MME Form 9
Rev. Nov. 65

UNITED STATES
DEPARTMENT OF THE INTERIOR
Geological Survey

OFFICIAL DOCKET FILE Contract No. _____ Docket No. 6777

Application
- [ ] Denied
- [x] Withdrawn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
- [x] 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
- [x] On-site Exam. Report (Tab) 1/5/70
- [ ] 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

MME Form 40
Jan. 65

Budget Bureau No. 42-R1508
Approval expires Dec. 31, 1968

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.)*

JASON EXPLORERS LTD. (N.P.L.)
775 Bentall Centre
555 Burrard Street
Vancouver 1, B. C. Canada

APPLICANT DO NOT USE THIS BLOCK

DOCKET NUMBER
OME 6777 (Copper) supplementary application

DATE RECEIVED
10-7-70

REGION
II

DIVISION CODE

BUSINESS ORGANIZATION *(Check one)*

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

STATE IN WHICH FIRM IS ORGANIZED
British Columbia, Canada

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

NAME	ADDRESS	TITLE
James D. Mason	801-955 Marine Drive, West Vancouver	President
Walter L. Brewer	5090 Crossway, West Vancouver	Vice President and Secretary
Patrick H. Bibby	309 - 8th Street, New Westminster	Director
Dodd Q. Chu	642 West 51st Ave. Vancouver	Director
Cecil D. Poli	1058 Nelson Street, Vancouver	Director
Bernard I. Herman	1155 West 48th Ave., Vancouver	Director
A. Emmott	6187 McKee Street, Burnaby	Director

MINERAL(S) FOR WHICH YOU WISH TO EXPLORE
Copper, Silver

ESTIMATED COST OF PROJECT
$ 44,368.00

PROPERTY NAME	LOCATION COUNTY	STATE
Blue Ledge Mine	Siskiyou	California

Revised Application

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. III). 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 Office of Minerals Exploration, Department of the Interior,* ~~Washington 25, D. C. or with the nearest OME Field Office.~~ 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.

JASON EXPLORERS LTD. (N.P.L.)

September 25, 1970
DATED

per Walter L. Brewer
Walter L. Brewer BY *(Signature)*
Vice President and Secretary
TITLE

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 true copies of correspondence which show: (1) date of loan request, (2) amount and terms requested, (3) proposed use of loan funds, and (4) the 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 on MME Form 52. If the agreements cannot be obtained, state reasons and provide copies of letters of refusal.

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 and sampling methods used. Support your statement with copies of assay certificates and assay maps if available.

(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) State your reasons for expecting to find ore, and 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.

(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 and address 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 workings *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 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 cost 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).]

INT.-DUP. SEC., WASH., D.C

MR. WILLIAM KNIPS
753 OAK GROVE ROAD
MEDFORD, OREGON 97501

September 11, 1970

Walter Brewer
Jason Explorers Ltd.
775-555 Burrod Street
Vancouver 1, B. C.

Leveling for drilling site & building road at the Blue Ledge Mine.

Rental for D4 Cat complete operation	$14.00 per hr.
Moving in and out	56.00

Terms: To be paid when the job is finished.

Wm E. Knips

UNITED STATES NATIONAL BANK OF OREGON

MEDFORD BRANCH
131 EAST MAIN STREET
P. O. BOX 1107, MEDFORD, OREGON 97501
HEAD OFFICE — PORTLAND

September 17, 1970

Mr. Walter L. Brewer, Vice President
Jason Explorers, Ltd.
555 Burrard Street, Suite 775
Vancouver 1, British Columbia Canada

Dear Mr. Brewer

Pursuant to your recent telephone conversation with Mr. G. P. Parisi of our North Medford Branch, we are informing you that, as in the past, we are not particularly interested in investment type loans. As you know, this is especially applicable in connection with ventures devoted to mine exploration. In addition, due to its speculative nature, we are not at the present time interested in any short term financing arrangments with your firm.

We will, of course, be most happy to be of service to you as a depository.

Very truly yours

Don Kluherz

Don Kluherz
General Loan Officer

501 - 7th Street,
Nelson, B.C.,
Sept. 21, 1970.

Jason Explorers Ltd.,
775 - 555 Burrard Street,
Vancouver 1, B.C.

Dear Sirs:

The following letter is to outline a diamond drill program I would recommend for the Blue Ledge property, situated in Siskiyou County, California, approximately forty miles by road south of Medford, Oregon.

The program is based on ten holes, totalling 2,500 feet of diamond drilling, and located as shown on the attached Geochemical map. Holes one to six are located to test the Geochemical anomaly between lines 22N. and 26N. on No. 2 Midway Claim, and consist of three holes inclined at minus 30 degrees and three holes inclined at minus 60 degrees. Holes seven and eight are located to test the Geochemical anomaly between lines 36N. and 38N. on No. 3 Midway Claim, and inclined at minus 30 degrees. Holes nine and ten are located on the Blue Ledge No. 3 Claim to test the extension of the main ore zone north of No. 2 adit and at a lower elevation than No. 2.

