXPLORATION & MINING CO. LTD.,  
Suite 403, 62 Richmond Street West,  
Toronto 1, Ontario.

Gentlemen:

This report is a summary of previous exploration and development work carried out on a property located in Baldwin and Porter Townships, Ontario, where a deposit of copper is indicated.

## PROPERTY

The property described in this report consists of one (1) patented and thirty-one (31) unpatented mining claims, located in Baldwin and Porter Townships, Sudbury Mining Division, Ontario. The claims form a contiguous group, and are listed as follows:

NE  $\frac{1}{4}$  of N $\frac{1}{2}$  of Lot 5, Conc. VI, Baldwin Twp., No. S-89402;  
NW  $\frac{1}{4}$  of N $\frac{1}{2}$  of Lot 5, Conc. VI, Baldwin Twp., No. S-89401;  
NE  $\frac{1}{4}$  of N $\frac{1}{2}$  of Lot 6, Conc. VI, Baldwin Twp., No. S-89400;  
SE  $\frac{1}{4}$  of N $\frac{1}{2}$  of Lot 6, Conc. VI, Baldwin Twp., No. S-89403;  
SW  $\frac{1}{4}$  of N $\frac{1}{2}$  of Lot 6, Conc. VI, Baldwin Twp., No. S-89404;  
NW  $\frac{1}{4}$  of N $\frac{1}{2}$  of Lot 6, Conc. VI, Baldwin Twp., Parcel 8112;  
NE  $\frac{1}{4}$  of N $\frac{1}{2}$  of Lot 7, Conc. VI, Baldwin Twp., No. S-113219;  
SE  $\frac{1}{4}$  of N $\frac{1}{2}$  of Lot 7, Conc. VI, Baldwin Twp., No. S-89405;  
SW  $\frac{1}{4}$  of N $\frac{1}{2}$  of Lot 7, Conc. VI, Baldwin Twp., No. S-89406;  
NW  $\frac{1}{4}$  of N $\frac{1}{2}$  of Lot 7, Conc. VI, Baldwin Twp., No. S-115892;  
NE  $\frac{1}{4}$  of S $\frac{1}{2}$  of Lot 7, Conc. VI, Baldwin Twp., No. S-89408;  
NW  $\frac{1}{4}$  of S $\frac{1}{2}$  of Lot 7, Conc. VI, Baldwin Twp., No. S-89409;  
SE  $\frac{1}{4}$  of S $\frac{1}{2}$  of Lot 8, Conc. VI, Baldwin Twp., No. S-89407;  
SW  $\frac{1}{4}$  of S $\frac{1}{2}$  of Lot 8, Conc. VI, Baldwin Twp., No. S-118240;  
NE  $\frac{1}{4}$  of S $\frac{1}{2}$  of Lot 8, Conc. VI, Baldwin Twp., No. S-118239;  
SW  $\frac{1}{4}$  of S $\frac{1}{2}$  of Lot 8, Conc. VI, Baldwin Twp., No. S-118466;  
NW  $\frac{1}{4}$  of S $\frac{1}{2}$  of Lot 8, Conc. VI, Baldwin Twp., No. S-118241;  
NE  $\frac{1}{4}$  of S $\frac{1}{2}$  of Lot 9, Conc. VI, Baldwin Twp., No. S-118461;  
SE  $\frac{1}{4}$  of S $\frac{1}{2}$  of Lot 9, Conc. VI, Baldwin Twp., No. S-118462;  
SW  $\frac{1}{4}$  of S $\frac{1}{2}$  of Lot 9, Conc. VI, Baldwin Twp., No. S-118463;  
NW  $\frac{1}{4}$  of S $\frac{1}{2}$  of Lot 9, Conc. VI, Baldwin Twp., No. S-118465;  
NW  $\frac{1}{4}$  of N $\frac{1}{2}$  of Lot 9, Conc. V, Baldwin Twp., No. S-118464;  
SE  $\frac{1}{4}$  of S $\frac{1}{2}$  of Lot 10, Conc. VI, Baldwin Twp., No. S-118467;  
NE  $\frac{1}{4}$  of N $\frac{1}{2}$  of Lot 10, Conc. V, Baldwin Twp., No. S-118468;  
SW  $\frac{1}{4}$  of S $\frac{1}{2}$  of Lot 4, Conc. I, Porter Twp., No. S-97045;  
NW  $\frac{1}{4}$  of S $\frac{1}{2}$  of Lot 4, Conc. I, Porter Twp., No. S-97044;  
NE  $\frac{1}{4}$  of S $\frac{1}{2}$  of Lot 5, Conc. I, Porter Twp., No. S-97043;  
SE  $\frac{1}{4}$  of S $\frac{1}{2}$  of Lot 5, Conc. I, Porter Twp., No. S-97042;  
SW  $\frac{1}{4}$  of S $\frac{1}{2}$  of Lot 5, Conc. I, Porter Twp., No. S-97041;  
SE  $\frac{1}{4}$  of S $\frac{1}{2}$  of Lot 6, Conc. I, Porter Twp., No. S-97038;  
SW  $\frac{1}{4}$  of S $\frac{1}{2}$  of Lot 6, Conc. I, Porter Twp., No. S-97037;  
SE  $\frac{1}{4}$  of S $\frac{1}{2}$  of Lot 7, Conc. I, Porter Twp., No. S-97034.

