MME Form 9
Rev. Nov. 65

UNITED STATES
DEPARTMENT OF THE INTERIOR
Geological Survey

OFFICIAL DOCKET FILE Contract No. _____ Docket No. 6869

Application
- [ ] Denied
- [ ] Withdrawn

Contract
- [ ] Terminated - Not Certified
- [ ] Terminated - Certified
- [ ] Cancelled
- [ ] Royalty Agreement

The records contained in this file are marked (x) and arranged in this order:

Folder No. 1:

Left Side

- [ ] Royalty Audits
- [ ] Certification of Discovery
- [ ] Closing Letter
- [ ] Cost Audits
- [ ] Termination Notice or Agreement
- [ ] Recision Notice
- [ ] Assignment of Contract
- [ ] Contract Amendments
- [ ] Contract with all exhibits and annexes
- [ ] Owner's Consent to Lien and Subordination Agreement
- [x] Application and Attachments

Right Side

- [ ] Project Summary (final)
- [ ] Work Completed Analysis (final)
- All other material filed in chronological order including the following reports if checked:
- [ ] Field Team Semiannual Report for Certified Project
- [ ] Final Field Team Report (Tab)
- [ ] Operator's Final Report (Tab)
- [ ] Interim Field Team Reports
- [ ] Operator's monthly reports and all attachments
- [ ] On-site Exam. Report (Tab)
- [ ] Settlement Sheets
- [ ] Drill Logs

Additional Folders:

Left Side

Folders No. _____: Reports
- [ ] Analysis of Semiannual Inspection Reports
- [ ] Project Summary (Interim) by MME Engineers

Right Side

- [ ] Field Team Semiannual Report for Certified Project
- [ ] Field Team Interim Reports
- [ ] Operator's Monthly Reports with Transmittal, Narrative and Maps

Folders No. _____: Maps (Use pocket folder or envelope)

Folders No. _____: Settlement Sheets

Folders No. _____: Drill Logs

Folders No. _____: Royalty Material

72195-65

United States Department of the Interior

GEOLOGICAL SURVEY
301 WEST CUMBERLAND AVE.
KNOXVILLE, TENN. 37902

February 25, 1972

Air Mail

Memorandum

To: Mr. Harold Kirkemo
Office of Minerals Exploration
U. S. Geological Survey, Washington, D. C. 20242

From: Margaret Gower
U. S. Geological Survey
301 West Cumberland Ave., Knoxville, Tenn. 37902

Subject: Application for financial assistance
(copper and silver)
Property - Harriman Ground, Bluehill, Maine, U.S.A.
Torcan Explorations Limited (NPL)
Suite 2
111 Jarvis Street
Toronto 1, Ontario, Canada

Application for financial assistance from the above named company was received this morning in the absence of Mr. Laurence. It is being mailed to you today, instead of waiting for Mr. Laurence's return to the office - March 1 - as it would be delayed a week in reaching you. No copies of anything have been retained in the Knoxville office.

Margaret Gower
Margaret Gower
Secretary

Enclosures 15

MME Form 40
(Revised Nov. 68)

Budget Bureau No. 42-R1368
Approval expires Dec. 1971

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR FINANCIAL ASSISTANCE IN MINERALS EXPLORATION

Pursuant to Public Law 85—701 (72 Stat. 700; 30 U.S.C. 641)

NAME OF APPLICANT *(Full legal name and mailing address as they should appear on contract if one is executed.)*

TORCAN EXPLORATIONS LIMITED (NPL)
SUITE 2
111 JARVIS STREET
TORONTO, CANADA

APPLICANT DO NOT USE THIS BLOCK

DOCKET NUMBER: 6869

DATE RECEIVED: 2/28/72

REGION: IV

DIVISION CODE:

BUSINESS ORGANIZATION *(Check one)*

- INDIVIDUAL [ ]
- CORPORATION [X]
- PARTNERSHIP [ ]
- OTHER *(Specify)* [ ]

STATE IN WHICH FIRM IS ORGANIZED: QUEBEC COMPANY

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

NAME	ADDRESS	TITLE
PATRICK J. SULLIVAN	105 TREVERTON DRIVE, SCARBOROUGH, ONTARIO	PRESIDENT
WILLIAM D. MACLEAN	290 RIVERSIDE DRIVE, OAKVILLE, ONTARIO	VICE-PRES.
O. E. SMITH	5 ELM AVENUE, TORONTO, ONTARIO	SECRETARY-TREASURER

MINERAL(S) FOR WHICH YOU WISH TO EXPLORE: COPPER AND SILVER

ESTIMATED COST OF PROJECT: $40,000

PROPERTY NAME	LOCATION COUNTY	STATE
HARRIMAN GROUND	BLUEHILL	MAINE, U.S.A.

GENERAL INSTRUCTIONS

Before filling out this application, please read the *OME Regulations for Obtaining Federal Assistance in Financing Explorations for Mineral Reserves* (30 CFR Chap. II). To assure prompt action, your application must provide all applicable material and information specified on the back of this application form. Avoid unnecessary correspondence and delays by submitting complete and accurate information. *Please submit two copies of this application and all accompanying papers* except as otherwise noted. Place your name and address on each sheet. Each item of information, maps, and reports required as a part of this application is described on the back of this form. Identify each attached statement by the item number to which it applies. If an item does not apply to your application, show the item number on your statement and after it write "not applicable." Maps or sketches should be used to supplement narrative descriptions of the property location and boundaries in item 2, existing mine workings and geology in item 3, and the proposed exploration work in item 5. When this information is not too complex, all of it may be shown on one map or sketch. All documents and other attachments submitted as a part of this application, except those in item 3(g) which you mark to be returned, become the property of the Government and will not be returned to the applicant. Send true copies, *not originals*, of leases, contracts, and other documents which are an essential part of your business records. *File this application with the Department of the Interior, U.S. Geological Survey, Office of Minerals Exploration, Washington, D. C., 20242, or with the nearest OME Field Office.*

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief, and that he would not ordinarily undertake the proposed exploration under current conditions and circumstances at his sole expense.

TORCAN EXPLORATIONS LIMITED (NPL)

Patrick J. Sullivan
BY *(Signature)*

PRESIDENT
TITLE

FEBRUARY 22, 1972
DATED

A wilfully false statement or certification to any Department or Agency of the United States Government is a criminal offense.
U. S. Code, Title 18, Sec. 1001.

INFORMATION REQUIRED WITH THIS APPLICATION

1. Financial Eligibility:

(a) Submit evidence of efforts made within 90 days preceding the filing of this application to obtain credit from your bank of account and at least one other banking institution or other private source of credit. Such evidence shall include (1) true copies of your letters to credit sources which show date of loan request, amount and terms requested, and proposed use of loan funds and (2) true copies of replies from credit sources. If the loan was offered under terms which you consider unreasonable, state why you consider them so.

(b) List names and addresses of affiliated, parent, or controlling companies or organizations and state extent and nature of their interest.

(c) State how you propose to furnish your share of the cost of the exploration work.

2. Applicant's Rights in Land:

(a) State your interest in the land and mineral rights, whether owner, lessee, purchaser under contract, or other. If you are not the owner, submit one true copy of the lease, contract, or other document (with address of owner) under which you control the property. Describe all liens, mortgages, or other encumbrances on the land and state book and page number and official place where recorded.

(b) State the legal description (section, township, and range; metes and bounds; patent number of claims) of the land upon which you wish to explore and all adjacent land which you own or control. Describe any part of the land or workings which should not be subject to Government royalty and liens. If the land consists of unpatented claims, state book and page number for each recorded location notice, including amended locations, and official place where recorded. State all the names by which you know the property.

(c) For all land or mineral rights encumbered or not owned, submit five copies of Lien and Subordination Agreements signed by owner on MME Form 52. If the agreements cannot be obtained, state reasons and whether you can furnish a performance bond.

3. Physical Description:

(a) Describe in detail and illustrate with maps or sketches all mining or exploration operations which you know have been or are being conducted upon the land. Include existing mine workings and all production facilities.

(b) State your interest, if any, in operations described in (a)

(c) State, if you know, the past and current production, supporting your statement with copies of settlement sheets, mine records, or published data if available.

(d) Describe known ore reserves, giving quantities and grades.

(e) Describe by narrative and maps or sketches the geologic features of the property, including ore minerals, geologic formations if known, and type of deposit (vein, bedded, etc.).

(f) If you have sampled the area you propose to explore, show where the samples were taken, describe sampling methods used, and provide copies of assay certificates. State your reasons for expecting to find ore.

(g) Send with your application at least *two* copies of all geologic or engineering reports, assay maps, or technologic information which you have, indicating whether you require their return.

4. Accessibility of Property:

(a) To aid the OME representative who may examine the property state name, address, and telephone number of person who will meet him; give directions for reaching the property; and describe accessibility of property and of any mine workings.

(b) Name the shipping and supply points and state the distances to the property.

5. Exploration Work:

(a) Describe fully the proposed exploration work giving individual footages and sizes of openings *for each item of work*. Use narrative, maps, plans, and sections as necessary. Show location of the proposed work as related to geologic features such as veins, ore-bearing beds, contacts of rock formations, etc. Show also the relation of the proposed work to any existing mine workings and to *land boundaries* or to the closest identifiable corner.

(b) If an access road must be built, show the proposed location on the property map and state the length, type and construction methods proposed.

(c) If an OME contract is executed, state how soon thereafter work would be started and finished. State your anticipated average daily or monthly rate of progress for each type of work.

6. Experience:

State your operating experience and background to conduct this exploration work and also that of the person who will supervise the work.

7. Estimate of Costs:

Furnish detailed estimates of the necessary costs for time and materials *for each item of the work proposed in 5(a)* under the headings listed below with a total for each heading and the estimated total cost of the work. Costs for any work to be performed by an independent contractor should be listed separately under category (a) below. Costs for any work that is not to be performed by an independent contractor should be listed under categories (b) through (g).

(a) Independent contracts. State the total cost of any proposed independent contract for all or any part of the work, and the number of units and the unit cost for each type of work, such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, or per cubic yard of material moved. Cost estimates should be supported by bids from three contractors if possible. (*Note*—If none of the work is to be contracted, write "none" after this item.)

(b) Personal services. The cost of supervision, engineering and geological services, outside consultants, and labor should be itemized by numbers and classes of employees; rates of wages, salaries or fees; and periods of employment. State whether these services are available.

(c) Operating materials and supplies. List items of material and supplies giving quantity and price of each. Include under this heading power, water, and fuel, and units of equipment and tools costing less than $50 each.

(d) Operating equipment. List items of equipment and tools costing $50 or more per unit. Give specifications and indicate how each item is to be acquired—i. e., rented, purchased or provided by the applicant. If rented or purchased, state the estimated rental or purchase price. If furnished by the applicant, state condition and present fair market value.

(e) Initial rehabilitation and repairs. Describe the type and the cost of *initial* rehabilitation or repair of existing buildings, fixtures, installations (exclusive of mine workings), and movable operating equipment now owned by the applicant which will be used in the exploration work.

(f) New buildings, fixtures, installations. Describe each building, fixed improvement, and installation to be purchased, constructed, or installed for the exploration work, stating specifications and cost including labor, materials, and supervision.

(g) Miscellaneous. Describe the type and estimate the cost of repairs and maintenance of the operating equipment listed in 7(d). Do not repeat initial repairs listed in 7(e). Show also the costs of analytical work, accounting, workmen's compensation and employees' liability insurance, payroll taxes, and other required costs that do not fall within the previous categories. [*Note*—The Government will not contribute to costs incurred before the date of the contract, or to costs of or incident to: (1) acquiring, using, or possessing land and any existing improvements, facilities, buildings, installations, and appurtenances, or the depreciation and depletion thereof; (2) general overhead, corporate management, interest and taxes (other than payroll and sales taxes); (3) insurance (other than employees' liability insurance); and (4) damages to persons or property (other than authorized repair to or replacement of equipment or other property used in the work).]

TORCAN EXPLORATIONS LIMITED

LISTED: CANADIAN STOCK EXCHANGE

111 JARVIS STREET
TORONTO 1, ONTARIO
363-4700

RECEIVED
FEB 25 1972
U. S. Geological Survey
Geologic Division
Knoxville, Tenn.

FEBRUARY 22, 1972

DEPARTMENT OF THE INTERIOR
ROOM 11
POST OFFICE BUILDING
KNOXSVILLE, TENNESSEE 37902

DEAR SIRS:

WE WISH TO MAKE APPLICATION FOR FINANCIAL ASSISTANCE IN EXPLORATION ON OUR PROPERTY IN THE STATE OF MAINE AND IN THIS CONNECTION ENCLOSE THE FOLLOWING MATERIAL:

TWO COPIES OF FORMAL APPLICATION - YOUR FORM MME 40;

FINANCIAL ELIGIBILITY

1. (A) COPIES OF OUR LETTERS TO THE CANADIAN IMPERIAL BANK OF COMMERCE AND THE GUARANTY TRUST COMPANY OF CANADA, DATED DECEMBER 10, 1971, REQUESTING A LOAN OF $20,000 TO ASSIST US IN THE WORK TO BE PERFORMED ON OUR PROPERTY, AND THEIR REPLIES. WE WERE UNABLE TO OBTAIN A LOAN BECAUSE TORCAN DOES NOT HAVE ANY COLLATERAL;

(B) NOT APPLICABLE;

(C) TORCAN HAS $20,000 ON HAND WHICH IS BEING RESERVED FOR THE PERFORMANCE OF EXPLORATION WORK ON OUR PROPERTY IN MAINE.

APPLICANT'S RIGHTS IN LAND

1. (A) WE OWN THE MINERAL RIGHTS TO THE HARRIMAN GROUND IN BLUEHILL, STATE OF MAINE AND HOLD 10 MINERAL CLAIMS UNDER PROSPECTOR'S PERMIT NO. 72-15, GOOD UNTIL DECEMBER 31, 1972, ALSO LOCATED IN BLUEHILL, MAINE;

(B) A COPY OF THE HARRIMAN DEED IS ENCLOSED GIVING THE LEGAL DESCRIPTION OF THE PROPERTY. THE 10 MINERAL CLAIMS HELD UNDER PROSPECTOR'S PERMIT ARE UNDER FIRST POND, BLUEHILL, MAINE;

(C) NOT APPLICABLE.

..... 2

PHYSICAL DESCRIPTION

3. (A) NO MINE EQUIPMENT ON THE PROPERTY;

(B) OUR INTEREST IN THE WORK TO BE PERFORMED ON THE PROPERTY IS 100%;

(C) NOT AVAILABLE;

(D) SEE REPORT ON THE PROPERTY DATED AUGUST 25, 1971, PREPARED BY H. GRANT HARPER, P. ENG. ECONOMIC GEOLOGIST;

(E) SEE ABOVE REPORT;

(F) SEE ABOVE REPORT;

(G) TWO COPIES OF REPORTS ENCLOSED, WE DO NOT REQUIRE THEIR RETURN.

ACCESSIBILITY OF PROPERTY

4. (A) ROBERT G. DOYLE, STATE GEOLOGIST, AUGUSTA, MAINE, 04330 TELEPHONE (207) 289-2801;

(B) THE PROPERTY IS READILY ACCESSIBLE BY CAR AND IS REACHED BY A BRANCH ROAD FROM THE GRINDLE ROAD WHICH LEADS SOUTH FROM HIGHWAY 176 NEAR THE TOWN OF BLUE HILL.

EXPLORATION WORK

5. (A) SEE LETTER DATED DECEMBER 2, 1971, FROM OUR CONSULTANT H. GRANT HARPER, P. ENG. OUTLINING THE EXPLORATION WORK TO BE CARRIED OUT ON THE PROPERTY;

(B) NOT APPLICABLE;

(C) AS SOON AS A SUITABLE CONTRACT IS SIGNED - IMMEDIATELY IF POSSIBLE.

EXPERIENCE

6. (A) IT IS ANTICIPATED THAT THE WORK WILL BE PERFORMED BY PROFESSIONAL DIAMOND DRILLERS AND WILL BE SUPERVISED BY AN INDEPENDENT CONSULTANT.

ESTIMATE OF COSTS

7. IT IS ESTIMATED THAT THE COST TO WEDGE ONE HOLE WILL BE APPROXIMATELY $20,000 AND TORCAN IS ABLE TO PROVIDE

..... 3

THESE FUNDS. IF WE ARE ABLE TO RECEIVE FINANCIAL ASSISTANCE IN OUR PROGRAM WE WILL WEDGE TWO HOLES. THE WORK WILL BE PERFORMED BY AN OUTSIDE DIAMOND DRILLING CONTRACTOR AND THE COMPANY WILL NOT HAVE TO PURCHASE OPERATING EQUIPMENT, MATERIALS, SUPPLIES, ETC., AND WILL NOT HAVE A PAYROLL AS ALL EMPLOYEES WILL WORK FOR THE CONTRACTOR.

PLEASE LET US KNOW IF YOU REQUIRE ANY FURTHER INFORMATION.

YOURS VERY TRULY,

TORCAN EXPLORATIONS LIMITED

Patrick J. Sullivan

PATRICK J. SULLIVAN,
PRESIDENT.

PJS:s
ENCS.

PLEASE ADDRESS REPLY TO
THE MANAGER

BAY AND RICHMOND
375 BAY ST.
TORONTO 105, ONT.

CANADIAN IMPERIAL
BANK OF COMMERCE

February 16, 1972

Torcan Explorations Ltd.,
111 Jarvis Street,
Toronto, Ontario.

Att: Patrick J. Sullivan Esq., President

Dear Sirs

In reply to your letter of December 20, 1971, wherein you have requested our consideration of a loan in the amount of $ 20,000, we regret to inform you that we are unable to grant your request.

Yours very truly,

D. T. Norquay,
Assistant Manager.

DTN/eu

DECEMBER 20, 1971

THE MANAGER
CANADIAN IMPERIAL BANK OF COMMERCE
375 BAY STREET
TORONTO, ONTARIO

DEAR SIR:

WE ENCLOSE HEREWITH FINANCIAL STATEMENTS OF OUR COMPANY DATED NOVEMBER 30, 1971.

OUR PLANS ARE TO WEDGE THE TWO DIAMOND DRILL HOLES ON OUR MINING PROPERTIES IN HANCOCK COUNTY, MAINE, AS MORE FULLY DESCRIBED IN THE REPORT OF OUR CONSULTANT, H. GRANT HARPER, A COPY OF WHICH IS ATTACHED.