1-3-5
2-4-6

Attached are bids from three diamond drill contractors and three bulldozer contractors. I have chosen Bob Shannon's diamond drill bid because I estimate it to be the lowest and I consider him to be dependable. I have chosen S. Wertz's bulldozer bid because, although it is higher than the two D-4 tractor bids, it is a reasonable price for a D-7 tractor with swamper and I think the larger tractor would be better suited for the work involved.

I have estimated the cost of the program to be $44,368 U.S., based on Shannon's and Wertz's bids. Following is a break-down of the cost estimate.

Diamond Drill Contract, based on Bob Shannon's bid.

Mobilization and Demobilization	$ 600
2,500 feet of B.X. Wireline drilling- 2,200 feet @ $8 plus 300 feet @ $9	20,300
Casing, Reaming, Cementing, Drill out Cement- 10 holes @ 12 hours = 120 hours @ $17.50	2,100
Hole to hole move- 9 @ $100	900
Standby time- 72 hours allowed free	
Hole additives (mud, cement, etc.)- 10 holes @ $40	400
Wooden core boxes- 100 @ $6.50	650
Bid based on working 5 days per week, therefore allowance should be made for working 7 days per week. This would involve 2 men per shift at time and one half for Saturdays and double time for Sundays. Overtime allowance- 8 weeks x 2 men x (24 hours @ $3 plus 24 hours @ $6)	3,456
Total diamond drill contract	$28,406

Bulldozer Contract, based on S. Wertz's bid. (Access roads, drill site preparation, etc.)

Access roads and site preparation for holes 1 to 8- 45 hours @ $21	$ 945
Rehabilitate old road for access to holes 9 and 10- 25 hours @ $21	525
Miscellaneous (snow removal, etc.)- 20 hours @ $21	420
2 moves in and out of property- 4 x $100	400
Total Bulldozer contract	$ 2,290

Miscellaneous- Supervision, Travel, Assays, Head Office Expenses, etc.

Field engineer and supervisor- 2½ months @ $1,250	$ 3,125
Field engineer, board and room- 90 days @ $15	1,350
Field engineer, vehicle travel on job- 3,000 miles @ 12¢	360
Field engineer, travel- 2 return trips Vancouver to Medford	200
Field engineer, communications with Vancouver, etc. (telephone and telegraph)	100
Assays- 200 samples, each assayed for Gold, Silver, Copper and Zinc @ $11 per sample	2,200
Core splitter	50
Accounting and office expense	500
Total miscellaneous	$ 7,885
Total diamond drill contract, bulldozer contract and miscellaneous	$38,581
Plus 15% contingency for adverse weather, etc.	5,787
Total Program	$44,368

It is very important that the program be started as soon as possible. It is the opinion of residents in the vicinity of the proposed drilling area that at that elevation, approximately 4,500 feet, snow can be expected any time around Nov. 15th in an average year. Drilling under winter conditions may easily increase costs by 20% above this estimate and could force a halt to the drilling.

Yours very truly,

W B Blair

W. B. Blair, P. Eng.

September 12, 1970

Mr. Walter Brewer
Jason Explorers Ltd.
775-555 Burrard St.
Vancouver 1, B.C.

Gentlemen:

I submit the following prices for proposed core drilling at the Blue Ledge Mine property.

Surface Drilling - B.X. Wire line

Mobilization and Demobilization		$600.00
B.X. Wire line core drilling	0' to 500' per ft.	8.00
	500' to 750' per ft.	9.00
Casing, reaming, cementing, drill out -Per hr.		17.50
Hole to hole move, (after first hole).		100.00
Hole additives (mud, cement, pulp, etc.) to be charged to Jaxon Explorers Ltd.		
Standby, (after first 72 hrs.),	per day	75.00

Core boxes @ $1.40 each to be charged to Jason Explorers Ltd.

Casing left in hole at Jason's request to be charged at original purchace price.

All roads and access to be provided by Jason Explorors Ltd.

I have not quoted A.X. Standard, as we can not provide these services to the prescribed depth, below B.X. Wire line prices.

Respectfully yours,

Bob Shannon

Bob Shannon
249 Ewe Creek Road
Grants Pass, Oregon 97526
Tel. 503-479-6555

BS:ss

P.S. Hours or shifts to be worked per 24 hour week day at Jason's discretion.

MEDFORD DIAMOND CORE DRILL CO.

P. O. BOX 742

MEDFORD, OREGON

PHONE 772-4537 or 482-3967

September 14, 1970

Walter Brewer
Jason Explorers Ltd.
775-555 Burrard St.
Vancouver 1 B.C. Canada

Gentlemen:

In reply to your request to quote prices on 2,500 ft. of drilling on your Blue Ledge property, I submit the following.

Moving in and setting up on first hole		lump sum	300.00
B.X. drilling	0' to 300'	per ft.	8.00
B.X. drilling	300' to 450'	per ft.	8.50
A.X. drilling	0' to 300'	per ft.	7.00
A.X. drilling	300' to 450'	per ft.	7.50

These prices firm on wire line or conventional.
These prices are firm on 1 - 2 or 3 shifts per day, but are not on holidays or overtime shifts.