## LOCATION AND ACCESS

The claim group is located, for the most part, along the north shore of Agnew Lake, with about a 9-claim area underlying the lake.

Access is via a well-travelled road leading north from McKerrow, on Highway 17, to Espanola Bay on the south shore of Agnew Lake, and then across the lake by boat for about 1.5 miles, to the claim group. The distance from McKerrow to Espanola Bay is 5 miles.

The camps were on the north shore of Agnew Lake, at the southeast corner of Claim S-89405, but there are now no buildings standing belonging to the owner of the property.

## GENERAL GEOLOGY

The general geology of the area is on Map No. 1952-1, Ontario Department of Mines, to a scale of One Inch to One Thousand Feet. This map shows the underlying formations to be largely sediments, including Ramsay Lake conglomerate, interbedded with quartzite and greywacke (Pre-Huronian). These sediments strike N.69°E., and, in the immediate area of the claim group, dip from 70 to 80 degrees to the northwest.

The Ramsay Lake conglomerate forms a narrow band about 150 feet wide, lying between greywacke to the south and quartzite to the north. It is thought to be older than the quartzite, and has a gradual contact. The contact between the conglomerate and the greywacke is sharp.

The sedimentary formations form a series of anticlines and synclines, with axes paralleling the bedding. Considerable schistosity paralleling the strike of the bedding, was observed in all three sedimentary rock types, with strong contorted beddings in the greywacke.

The sediments have been intruded by basic rocks varying from gabbro to diorite, with some small isolated masses of younger granite in the area. One band or sill of gabbroic rock, about 700 feet in width, extends in a northeast direction across the northwest boundary area of the property. There are several other bosses of basic and acidic intrusives located along the south shore of Agnew Lake.

## AEROMAGNETIC DATA

Aeromagnetic data on Map 1523 G., G.S.C., shows a magnetic zone which strikes northeasterly along the northwest boundary area of the property. This zone is apparently indicating the band of gabbroic intrusive partly occurring on the property.

To the southeast of this magnetic zone and over most of the property area, the magnetic intensities are low. There are weak magnetic anomalies indicated to the south and east of the property area.

## HISTORY AND DEVELOPMENT

The first exploration work appears to have been done on the property in the late 1920's, when surface trenching was carried out to explore a mineralized zone occurring in quartzite and located on a hill in the NE  $\frac{1}{4}$  of the S  $\frac{1}{2}$  of Lot 7, Concession VI, Baldwin Township. A total of thirteen trenches was put in at that time, two of which did not reach bedrock. This work was followed by ten diamond drill holes, for a total footage of 5,665 feet. The drilling was stopped in December, 1929, and there is no evidence of further work until 1956-57, when nineteen holes were drilled for a total footage of 7,231 feet.

All the drilling, with the exception of the last three holes, was concentrated in the main mineralized zone, which was calculated by W. P. Murdoch, P.Eng., to contain 621,829 tons of probable ore of an average grade of 1.77% copper over an average width of 17.9 feet and a length of 1,200 feet to a maximum depth of 500 feet. His work was done for Federal Kirkland Mining Company.

During the period 1962-63, seven additional holes were drilled for a total footage of 3,940 feet, by Brismil Mines Limited. These holes were confined to the area of the main mineralized zone, and two were stopped because of excess flattening before they reached their objectives. One blank hole, drilled to a vertical depth of 840 feet, intersected the plane of the mineralized zone at a lower depth than planned.

During the period June 2 to July, 1965, seven additional holes with a total of 3,258 feet core length, were drilled by Brismil Mines Limited. Up to date, 44 holes with a total of 20,184 feet of drilling have been completed on the property.

The drilling performed by Brismil Mines Limited, has established the fact that the copper-bearing mineralization is cut off against the greywacke sediments, and is, therefore, limited to a vertical depth of about 500 feet in the immediate area. The shallow holes cut some ore-grade copper, but the results have not been correlated with W. P. Murdoch's calculation on ore reserves.

## ECONOMIC GEOLOGY

The mineralized zone is fairly well exposed on the surface and in rock trenches at the most easterly portion, for a length of approximately 200 feet.

Chalcopyrite with minor amounts of pyrite and pyrrhotite, occur in streaks, and are finely disseminated in a highly-siliceous matrix of injected quartz and quartzites which have been sheared and brecciated.

Locally, the zone is approximately 75 feet wide in plan, strikes N.83°E., and dips to the south at approximately 71°, crossing the trend of the enclosing quartzites and conglomerates on dip and strikes. The strike changes more to the south, toward the west, and the chalcopyrite appears to be confined to lenses of light-blue silicified schist within a strong shear with pyrite and pyrrhotite mineralization more prevalent.

The walls of the zone, in general, are quite distinct, and usually consist of occasional blue quartz stringers in a sheared and silicified rock containing some pistachio-green alteration. As noted in the section on History and Development, up-to-date diamond drilling has established the fact that the chalcopyrite mineralization is cut off against the greywacke, which has a sharp contact with the conglomerate.