UPON A CLOSER PERSONAL EXAMINATION OF THE PROPERTYES IT IS ESTIMATED THAT THE TOTAL COST WILL BE APPROXIMATELY $40,000.00.

WE HEREBY REQUEST YOUR CONSIDERATION OF A LOAN IN THE AMOUNT OF $20,000.00 TO PROCEED WITH OUR DRILLING PROGRAM, THE COMPANY BEING PREPARED TO SUPPLY ANY COLLATERAL WITHIN ITS POWER.

YOURS VERY TRULY,

TORCAN EXPLORATIONS LIMITED

PJS:s
ENCS.

PATRICK J. SULLIVAN,
PRESIDENT.

Guaranty Trust Company of Canada

Offices and Agencies throughout Canada

In reply refer to

TEL. NO. 863-5093
366 BAY STREET
TORONTO, CANADA
January 11, 1972

Mr. Patrick J. Sullivan
President
Torcan Explorations Limited
111 Jarvis Street
Toronto 1, Ontario

Dear Mr. Sullivan:

In reply to your letter of December 20th wherein you have requested our consideration of loan accommodation in an amount of $20,000.00, we regret to inform you that we are unable to grant such accommodation.

Yours very truly

R. L. Armstrong
General Manager

RLA:mh

DECEMBER 20, 1971

THE MANAGER
GUARANTY TRUST COMPANY OF CANADA
366 BAY STREET
TORONTO, ONTARIO

DEAR SIR:

WE ENCLOSE HEREWITH FINANCIAL STATEMENTS OF OUR COMPANY DATED NOVEMBER 30, 1971.

OUR PLANS ARE TO WEDGE THE TWO DIAMOND DRILL HOLES ON OUR MINING PROPERTIES IN HANCOCK COUNTY, MAINE, AS MORE FULLY DESCRIBED IN THE REPORT OF OUR CONSULTANT, H. GRANT HARPER, A COPY OF WHICH IS ATTACHED.

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WE HEREBY REQUEST YOUR CONSIDERATION OF A LOAN IN THE AMOUNT OF $20,000.00 TO PROCEED WITH OUR DRILLING PROGRAM, THE COMPANY BEING PREPARED TO SUPPLY ANY COLLATERAL WITHIN ITS POWER.

YOURS VERY TRULY,

TORCAN EXPLORATIONS LIMITED

PJS:s
ENCS.

PATRICK J. SULLIVAN,
PRESIDENT.

DECEMBER 29, 1971

AUSTIN H. WILKINS, ESQ.
CHAIRMAN
MAINE MINING BUREAU
STATE HOUSE
AUGUSTA, MAINE 04330

DEAR MR. WILKINS:

MINING CLAIMS 65, 68, 85, 86, 87, 88,
1185, 1186, 1187, 1172, FIRST POND,
BLUE HILL, HANCOCK COUNTY, MAINE

THANK YOU FOR YOUR LETTER OF DECEMBER 22, 1971 AND OUR PROSPECTOR'S PERMIT NO. 72-15 COVERING RENEWAL OF THE ABOVE CLAIMS FOR THE PERIOD JANUARY 1, 1972 TO DECEMBER 31, 1972.

WE WISH TO ADVISE THAT WE AGREE TO THE RENEWAL TERMS CALLING FOR THE EXPENDITURE OF A MINIMUM OF $15,000.00 ON OUR PROPERTIES IN MAINE. THE DRILLING WILL BE DONE ON THE HARRIMAN GROUND IN 1972.

YOURS VERY TRULY,

TORCAN EXPLORATIONS LIMITED

PJS:s

PATRICK J. SULLIVAN,
PRESIDENT.

cc: H. GRANT HARPER

Form B

STATE OF MAINE
MAINE MINING BUREAU

PROSPECTOR'S PERMIT NO. 72— 15

Expires Midnight, December 31, 1972

These presents certify that Torcan Explorations Limited
111 Jarvis Street
Toronto 1, Ontario

is authorized to enter upon lands owned by the State of Maine, including lands held in trust, when the trust is such as to be consistent with mineral development, for the purpose of prospecting for valuable minerals and metals except water, sand and gravel, in accordance with the provisions of the Maine Mining Bureau, M.R.S., Chap. 401, Sec. 2102, as amended. If machinery or explosives are to be used for prospecting on state land, the methods to be employed and the amount of explosives to be allowed must first be approved by the Mining Bureau, and a permit obtained from the Bureau.

---- -- -- First Issue

Date of Birth Weight Height Renewal X

December 21, 1971

Date Authorized Signature
Maine Mining Bureau

Keep this certificate on your person when prospecting on state lands.

State of Maine
MAINE MINING BUREAU
Augusta, Maine 04330
TEL. 207-289-2801

AUSTIN H. WILKINS
CHAIRMAN

ROBERT G. DOYLE
ADMINISTRATOR

December 22, 1971

Mr. Patrick J. Sullivan, President
Torcan Explorations Limited
111 Harvis Street
Toronto 1, Ontario
CANADA

Dear Mr. Sullivan:

The Maine Mining Bureau has, by recent vote, approved your application for renewal of the ten claim block covering the overwater area of parts of First Pond, Blue Hill, Hancock County, Maine. These claims are Maine Mining Bureau numbers 65, 68, 85, 86, 87, 88, 1185, 1186, 1187, 1172.

This renewal is for the period from January 1, 1972 to December 31, 1972. Control of the claim block by Torcan Explorations, Ltd. beyond that time is subject to review and approval by the Bureau.

Approval of the 1972 renewal is predicated on your letter of October 28, 1971, indicating your firm intention to expend $15,000 minimum on the Torcan properties. A letter from your consultant, H.G. Harper, dated December 2, 1971, describes the detailed plan for expenditure of this money. The Bureau further accepts that the work will be done on Hole No. I in the Harriman Property north of First Pond.

Your assessment balance on the First Pond claim block is $14,121.13. The assessment for 1971 of $1,000 is subtracted from the total amount leaving you a balance of $13,121.13.

Mr. Doyle acknowledges receipt of your check No. 0557245 in the amount of $105 (U.S.F.) to cover the renewal fees for your claims and Prospector's Permit.

Would you please advise me if the conditions for renewal are in agreement with your plans. Upon receipt of such letter from your office, the claims are renewed for 1972.

Very truly yours,

Austin H. Wilkins

AUSTIN H. WILKINS
Chairman

AHW:as

H. GRANT HARPER, P.Eng.
ECONOMIC GEOLOGIST
314 HENDON AVENUE
WILLOWDALE, ONTARIO

MEMBER: C.I.M.M.
G.A.C.
BOARD OF TRADE

BA. 5-7412

December 2, 1971.

Mr. P. J. Sullivan, President,
Torcan Explorations Ltd.,
111 Jarvis St.,
Toronto, Ontario.

Dear Mr. Sullivan:

As requested by Mr. R. G. Doyle, Geologist for the State of Maine, here are the exploration plans I envisage for developing your Hancock County property during 1972 and 1973.

During 1972 Torcan's work effort will be concentrated on the Harriman ground. Here, the No. 1 drill hole will have about 850 feet of AX casing permanently replaced. The hole will then be non-directionally wedged at about 1900 feet and some 700 to 800 feet will be cored to provide intersections of the 4 horizons which returned base metal values that have commercial potential. This drill hole will then be in excellent shape for future directional wedging which will allow more accurate appraisal of the ore making potential in the vicinity of this hole.

At the present time Phil Douglas of Blue Hill has been engaged to manually probe to see if the collar of Hole No. 2 drilled on the staked claims can be re-located. Douglas worked on this drill hole. If Douglas is successful an attempt will be made in 1972 to re-establish BX casing in this hole in preparation for re-casing with AX to about 1200 feet and wedging this hole in 1973.

If the 1973 program is successful then drill hole No. 2 will be in excellent condition to be used to increase the mining potential of the staked claims.

Yours truly,

H. G. Harper.

HGH:m

H. Grant Harper, P.Eng.,

TORCAN EXPLORATIONS LTD.

BASE METAL PROSPECT

HANCOCK COUNTY, MAINE, U.S.A.

INTRODUCTION

This is a report on a mining property located in Hancock County, State of Maine, U.S.A. and owned by Torcan Explorations Ltd. The purpose of this report is to summarize the exploration work completed on this property and to recommend a program for its further development.

This report is based on the following sources of information.

1. Company reports by E.A. Hart, Registered Engineer, Province of Manitoba, including diamond drill logs and assay results.

2. I have not made a personal inspection of this property. I have examined the adjoining property of Black Hawk Mining Ltd. and engaged in the exploration of the Cape Rosier Mine, the only producer in the immediate area.

PROPERTY & LOCATION

The Torcan property includes the Harriman ground and First Pond. Torcan owns the mineral rights under the Harriman ground and holds 10 claims under First Pond under Prospector's Permit 71-15. The claims are numbered 65, 68, 85 to 88 inclusive, 1186, 1187 and 1172.

The Torcan property is located to the south and east of that belonging to Black Hawk Mining Ltd. and adjoins that of Roman Corporation. It is located near Blue Hill, Hancock County, State of Maine.

ACCESS & FACILITIES

The property is readily accessible by car. It is reached by a branch road from the Grindle Road which leads south from Highway 176 near the town of Blue Hill.

Facilities on the property of note and of use are two deep drill holes (2815 ft. and 3253 ft. deep) which can be wedged to obtain further intersections of the known deep-seated mineralization.

There is no mining equipment on the property.

HISTORY & DEVELOPMENT

Sulphide mineralization has been known in the Blue Hill area of Maine for about 100 years. About the time of the first world war some outcroppings of copper ore were mined from the Black Hawk Property about 1/2 mile northwest of the Torcan property. Commencing about 1954 and sparked by C.H.E. Stewart, P.Eng. and the A.W. White interests, Canadian exploration companies became active in the State of Maine. The chief results of this activity was the placing into production at 500 tons per day the Cape Rosier Mine on Penobscot Bay which was the center of the A.W. White interests' activities; the development of a considerable tonnage of marginal grade ore by Black Hawk Mining Ltd., and the discovery of potentially valuable mineralized zones of which the Torcan property is an example.

The most recent activity in the area is the optioning of the Black Hawk and Roman Corporation properties by Keradamex, Inc., the wholly owned American exploration arm of Kerr Addison

Mines Ltd. This property adjoins that of Torcan on the northwest and Torcan owns the down dip extensions of the sulphide bearing geological horizon.

GENERAL GEOLOGY

The general geology of the mining areas of Maine have not been deciphered to the same degree as the mining camps of Canada.

Within the Penobscot-Blue Hill area of Maine, the rock types include volcanics, sediments and intrusives of either very late preCambrian or very early Cambrian age.

On the Black Hawk and Torcan properties the major formations are a series of sediments predominantly quartzites with minor beds of argillite, arkose and conglomerate which have been intruded by sill-like bodies of granite. The occasional lamprophyre dike is encountered.

At a certain horizon in the sediments surface exposures of sulphide mineralization have been known for years on what is now the Black Hawk property. This horizon dips onto the Torcan property at an angle of about 30 degrees, reaching the Torcan property at a depth of about 1900 ft.

ECONOMIC GEOLOGY

The Black Hawk property has been developed and explored by a 698 foot shaft, 5 levels at 100 ft. intervals and by extensive surface and underground diamond drilling. Several sulphide zones have been developed and a summary of these follows:

According to the Northern Miner, May 27, 1971, "proven and probable ore reserves before dilution are estimated at 412,000 tons grading 20% zinc and 0.5% copper and 209,000 tons grading 2.3% copper. There are possibly 650,000 tons of high grade zinc mineralization and 900,000 tons of copper mineralization in extensions of the proven and probable zones".

Torcan has completed two drill holes, approximately 1400 ft. apart on the Harriman ground. The north hole, which is nearest the Keradamex option, was drilled to a depth of 2815 ft., the south hole to a depth of 3253 ft. The following intersections were obtained.

DEPTH	WIDTH	% CU.	% ZN.	% PB.	OZS. AG.
Hole No. H-1					
1425	15.6	-	-	-	0.10
2020	15.0	0.14	-	-	0.35
2135	6.2	1.98	-	-	0.85
2290	9.0	2.25	-	-	0.34
2465	2.5	1.13	0.85	-	0.16
2585	6.6	0.98	-	-	-
Hole No. H-2					
2028	0.6	0.08	0.85	10.92	21.98
2885	2.0	1.59	-	-	-
2950	6.2	0.30	26.13	6.26	3.53
2975	4.9	1.13	-	-	-

Hole No. H-1 is located about 2700 feet southeast of the Black Hawk shaft and Hole H-2 is located a further 1400 feet southeast. The drill results clearly indicate the excellent exploration potential of the Torcan ground and, in addition, certain geological conditions indicate a further potential.

The following geological facts need consideration when exploring the Torcan property:

1. Ore shoots occur below the bottom of the Black Hawk shaft.

2. The last occurrence of valuable mineral in Hole H-1 is 55 ft. above the bottom of the hole.

3. The last occurrence of valuable mineral in Hole H-2 is 100 ft. above the bottom of the hole.

Since no clearly defined "basement rock" has been encountered in either drill hole and since the several horizons of mineralization extend over a vertical height of several hundreds of feet, there is a reasonable possibility that more zones of mineralization lie beneath the bottom of Holes H-1 and H-2.

There is a further geological consideration which enhances the potential of the Torcan property. The better zones of mineralization indicated on the Black Hawk property and in the Torcan drill holes line up reasonably well considering the distance between them. This suggests that the Torcan drill holes have intersected the horizons favourable for mineralization on the Black Hawk property. However there are differences in the rock sequences. This might be an indication that the Torcan sulphide horizons are still stratigraphically above the sulphide horizons on the Black Hawk Property. In either event the course of action is clear, - a greater knowledge of the Black Hawk and Torcan stratigraphies is necessary.

CONCLUSIONS & RECOMMENDATIONS

1. Two deep drill holes on the Torcan property, 1400 feet apart, have intersected copper, lead, zinc and silver values which approach mineable grades across mineable vertical heights. The size of the mineralized zones is unknown.

2. Torcan should place wedges in its drill holes to deflect the line of the holes so as to gain further intersections

of the known mineralization at a low cost. This type of exploration does not allow the accurate calculation of ore reserves but it provides information which allows a crude estimate of tonnage and a better estimate of grade.

3. Torcan should take all possible steps to acquire stratigraphic information on the Black Hawk property and should correlate this information with its own; for it seems likely that the ultimate development of the Torcan property will be through mine workings on the Black Hawk property.

COST ESTIMATES

It is very difficult to estimate the cost of wedging diamond drill holes, for the placing of wedges is seldom done on a contract, but rather on a cost-plus basis. Therefore the cost of placing 2 or 3 wedges in drill hole H-1 is likely to be around $10,000.00.

My report is respectfully submitted.

H. G. Harper.

Willowdale, Ont.
August 25, 1971

H. Grant Harper, F.G.A.C., P.Eng.
Economic Geologist

CERTIFICATE

I, HUGH GRANT HARPER, of Metropolitan Toronto, in the Province of Ontario, certify as follows with respect to my Report entitled Torcan Explorations Ltd., Base Metal Prospect, Hancock County, Maine, U.S.A., dated August 25, 1971:

1. For over ten years I have been practising as an independent economic geologist, carrying on business aa

   H. Grant Harper, P.Eng.
   314 Hendon Avenue
   Willowdale, Ontario.

2. I graduated from the University of Toronto with the degree of B.A.Sc., 1950 and M.A.Sc., 1951 and have been engaged in my profession since that time. I am a Fellow of the Geological Association of Canada, a Member of the Ontario Association of Professional Engineers registered in the Mining Branch, a Member of the Canadian Institute of Mining and Metallurgy, and a Member of the Board of Trade of Metropolitan Toronto.

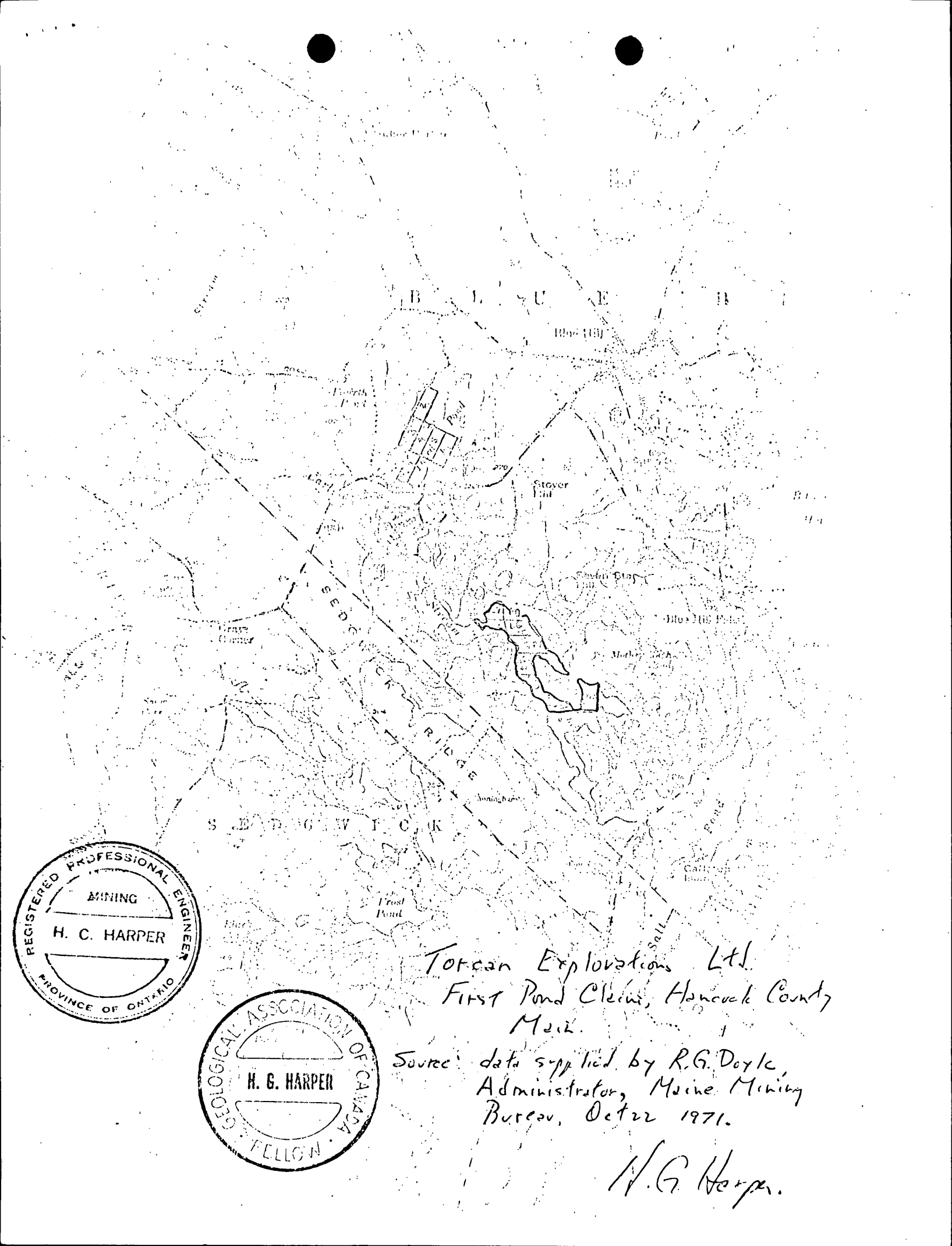
3. I have no interest, nor do I expect to receive any, either direct or indirect, in either the property or securities of Torcan Explorations Ltd.