Reaming in casing	per ft.	4.00
Cementing hole and drilling out same	per hr.	22.50
Moving hole to hole	per hr.	16.00
Standby time due to owners request	per hr.	16.00

Casing left in hole at owners request will be billed for at cost to contractor.

Core boxes can be furnished by contractor at cost to him, either wood or paper.

Any addatives that are used will be billed to owner at cost.

Owner to furnish access roads, keep them open and cut drill benches.

Demobilization charges lump sum 200.00

These prices are based on U.S. money.

Very truly yours,
MEDFORD DIAMOND CORE DRILL CO.

R. F. Hageman

R. F. Hageman
owner

Route 2 Box 471-1
Jacksonville, Oregon
September 14, 1970

Mr. Walter Brewer
Jason Explorations, Ltd.
775-555 Burrard Street
Vancouver B.C., Canada

Dear Sir:

This bid proposal submitted to Jason Explorations, Ltd, Vancouver, B.C., Canada, by Stan M. Wertz, for the hourly rental of one 17A Caterpillar D7 Tractor, with hydraulic Strait Dozer, D7D Winch and Canopy.

The submitted price of $21.00 per hour, includes the full operation, including the cat with operator, fuel, oil, grease, and any necessary repairs, plus a man for a swamper.

Any stand-by time will be charged at the rate of $14.50 per hour. (the word Stand-by, meaning for waiting purposes.)

The price for the move in will be $100.00.
This said machine not available prior to October 5, 1970.

Very truly Yours,
Stan M. Wertz
Stan M. Wertz
Route 2 Box 471-1
Jacksonville, Oregon 97530
Phone: 899-1155

SUPPLEMENTARY APPLICATION FOR FINANCIAL ASSISTANCE IN MINERALS EXPLORATION

Blue Ledge Property

JASON EXPLORERS LTD. (N.P.L.)
775 Bentall Centre
555 Burrard Street
Vancouver 1, B. C., Canada

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.)*

JASON EXPLORERS LTD. (N.P.L.)
775 Bentall Centre
555 Burrard Street
Vancouver 1, B.C., Canada

APPLICANT DO NOT USE THIS BLOCK

DOCKET NUMBER: OME 6777 (Copper)

DATE RECEIVED: rec'd. 4/18/69

REGION: see letter 4/16/69

DIVISION CODE:

BUSINESS ORGANIZATION *(Check one)*

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

STATE IN WHICH FIRM IS ORGANIZED: British Columbia, Canada

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

NAME	ADDRESS	TITLE
James D. Mason	801-955 Marine Drive, West Vancouver	President
Walter L. Brewer	5090 Crossway, West Vancouver	Vice President and Managing Director
Michael L. DuMoulin	5375 Angus, Vancouver	Secretary
Patrick H. Bibby	309-8th Street, New Westminster	Director
Dodd Q. Chu	642 West 51st Ave., Vancouver	Director
Cecil D. Poli	1058 Nelson Street, Vancouver	Director
Wallace S. Walker	5684 Beresford, Burnaby, B.C.	Director

MINERAL(S) FOR WHICH YOU WISH TO EXPLORE: Copper, Silver

ESTIMATED COST OF PROJECT: $403,291.00

PROPERTY NAME	LOCATION COUNTY	STATE
Blue Ledge Mine	Siskiyou	California

GENERAL INSTRUCTIONS

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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.

JASON EXPLORERS LTD. (N.P.L.)

15 April, 1969
DATED

Walter L. Brewer BY *(Signature)* Vice Pres. & Man. Dir.

Cecil D. Poli TITLE Director

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.

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(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.

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(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.

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(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).]

UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY
Office of Minerals Exploration
345 Middlefield Road
Menlo Park, California 94025

March 4, 1969

OFFICIAL COPY
O. M. E.
RECEIVED
MAR 5 1969
INITIALS | CODE

Memorandum

To: Chief, Office of Minerals Exploration
Washington, D. C.

From: Field Officer
Region II

Subject: New Application (Copper)
Blue Ledge Copper Mines Incorporated
Blue Ledge Mine
Siskiyou County, California

Enclosed is one copy of a new application received in this office March 3, 1969. A second copy has been retained in our files.

Financial eligibility of the Applicant may be impaired since the bank letters are from Jason Explorers and not from the Applicant.

Lien and Subordination Agreements are included, but they are superfluous as they are signed by the Applicant who is also the owner of the land. A Performance Bond would be required since the Applicant is a wholly owned subsidiary of a foreign corporation. Mr. James Mason stated orally that in the event of a contract, a bond would be furnished.

The Option Agreement appears, in effect, to be a lease on the land. If it is, then the L&S Agreements would be pertinent if Jason was the Applicant. Since Jason is putting up the money, perhaps it should sign the application rather than Blue Ledge, but such an arrangement would eliminate Jason as the consultant.

The Applicant's proposed program appears to be too extensive and too costly for the size of the inferred reserves that might be found. Part of the justification may be that it would aid in mining the known reserves. Some items of estimated costs are higher than going rates.