It seems probable that the mineralization accompanied the injection of siliceous solution along local faults. One would expect to find somewhere along the general trend, particularly within more competent rocks lying between them, transverse faults which would provide channels along which ore-bearing solutions could circulate.

## FURTHER EXPLORATION AND DEVELOPMENT

Further exploration work should be directed to exploring for parallel zones or following the present known structure along strike to the northeast and southwest. This can be done by a combined magnetic and self-potential survey, to cover the land area of the property; and to check targets encountered by these geophysical surveys, by a soil-sample geochemical survey. The lake area of the property is to be covered by a combined magnetic and electromagnetic survey. Targets obtained by the above-said surveys, are to be tested by diamond drilling.

The estimated cost for the geophysical and geochemical surveys will average about \$200.00 per claim, for a total of \$6,400.00. The test diamond drilling, with, say, 4 holes at 300 ft. each and \$6.00 per ft., amounts to about \$7,200.00.

Although the few previous deep holes have obtained indications that part of the known ore-body is cut off at a depth of about 500 ft. by greywacke, the writer feels that this should be checked by an induced-polarization survey along the full length of the known mineralized zone. This would involve an expenditure in the order of \$3,000.00.

Further development work would involve a minimum additional 3,000 feet of shallow diamond drilling, to more definitely outline the ore reserve. At \$6.00 per ft., this amounts to \$18,000.00.

The Company should allocate a minimum of \$35,000.00 to further explore and develop the property.

## CONCLUSIONS AND RECOMMENDATIONS

Early development on the property had led to an estimate of 621,829 tons of probable ore of an average grade of 1.77% copper over an average width of 17.9 feet to an average depth of about 500 ft. Later work partly confirmed and partly disagreed with the interpretation used for the previous estimate, and obtained indications that the mineralization is cut off at a depth of 500 ft., by greywacke. Lateral extensions of the known mineralized zone have not been fully tested.

An estimated minimum of 3,000 ft. of shallow diamond drilling is required to delineate the indicated ore reserve. An induced-polarization survey is recommended to check its possibilities at depth.

Previous exploration work by trenching and diamond drilling was concentrated along a narrow zone for a length of about 2,200 ft. A program of geophysical and geochemical survey is recommended, to cover all the 32 claims for possible extensions of the mineralized zone and to check the possibilities of other mineralized zones parallel to the known zone.

The total expenditure for the above-said recommended exploration and development work, is in the order of \$35,000.00.

Respectfully submitted,

CANA EXPLORATION CONSULTANTS LIMITED

Toronto, Ontario,  
September 15th, 1965.

S. S. SZETU, Ph.D.,  
Consulting Geologist.

#### SELECTED REFERENCES

- (1) Murdoch, W. P., P.Eng., (June 18, 1957): Baldwin Township Copper Property of Federal Kirkland Mining Company in Baldwin and Porter Townships, Sudbury Mining Division, Ontario.
- (2) J. D. McCannell, Geologist, (July 15, 1965): Brismil Mines Limited, Baldwin and Porter Townships, Sudbury Mining Division, Ontario. Report to Cadamet Mines Limited.
- (3) Plan of Baldwin Property, including drill-hole locations and base-line geology, Cadamet Mines and Brismil Mines Limited, Dec. 11, 1962, with additional holes, 1965.
- (4) Vertical Longitudinal Projection, Baldwin Township Copper Property, Brismil Mines Limited, Dec. 13, 1962.
- (5) Map No. 1952-1, Township of Baldwin, Ontario Department of Mines.
- (6) Map 1523 G, Espanola, Geological Survey of Canada.

#### CERTIFICATE

I, S. S. SZETU, of Willowdale, in the Province of Ontario, hereby certify:

1. THAT I reside at 36 Whittaker Crescent, Willowdale, Ontario, and am a Consulting Geologist. My office is located at Suite 427, 12 Richmond Street East, Toronto 1, Ontario.
2. THAT I hold a Degree of B.Sc. in Geology, 1941, from National Sun Yet Sen University, China, and a Degree of Ph.D. in Geology, 1954, University of Toronto, and that I have been practising my profession in geological and geophysical explorations since graduation.
3. THAT I am a Fellow of the Geological Association of Canada, Member of the Mineralogical Association of Canada, the American Geophysical Union and The Canadian Institute of Mining and Metallurgy (Toronto Branch).
4. THAT I have no interest directly or indirectly, nor do I expect to receive any interest directly or indirectly in any securities issued by Globe Exploration & Mining Co. Ltd. or in the property referred to in the accompanying report or in any other properties in which Globe Exploration & Mining Co. Ltd. has, to my knowledge, any direct interest.
5. THAT the accompanying report is based on a study of available Government Geological and Aeromagnetic Maps and on reports and maps by a Professional Engineer and a Geologist of previous owners of the property.

Dated at Toronto, Ontario,  
this 15th day of September, 1965.

S. S. SZETU, Ph.D.,  
Consulting Geologist.