4. I have not made a personal examination of this property. My report is based on the sources of information outlined in the body of the report and on my experience in exploring for mineral in the State of Maine.

H. G. Harper

Willowdale, Ontario
August 25, 1971

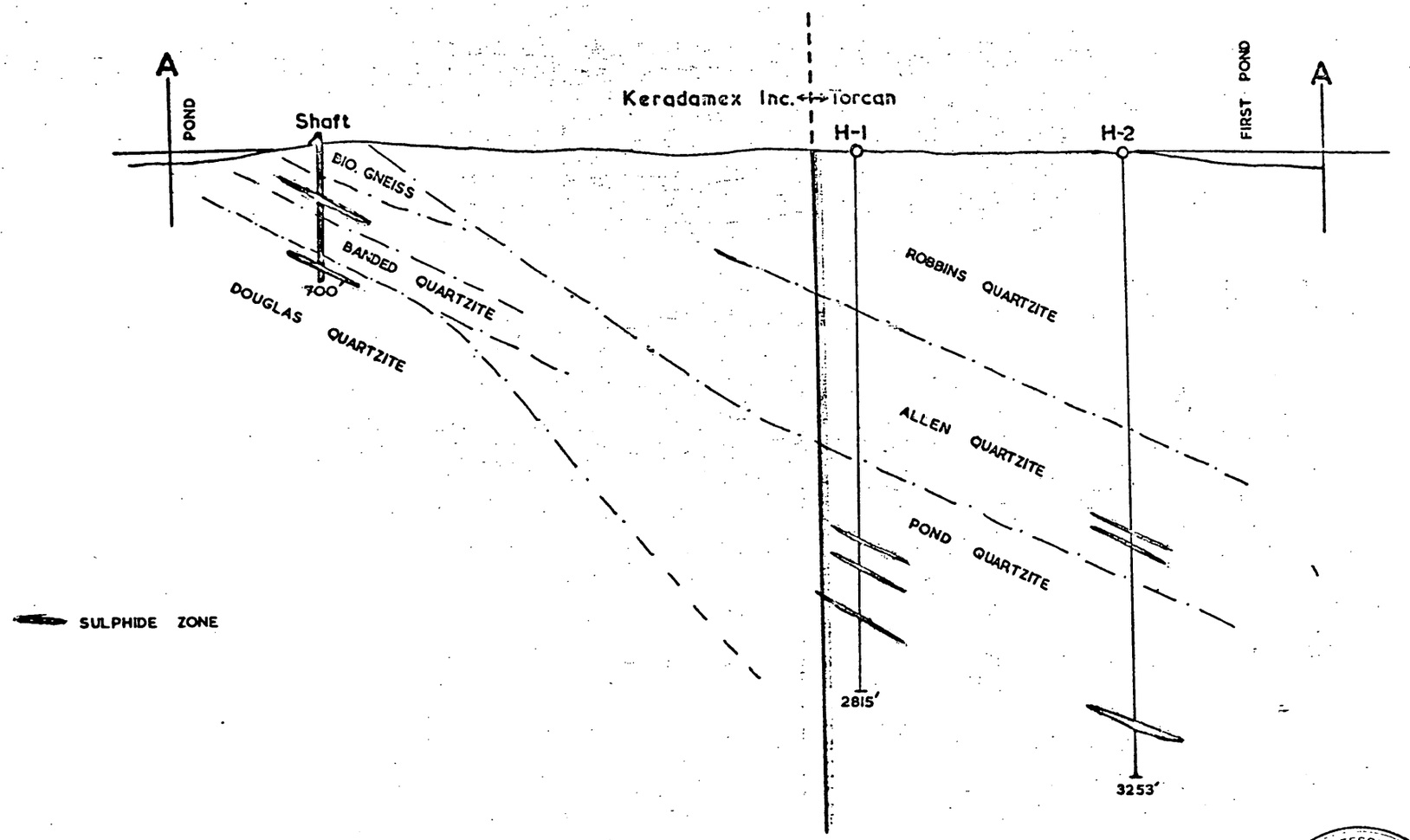
H. Grant Harper, F.G.A.C., P.Eng.
Economic Geologist



Torcan Explorations Ltd.
First Pond Claims, Hancock County
Maine.

Source: data supplied by R.G. Doyle,
Administrator, Maine Mining
Bureau, Oct 22 1971.

H.G. Harper.



Section A A

TORCAN EXPLORATIONS LTD

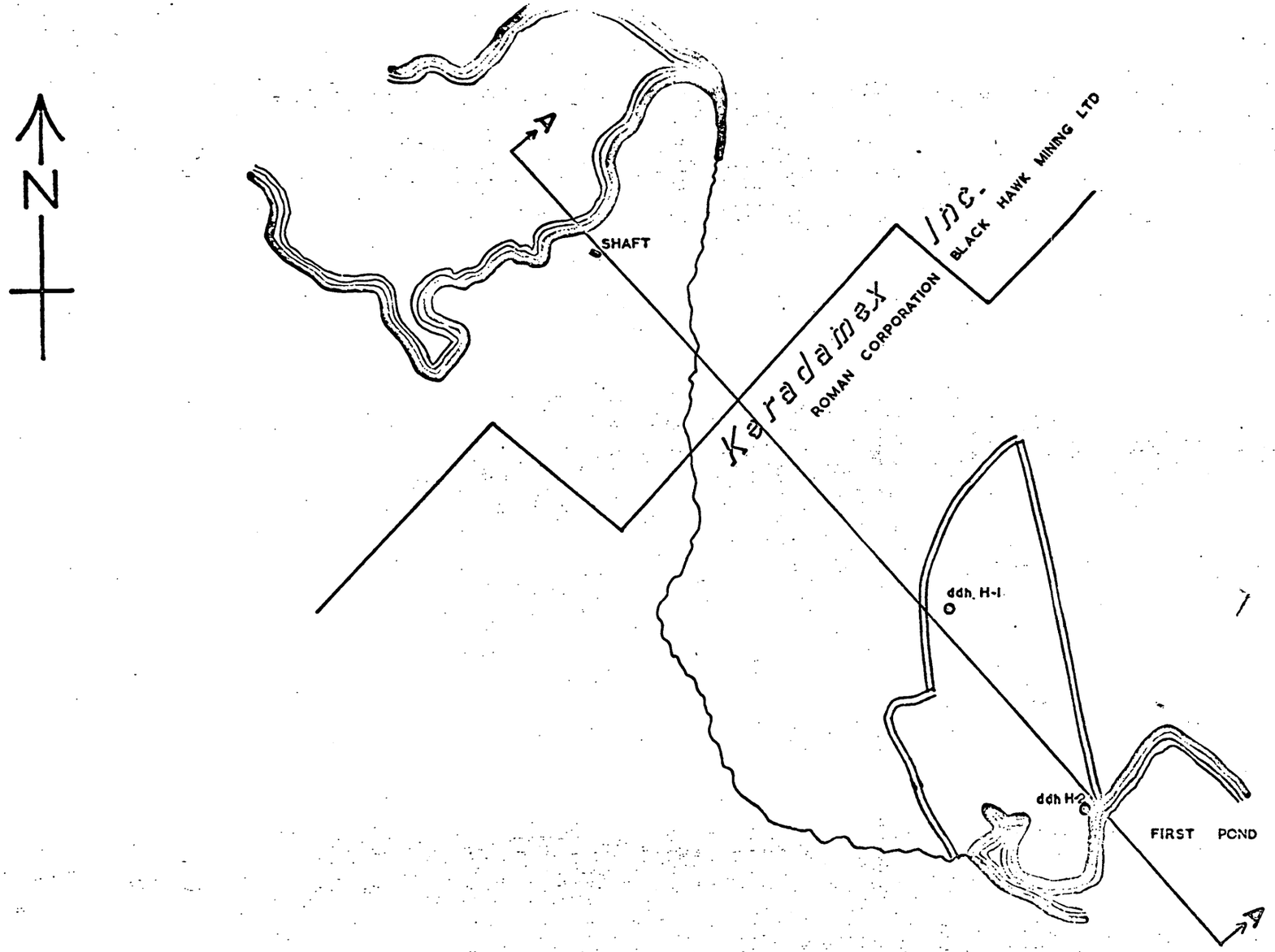
HANCOCK COUNTY, MAINE

0 600 1200 1800
FEET

REGISTERED PROFESSIONAL ENGINEER
MINING
H. C. HARPER
PROVINCE OF ONTARIO

GEOLOGICAL ASSOCIATION OF CANADA
H. G. HARPER

DATE AUG 2 5 71 SIGNED H.G. Harper.



0 600 1200 1800
FEET

TORCAN EXPLORATIONS LTD
HANCOCK COUNTY, MAINE

H. G. HARPER

REGISTERED PROFESSIONAL ENGINEER
MINING
H. C. HARPER
PROVINCE OF ONTARIO

DATE AUG 2 5 '71 SIGNED H.G. Harper.

Know All Men by These Presents,

That I, Winfred L. Harriman of Blue Hill, Hancock County, State of Maine,

in consideration of one dollar and other valuable considerations,

paid by Coastal Mining Ltd. a Canadian corporation having its principal place of business in Montreal, Province of Quebec, Dominion of Canada,

the receipt whereof I do hereby acknowledge, do hereby remise, release, bargain, sell and convey and forever quit-claim unto the said Coastal Mining Ltd., its successors

~~heirs~~ and assigns forever,

all the metals, ores and minerals of every kind situated in or under the following described premises in the Town of Blue Hill, Hancock County, State of Maine.

FIRST LOT: Being part of Lot Number 57 of the Third Division of lots according to the plan of said Blue Hill bounded and described as follows, to wit:

Beginning at a point on the southeasterly side of the Grindleville Road, so-called, where said road is intersected by the east line of said Lot Number 57; thence South 11° 34' East, true bearing, 2165 feet, more or less, to the shore of First Pond; thence following the shore of said pond in a generally southwesterly direction to the east side of the Grindleville Road at a point where Carlton Stream, so-called, crosses said road; thence following said road northerly and northeasterly to the point of beginning.

Excepting and not hereby conveying the metals, ores and minerals situated in or under the premises described in the following instruments:

1. Lease between Winfred L. Harriman and Blue Hill Fish and Game Association dated June 4, 1958, and recorded in Hancock County, Maine, Registry of Deeds in Book 822, Page 480.

2. Deed from Winfred L. Harriman to Robert G. Henderson et al dated June 26, 1960 and recorded in Hancock County, Maine, Registry of Deeds in Book 867, Page 408.

3. Deed from Winfred L. Harriman to Theodore A. Horton et al dated Sept. 3, 1958 and recorded in Hancock County, Maine, Registry of Deeds in Book 824, Page 109.

4. Deed from Winfred L. Harriman to Theodore A. Horton et al dated Aug. 10, 1959 and recorded in Hancock County, Maine, Registry of Deeds in Book 846, Page 210.

5. Deed from Winfred L. Harriman to Francis Grogan et al dated Nov. 10, 1961 and recorded in Hancock County, Maine, Registry of Deeds in Book 899, Page 102.

SECOND LOT: Being located on the west side of the Grindleville Road and bounded and described as follows:

Being eight (8) rods from the bridge on the road and bounded northerly, westerly and southwesterly by a fence and easterly by the Grindleville Road.

Excepting and not hereby conveying the metals, ores and minerals in or under the premises described in the following instruments:

1. Deed from Winfred L. Harriman to Cecil L. Grindle dated Sept. 6, 1961 and recorded in Hancock County, Maine, Registry of Deeds in Book 899, Page 295.

2. Lease between Leroy Harriman and Harry E. Tyler et al dated Sept. 1, 1961 and recorded in Hancock County, Maine, Registry of Deeds in Book 894, Page 453.

The above described first and second lots are part of the premises described as conveyed in a deed from George M. Allen et al to Florence M. Harriman dated May 4, 1927 and recorded in Hancock County, Maine Registry of Deeds in Book 635, Page 533.

Also being part of the premises described as conveyed in a deed from Florence M. Harriman to Winfred L. Harriman dated March 20, 1956 and recorded in Hancock County, Maine, Registry of Deeds in Book 782, Page 595.

To have and to hold the same, together with all the privileges and appurtenances thereunto belonging, to the said Coastal Mining Ltd. its successors

heirs and assigns forever.

And I do covenant with the said grantee, its heirs and assigns,

that I will Warrant and Forever Defend the premises to it the said Grantee, its / successors ~~heirs~~ and assigns forever, against the lawful claims and demands of all persons claiming by, through or under me.

In Witness Whereof. I, the said Winfred L. Harriman, widower,

~~xxxxx~~

~~xxxxx of the said~~

~~joining in this deed as Grantor, and relinquishing and conveying rights by descent and all other rights in the above described premises,~~ have hereunto set my hand and seal this 23rd day of March in the year of our Lord one thousand nine hundred and sixty-six.

Signed, Sealed and Delivered
in presence of

Kenneth W. Blaisdell — Winfred L. Harriman

State of Maine. Hancock ss. March 23, 1966.

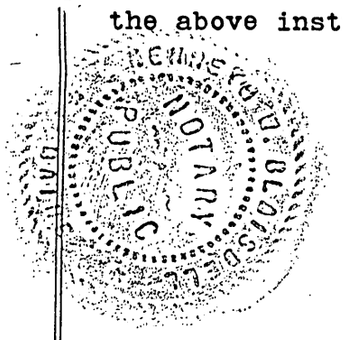
Personally appeared the above named Winfred L. Harriman

and acknowledged the above instrument to be his free act and deed.

Before me,

Kenneth W. Blaisdell

~~Justice of the Peace~~
Notary Public



STATE OF MAINE, HANCOCK COUNTY REGISTRY OF DEEDS.
Rec'd March 23 1966 at 3h. 30m. P. M. and recorded in book 1006 Page 46
by Jessie B. Patten Register.
by Mary P. Sprague, Deputy

BOOK 1006 PAGE 48

Quit-Claim Deed

WITH COVENANT

FROM

Winfred L. Harriman

TO

Coastal Mining Ltd.

Dated March 23, 19 66

State of Maine.

Hancock ss. Registry of Deeds

Received March 23 19 66

at 3 H., 30 M., P. M., and

recorded in Book 1006 Page 46

ATTEST: Jessie B. Patten REGISTER

by Mary P. Sprague Deputy

FROM THE OFFICE OF

Blaisdell & Blaisdell
Ellsworth, Maine

L. L. MARTIN, PORTLAND, ME. — OFFICE FURNITURE AND SUPPLIES
TYPEWRITERS, ADDING MACHINES, FILING CABINETS, SAFES, ETC.

MARTIN'S FORM NO. 2 — STANDARD REGISTRY FORM

23 - 330 - 1 - 5

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code

January 4, 1973

Memorandum

To: The File

From: Chief, Office of Minerals Exploration

Subject: OME-6869 (Copper-Silver)
Torcan Explorations Limited (NPL)
Harriman Ground
Hancock County, Maine

The Applicant has not replied to our letter of September 14, 1972. Accordingly, the subject docket is referred to the inactive file and the application considered as having been withdrawn.

Harold Kirkemo

Harold Kirkemo

cc: Director's reading file
Mineral Resources
OME reading file
Region IV - Mr. Laurence
Mr. Kirkemo
130

HKirkemo/cac 1/4/73

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
9-14	Weeks	

SEP 14 1972

Torcan Explorations Limited (NPL)
Suite 2 - 111 Jarvis Street
Toronto 1, Ontario, Canada

Re: OME-6869 (Copper-Silver)
Torcan Explorations Limited (NPL)
Harriman Ground
Hancock County, Maine

Gentlemen:

On May 18, 1972, we requested additional information concerning your application for exploration assistance, but to date we have not heard from you.

If you need additional time to prepare this information, please let us know. If we do not hear from you within 30 days from the date of this letter, we must assume that you are no longer interested in proceeding with your application, and we shall consider it as having been withdrawn. You may subsequently reinstate a withdrawn application at any time by reference to the docket number and by furnishing the information necessary to update letters to and from banks, cost estimates, and work plans.

Sincerely yours,

Harold Kirkemo

Harold Kirkemo
Chief, Office of
Minerals Exploration

cc: Director's reading file
Minerals Resources
OME reading file
Region IV
Mr. Weeks

RWeeks/cac 9-14-72

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
5/18	Weeks	B.Week
5/19	cee	120 MW

MAY 1 8 1972

Torcan Explorations Limited (NPL)
Suite 2 - 111 Jarvis Street
Toronto 1, Ontario, Canada

Re: OME-6869 (Copper-Silver)
Torcan Explorations Limited (NPL)
Harriman Ground
Hancock County, Maine

Gentlemen:

After studying all aspects of your application for financial assistance to explore the Harriman property we have the following comments to offer for your consideration:

1. The feasibility of the drilling proposal has not been confirmed by bids from competent and experienced drilling companies. The estimated cost of reentering, wedging, and drilling from drill hole H-1 is not supported by actual bids. The ultimate cost may be much greater or perhaps less than estimated.

2. What would be the dimensions, length and width, of the drill hole pattern as viewed in a horizontal plane assuming that more than one hole is proposed? Would the holes be designed to intersect the upper mineralized layers at distances of at least 100 feet from hole H-1? If not, the project would be considered development rather than exploration and, therefore, not eligible for OME assistance. How many holes are contemplated?