H. K. Stager

Enclosures

JASON

EXPLORERS LTD. ☐ 1170 - BENTALL CENTRE ☐ 505 BURRARD ST. ☐ VANCOUVER 1, B.C.

February 27, 1969

Office of Minerals Exploration
345 Middlefield Road
Menlo Park, California 94025

ATTENTION: Mr. Harold K. Stager

Dear Sir,

The enclosed application for financial assistance for minerals exploration is forwarded to you in duplicate with supporting documents.

It should be noted that Jason Explorers Ltd. will be operating this program on behalf of Blue Ledge Copper Mines Incorporated. Therefore at various places throughout these documents the address of Blue Ledge may appear at the same location as Jason Explorers. Any correspondence with Jason Explorers Ltd. or Blue Ledge regarding this application after March 12, 1969 should be directed to 775 - 555 Burrard Street, Vancouver 1, B.C. Our telephone number will remain the same (604) 684-2196.

We are anxious to commence work as soon as weather permits. We also wish to reiterate that we will have a field engineer on standby to meet your representative on the property at any time.

Thank you for your consideration of this application.

Yours very truly,

JASON EXPLORERS LTD. (N.P.L.)

Walter L. Brewer
Vice President and Managing Director

RECEIVED
MAR - 3 1969
OFFICE OF MINERALS EXPLORATION
U.S. GEOLOGICAL SURVEY
MENLO PARK, CALIF.

MME Form 40
Jan. 65

Budget Bureau No. 42-R1506
Approval expires Dec. 31, 1968

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.)*

BLUE LEDGE COPPER MINES INC.

Suite 401, 1033 Davie Street,
Vancouver 5, British Columbia

APPLICANT DO NOT USE THIS BLOCK

DOCKET NUMBER: 6777

DATE RECEIVED: 3/5/69

REGION: II

DIVISION CODE:

BUSINESS ORGANIZATION *(Check one)*

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

STATE IN WHICH FIRM IS ORGANIZED: California

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

NAME	ADDRESS	TITLE
W. B. Milner	2890 S.W.Marine Drive, Vancouver, B.C.	President
L. G. White	704 Parkside Road, West Vancouver, B.C.	Vice-Pres.
D. E. Betchley	1309 West 14th Avenue, Vancouver, B.C.	Secretary
F. W. Schroeder	716 West 66th Avenue, Vancouver, B.C.	Treasurer

MINERAL(S) FOR WHICH YOU WISH TO EXPLORE: Copper, Silver

ESTIMATED COST OF PROJECT: $ 403,291.00

PROPERTY NAME	LOCATION COUNTY	STATE
Blue Ledge Mine	Siskiyou	California

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. III). 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 Office of Minerals Exploration, Department of the Interior,* ~~Washington 25, D. C. or with the nearest OME Field Office.~~ 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.

BLUE LEDGE COPPER MINES INCORPORATED

February ~~15~~ 14, 1969
DATED

BY *(Signature)* [signature] Director

D E Betchley Secretary
TITLE

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 true copies of correspondence which show: (1) date of loan request, (2) amount and terms requested, (3) proposed use of loan funds, and (4) the 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 on MME Form 52. If the agreements cannot be obtained, state reasons and provide copies of letters of refusal.

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 and sampling methods used. Support your statement with copies of assay certificates and assay maps if available.

(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) State your reasons for expecting to find ore, and 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.

(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 and address 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 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).

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INT.-DUP. SEC., WASH., D.C

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INT.-DUP. SEC., WASH., D.C

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(2) Applicant's Rights in Land	Page 10.
(3) Physical Description	Page 29.
(4) Accessibility of Property	Page 65.
(5) Exploration Work	Page 66.
(6) Experience	Page 71.
(7) Estimate of Costs	Page 72.

(1) Financial Eligibility

(a) On September 23, 1968 Jason Explorers Ltd. (N.P.L.) applied for a loan from two banks to explore the Blue Ledge property. Each bank refused the loan at that time. On February 6, 1969 the company reapplied for the loan and was again refused. Copies of the correspondence with regard to these applications are included pages 2 to 9 inclusive.

(b) Jason Explorers Ltd., 1170 Bentall Centre, 505 Burrard Street, Vancouver 1, B.C., under terms of agreement, attached page 11, will own 75% of the stock in Blue Ledge Copper Mines Incorporated when the construction of a mill on the property has commenced.

Transcontinental Resources Ltd., 401 - 1033 Davie Street, Vancouver 5, B.C., will have a 25% interest in Blue Ledge Copper Mines Incorporated after development funds are repaid to Jason Explorers Ltd. See attached agreement.

(c) Funds for Blue Ledge's share of the cost of the exploration program will be furnished by Jason Explorers Ltd. (either by way of a loan or by share purchase).

September 23, 1968

Mr. D.G. Gibb
Mercantile Bank of Canada
540 Burrard Street
Vancouver 1, B.C.

Dear Mr. Gibb,

Further to our recent telephone conversation I would like to request that you enquire through your U.S. banking affiliate about the possibility of our firm's financing an exploration programme to the extent of roughly $250,000.00 on the Blue Ledge Copper Mine property in Siskiyou County, California.

I am enclosing a Summary Report on this property on which our Company will be earning a 75% interest over the next three years by putting this existing mine back into production.

The writer will be available at your convenience to supply additional facts regarding this project and the property agreement pertaining to this mine. Our local telephone number is 684-2196.

Thank you for your assistance.

Yours very truly,

JASON EXPLORERS LTD. (N.P.L.)

Walter L. Brewer
Vice President

Encl.

THE MERCANTILE BANK OF CANADA

Affiliated with

FIRST NATIONAL CITY BANK

VANCOUVER BRANCH
TELEPHONE 684-8411

540 BURRARD STREET
VANCOUVER 1, B.C.

October 29, 1968

Mr. Walter L. Brewer,
Vice President,
Jason Explorers Ltd.,
1170 Bentall Centre,
505 Burrard Street,
Vancouver 1, B. C.

Dear Mr. Brewer:

Reference is made to your letter dated September 23, 1968, regarding an exploration loan of $250,000 on the Blue Ledge Copper Mine property in California. We have referred your request to our affiliate, First National City Bank, New York, to determine their interest in providing the financing. They have advised, based on the information supplied, that they are unable to provide financing of the nature required for this particular project.

Yours very truly,

D. G. Gibb,
Assistant Manager.

DGG:skp

February 6, 1969

COPY

Mr. D.G. Gibb
Assistant Manager
The Mercantile Bank of Canada
540 Burrard Street
Vancouver 1, B.C.

Dear Mr. Gibb,

In October of last year you may remember we contacted you regarding a loan for the purpose of financing an exploration program at the Blue Ledge copper property in California. We would appreciate a brief letter indicating whether your policy may have changed in the interim in regard to financing mining exploration.

The reason for this additional enquiry is that Government regulations require that your reply be dated within 90 days of our date of application.

Sincerely,

JASON EXPLORERS LTD. (N.P.L.)

Walter L. Brewer
Vice President

THE MERCANTILE BANK OF CANADA

Affiliated with

FIRST NATIONAL CITY BANK

VANCOUVER BRANCH
TELEPHONE 684-8411

540 BURRARD STREET
VANCOUVER 1, B.C.

February 11th, 1969.

Mr. W.L. Brewer,
Vice President,
Jason Explorers Ltd.,
1170 Bentall Centre,
505 Burrard Street,
Vancouver 1, B.C.

Dear Mr. Brewer;

Reference is made to your letter of February 6th, and earlier correspondence regarding the Blue Ledge copper mine property in California.

We wish to confirm that our affiliate, First National City Bank, New York, have not changed their position concerning the requested financing.

Yours very truly,

D.G. Gibb,
Assistant Manager.

DGG/rb

September 23, 1968

Mr. James Lee
Assistant Manager
Royal Bank of Canada
685 West Hastings Street
Vancouver 2, B.C.

Dear Mr. Lee,

Further to our recent telephone conversation I would like to request that you enquire through your U.S. banking affiliate about the possibility of our firm's financing an exploration programme to the extent of roughly $250,000.00 on the Blue Ledge Copper Mine property in Siskiyou County, California.

I am enclosing a Summary Report on this property on which our Company will be earning a 75% interest over the next three years by putting this existing mine back into production.

The writer will be available at your convenience to supply additional facts regarding this project and the property agreement pertaining to this mine. Our local telephone number is 684-2196.

Thank you for your assistance.

Yours very truly,

JASON EXPLORERS LTD. (N.P.L.)

Walter L. Brewer
Vice President

Encl.

UNITED STATES NATIONAL BANK OF OREGON

MEDFORD BRANCH
131 EAST MAIN STREET
P. O. BOX 1107, MEDFORD, OREGON 97501
HEAD OFFICE — PORTLAND

October 31, 1968

Mr. Walter L. Brewer,
Vice President
Jason Explorers Limited
Suite 1170
505 Burrard St.
Vancouver, B.C.

Dear Mr. Brewer

It was a pleasure meeting and visiting with you concerning the plans of your company. We would like to formally welcome you to this area and thank you for utilizing us as your depository.

It is our understanding that immediate plans for your firm include the exploration of closed mines in Siskiyou County, California. Naturally we would hope to be of assistance to your firm; however, it is not within our bank policy to grant financing for ventures which are as speculative as mine exploration. Therefore, we must at this time decline your application.

Sincerely

G. P. Parisi
Assistant Manager

February 6, 1969

COPY

Mr. G.P. Parisi
Assistant Manager
U.S. National Bank of Oregon
P.O. Box 1107
Medford, Ore. 97501, U.S.A.

Dear Mr. Parisi,

Further to your letter of October 31, 1968 relating to the Blue Ledge copper property on which we are going to conduct an extensive exploration program, we would appreciate receiving a letter from you indicating whether or not your bank's position on such financing has changed in the interim.

The reason for this additional enquiry is that Government regulations require that your reply be dated within 90 days of our date of application.