3. The assays from samples obtained from hole H-2 show that the principal value is due to the content of zinc and lead, neither of which is eligible for OME assistance. As the principal values in an OME exploration target must be due to the presence of eligible minerals, what additional information can you provide which would show that one could reasonably expect the principal values in your target area to be in copper and silver?

Demands to date on our limited budget this fiscal year make it impossible to support before July 1 a project in the amount you have requested even if the application had been approved. As in the past several years because of budget constraints, only modest assistance can be given to a few of the more promising proposals in the next fiscal year.

Answers to Items 1, 2 and 3 will help us in giving further consideration to your proposal. Submittal of new information should not be construed as a commitment by the Government to grant a contract.

Sincerely yours,

Harold Kirkemo
Chief, Office of
Minerals Exploration

cc: DRF
Mineral Resources
OME reading file
Region IV
Mr. Kirkemo
Mr. Weeks

HKirkemo:cac 5/18/72

TORCAN EXPLORATIONS LIMITED

LISTED: CANADIAN STOCK EXCHANGE

111 JARVIS STREET
TORONTO 1, ONTARIO
363-4700

APRIL 12, 1972

OFFICIAL COPY
O. M. E.
RECEIVED
APR 14 1972
INITIALS | CODE
Cal | 120
| 120
Rw | B Weeks
| 120

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON, D. C. 20242

ATTENTION: HAROLD KIRKEMO, CHIEF
OFFICE OF MINERAL EXPLORATIONS

DEAR SIRS;

YOUR FILE OME 6869 (COPPER-SILVER)
TORCAN EXPLORATIONS LIMITED
HARRIMAN GROUND, HANCOCK COUNTY, MAINE

FURTHER TO OUR LETTER OF APRIL 4, 1972, ENCLOSED PLEASE FIND TWO COPIES OF A BREAKDOWN OF THE COSTS ESTIMATED FOR THE WORK TO BE PERFORMED ON OUR HARRIMAN GROUND, TOGETHER WITH A REPORT ON THE PREVIOUS DRILLING AND THE DRILL LOGS.

YOURS VERY TRULY,

TORCAN EXPLORATIONS LIMITED

O. E. Smith

O. E. SMITH,
SECRETARY.

OES:s
ENCS.

TORCAN EXPLORATIONS LIMITED

LISTED: CANADIAN STOCK EXCHANGE

111 JARVIS STREET
TORONTO 1, ONTARIO
363-4700

APRIL 4, 1972

OFFICIAL
COPY
O. M. E.
RECEIVED
APR 10 1972

INITIALS	CODE
Cac	120 MW
	~~130~~
Rsw.	Bwcglas
	~~Bwcglas~~
	120

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON, D. C. 20242

ATTENTION: HAROLD KIRKEMO, CHIEF
OFFICE OF MINERAL EXPLORATIONS

DEAR SIRS:

YOUR FILE OME 6869 (COPPER-SILVER)
TORCAN EXPLORATIONS LIMITED
HARRIMAN GROUND, HANCOCK COUNTY, MAINE

IN REPLY TO YOUR LETTER OF MARCH 6, 1972, WE SUBMIT THE FOLLOWING INFORMATION AND MATERIAL, REPLYING TO YOUR LETTER BY PARAGRAPH NUMBERS:

YOUR PAR.2 ENCLOSED IS A COPY OF OUR AUDITED FINANCIAL STATEMENTS PREPARED BY STE-MARIE & MASSON, CHARTERED ACCOUNTANT, FOR THE YEAR ENDING DECEMBER 31, 1971;

" 3. ENCLOSED IS A COPY OF SUPPLEMENTARY LETTERS PATENT CHANGING THE NAME OF COASTAL MINING TO TORCAN EXPLORATIONS LIMITED EFFECTIVE MARCH 22, 1968;

" 4. ENCLOSED ARE TWO COPIES OF THE HARRIMAN DEED CONTAINING THE COMPLETE PAGE 3;

" 5. THE $20,000 SHOWN ON OUR FINANCIAL STATEMENTS AS A SHORT TERM DEPOSIT IS OUR SHARES OF THE EXPLORATION EXPENSES. WE ARE PREPARED TO PLACE OUR FUNDS IN A TRUST ACCOUNT OR PROVIDE A PERFORMANCE BOND AGREEING TO SPEND THIS AMOUNT IF NECESSARY;

" 6. WE HAVE NO ASSURANCE FROM THE STATE OF MAINE THAT WE CAN OBTAIN RIGHTS TO DEVELOP AND MINE STATE LANDS, HOWEVER, WE PLAN TO DO OUR WORK ON THE HARRIMAN GROUND;

" 7. OUR MAIN TARGET IS COPPER, WITH ZINC THE BY PRODUCT;

" 8. OUR CONSULTANT HAS BEEN OUT OF TOWN FOR SEVERAL WEEKS AND WE DO NOT HAVE THE DETAILED INFORMATION RE. COST ESTIMATES, THIS WILL BE SENT TO YOU SHORTLY.

..... 2

" 9. ENCLOSED ARE TWO ADDITIONAL COPIES OF THE FOLLOWING MATERIAL:

REPORT PREPARED BY H. GRANT HARPER DATED AUGUST 25, 1971;

LETTER REPORT PREPARED BY H. GRANT HARPER DATED DECEMBER 2, 1971;

OUR LETTER TO THE CANADIAN IMPERIAL BANK OF COMMERCE REQUESTING A LOAN AND THEIR REPLY;

OUR LETTER TO THE GUARANTY TRUST COMPANY OF CANADA REQUESTING A LOAN AND THEIR REPLY;

PROSPECTOR'S PERMIT NO. 72-15 GOOD UNTIL DECEMBER 31, 1972 COVERING THE 10 CLAIMS UNDER FIRST POND AND OUR LETTER TO THE MAINE MINING BUREAU CONFIRMING OUR AGREEMENT TO THE RENEWAL TERMS;

APPLICATION FOR FINANCIAL ASSISTANCE DATED FEBRUARY 22,1972.

YOURS VERY TRULY,

TORCAN EXPLORATIONS LIMITED

Patrick J. Sullivan per D. P. Smith Secretary

PJS:s
ENCS.

PATRICK J. SULLIVAN,
PRESIDENT.

Guaranty Trust Company of Canada

Offices and Agencies throughout Canada

In reply refer to

TEL. NO. 863-5093
366 BAY STREET
TORONTO, CANADA
January 11, 1972

Mr. Patrick J. Sullivan
President
Torcan Explorations Limited
111 Jarvis Street
Toronto 1, Ontario

Dear Mr. Sullivan:

In reply to your letter of December 20th wherein you have requested our consideration of loan accommodation in an amount of $20,000.00, we regret to inform you that we are unable to grant such accommodation.

Yours very truly

R. L. Armstrong
General Manager

RLA:mh

DECEMBER 20, 1971

THE MANAGER
GUARANTY TRUST COMPANY OF CANADA
366 BAY STREET
TORONTO, ONTARIO

DEAR SIR:

WE ENCLOSE HEREWITH FINANCIAL STATEMENTS OF OUR COMPANY DATED NOVEMBER 30, 1971.

OUR PLANS ARE TO WEDGE THE TWO DIAMOND DRILL HOLES ON OUR MINING PROPERTIES IN HANCOCK COUNTY, MAINE, AS MORE FULLY DESCRIBED IN THE REPORT OF OUR CONSULTANT, H. GRANT HARPER, A COPY OF WHICH IS ATTACHED.

UPON A CLOSER PERSONAL EXAMINATION OF THE PROPERTIES IT IS ESTIMATED THAT THE TOTAL COST WILL BE APPROXIMATELY $40,000.00.

WE HEREBY REQUEST YOUR CONSIDERATION OF A LOAN IN THE AMOUNT OF $20,000.00 TO PROCEED WITH OUR DRILLING PROGRAM, THE COMPANY BEING PREPARED TO SUPPLY ANY COLLATERAL WITHIN ITS POWER.

YOURS VERY TRULY,

TORCAN EXPLORATIONS LIMITED

PJS:s
ENCS.

PATRICK J. SULLIVAN,
PRESIDENT.

PLEASE ADDRESS REPLY TO
THE MANAGER

BAY AND RICHMOND
375 BAY ST.
TORONTO 105, ONT.

CANADIAN IMPERIAL
BANK OF COMMERCE

February 16, 1972

Torcan Explorations Ltd.,
111 Jarvis Street,
Toronto, Ontario.

Att: Patrick J. Sullivan Esq., President

Dear Sirs

In reply to your letter of December 20, 1971, wherein you have requested our consideration of a loan in the amount of $ 20,000, we regret to inform you that we are unable to grant your request.

Yours very truly,

D. T. Norquay,
Assistant Manager.

DTN/eu

DECEMBER 20, 1971

THE MANAGER
CANADIAN IMPERIAL BANK OF COMMERCE
375 BAY STREET
TORONTO, ONTARIO

DEAR SIR:

WE ENCLOSE HEREWITH FINANCIAL STATEMENTS OF OUR COMPANY DATED NOVEMBER 30, 1971.

OUR PLANS ARE TO WEDGE THE TWO DIAMOND DRILL HOLES ON OUR MINING PROPERTIES IN HANCOCK COUNTY, MAINE, AS MORE FULLY DESCRIBED IN THE REPORT OF OUR CONSULTANT, H. GRANT HARPER, A COPY OF WHICH IS ATTACHED.

UPON A CLOSER PERSONAL EXAMINATION OF THE PROPERTYES IT IS ESTIMATED THAT THE TOTAL COST WILL BE APPROXIMATELY $40,000.00.

WE HEREBY REQUEST YOUR CONSIDERATION OF A LOAN IN THE AMOUNT OF $20,000.00 TO PROCEED WITH OUR DRILLING PROGRAM, THE COMPANY BEING PREPARED TO SUPPLY ANY COLLATERAL WITHIN ITS POWER.

YOURS VERY TRULY,

TORCAN EXPLORATIONS LIMITED

PJS:S
ENCS.

PATRICK J. SULLIVAN,
PRESIDENT.

H. GRANT HARPER, P.Eng.
ECONOMIC GEOLOGIST
314 HENDON AVENUE
WILLOWDALE, ONTARIO

MEMBER: C.I.M.M.
G.A.C.
BOARD OF TRADE

BA. 5-7412

December 2, 1971.

Mr. P. J. Sullivan, President,
Torcan Explorations Ltd.,
111 Jarvis St.,
Toronto, Ontario.

Dear Mr. Sullivan:

As requested by Mr. R. G. Doyle, Geologist for the State of Maine, here are the exploration plans I envisage for developing your Hancock County property during 1972 and 1973.

During 1972 Torcan's work effort will be concentrated on the Harriman ground. Here, the No. 1 drill hole will have about 850 feet of AX casing permanently replaced. The hole will then be non-directionally wedged at about 1900 feet and some 700 to 800 feet will be cored to provide intersections of the 4 horizons which returned base metal values that have commercial potential. This drill hole will then be in excellent shape for future directional wedging which will allow more accurate appraisal of the ore making potential in the vicinity of this hole.

At the present time Phil Douglas of Blue Hill has been engaged to manually probe to see if the collar of Hole No. 2 drilled on the staked claims can be re-located. Douglas worked on this drill hole. If Douglas is successful an attempt will be made in 1972 to re-establish BX casing in this hole in preparation for re-casing with AX to about 1200 feet and wedging this hole in 1973.

If the 1973 program is successful then drill hole No. 2 will be in excellent condition to be used to increase the mining potential of the staked claims.

Yours truly,

H. G. Harper.

HGH:m

H. Grant Harper, P.Eng.,

TORCAN EXPLORATIONS LTD.

BASE METAL PROSPECT

HANCOCK COUNTY, MAINE, U.S.A.

INTRODUCTION

This is a report on a mining property located in Hancock County, State of Maine, U.S.A. and owned by Torcan Explorations Ltd. The purpose of this report is to summarize the exploration work completed on this property and to recommend a program for its further development.

This report is based on the following sources of information.

1. Company reports by E.A. Hart, Registered Engineer, Province of Manitoba, including diamond drill logs and assay results.

2. I have not made a personal inspection of this property. I have examined the adjoining property of Black Hawk Mining Ltd. and engaged in the exploration of the Cape Rosier Mine, the only producer in the immediate area.

PROPERTY & LOCATION

The Torcan property includes the Harriman ground and First Pond. Torcan owns the mineral rights under the Harriman ground and holds 10 claims under First Pond under Prospector's Permit 71-15. The claims are numbered 65, 68, 85 to 88 inclusive, 1186, 1187 and 1172.

The Torcan property is located to the south and east of that belonging to Black Hawk Mining Ltd. and adjoins that of Roman Corporation. It is located near Blue Hill, Hancock County, State of Maine.

ACCESS & FACILITIES

The property is readily accessible by car. It is reached by a branch road from the Grindle Road which leads south from Highway 176 near the town of Blue Hill.

Facilities on the property of note and of use are two deep drill holes (2815 ft. and 3253 ft. deep) which can be wedged to obtain further intersections of the known deep-seated mineralization.

There is no mining equipment on the property.

HISTORY & DEVELOPMENT

Sulphide mineralization has been known in the Blue Hill area of Maine for about 100 years. About the time of the first world war some outcroppings of copper ore were mined from the Black Hawk Property about 1/2 mile northwest of the Torcan property. Commencing about 1954 and sparked by C.H.E. Stewart, P.Eng. and the A.W. White interests, Canadian exploration companies became active in the State of Maine. The chief results of this activity was the placing into production at 500 tons per day the Cape Rosier Mine on Penobscot Bay which was the center of the A.W. White interests' activities; the development of a considerable tonnage of marginal grade ore by Black Hawk Mining Ltd., and the discovery of potentially valuable mineralized zones of which the Torcan property is an example.

The most recent activity in the area is the optioning of the Black Hawk and Roman Corporation properties by Keradamex, Inc., the wholly owned American exploration arm of Kerr Addison

Mines Ltd. This property adjoins that of Torcan on the northwest and Torcan owns the down dip extensions of the sulphide bearing geological horizon.

GENERAL GEOLOGY

The general geology of the mining areas of Maine have not been deciphered to the same degree as the mining camps of Canada.

Within the Penobscot-Blue Hill area of Maine, the rock types include volcanics, sediments and intrusives of either very late preCambrian or very early Cambrian age.

On the Black Hawk and Torcan properties the major formations are a series of sediments predominantly quartzites with minor beds of argillite, arkose and conglomerate which have been intruded by sill-like bodies of granite. The occasional lamprophyre dike is encountered.

At a certain horizon in the sediments surface exposures of sulphide mineralization have been known for years on what is now the Black Hawk property. This horizon dips onto the Torcan property at an angle of about 30 degrees, reaching the Torcan property at a depth of about 1900 ft.

ECONOMIC GEOLOGY

The Black Hawk property has been developed and explored by a 698 foot shaft, 5 levels at 100 ft. intervals and by extensive surface and underground diamond drilling. Several sulphide zones have been developed and a summary of these follows:

According to the Northern Miner, May 27, 1971, "proven and probable ore reserves before dilution are estimated at 412,000 tons grading 20% zinc and 0.5% copper and 209,000 tons grading 2.3% copper. There are possibly 650,000 tons of high grade zinc mineralization and 900,000 tons of copper mineralization in extensions of the proven and probable zones".

Torcan has completed two drill holes, approximately 1400 ft. apart on the Harriman ground. The north hole, which is nearest the Keradamex option, was drilled to a depth of 2815 ft., the south hole to a depth of 3253 ft. The following intersections were obtained.

DEPTH	WIDTH	% CU.	% ZN.	% PB.	OZS. AG.
Hole No. H-1					
1425	15.6	-	-	-	0.10
2020	15.0	0.14	-	-	0.35
2135	6.2	1.98	-	-	0.85
2290	9.0	2.25	-	-	0.34
2465	2.5	1.13	0.85	-	0.16
2585	6.6	0.98	-	-	-
Hole No. H-2					
2028	0.6	0.08	0.85	10.92	21.98
2885	2.0	1.59	-	-	-
2950	6.2	0.30	26.13	6.26	3.53
2975	4.9	1.13	-	-	-

Hole No. H-1 is located about 2700 feet southeast of the Black Hawk shaft and Hole H-2 is located a further 1400 feet southeast. The drill results clearly indicate the excellent exploration potential of the Torcan ground and, in addition, certain geologica conditions indicate a further potential.

The following geological facts need consideration when exploring the Torcan property:

1. Ore shoots occur below the bottom of the Black Hawk shaft.

2. The last occurrence of valuable mineral in Hole H-1 is 55 ft. above the bottom of the hole.

3. The last occurrence of valuable mineral in Hole H-2 is 100 ft. above the bottom of the hole.

Since no clearly defined "basement rock" has been encountered in either drill hole and since the several horizons of mineralization extend over a vertical height of several hundreds of feet, there is a reasonable possibility that more zones of mineralization lie beneath the bottom of Holes H-1 and H-2.

There is a further geological consideration which enhances the potential of the Torcan property. The better zones of mineralization indicated on the Black Hawk property and in the Torcan drill holes line up reasonably well considering the distance between them. This suggests that the Torcan drill holes have intersected the horizons favourable for mineralization on the Black Hawk property. However there are differences in the rock sequences. This might be an indication that the Torcan sulphide horizons are still stratigraphically above the sulphide horizons on the Black Hawk Property. In either event the course of action is clear, - a greater knowledge of the Black Hawk and Torcan stratigraphies is necessary.

CONCLUSIONS & RECOMMENDATIONS

1. Two deep drill holes on the Torcan property, 1400 feet apart, have intersected copper, lead, zinc and silver values which approach mineable grades across mineable vertical heights. The size of the mineralized zones is unknown.

2. Torcan should place wedges in its drill holes to deflect the line of the holes so as to gain further intersections

of the known mineralization at a low cost. This type of exploration does not allow the accurate calculation of ore reserves but it provides information which allows a crude estimate of tonnage and a better estimate of grade.

3. Torcan should take all possible steps to acquire stratigraphic information on the Black Hawk property and should correlate this information with its own; for it seems likely that the ultimate development of the Torcan property will be through mine workings on the Black Hawk property.