We look forward to commencing work again in your area, weather permitting, and we will of course continue utilizing you as a depository.

Sincerely,

JASON EXPLORERS LTD. (N.P.L.)

Walter L. Brewer
Vice President

UNITED STATES NATIONAL BANK OF OREGON

MEDFORD BRANCH
131 EAST MAIN STREET
P. O. BOX 1107, MEDFORD, OREGON 97501
HEAD OFFICE — PORTLAND

February 14, 1969

Mr. Walter L. Brewer,
Vice President
Jason Explorers Ltd.
Suite 1170
Bentall Centre
505 Burrard St.
Vancouver 1, B.C.

Dear Mr. Brewer

Pursuant to your correspondence of February 6, we must again reiterate our bank policy as stated on October 31, 1968. Due to the money market, we are not particularly interested in investment type loans and this is particularly true on ventures devoted to mine exploration. In addition, due to the speculative nature of the company we are not at the present time interested in any short term type financing arrangements with the company.

Naturally if we can be of service to you as a depository we would be most happy to cooperate.

Sincerely

G. P. Parisi
Assistant Manager

(2) Applicant's Rights in Land

(a) The property is owned by Blue Ledge Copper Mines Incorporated, a California company. Blue Ledge Copper Mines Incorporated is a wholly owned subsidiary of Transcontinental Resources Ltd., 401 - 1033 Davie Street, Vancouver 5, B.C. Transcontinental Resources Ltd. has entered into an agreement with Jason Explorers Ltd., 1170 Bentall Centre, 505 Burrard Street, Vancouver 1, B.C., whereby Jason can earn a controlling interest in Blue Ledge Copper Mines Incorporated. A copy of the agreement is attached.

There are no liens, mortgages or other encumbrances on the land.

(b) The claims which will be explored are the Blue Ledge Number Three M.C., West Blue Ledge Number Two M.C., and West Blue Ledge Number Three M.C. These mineral claims are outlined in red on sheet three of the enclosed plats, page 25. The land adjacent to the claims being explored consists of the following claims: Blue Ledge M.C., Blue Ledge Number Two M.C., East Blue Ledge Number One M.C. and Marmion M.C.

All the above listed claims are patented lode mining claims, U.S. Letters Patent #240908, included in U.S. Survey No. 4548 and lie in portions of Section 3 and Section 10 in Township 47 North and Sections 22,27, and 34 in Township 48 North, all in Range 11 West of the Mt. Diablo Meridian, Siskiyou County, California.

Copies of the mineral plats are attached pages 23 to 28 inclusive. The longitudinal section, page 69, shows the relationship of the claims to be explored and the Blue Ledge M.C. on the plane N11°E and at a slope of 57° to the west. All the land on the Blue Ledge M.C. is excluded because it contains ore reasonably proven by existing underground development.

(c) Five copies of lien and subordination agreements are included in a separate envelope on MME Form #52 duly signed by Blue Ledge Copper Mines Incorporated.

IN THE MATTER OF AN AGREEMENT DATED FOR REFERENCE JULY 3rd, 1968 BETWEEN TRANSCONTINENTAL RESOURCES LTD., OF THE FIRST PART, JASON EXPLORERS LTD. (NPL), OF THE SECOND PART, AND BLUE LEDGE COPPER MINES INC., OF THE THIRD PART.

We, the undersigned, being all the parties to the above agreement, signed and sealed by all parties as of July 3rd 1968 hereby acknowledge that the agreement is still in force and effect and that none of the parties hereto are in default thereunder,

DATED as of the 15th day of April, A.D. 1969.

TRANSCONTINENTAL RESOURCES LTD.

PER: [signature]

DIRECTOR

[signature]

SECRETARY

JASON EXPLORERS LTD. (NPL)

PER: per [signature] Vice President

[signature]

Director

BLUE LEDGE COPPER MINES INC.

PER: [signature]

DIRECTOR

[signature]

SECRETARY

See letter 4/16/69 Jason

MEMORANDUM OF AGREEMENT dated for reference this 3rd day of July, A. D. 1968

BETWEEN:

TRANSCONTINENTAL RESOURCES LTD.

(hereinafter called "Transcontinental")

OF THE FIRST PART

AND:

JASON EXPLORERS LTD. (N.P.L.)

(hereinafter called "Jason")

OF THE SECOND PART

AND:

BLUE LEDGE COPPER MINES INCORPORATED

(hereinafter called "Blue Ledge")

OF THE THIRD PART

WHEREAS Transcontinental owns all the issued share capital of Blue Ledge;

AND WHEREAS Blue Ledge owns the mining properties in the State of California more particularly described in Schedule "A" attached hereto (hereinafter called "the mining properties");

AND WHEREAS Jason is desirous of expending money on the said mining properties and earning an interest in Blue Ledge upon the terms and conditions hereinafter set forth;

NOW THEREFORE IT IS AGREED BETWEEN THE PARTIES HERETO AS FOLLOWS:

1. Transcontinental hereby grants to Jason an option to acquire 75% of the issued share capital of Blue Ledge, such option to be exercised by Jason completing the commitments contained in paragraph 2 herein.

2. Jason shall

(a) spend on the mining properties on or before the 31st day of December, 1968, the sum of thirty thousand dollars ($30,000.00) and pay to Transcontinental the sum of twenty thousand dollars ($20,000.00), and

(b) in the period from July 1st, 1969 to June 30th, 1970, spend on the mining properties the sum of seventy-five thousand dollars ($75,000.00) and pay to Transcontinental the sum of forty thousand dollars ($40,000.00); and

(c) in the period from July 1st, 1970 to June 30th, 1971 pay to Transcontinental the sum of fifteen thousand dollars ($15,000.00) and Jason shall cause Blue Ledge with moneys advanced or arranged for by Jason, to commence the construction of a mill on the mining properties;

PROVIDED THAT for purposes of this paragraph 2, monies spent on the mining properties shall mean and include only the following:

(i) all costs incurred by Jason in maintaining camp facilities on the mining properties;

(ii) all costs incurred by Jason directly attributable to the prospecting, exploration and development of the mining properties, expressly excluding any allowance for the head office and administrative expenses of Jason as such, and excluding travelling expenses save such as might be incurred by supervisory personnel and others engaged in its operations on the mining properties;

PROVIDED FURTHER THAT Jason shall be entitled to be credited with amounts reasonably charged for engineering studies and technical work relating to the mining properties carried out in its offices and those of its consultants.

3. (a) Transcontinental shall upon execution of this agreement deposit shares representing seventy-five per cent (75%) of the issued share capital of Blue Ledge duly endorsed for transfer into escrow with the Guaranty Trust Company of Canada, Vancouver, B.C. (hereinafter called "the escrow holder") to be held by the escrow holder and to be delivered by the escrow holder to Jason upon completion by Jason of its commitments contained in paragraph 2 or to be returned to Transcontinental if this agreement is terminated prior to Jason's completion of its commitments, all in accordance with an escrow letter of instructions in the form annexed as Schedule "B" hereto, which shall be executed by Transcontinental and delivered to the escrow holder forthwith upon the execution and delivery of these presents.

(b) Upon completion of the commitments of Jason contained in paragraph 2 herein Transcontinental shall transfer seventy-five per cent (75%) of the issued share capital of Blue Ledge to Jason for Jason's own use absolutely.

4. Transcontinental and Blue Ledge covenant and agree with Jason as follows:

(a) That Blue Ledge is validly incorporated under the laws of the State of California and is at the date hereof in good standing, and has an authorized capital of one hundred thousand dollars ($100,000.00) divided into one hundred thousand (100,000) shares of which one hundred thousand (100,000) are issued, and

(b) That at the date hereof Transcontinental owns all the issued share capital of Blue Ledge and that it has full power and authority to enter into this agreement;

(c) That the mining properties are owned by Blue Ledge and in good standing free and clear of any charges or encumbrances.

5. IT IS AGREED BETWEEN THE PARTIES HERETO THAT all moneys advanced by Jason under paragraph 2 herein ~~of~~ to either Blue Ledge or to Transcontinental shall be deemed pre-production expenditures. The pre-production expenditures shall be paid back to Jason prior to any distribution of profits to the shareholders of Blue Ledge. Transcontinental, which has incurred twenty-five thousand dollars ($25,000.00) in expenses to date, will be repaid the twenty-five thousand dollars ($25,000.00) on a pro rata basis at the same time or times of repayment of the pre-production expenditures to Jason.

6. Prior to completion by Jason of its commitments under paragraph 2 herein:

(a) if Jason fails to comply with any of its obligations hereunder either Transcontinental or Blue Ledge may give to Jason sixty days' notice in writing of such failure specifying the same and demanding that such failure be remedied and if upon the expiration of the said sixty days such failure shall continue, then this agreement shall without further notice forthwith be terminated and become null and void;

(b) Jason shall be at liberty upon giving thirty days' written notice to Transcontinental and Blue Ledge to surrender all its rights hereunder whereupon this agreement shall forthwith terminate and become null and void;

(c) upon termination of this agreement Jason shall forthwith deliver up to Blue Ledge possession of the mining properties provided that Jason shall have the right during a period of sixty days after such termination to remove from the mining properties, without damage thereto, any and all equipment, plant and supplies furnished by Jason thereto.