COST ESTIMATES

It is very difficult to estimate the cost of wedging diamond drill holes, for the placing of wedges is seldom done on a contract, but rather on a cost-plus basis. Therefore the cost of placing 2 or 3 wedges in drill hole H-1 is likely to be around $10,000.00.

My report is respectfully submitted.

H. G. Harper.

Willowdale, Ont.
August 25, 1971

H. Grant Harper, F.G.A.C., P.Eng.
Economic Geologist

CERTIFICATE

I, HUGH GRANT HARPER, of Metropolitan Toronto, in the Province of Ontario, certify as follows with respect to my Report entitled Torcan Explorations Ltd., Base Metal Prospect, Hancock County, Maine, U.S.A., dated August 25, 1971:

1. For over ten years I have been practising as an independent economic geologist, carrying on business as

   H. Grant Harper, P.Eng.
   314 Hendon Avenue
   Willowdale, Ontario.

2. I graduated from the University of Toronto with the degree of B.A.Sc., 1950 and M.A.Sc., 1951 and have been engaged in my profession since that time. I am a Fellow of the Geological Association of Canada, a Member of the Ontario Association of Professional Engineers registered in the Mining Branch, a Member of the Canadian Institute of Mining and Metallurgy, and a Member of the Board of Trade of Metropolitan Toronto.

3. I have no interest, nor do I expect to receive any, either direct or indirect, in either the property or securities of Torcan Explorations Ltd.

4. I have not made a personal examination of this property. My report is based on the sources of information outlined in the body of the report and on my experience in exploring for mineral in the State of Maine.

H. G. Harper.

Willowdale, Ontario
August 25, 1971

H. Grant Harper, F.G.A.C., P.Eng.
Economic Geologist

Torcan Explorations Ltd.
First Pond Claims, Hancock County
Maine.

Source: data supplied by R.G. Doyle, Administrator, Maine Mining Bureau, Oct 22 1971.

H. G. Harper.

Torcan Exploration Ltd.
Red Outline - Harriman Property - Mining Rights owned by Torcan.
Blue Outline - Staked Claims
Source: R. G. Doyle, Administrator
Maine Mining Bureau
H. G. Harper

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H. C. HARPER
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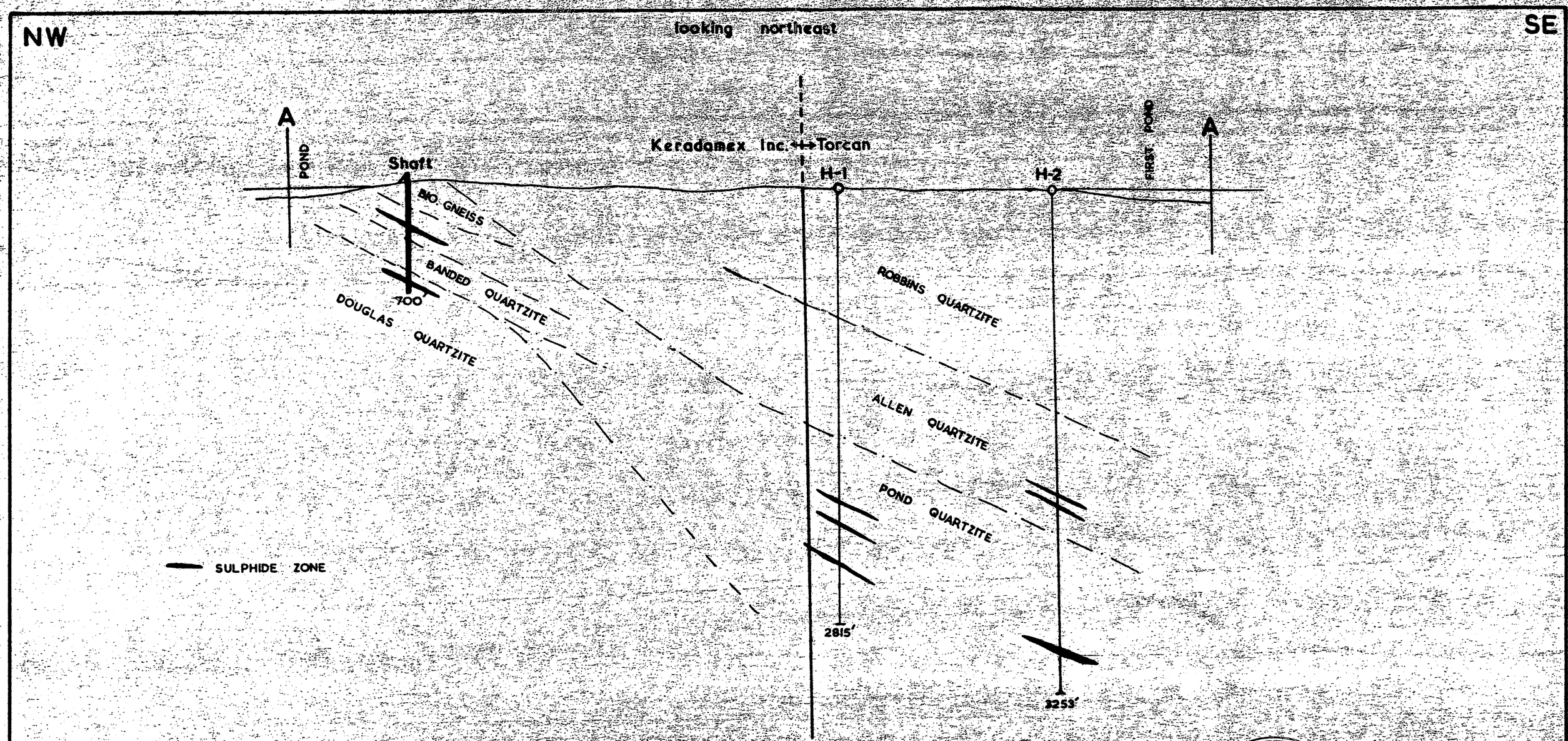
GEOLOGICAL ASSOCIATION OF CANADA
H. G. HARPER
FELLOW



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ASSOCIATION OF ONTARIO LAND SURVEYORS
H. G. HARPER

DATE AUG. 25-71 SIGNED H. G. Harper

as gold, copper and zinc higher

Despite the closing of the Quemont mine, the higher prices for both gold and silver plus a gain of 1.8¢ per share on the sale of securities, increased the profits of Kerr Addison Mines in the first three months this year. President J. H. Stovel informed the annual meeting. Net profit for the quarter improved to 14.8¢ per share as compared with 12.1¢ in the same quarter a year ago.

Financial position also showed improvement, it was revealed. At end of March, net value of current assets and investments at quoted market value, plus holdings of shares and debentures of Agnew Lake Mines, was $110 million, equivalent to $11.53 per issued share. This compares with $10.13 per share at end of 1971.

At the main Kerr Addison gold mine, production during the first quarter was 802 tons per day having an average grade of 0.48 oz. gold per ton as compared with 1,003 tons daily averaging 0.41 oz. per ton in the same quarter of 1971. Produced was 34,625 ozs. of gold which was sold on the open market at an average of $US48.47 per ounce.

Production at the Normetal mine was 996 tons daily averaging 1.81% copper, 5.55% zinc, 1.57 ozs. silver and 0.028 oz. gold per ton. This was a slightly higher rate than in 1971.

Joutel Copper Mines is 63% owned by Kerr Addison. It had net income in the first quarter of $207,000 as compared with $212,000 in the same period a year ago.

Kerr's share of about 21% of the net earnings of the Icon Sullivan joint venture for the first three months this year is placed at $61,000 as compared with $39,000 a year ago.

Black Hawk Mining

The concentrator and all the other surface buildings have been enclosed and milling equipment is 40% installed at the Black Hawk Mining project in Maine. The decline from surface has been advanced 1,342 ft. and has intersected ore as predicted, Mr. Stovel told the meeting. All state requirements concerning mining, milling and environmental aspects of the operation have been fulfilled. Marketing arrangements are being made for the zinc and copper concentrates. Production is scheduled for late this year at the rate of 1,000 tons per day, it was said.

During the first quarter, a drilling program further defined the ore zones which are to be mined first. Drilling

See BETTER PRICES, Page Fourteen

cont'd

quarter this year reco[illegible] of $768,714, equivalent to as compared with $1,179,[illegible] share, in the same quar[illegible] However, this includes $[illegible] exploration of the new [illegible] which was charged direct[illegible]

Aside from the above, [illegible] three months this year [illegible] zone exploration was $1[illegible] pared with $1,179,114 a[illegible]

President P. M. Reyn[illegible] that if it were not for [illegible] item, net income for th[illegible] have been 18.6¢ per sha[illegible] with 18.5¢ a year ago.

Operations for the qu[illegible] mal, and the mill han[illegible] per day grading 0.52% [illegible] pared with 0.51% a year [illegible] duced 12,268,9[illegible]9 tons of [illegible] centrate grading 33.15%.

The average price rec[illegible] was 50.61¢ per lb. as [illegible] 48.42¢ per lb. in the sam[illegible] ago.

Concentrate revenue [illegible] months was $5,237,957 w[illegible] come was $478,735 for a [illegible] $5,716,692. This compare[illegible] in the same three montr[illegible] duction and sundry exp[illegible] the three months were l[illegible] as compared with $3,72[illegible]

Exploration of the J[illegible] ceeding at an accelerate[illegible] nolds says. Seven diam[illegible] four rotary drills are be[illegible]

The annual report is [illegible] shareholders on May 19, [illegible] meeting to be held a[illegible] June 9.

Represents 5,000 members

Seven leading societies form Canadian Geoscience Council

Seven of Canada's leading national geoscience societies have formed a co-operative group to be known as the Canadian Geoscience Council. Dr. Duncan R. Derry, president of the Geological Association of Canada, stressed the need for such a coordinating agency in the geoscience community at a meeting of the GAC's Cordilleran Section in Vancouver earlier this year (N.M., Feb. 10).

The council's aims are to coordinate the activities of its member societies; to express and interpret authoritatively the scientific facts gathered through their varied activities for the guidance of government and industry; and through the cooperative medium to be in a better position to provide governments and Canadian public with the views and aspirations of members.

One prime need, which the council has already begun action to satisfy, is conceived to be the attraction of talented youth to the field of science, for the betterment of the country. This can be achieved in part by making science curricula at the high school level more attractive and more relevant, through effective introduction of earth science as a basis for illustrating the principles of physics and chemistry.

As it stands, the council now comprises representatives from the **Geological Association of Canada, Canadian Society of Exploration Geophysicists, Alberta Society of Petroleum Geologists, Mineralogical Association of Canada,** Earth Physics Division of the **Canadian Association of Physicists, Association of Exploration Geochemists** (Canadian section), and the **Canadian Exploration Geophysical Society,** altogether representing more than 5,000 scientists and engineers. Other societies representing a further 3,000 geoscientists are sending observers to meetings, pending decisions to join.

Newly elected officers of the council are Professor Roger A. Blais, of the Ecole Polytechnique, Montreal, and past-president of the Geological Association of Canada as chairman; Dr. D. J. McLaren, director of the Institute of Sedimentary and Petroleum Geology, Calgary, and past-president of the Alberta Society of Petroleum Geologists as vice-chairman; Dr. A. R. Graham of Falconbridge Nickel Mines, president of the Mineralogical Association of Canada as secretary-treasurer; and Dr. R. O. Lindseth, of Computer Data Processors, Calgary, past-president of the Canadian Society of Exploration Geophysicists.

Active on Peso [illegible] finances consolid[illegible]

Peso Silver Mines has [illegible] its 163 claims in the M[illegible] Yukon, to **Alaskex Mini**[illegible] claims cover the norther[illegible] antimony vein system [illegible] Nansen property.

"The agreement does [illegible] from carrying out expl[illegible] these claims, and shoul[illegible] a porphyry-type deposit [illegible] ceed to explore and d[illegible] body", said D. M. Mer[illegible] dent.

Alaskex will start a [illegible] tion program as soon as [illegible]

Under the terms of a [illegible] between **Mount Nansen** [illegible] sidiary of Peso, and A[illegible] Area will carry out mor[illegible] Mount Nansen property [illegible] spent $130,000 on the g[illegible]

Peso's financial pictur[illegible] proved, according to Mr [illegible] planned issuance to [illegible] Mines to settle a $123,000 [illegible] then be in a position t[illegible] financing, he said.

At Jan. 31, 1972, Peso [illegible] capital deficiency of $[illegible] to a deficiency of $1,114,7[illegible]

lems placed the company

Better prices help Kerr

(Continued from Page Thirteen)

was also carried out in the vicinity of the high grade hole 72-1 which was drilled early this year south of the Mammoth copper zone which was the southwesternmost ore zone known on the property. The drilling has indicated a new ore zone estimated to contain, after dilution, 370,000 tons grading 4.6% zinc and 1.7% copper. The zone is not delimited, Mr. Stovel remarked.

As a result of all the drilling in the past quarter the estimated diluted proven and probable reserves on the property were significantly increased to 630,000 tons grading 15.2% zinc and 0.6% copper; 750,000 tons grading 5.2% zinc and 1.9% copper; and 150,000 tons grading 2.2% copper. In addition, there are possible reserves of 1,000,000 tons of high grade zinc and copper ore in extensions and repetitions of the proven and probable zones. Expectation for additional high grade zinc and copper ore on the property are excellent, Mr. Stovel informed the meeting.

Exploration

A $1.5 million exploration program is under way mainly in Canada and the United States, and includes participation with **Noranda Mines** in the United Kingdom and Ireland, it was said.

The company is becoming a major shareholder in Minjur Mines Pty. Ltd., a small privately-owned exploration company [illegible] the Territory of Papua and New Guinea. Minjur holds exploration rights on 15 concessions in various parts of the Territory. Of particular interest is a 900 sq. mile concession in the western highlands in which a high grade copper-zinc-silver surface float and stream boulder occurrence has recently been found and interpreted to be not far removed from its source. Because of heavy foliage in the area, geophysical surveys will be carried cut and it is anticipated that a diamond drilling program will follow, Mr. Stovel said.

An airborne geophysical survey has been completed over 250 sq. miles of the 650 sq. mile **Advocate** concession, in Newfoundland, under a joint venture in which the company is the managing partner. Ground exploration and diamond drilling will follow.

Bullion Mountain Mining declined to conclude a formal agreement concerning Bullion's zinc-lead-silver property in the Yukon based on the terms and conditions as understood by **Kerr Addison** of the tentative agreement reached late last year. As a result negotiat ons have been suspended, Mr. Stovel said.

An engineering evaluation of the rock and hydrological characteristics of the Fernandez joint venture's deposits in New Mexico is in progress.

During the first quarter at the **Bousan** joint venture a crosscut on the 1,000-ft. level was advanced 908 ft. toward a copper zone previously indicated by both surface and underground drilling to contain approximately 160,000 tons grading 2.5% copper after dilution. It is estimated that the zone will be reached during the second quarter this year.

Other routine business was transacted and shareholders approved By-Law No. 8, reducing the Board from 12 to 10 members. Allan Findlay was elected a director, with **Harold Leather** and **K. C. Gray** retiring from the board.

Atlantic Coast Copper buys Brunswick, Rambler

Atlantic Coast Copper Corp. purchased an additional 289,600 shares of **Cons. Rambler Mines** during the month of February on the open market at a cost of $509,433. In addition, the company reports that it purchased 645,162 Brunswick Mining rights for $12,903 which it exercised to buy 200,000 shares of Brunswick stock at $2.50 per share for a total cost of $500,000.

KAMAD SILVER

Kamad Silver has entered into an agreement whereby A.M.C. Construction will provide **Kamad** with interim financing of up to $200,000 to assist in bringing the Homestake property into production.

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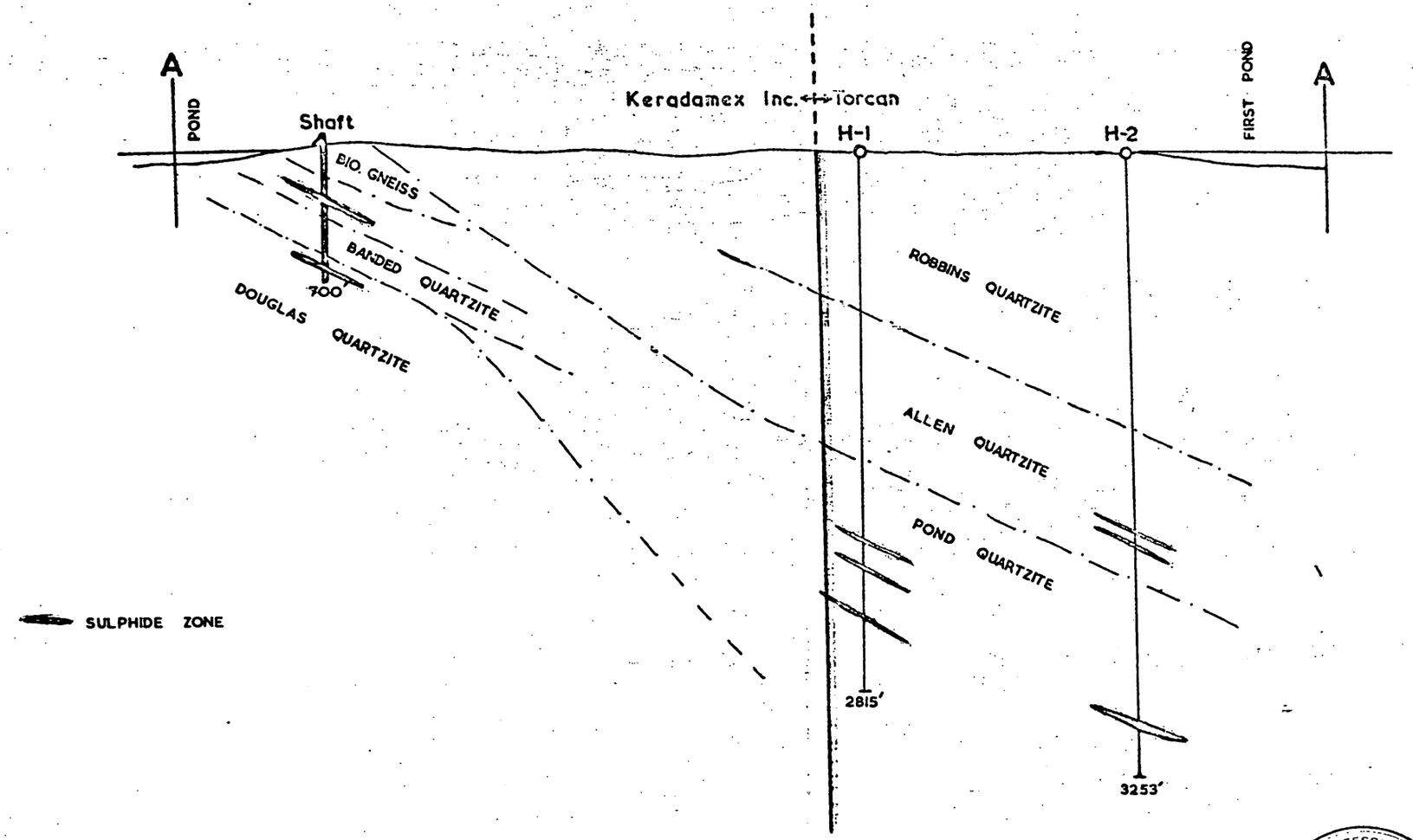

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H. G. HARPER

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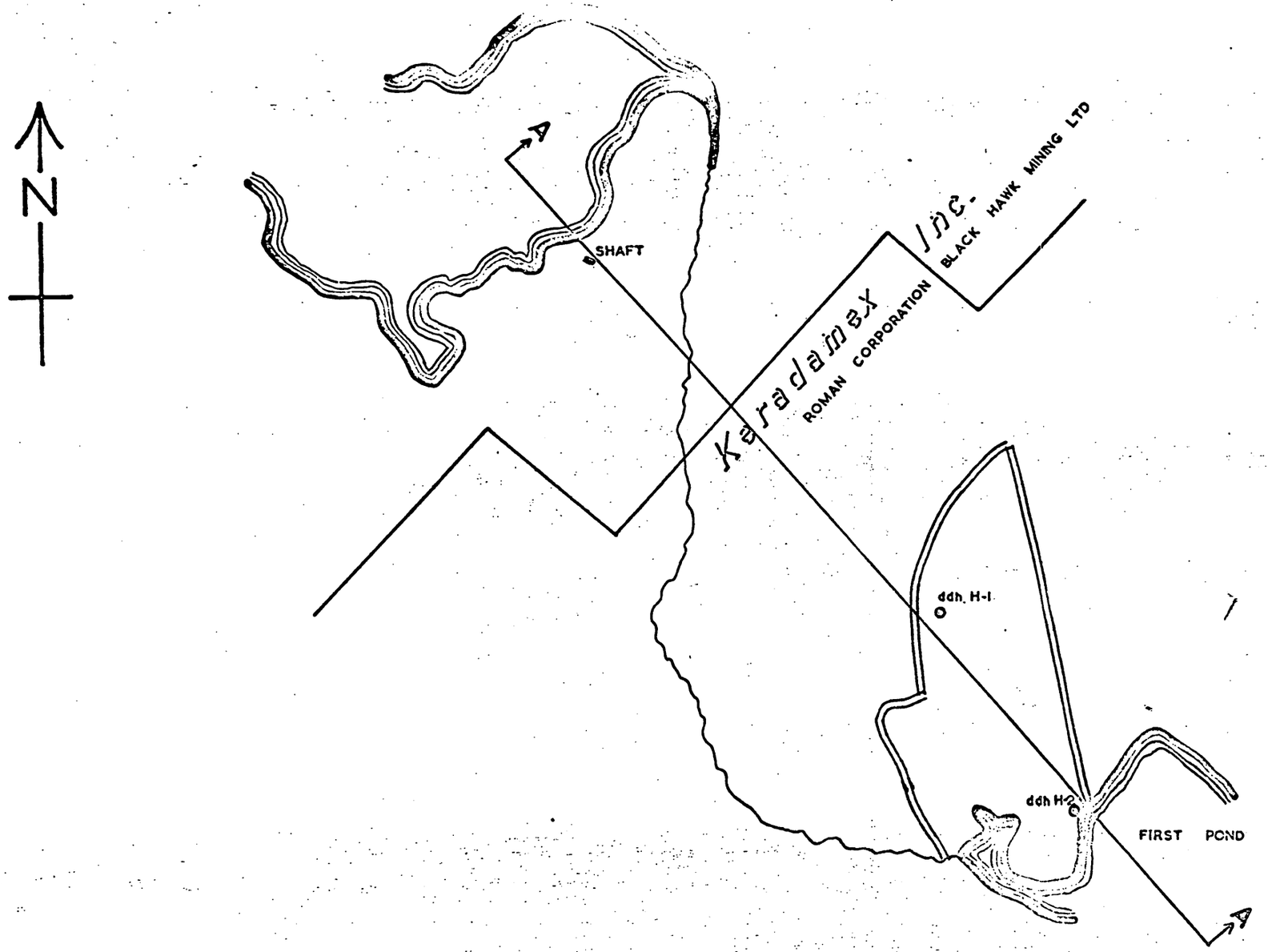

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DATE AUG 2 5 '71 SIGNED H.G. Harper.

H. GRANT HARPER, P.Eng.
ECONOMIC GEOLOGIST
314 HENDON AVENUE
WILLOWDALE, ONTARIO

MEMBER C.I.M.M.
G.A.C.
BOARD OF TRADE

BA. 5-7412

Estimated Contract Cost of wedging Drill Hole No. 1 located on the Harriman Property.

1.- Mobilization & de-mob. of drill equipment ....$2616.

2.- Cost of 900 feet of AX casing ..... 2236.

3.- Placing casing in hole (probably high) ..... 1500.

4.- Wedging Drill hole ..... 367.

5.- Drilling 1000 linear feet between 2000 and 3000 foot horizons .....16000.

General Supervision & Accomodation ..... 1000.

7.- Logging, sampling, assaying (Cu, Zn, Pb, Au, Ag) core boxes, express etc. ..... 1000.

8.- Travel Expenses ..... 500.

Total .....$25219.

Upon completion of this work Drill Hole No. 1 would be in good shape for further directional wedging which is necessary to evaluate the original ore grade intersection.

H. G. Harper

Report on the Drill Hole

H - 1

Harriman Property

COASTAL MINING LIMITED -> Now Torcan Expl'n Ltd.

Introduction

The Coastal Mining property located Hancock County, Blue Hill, Maine, includes the Harriman ground and First Pond. The property lies to the south east of Black Hawk property, and can be reached by a branch road from the Grindle road that leads south of highway 176.

During 1965 it was decided to put down a vertical drill hole to intersect the downward extension of the Black Hawk ore zones. There was a reasonable chance that if the same geological conditions prevailed, ore could be found on the Coastal property. Map No. 1 shows the location of properties and the drill hole location.

Hole H-1 was put down vertically for a total length of 2334 feet. Surveys of the hole show that it remained remarkably straight and only deviated about 40 feet from the vertical at the bottom.

Geology

The drill hole sectioned three prominent quartzite formations, two of which are present on the Black Hawk property. The upper or Robbins quartzite, as designated by the writer, is a grey, well banded quartzite with a few indistinct conglomerate members. The bottom of the quartzite has 24 feet of greywacke as an interbed.

Numerous granite dykes are present in this formation. They are all of the coarse grained biotite type of regional granite and appear to be sills, being parallel to the bedding. There is no main body of granite at this location.

A strong fault, steep dipping, was intersected at 836 feet and is similar to the regional faults of the area. The fault cut the granite where it was noted in the drill core.

A small amount of pyrite and biotite development was cut from 416 to 418 and was not worth sampling.

The Allen quartzite, 838 feet thick was intersected below the Robbins quartzite. It is typical of the formation to the north. Prominent conglomerate horizons interbedded with well banded sections, with a basal conglomerate bed formed the complete cross section. Numerous granite dykes are present throughout.

A pyrite zone 15 feet thick was cut in a greywacke bed, and returned low values in silver. The pyrite was along bedding planes and related fractures. No ore values were expected in this formation.

The third or lowest formation intersected was the Pond quartzite. This is the horizon in which most of the Black Hawk ore is situated. It is a fine grained grey quartzite with one or more thin conglomerate beds, and mineralized sections have biotite concentrations above them.

Three zones of pyrite-chalcopyrite were obtained in the Pond quartzite. The upper zone, 35 feet thick, returned low values in copper. The second zone, 87 feet below the first, and 18 feet thick, returned 1.69% copper and low silver values over 7.9 feet.

The lower zone, 136 feet below the middle zone, returned 2.2% copper and 0.34 oz silver over 9.0 feet. This was the total thickness of the mineralization. The hole was stopped in a conglomerate horizon. Map No. 2 shows a section of the drill hole and the geological section. Map No. 3 shows the relationship of the geology of Black Hawk and the drill hole and the potential ore zones.

Conclusions

1. D.D.H. Hole H-1 has cut most of the favourable Pond quartzite formation and three mineralized zones. Two of these contain good values in copper and the lower one may be part of an ore zone. The hole finished close to the underlying banded quartzite which is not known to carry ore values.

2. The average dip of the formations and the mineralized zone is similar to those on Black Hawk property.

3. One or more ore bodies of copper are likely present on the property.

Respectfully submitted,

Toronto, Ont.
February 15 1966.

Edward A. Hart

DIAMOND DRILL HOLE H - 1

2181 2815

1100' S 18° W of point of east boundary of property and Grindle road.

HARRIMAN PROPERTY - COASTAL MINING LTD.

STARTED: October 7 1965

FINISHED: January 15 1966

LOCATION:

LATITUDE: BEARING:

DEPARTURE: ANGLE DIP: Vertical, at collar LOGGED BY: E. A. Hart.

At 1000' -88°, S 19°W; 3000' -87°, N 86°W, Magnetic

FROM	TO	REMARKS	SAMPLE NO	SAMPLE LENGTH				
0	-3.5	Casing.						
3.5	13.0	Robbins quartzite- massive, grey, weakly banded and folded, lenses of silica, banding at 70° to CA.						
13.0	204.0	Granite- grey massive, coarse grained, contact @ 70°; biotite type.						
204.0	275.0	Robbins quartzite- as above, crenulated.						
275.0	338.5	Granite- massive, biotite type.						
338.5	736.0	Robbins quartzite- as above. Section from 416.0-418 with fine pyrite and biotite. Weak fault @ 30° from 427-427.6 with epidote. More intensely folded from 600 to end of section with increase in epidote and chlorite. 691.0-704.0 - med epidote and talc alter. Granite dykes @ 377.0-414.0; 421.5-552.0; 557.0-558.5; 591.0-591.8; 603.0-608.0; 667.0-670.0; 687.0-691.0; 704.0-736.0, all @ 70°- 80°.						
736.0	750.0	Greywacke- black, soft, carbonated, small slips @ 10° to CA. This may be part of the Robbins quartzite.						
750.0	912.0	Granite- fractured, with fault gouge - 836.0-840.0 @ 10° to CA and also from 853.0-855.0 912.0-916.5 gneiss and granite replacement. 919.0-925.0 " " " "	} mud seam?					
912.0	1750.0	Allen Quartzite- massive, grey, gneissic, with biotite sections and typical conglomerate beds, also variegated areas. 951.5-955.0 conglomerate, with biotite alteration. 955.0-1030.0 dark grey and light mottled areas.						

DIAMOND DRILL HOLE [illegible]

LOCATION:

LATITUDE: BEARING:
DEPARTURE: ANGLE DIP:

STARTED:
FINISHED:
LOGGED BY:

FROM	TO	REMARKS	SAMPLE NO	SAMPLE LENGTH	Au	Ag	Cu	Zn
		1030.0-1031.5 granite, massive, coarse grained, lower contact @ 70° to CA.						
		1031.0-1379.0 banded, contorted, silicified section with conglomeritic phases. Banding is regular @ 80° to CA from 1276-1379. Granite dykes as follows:						
		1078-1081.3 1194-1215						
		1083-1084.5 1226-1238						
		1138-1140.0 1316.5-1330						
		1144-1151.5 1341.0-1379						
		Note pyrite and chalcopyrite in fracture 1378-1379.0						
		1379.0-1396.5 conglomerate, pebbles lensed, dense, with weak banding.						
		1396.5-1406.5 granite dyke.						
		1406.5-1410.5 conglomerate as above, with lower contact @ 75° to CA.						
		1410.5-1442.5 greywacke, grey to black, dense, altered by biotite in seams and fractures. Some fine pyrite in and along bedding planes.						
		1415 - 1417	C-1	3.0	Tr	0.10		0.0
		1417 - 1420	C-2	3.0	Tr	0.10		0.05
		1420 - 1423	C-3	3.0	0.02	0.10		Nil
		1423 - 1425	C-4	2.0	Tr	0.10		0.05
		1425 - 1427.5	C-5	2.5	Tr	0.12		0.05
		1427.5-1430.5	C-6	3.1	Tr.	0.10		Nil
		1442.5-1750.0 grey quartzite, dense, massive.						
		1448.5-1453.5 granite.						
		1453.5-1497.0 greywacke, massive.						
		1497.0-1502.0 granite.						
		1502.0-1533.0 greywacke, black, dense.						
		1533.0-1656.5 buff carbonate alteration in areas and spotted, no sulphides.						
		1656.5-1750.0 conglomerate, with light colored lensed pebbles, some folded banding and narrow granite dykes.						
		Chloritic, and biotite, epidote, 1714-1725.						

DIAMOND DRILL HOLE

LOCATION:

LATITUDE: BEARING:

DEPARTURE: ANGLE DIP:

STARTED:

FINISHED:

LOGGED BY:

FROM	TO	REMARKS	SAMPLE NO	SAMPLE LENGTH	Au.	Ag.	Cu.	Zn.
1750.0	2334.0	Pond Quartzite - grey, dense, granular texture, distinct quartz grains, no banding, typical section. Fractured at upper contact. Fine pyrite on fractures and bleached in ~~xxxxxx~~ areas. A few clusters of pyrite grains with some sphalerite and chalcopyrite. Fault @ 45° at 1770'.						
		1786.0-1791.0 granite.						
		1791.0-1843.0 possible conglomerate bed, some banding and folding.						
		1843.0-1850 granite.						
		1850.0-1877.0 banded and folded, grey.						
		1877.0-1975.0 biotite zone, grey and brown, some grey lensed pebbles, an altered conglomerate bed. Note increase in biotite from 1945 to 1979.0'						
		1975.0-2010.0 quartzite, grey, dense, some banding. 2005.0-2010.	C-7	5.0			0.03	
		2010.0-2045 quartzite, grey, dense, no banding, with low disseminated pyrite and grains of chalcopyrite from 2011.0-2045.0						
		2010.0-2015.	C-8	5.0	0.02	0.40	0.22	
		2015.0-2020.	C-9	5.0	0.01	0.30	0.10	
		2020.0-2025.	C-10	5.0			0.12	
		2025.0-2030.	C-11	5.0			0.09	
		2030.0-2035.	C-12	5.0			0.08	
		2035.0-2040.	C-13	5.0			0.06	
		2040.0-2045.	C-14	5.0			0.08	
		2045.0-2219.0 quartzite, grey, massive, weakly banded, some patches of biotite.						
		2137.5-2139.0 medium chalcopyrite and pyrite and with low sulphides to 2150.0						
		2045.0-2050	C-16	5.0			0.08	

DIAMOND DRILL HOLE

LOCATION: LATITUDE: DEPARTURE: BEARING: ANGLE DIP: STARTED: FINISHED: LOGGED BY:

FROM	TO	REMARKS	SAMPLE NO	SAMPLE LENGTH	Au.	Ag.	Cu.	Zn.
		1.98% Cu 0.85 Au 6.2 2132.8-2134.8	C-15	2.0			0.29	
		2134.8-2137.5	C-17	2.7	Tr.	0.46	0.87	
		2137.5-2139.0	C-18	1.5	0.01	3.84	4.02	
		2139.0-2141.0	C-19	2.0	Tr.	0.84	1.55	
		2141.0-2143.8	C-20	2.8			0.26	
		2143.8-2145.4	C-21	1.6			2.22	
		2145.4-2147.4	C-22	2.0			0.84	
		2147.4-2150.0	C-23	2.6			0.62	
		2170-2173 low chalcopyrite, associated with soft dark alteration, also pyrite and pyrrhotite.						
		2219-2235 granite dyke.						
		2235-2316.5 grey quartzite, some weakly banded sections; medium chalcopyrite and disseminated pyrite from 2288.8-2292.1. Note the concentration of chalcopyrite at the top of the section.						
		2286.0-2288.8	C-24	2.8	0.01	0.10	0.75	
		2288.8-2292.1	C-25	3.3	0.02	0.74	4.82	
		2292.1-2295.0	C-26	2.9	Tr.	0.12	0.76	
		2316.5-2334.0 banded quartzite, dark grey, altered conglomerate.						
		2334.0 End of hole.						

PAGE: 5

DATE:

LOCATION:

LOGGED BY E. A. Hart

DIAMOND DRILL HOLE E - 1 deepened

STARTED: May 26/66

FINISHED: June 10/66

LATITUDE: BEARING:

DEPARTURE: ANGLE DIP:

FROM	TO	REMARKS	SAMPLE NO	SAMPLE LENGTH	Cu%	Zn%	Ag.oz.
2334.0	2815.0	Pond Quartzite- grey to maroon, weak bedding @ 70° to C.A. Some altered arkose sections.					
		2463.2-2467.7 grey replaceced banded quartzite with low chalco.					
		2463.2-2465.7	C-1-27	2.5	1.13	0.85	0.16
		2465.7-2467.7	-28	2.0	0.29		
		2467.7-2724.5- grey banded quartzite, some epidote alteration, with low pyrite and chalcopyrite as films and patches. Some patches of sphalerite.					
		2563.1-2565.9	-29	2.8	0.14		
		2565.9-2568.0	-30	2.1	0.40		
		2568.0-2571.8	-31	3.8	0.20		
		2571.8-2575.8	-32	4.0	0.25		0.32
		2575.8-2579.8	-33	4.0	0.35		
		2579.8-2584.4	-34	4.6	1.29		
		2584.4-2586.4	-35	2.0	0.28		
		2724.5-2745.0 - granite dyke.					
		2760.0-2761.5 - low chalcopyrite in fractures.					
		2745.0-2815.0 - grey quartzite, with coarse banding, grading to fine layered bedding at 60° to C.A. at end of the hole.					
		2815.0 - End of the hole.					

PAGE 1

DATE

LOCATION: See attached map.

DIAMOND DRILL HOLE R-2

LOGGED BY E.A. [illegible]

STARTED Jan 25/66

FINISHED Mar 20/66

LATITUDE: BEARING:

DEPARTURE: ANGLE DIP: -90

FROM	TO	REMARKS	SAMPLE NO	SAMPLE LENGTH			
0	18.0	Casing					
18.0	399.5	Granite - grey, coarse grained massive, lower contact @ 15° to C.A.					
399.5	399.0	Robbins Quartzite - dark grey, dense contorted banding, folded.					
399.0	407.0	Granite - as above, contact @ 75° to CA.					
407.0	430.5	Quartzite - massive, grey average bedding @ 80° to CA. Possibly lensed pebbles, chlorite, folded.					
430.5	580.3	Granite - as above. lower contact @ 35°					
580.3	671.5	Robbins quartzite - grey, massive, micaceous folded cremulated, some chloritic.					
617.5	809.4	Granite - as above; contact @ 30° to C.A.					
809.4	827.5	Lamprophyre dyke - dark grey, fine grained, fine brown mica contact @ 45° & 50° to C.A.					
827.5	907.0	Robbins Quartzite.					
907.0	958.0	Granite - as above, chilled upper contact @ 90° to C.A.					
958.0	1202.0	Robbins Quartzite - as above fault breccia & gouge 997.5 - 1012.5. Average 35° - 40° to C.A. Increase in alter. by epidote & chlorite from 1050, 1183, 1190.0 granite @ 40° to C.A.					
1202.0	1258.0	Granite - as above. Upper contact @ 75° to C.A.					
1258.0	1315.0	Robbins Quartzite - grey, massive					
1315.0	1341.5	Granite					
1341.5	1412.5	Robbins Quartzite.					
1412.5	1467.5	Granite.					
1467.5	1528.0	Allen Quartzite - massive, gnéissic, biotite areas, banded, variegated.					

ATE:

OCATION:

LOGGED BY E.A. Ber

DIAMOND DRILL HOLE H-2

STARTED:

FINISHED:

LATITUDE: BEARING:

DEPARTURE: ANGLE DIP:

FROM	TO	REMARKS	SAMPLE NO	SAMPLE LENGTH	Pb%	Zn%	Ag	Cu. Au.
		1482.5 - 1489.5 granite @ 50° to C.A.						
		1524.5 - 1527.0 " @ 50° to C.A.						
		1524.5 - 1564.5 " @ 80° to C.A.						
		1577.0 - 1586.0 " @ 90° to C.A.						
1[illegible].0	1707.0	Granite.						
1707.0	1777.5	Feldspar porphyry - massive, black, 1/8 inch feldspars with short sections of quartzite, contacts @ 80° to C.A.						
1777.5	1784.5	Quartzite - contact @ 80°.						
1784.5	1830.0	Granite - lower contact @ 30°.						
1830.0	2086.0	Allen Quartzite - grey, massive, conglomerate pebbles.						
		1964.0 - 1965.5 low zinc	H-2-1	1.5	0.10	0.55	0.12	
		1966.5 - 1973.5 granite						
		1979.5 - 1983.5 "						
		1999.0 - 2010.1 " @ 45°						
		2113.5 - 2117.0 "						
		2028.4 - 2029.0 -- pyrite galena stringer @ 45° to C.A.	H-2-2	0.6	19.92	0.35	21.98	.68 .22
2086.0	2201.0	Granite.						
22[illegible].0	2476.5	Pond Quartzite -- massive, grey dense, weak banding, grey to white, biotite patches.						
		2351.0 - 2350.0 granite.						
		2377.0 - 2397.0 granite.						
		2416.0 - 2427.0 brown mica, mottled alteration @ 30° to C.A.						
		2423.0 - pyrite seam @ 30° to C.A.						
		2457.0 - 2475.5 lamprophyre dyke.						

PAGE: 3

DATE:

LOCATION:

LOGGED BY E.A. Hart

DIAMOND DRILL HOLE H.2

LATITUDE: BEARING:

DEPARTURE: ANGLE DIP:

STARTED:

FINISHED:

FROM	TO	REMARKS	SAMPLE NO.	SAMPLE LENGTH				
2476.5	2516.0	Granite - massive, grey						
2516.0	3257.0	Quartzite, dark grey - coarse banding @ 40° to C.A.						
		2594.5 - 2600.2 - low chalcopyrite, pyrite and sphalerite.						
		2605.0 - 2617.0 - dark grey - fine bedding at various angles.						
		2649.0 - 2653.5 - light grey fine grained bedded quartzite, @ 60° to C.A.						
		2653.5 - 2674.5 - conglomerate - dark grey silicious, 1/4" - 1/2" pebbles. lensed @ 70° to C.A.						
		2674.5 - 2715.0 - grey - fine bedded quartzite or possible flows.						
		2715.0 - 2720.0 - light grey quartzite with low pyrite and some chalcopyrite.						
		(At 2700 feet the hole was measured and was found to be 2690 feet. Thus 10 feet must be deducted from all logging past this point to arrive at a true footage						
		2720.0 - 2750.5 - dark grey, conglomerate type; note a 1" stringer of chalco & sphalerite @ 2733.5						
		2750.5 - 2762.0 - grey quartzite. Variable bedding.						
		2762.0 - 2763.0 - graphic granite dike - light grey fine grained, contacts @ 70° to C.A.						

DIAMOND DRILL HOLE

LOCATION:

LATITUDE: BEARING:

DEPARTURE: ANGLE DIP:

STARTED:

FINISHED:

LOGGED BY: E.A. HART

FROM	TO	REMARKS	SAMPLE NO	SAMPLE LENGTH	Cu%	Pb%	Zn%	Au	Ag
		2768.0 - 2875.0 dark grey, coarse quartzite lensed quartzite pebbles coarse banding, variety of quartzites.							
		2875.0 - 2965.0 light grey weakly bedded granular texture, secondary quartzite stringers							
		2885.0 - 2887.0 low chalco, low pyrite.	H-2-3	1.59					
		2908.5 - 2910.0 " " " "	H-2-4	0.59					
		2927.5 - 2930.5 " " " "	H-2-5	0.24	0.05				
		2946.4 - 2948.4 low sphalerite & pyr.	H-2-6	0.03	0.10	0.05	Tr.	0.20	
		2948.4 - 2952.1 massive dark brown sphalerite, med. grained, contacts @ 80° to C.A.	H-2-7	0.03	10.30	41.70	Tr.	5.60	
		2952.1 - 2954.6 silica replacement, low chalco.	H-2-8	0.23	0.30	3.04	Tr.	0.31	
		2954.6 - 2956.6 " " " "	H-2-9	0.04	0.19	0.05	Tr.	0.40	
		2965.0 - 2970.0 dark and light grey, low chalco.	H-2-10	0.45					
		2970.0 - 2973.4 " " " "	H-2-11	0.23					
		2973.4 - 2975.0 "	H-2-12	1.59					
		2975.0 - 2977.0 " " " "	H-2-13	1.02					
		2977.0 - 2978.3 " " " "	H-2-14	1.08					
		3000.0 - 3005.0 light grey granular with low pyrite and pyrrhotite with some chalco.	H-2-15	.50					
		3005.0 - 3010.0 " " " "	H-2-16	.29					
		3010.0 - 3015.0 " " " "	H-2-17	.34					

PAGE: 5

DATE:

LOCATION:

LOGGED BY E.A. Hart

DIAMOND DRILL HOLE H-2

LATITUDE: BEARING:

DEPARTURE: ANGLE DIP:

STARTED:

FINISHED:

FROM	TO	REMARKS	SAMPLE NO	SAMPLE LENGTH				
		3015.0 - 3038.5 banded @ 65° to C.A.						
		3038.5 - 3042.0 granite @ 90° to C.A.						
		3061.0 - 3107.0 " " " "						
		3107.0 - 3253.0 quartzite & dark grey						
		banded and contorted						
		average at 70° to C.A.						
		3155.0 - 3156.0 low pyrite & sphalerite						
		3253.0 END OF HOLE						

Form B

STATE OF MAINE
MAINE MINING BUREAU

PROSPECTOR'S PERMIT NO. 72— 15

Expires Midnight, December 31, 1972

These presents certify that Torcan Explorations Limited
111 Jarvis Street
Toronto 1, Ontario

is authorized to enter upon lands owned by the State of Maine, including lands held in trust, when the trust is such as to be consistent with mineral development, for the purpose of prospecting for valuable minerals and metals except water, sand and gravel, in accordance with the provisions of the Maine Mining Bureau, M.R.S., Chap. 401, Sec. 2102, as amended. If machinery or explosives are to be used for prospecting on state land, the methods to be employed and the amount of explosives to be allowed must first be approved by the Mining Bureau, and a permit obtained from the Bureau.

Date of Birth ..... -- Weight -- Height ..... First Issue .....

December 21, 1971 Date ..... Renewal x

Authorized Signature
Maine Mining Bureau

Keep this certificate on your person when prospecting on state lands.

DECEMBER 29, 1971

AUSTIN H. WILKINS, ESQ.
CHAIRMAN
MAINE MINING BUREAU
STATE HOUSE
AUGUSTA, MAINE 04330

DEAR MR. WILKINS:

MINING CLAIMS 65, 68, 85, 86, 87, 88,
1185, 1186, 1187, 1172, FIRST POND,
BLUE HILL, HANCOCK COUNTY, MAINE

THANK YOU FOR YOUR LETTER OF DECEMBER 22, 1971 AND OUR PROSPECTOR'S PERMIT NO. 72-15 COVERING RENEWAL OF THE ABOVE CLAIMS FOR THE PERIOD JANUARY 1, 1972 TO DECEMBER 31, 1972.

WE WISH TO ADVISE THAT WE AGREE TO THE RENEWAL TERMS CALLING FOR THE EXPENDITURE OF A MINIMUM OF $15,000.00 ON OUR PROPERTIES IN MAINE. THE DRILLING WILL BE DONE ON THE HARRIMAN GROUND IN 1972.

YOURS VERY TRULY,

TORCAN EXPLORATIONS LIMITED

PJS:S

PATRICK J. SULLIVAN,
PRESIDENT.

CC: H. GRANT HARPER

State of Maine
MAINE MINING BUREAU
Augusta, Maine 04330
TEL. 207-289-2801

AUSTIN H. WILKINS
CHAIRMAN

ROBERT G. DOYLE
ADMINISTRATOR

December 22, 1971

Mr. Patrick J. Sullivan, President
Torcan Explorations Limited
111 Harvis Street
Toronto 1, Ontario
CANADA

Dear Mr. Sullivan:

The Maine Mining Bureau has, by recent vote, approved your application for renewal of the ten claim block covering the overwater area of parts of First Pond, Blue Hill, Hancock County, Maine. These claims are Maine Mining Bureau numbers 65, 68, 85, 86, 87, 88, 1185, 1186, 1187, 1172.

This renewal is for the period from January 1, 1972 to December 31, 1972. Control of the claim block by Torcan Explorations, Ltd. beyond that time is subject to review and approval by the Bureau.

Approval of the 1972 renewal is predicated on your letter of October 28, 1971, indicating your firm intention to expend $15,000 minimum on the Torcan properties. A letter from your consultant, H.G. Harper, dated December 2, 1971, describes the detailed plan for expenditure of this money. The Bureau further accepts that the work will be done on Hole No. I in the Harriman Property north of First Pond.

Your assessment balance on the First Pond claim block is $14,121.13. The assessment for 1971 of $1,000 is subtracted from the total amount leaving you a balance of $13,121.13.

Mr. Doyle acknowledges receipt of your check No. 0557245 in the amount of $105 (U.S.F.) to cover the renewal fees for your claims and Prospector's Permit.

Would you please advise me if the conditions for renewal are in agreement with your plans. Upon receipt of such letter from your office, the claims are renewed for 1972.

Very truly yours,

Austin H. Wilkins

AUSTIN H. WILKINS
Chairman

AHW:as

NOTARIAL CERTIFICATE OF TRUE COPY - LONG FORM

Dye & Durham Limited, 76 Richmond Street East, Toronto
Law and Commercial Stationers
Form No. 167

CANADA
Province of Ontario
To Wit

To all whom these Presents may come, be seen or known

I, ANTHONY CAMISSO

a Notary Public, in and for the Province of Ontario, by Royal Authority duly appointed, residing at the City of Toronto, in the County of York, in said Province,

Do Certify and Attest that the paper-writing hereto annexed is a true copy of a document produced and shown to me ~~by~~

and purporting to be a photostatic copy of Supplementary Letters Patent of Torcan Explorations Limited

dated the 22nd day of March 1968,

the said copy having been compared by me with the said original document, an act whereof being requested I have granted under my Notarial Form and Seal of Office to serve and avail as occasion shall or may require.

In Testimony Whereof I have hereto subscribed my name and affixed my Notarial Seal of Office at Toronto

this 3rd day of March 19 69.

A Notary Public in and for the Province of Ontario.

Jacques Dumont

CANADA

PROVINCE OF QUEBEC

ELIZABETH THE SECOND, BY THE GRACE OF GOD OF THE UNITED KINGDOM, CANADA AND HER OTHER REALMS AND TERRITORIES QUEEN, HEAD OF THE COMMONWEALTH, DEFENDER OF THE FAITH.

To all whom the present letters may concern or who may see them,

GREETING:

Supplementary Letters Patent

TORCAN EXPLORATIONS LIMITED
(No Personal Liability)

Recorded the 17th of April, 1968
Libro 1417
Folio 31

Deputy Provincial Registrar

WHEREAS "COASTAL MINING LTD." (No Personal Liability) was incorporated by Letters Patent dated October 12, 1962, and is governed by the Mining Companies Act, Revised Statutes, 1964, chapter 283; -

WHEREAS the Company has presented to the Lieutenant-Governor of Our Province of Quebec a petition praying that its By-Law No. B-1, adopted by the directors on February 2, 1968, and approved by the shareholders of the Company on February 27, 1968, and a resolution passed by the said shareholders on February 27, 1968, be now confirmed by Supplementary Letters Patent; - - - - - - - - - - -

WHEREAS the provisions of the Companies Act, Revised Statutes, 1964, chapter 271, apply, mutatis mutandis, to companies governed by the Mining Companies Act; -

AND WHEREAS it has been established to Our satisfaction that the said Company has complied with the conditions precedent to the granting of the desired Supplementary Letters Patent; - - - - - - - - - - - - - -

THEREFORE, in virtue of the powers conferred upon Us by the said Companies Act, We have confirmed, and, by these Our Supplementary Letters Patent, do confirm the said By-Law No. B-1 and resolution of "COASTAL MINING LTD." (No Personal Liability), which By-Law and resolution read respectively as follows, to wit: - - - -

"BY-LAW NO. B-1

being a By-Law reducing and subsequently increasing the capital of the Company and authorizing a petition for supplementary letters patent

WHEREAS the authorized capital of the Company consists of $5,000,000.00, divided into 5,000,000 shares with the par value of $1.00 each, of which 3,102,642 shares have been issued and allotted and are outstanding as fully paid; -

AND WHEREAS it is deemed necessary and expedient in the interests of the Company that its capital be reduced and subsequently increased as herein provided; - -

NOW THEREFORE BE IT ENACTED AND IT IS HEREBY ENACTED as By-Law No. B-1 of COASTAL MINING LTD. (No Personal Liability) (herein called "the Company"): - - -

1. that the capital of the Company be and is hereby reduced by the pro rata cancellation of 2,068,428 issued shares of the par value of $1.00 each (on the basis whereby shareholders will receive one reconstituted share of the Company for each three shares in the capital of the Company as presently constituted, held as of the date of the supplementary letters patent), provided that where such procedure results in leaving a fraction of a share in the name of any shareholder, such shareholder shall not be entitled to be entered on the books of the Company in respect of such fraction of a share nor to receive a share certificate therefor, but shall be entitled to receive a transferable fractional certificate therefor and, on presentation at the head office of the fractional certificates for fractions which together constitute a whole share, to receive a share certificate for such whole share and to be entered on the books of the Company as the holder thereof; and subsequently increased by the creation of 2,068,428 shares with a par value of $1.00 each, ranking on a parity with the then issued and unissued shares of the Company, so that the authorized capital of the Company shall consist of $5,000,000, divided into 5,000,000 shares with a par value of $1.00 each whereof 1,034,214 shares will then be outstanding; -

2. that, subject to confirmation by supplementary letters patent, the shareholders shall incur no personal liability in excess of the price paid or agreed

to be paid to the Company for the said newly created 2,068,428 shares; -

3. that the Company be and is hereby authorized to make a petition to the Lieutenant-Governor of the Province of Quebec for supplementary letters patent confirming this by-law; and - - - - - - - - - - - - - - - - -

4. that the Directors and Officers of the Company be and are hereby authorized and directed to do, sign and execute all things, deeds and documents necessary or desirable for the due carrying out of the foregoing." -

"RESOLUTION OF SHAREHOLDERS

RESOLVED:

THAT the name of the Company be changed from COASTAL MINING LTD. (No Personal Liability) to TORCAN EXPLORATIONS LIMITED (No Personal Liability); and - - -

THAT the Company be and is hereby authorized to make a petition to the Lieutenant-Governor of the Province of Quebec for supplementary letters patent effecting the said change; and - - - - - - - - - - - - - -

THAT the Directors and Officers of the Company be and are hereby authorized and directed to do, sign and execute all things, deeds and documents necessary or desirable for the due carrying out of the foregoing."

AND WE DO HEREBY DECLARE that, on and from the date of these Our Supplementary Letters Patent, the authorized capital stock of "COASTAL MINING LTD." (No Personal Liability) shall be and remain reduced and, subsequently, increased, and the name of the Company changed to that of "TORCAN EXPLORATIONS LIMITED" (No Personal Liability), the whole as provided respectively in the Company's By-Law No. B-1 and resolution herein quoted, such By-Law and resolution being confirmed, as aforesaid, by these presents. - - - - - - - - - - - - - -

IN TESTIMONY WHEREOF, We have caused these Our Letters to be made Patent, and the Great Seal of Our Province to be thereunto affixed; Witness: Our trusty and well beloved the Honourable HUGUES LAPOINTE, P.C., Q.C., Lieutenant-Governor of Our Province of Quebec, represented by Mr. Jacques Prémont, in conformity with the Companies Act, Revised Statutes, 1964, chapter 271.

Given at Our Government House, in Québec, this twenty-second day of March - - - - in the year of Grace one thousand nine hundred and sixty-eight - - and of Our Reign the seventeenth.

By Command,

Assistant Provincial Secretary

Know All Men by These Presents,

That I, Winfred L. Harriman of Blue Hill, Hancock County, State of Maine,

in consideration of one dollar and other valuable considerations,

paid by Coastal Mining Ltd. a Canadian corporation having its principal place of business in Montreal, Province of Quebec, Dominion of Canada,

the receipt whereof I do hereby acknowledge, do hereby remise, release, bargain, sell and convey and forever quit-claim unto the said Coastal Mining Ltd., its successors

~~heirs~~ and assigns forever,

all the metals, ores and minerals of every kind situated in or under the following described premises in the Town of Blue Hill, Hancock County, State of Maine.

FIRST LOT: Being part of Lot Number 57 of the Third Division of lots according to the plan of said Blue Hill bounded and described as follows, to wit:

Beginning at a point on the southeasterly side of the Grindleville Road, so-called, where said road is intersected by the east line of said Lot Number 57; thence South 11° 34' East, true bearing, 2165 feet, more or less, to the shore of First Pond; thence following the shore of said pond in a generally southwesterly direction to the east side of the Grindleville Road at a point where Carlton Stream, so-called, crosses said road; thence following said road northerly and northeasterly to the point of beginning.

Excepting and not hereby conveying the metals, ores and minerals situated in or under the premises described in the following instruments:

1. Lease between Winfred L. Harriman and Blue Hill Fish and Game Association dated June 4, 1958, and recorded in Hancock County, Maine, Registry of Deeds in Book 822, Page 480.

2. Deed from Winfred L. Harriman to Robert G. Henderson et al dated June 26, 1960 and recorded in Hancock County, Maine, Registry of Deeds in Book 867, Page 408.

3. Deed from Winfred L. Harriman to Theodore A. Horton et al dated Sept. 3, 1958 and recorded in Hancock County, Maine, Registry of Deeds in Book 824, Page 109.

4. Deed from Winfred L. Harriman to Theodore A. Horton et al dated Aug. 10, 1959 and recorded in Hancock County, Maine, Registry of Deeds in Book 846, Page 210.

5. Deed from Winfred L. Harriman to Francis Grogan et al dated Nov. 10, 1961 and recorded in Hancock County, Maine, Registry of Deeds in Book 899, Page 102.

SECOND LOT: Being located on the west side of the Grindleville Road and bounded and described as follows:

Being eight (8) rods from the bridge on the road and bounded northerly, westerly and southwesterly by a fence and easterly by the Grindleville Road.

Excepting and not hereby conveying the metals, ores and minerals in or under the premises described in the following instruments:

1. Deed from Winfred L. Harriman to Cecil L. Grindle dated Sept. 6, 1961 and recorded in Hancock County, Maine, Registry of Deeds in Book 899, Page 295.

2. Lease between Leroy Harriman and Harry E. Tyler et al dated Sept. 1, 1961 and recorded in Hancock County, Maine, Registry of Deeds in Book 894, Page 453.

The above described first and second lots are part of the premises described as conveyed in a deed from George M. Allen et al to Florence M. Harriman dated May 4, 1927 and recorded in Hancock County, Maine Registry of Deeds in Book 635, Page 533.

Also being part of the premises described as conveyed in a deed from Florence M. Harriman to Winfred L. Harriman dated March 20, 1956 and recorded in Hancock County, Maine, Registry of Deeds in Book 782, Page 595.

To have and to hold the same, together with all the privileges and appurtenances thereunto belonging, to the said Coastal Mining Ltd. its successors

~~heirs~~ and assigns forever.

And I do covenant with the said Grantee, its successors ~~heirs~~ and assigns, that I will Warrant and Forever Defend the premises to it the said Grantee, its successors ~~heirs~~ and assigns forever, against the lawful claims and demands of all persons claiming by, through or under me.

In Witness Whereof. I, the said Winfred L. Harriman, widower,

~~and~~

~~wife~~ ~~of the said~~

~~joining in this deed as Grantor,~~

~~and relinquishing and conveying rights by descent and all other rights in the above described premises,~~ have hereunto set my hand and seal this 23rd day of March in the year of our Lord one thousand nine hundred and sixty-six.

Signed, Sealed and Delivered
in presence of

Kenneth W. Blaisdell — Winfred L. Harriman

State of Maine. Hancock ss. March 23, 1966.

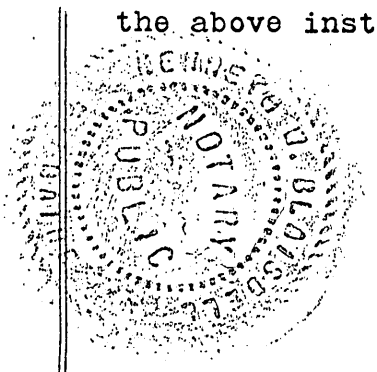
Personally appeared the above named Winfred L. Harriman

and acknowledged the above instrument to be his free act and deed.

Before me,

Kenneth W. Blaisdell

~~Justice of the Peace~~
Notary Public



STATE OF MAINE, HANCOCK COUNTY REGISTRY OF DEEDS.
Rec'd March 23 1966 at 3 h. 30 m. P. M. and recorded in book 1006 Page 46
by Jessie B. Patten Register
by Mary P. Sprague, Deputy

BOOK 1006 PAGE 48

TORCAN EXPLORATIONS LIMITED

(No Personal Liability)

FINANCIAL STATEMENTS

AS AT DECEMBER 31, 1971

STE-MARIE & MASSON, C.A.

TELEPHONE 733-8295

STE-MARIE & MASSON, C.A.
COMPTABLES AGRÉÉS
CHARTERED ACCOUNTANTS

JOSEPH STE-MARIE, L.S.C., C.A.
HENRI MASSON, L.S.C., C.A.

SUITE 250
6555, CÔTE-DES-NEIGES

MONTREAL

February 18, 1972

To the Shareholders
TORCAN EXPLORATIONS LIMITED
Montreal.

We have examined the BALANCE SHEET and schedules of DEFICIT ACCOUNT, DEFERRED ADMINISTRATIVE EXPENSES and DEFERRED EXPLORATION EXPENSES of TORCAN EXPLORATIONS LIMITED (No Personal Liability) drawn up as at December 31, 1971. Our examination included a general review of the accounting procedures and such tests of accounting records and other supporting evidence as we considered necessary in the circumstances.

In our opinion, the said BALANCE SHEET and ATTACHED STATEMENTS, together with the notes appended thereto, present fairly the financial position of the Company as at December 31, 1971, and the results of its operations for the year ended on that date, in accordance with generally accepted accounting principles applied on a basis consistent with that of the preceding period.

Ste-Marie Masson C.A.

CHARTERED ACCOUNTANTS.

TORCAN EXPLORATIONS LIMITED

(No Personal Liability)

(INCORPORATED UNDER THE LAWS OF THE PROVINCE OF QUEBEC)

BALANCE SHEET

DECEMBER 31, 1971

A S S E T S

CURRENT -		
Cash	$ 4,383	
Short Term Deposit	20,000	$ 24,383
MINING RIGHTS AND CLAIMS -		
First Pond Bluehill Property, Maine, U.S.A.	$ 20	
Harriman Bluehill Property, Maine, U.S.A.	3,400	3,420
DEFERRED EXPLORATION AND DEVELOPMENT -		
First Pond Bluehill Property, Maine, U.S.A.	$ 31,378	
Harriman Bluehill Property, Maine, U.S.A.	53,424	84,802
DEFERRED ADMINISTRATIVE EXPENSES		142,269
INCORPORATION AND ORGANIZATION EXPENSES		6,917
		$ 261,791

L I A B I L I T I E S

CURRENT -			
Accounts payable			$ 5,841
CAPITAL STOCK -			
Authorized -			
5,000,000 shares of $ 1.00 par value			
Issued and Fully paid -			
For property - 300,000 shares	$ 300.000		
Less - Discount thereon	270,000	$ 30,000	
For cash - 1,234,214 shares	$ 1,234,214		
Less - Discount thereon	1,054,583		
	179,631		
Less - Authorized commission	736	178,895	
		$ 208,895	
CONTRIBUTED SURPLUS			
Upon reorganization		279,262	
		488,157	
DEFICIT, per statement		232,207	255,950
			$ 261,791

APPROVED ON BEHALF OF THE BOARD :

P. J. Sullivan

P. E. Smith

Directors.

SUBJECT TO OUR REPORT OF EVEN DATE

Ste Marie Masson & Co.

CHARTERED ACCOUNTANTS.

Montreal, February 18, 1972.

STE-MARIE & MASSON, C.A.

TORCAN EXPLORATIONS LIMITED

(No Personal Liability)

STATEMENT OF DEFERRED ADMINISTRATIVE EXPENSES

FOR THE YEAR ENDED DECEMBER 31, 1971

Balance January 1		$ 133,029
Add -		
Office and secretarial	$ 3,600	
Transfer Agent's fees and expenses	1,130	
Legal and audit	1,225	
Shareholders' information	751	
Certificate costs	264	
Exchange listing	345	
Directors' fees	200	
Travel	617	
Government fees and taxes	65	
Sundry	71	8,268
Expense from prior period		972
Balance December 31		$ 142,269

STATEMENT OF DEFERRED EXPLORATION EXPENSES

FOR THE YEAR ENDED DECEMBER 31, 1971

Balance January 1, First Pond Bluehill Property		$ 31,379
Add -		
Harriman Bluehill Property, Maine - prior expenses written off to deficit transferred back to deferred exploration	$ 52,577	
Harriman Bluehill Property - current expenses	846	53,423
Balance December 31		$ 84,802

STATEMENT OF DEFICIT

FOR THE YEAR ENDED DECEMBER 31, 1971

Balance January 1		$ 288,184
Deduct :		
Harriman Bluehill Property, Maine, U.S.A.		
Cost and expenses written off in 1967 transferred back to cost of properties and deferred explorations -		
Cost	$ 3,400	
Exploration and development	52,577	55,977
Balance december 31		$ 232,207

STE-MARIE & MASSON, C.A.

TORCAN EXPLORATIONS LIMITED

(No Personal Liability)

NOTES to the BALANCE SHEET drawn up as at December 31, 1971.

NOTE I - Subsequent to an underwriting and option agreement dated October 4, 1971, intervened between BOUCHARD & CO. LTD acting on behalf of its client, Exchange Underwriters Ltd, and Torcan Explorations Limited (No personal liability), 500,000 fully paid and non assessable shares at a par value of $ 1.00 each in the capital stock of the Company were issued and paid for at a total price of $ 70,000.

In consideration of said firm purchase the Company has hereby irrevocably granted unto BOUCHARD & CO. LTD. acting on behalf of its client, an option to purchase all or any part of 500,000 fully paid and non-assessable additional shares with a par value of $ 1.00 each, in the capital of the Company, as follows :

No. of Shares	Price per Share	Time within which Option Exercisable
100,000	20 ¢	4 months after effective date
200,000	25 ¢	7 months after effective date
200,000	30 ¢	10 months after effective date

NOTE II - On May 26, 1971 a writ of summons was issued against this and another company by Newman Drilling and Exploration Limited for the sum of $ 4,140.70, which is denied except to the extent of $ 625.oo which amount is reflected in the Balance Sheet dated December 31, 1971.

These are the notes referred to in our auditors' certificate dated February 18, 1972.

Ste-Marie Masson C.A.

CHARTERED ACCOUNTANTS.

The Ellsworth American, May 4, 1972 MAINE

Black Hawk Expects More Zinc, Copper

Black Hawk Mining Ltd.'s annual report to stockholders claims that estimates of ore reserves in the Bluehill property have increased since the completion of a drilling program through the ice of Second Pond, the area which will be mined first when operations get underway in a few months.

* * *

Says the report:

"Black Hawk's copper - zinc mineral properties near Blue Hill, Maine will come into production in late 1972 as a result of your Company's successful efforts over several years to explore, evaluate, finance and develop these valuable resources. Kerramerican, Inc. (a wholly owned subsidiary of Kerr Addison Mines Limited) is undertaking the financing, plant construction and management of mining and processing facilities and operations under the terms of its agreement with Black Hawk. On completion of its commitment to bring the properties to production Kerramerican will earn a 60 percent interest in the properties and operations.

"Progress on surface plant construction and on excavation for access to underground during 1971 was most satisfactory and activity continues at a rapid pace in 1972. The mine and surface plant are designed and scheduled for a production rate of 1,000 tons of ore daily. At the time of writing the concentrator and all other surface buildings have been enclosed and milling equipment is 40 per cent installed. Dams to control waste products from the concentrator will be completed this spring. Access to the ore deposits for production operations will be an inclined excavation and roadway for rubber-tired haulage and loading units. This "decline", now 1.340 feet in length, should penetrate the ore zone initially in April. Dewatering of the former underground workings and vertical shaft will begin this month. Six staff houses will be built this year.

"Kerramerican has worked closely with state and federal agencies and all state requirements concerning mining, milling and environmental aspects of the operations have been fulfilled. Marketing arrangements are being made for the zinc and copper concentrates.

"During the first quarter of the year a drilling program from the ice on Second Pond further defined the main ore zones which will be mined first. As a result the estimated diluted proven and probable reserves were significantly increased to 630,000 tons grading 15.2 per cent zinc and 0.6 per cent copper, 380,000 tons grading 5.8 per cent zinc and 2.0 per cent copper, and 150,000 tons grading 2.2 per cent copper. In addition there are possible reserves of 1,000,000 tons of high-grade zinc and copper ore in extensions and repetitions of the proven and probable zones.

"Drilling has recommenced in the vicinity of the high-grade hole 72-1 which was drilled this year, south of the Mammoth copper zone which is the southwesternmost ore zone known on the property. . .

"Five of six additional holes which have been completed to date have intersected mineralization visually estimated to be ore. No assay results from the holes have been received yet.

"Expectations for additional high-grade zinc and copper ore on the property are excellent. . ."

Schreck
Dean
Kirkma

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
3/4/72	Weche	120
		120
		220
3/6		120M

AIRMAIL

MAR 6 1972

Torcan Explorations Limited (NPL)
Suite 2, 111 Jarvis Street
Toronto 1, Ontario, Canada

Re: OME-6869 (Copper-Silver)
Torcan Explorations Limited (NPL)
Harriman Ground
Hancock County, Maine

Gentlemen:

A preliminary review of your application for financial assistance to explore the Harriman Ground indicates that additional information is needed for several items listed on the back of the application.

Please furnish a copy of the latest financial statement of your company and of any subsidiary companies who may have an interest in the Harriman Ground. Because of the foreign base of the company, we must have assurance that the Applicant can post a performance bond with a domestic (U.S.) bonding company in the amount of the Government's share of a contract in the event an OME contract is executed.

The quit claim deed to the mineral rights on the Harriman property indicates that Coastal Mining Ltd. is the owner of those rights, but there is no documentary evidence that they were transferred to Torcan Explorations Limited. We note also that five areas in Lot 1 and two areas in Lot 2 are excluded. Because the property map is nearly illegible, and is at a very small scale, please indicate on a larger scale map the location of the areas whose mineral rights were conveyed or retained by the Harriman interests. It would also be useful to indicate the location of the areas covered by Maine Mining Bureau claims numbered 65, 68, 85, 86, 87, 88, 1185, 1186, 1187, and 1172, and the relationship of your lands to lands associated with the Black Hawk mine.

One or more lines of information were trimmed from the top of page 3 of the quit claim deed. Please send us two copies of the entire page.

With regard to Item 2(c) of your application, you state that the mineral rights in the lands under First Pond are owned by the State of Maine. It has been our experience that States will not subordinate state-owned lands under Lien and Subordination Agreements , so in lieu thereof we would require the performance bond previously mentioned.

What assurance do you have that you could obtain rights to develop and mine state lands upon successful conclusion of work under a prospector's permit?

It is evident from the material furnished that a significant part of the reserves in the Black Hawk mine are zinc ore, and that a similar situation appears possible from assays of samples from your drill hole H-2. Zinc is not eligible for assistance under the OME program. Potential targets explored with OME funds must clearly have their major value in minerals eligible for support. Any further information you may have on the mineral content of the mineralized zones on your property should be furnished.

The information, maps, cost estimates, and bids submitted for Items 5, 6, and 7 of the application were not furnished in sufficient detail for us to evaluate the merits, plans, and costs of the proposed work.

Only one copy of the application and accompanying material was furnished. Please send us the required second copy including duplicates of the material mentioned in this letter.

This request for additional information should not be construed as a commitment by the Government to grant an exploration contract. We shall hold your application in our active file pending receipt of the data requested.

Sincerely yours,

Harold Kirkemo

Harold Kirkemo
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Mineral Resources
OME Docket
OME Reading File
OME Region IV
Mr. Weeks
Mr. Kirkemo

RAWeeks/HKirkemo/gla 3-4-72

February 28, 1972

Torcan Explorations Limited (NPL)
Suite 2
111 Jarvis Street
Toronto 1, Ontario, Canada

Subject: OME-6869

Gentlemen:

Your application for exploration assistance, dated February 22, 1972, submitted to our office at Knoxville, Tennessee, has been assigned Docket No. OME-6869.

Please identify all future correspondence relating to your application by this docket number.

Sincerely yours,

Harold Kirkemo
Chief, Office of
Minerals Exploration

cc: Region IV with copy of
appln, & rpt. by H. Grant
Harper

February 28, 1972

Cal 120 m
HK 120
220

Air Mail

Mr. Patrick J. Sullivan, President
Torcan Explorations Limited
Suite 2
111 Jarvis Street
Toronto 1, Ontario, Canada

Dear Mr. Sullivan:

Your application for assistance in exploration for copper and silver on the Harriman Ground property, Bluehill, Maine, U.S.A., has been forwarded to our Washington office in accordance with established procedure. They will process the application and will advise you if any further information is needed.

Very truly yours,

Robert A. Laurence
Geologist
Branch of Eastern Mineral Resources

cc - Director's Reading File
Mineral Resources
Branch
Mr. Kirkemo
Files

0 600 1200 1800
FEET

TORCAN EXPLORATIONS LTD

HANCOCK COUNTY, MAINE

REGISTERED PROFESSIONAL ENGINEER
MINING
H. C. HARPER
PROVINCE OF ONTARIO

GEOLOGICAL ASSOCIATION OF CANADA
H. C. HARPER
FELLOW

DATE AUG 25 '71 SIGNED H. C. Harper