7. During the currency of this option (and thereafter where expressly so stipulated), Jason covenants and agrees with Transcontinental and Blue Ledge as follows:

(a) Jason shall perform all operations on the mining properties in a good and miner-like fashion in compliance with all applicable laws and regulations;

(b) Jason shall at all times both during the currency of the said option and after the expiration thereof, hold Blue Ledge harmless from and indemnify Blue Ledge against all claims, demands, suits, judgments, loss, damage, expenses and liabilities of every kind and nature on account of the injury or death of any person or persons or loss or damage to property resulting or arising in any manner out of or in connection with Jason's operations or activities on the mining properties; and Jason in its said operations shall comply with the provisions of the Statutes of the State of California covering Workmen's Compensation and occupational disease from time to time in force and shall comply with all Statutes relating to Social Security, Unemployment Compensation and wages, hours and conditions of labour in connection with its operations upon the mining properties;

(c) Jason shall at all times both during the currency of the said option and after the expiration thereof indemnify and save harmless Blue Ledge against all claims or liens of workmen employed by Jason, or for material furnished to Jason or on any other account arising out of the operations of Jason on the mining properties (except for any lien arising by reason of government subsidy of Jason's operations upon the mining properties), and if any such liens be registered or recorded against the mining properties Jason shall promptly procure them to be removed at its own expense; PROVIDED THAT the continued existenc

of any lien upon the mining properties bona fide contested by Jason and with respect to which Jason has furnished to Blue Ledge a bond or other security good and sufficient to indemnify Blue Ledge against loss or expense on account of any such lien, shall not be deemed to be a failure by Jason to comply with its obligations under this agreement within the meaning of paragraph 6 (a) hereof;

(d) Jason shall permit a duly authorized representative of Transcontinental or Blue Ledge to visit the mining properties at all reasonable times and from time to time and to inspect the operations of Jason thereon;

(e) By the end of the calendar month immediately following the date specified for payment of monies to Transcontinental in paragraphs 2 (a), 2 (b) and 2 (c) hereof Jason shall furnish to Transcontinental and Blue Ledge a detailed statement of Jason's expenditures on the mining properties required thereunder; and such statement shall be deemed to be final and conclusively binding upon Transcontinental and Blue Ledge unless within fifteen (15) days after the receipt of any such statement Transcontinental or Blue Ledge give notice to Jason objecting to any item of expenditure therein set forth, in which event, within not more than thirty (30) days after such notice is received by Jason, the dispute shall be referred to a single arbitrator acting under the provisions of the Arbitration Act of British Columbia, whose decision as to the propriety of such expense and as to the liability of said parties for the cost of such arbitration proceedings shall be final and binding upon the parties hereto; PROVIDED THAT if the

Report

arbitrator disallows an expenditure made by Jason which is required to be made prior to a then past date on which the option hereby granted would otherwise have terminated by reason of failure to make such expenditure, such allowance shall not serve to terminate the option hereby granted if Jason deposits securities of the kind in which trustees are authorized by the Trustee Act of British Columbia to invest trust funds and in bearer form in principal amount at current market value equal to the amount of expenditure disallowed, which said securities shall be delivered back by Transcontinental to Jason forthwith upon the amount of such disallowed expenditure having been spent by Jason on the mining properties and Jason having otherwise duly observed and complied with all the terms of this agreement;

(f) Each statement of expenditures referred by Jason to Transcontinental and Blue Ledge pursuant to the last preceding sub-paragraph 7 (e) hereof, shall be accompanied by a comprehensive report of work done on the mining properties and the results obtained during the period when such expenditures were made but Jason shall not be required to include in any such report any interpretative conclusions based on the results obtained;

(g) In the event of the termination of this agreement for any reason Jason shall deliver to Transcontinental and Blue Ledge copies of all maps, drill logs, assays and other technical data relating to the operations of Jason on the mining properties, and turn over to Transcontinental and Blue Ledge all unused core samples and assay pulps and rejects.

8. From and after completion by Jason of its commitments under paragraph 2 herein and so long as Transcontinental and its nominees retain at least twenty-five percent (25%) of the issued share capital of Blue Ledge and Jason controls more than fifty percent (50%) of the voting shares of Blue Ledge, Jason covenants and agrees with Transcontinental as follows:

(a) Jason will vote or cause to be voted the shares controlled by it in the capital of Blue Ledge so that at least one director of Blue Ledge shall be and remain a nominee of Transcontinental PROVIDED THAT if Transcontinental shall notify Jason in writing from time to time that it wishes to replace its nominee-director, Jason will promptly vote or cause to be voted the shares controlled by it to effect such replacement as Transcontinental shall in writing direct;

(b) If Blue Ledge shall hereafter issue from time to time additional shares over and above the share capital outstanding as of the date hereof, Transcontinental shall be entitled to subscribe and pay the same price as then paid by Jason or other purchasers for such additional shares, for the same proportion of each class of such additional shares as the number of shares then held by Transcontinental bears to the total number of outstanding shares in the capital stock of Blue Ledge immediately prior to the issue of such additional shares.

9. (a) Save and except for Jason's commitment in paragraph 2 (a) herein, prior to the completion of Jason's commitment contained in paragraph 2 herein no provision of this agreement nor the granting of any postponement for the doing of anything provided for in this agreement shall be construed as a covenant on the part of Jason obligating Jason to complete

the commitments contained in paragraphs 2 (b) and (c) or any part thereof or to take possession of the mining properties or to carry out any operations thereon; the obligations of Jason herein being simply those of an optionee. The commitment of Jason described in paragraph 2 (a) herein shall be construed as a firm and binding commitment on Jason.

(b) Upon Jason fulfilling its commitment contained in paragraph 2 (a) herein it shall have earned ten percent (10%) of the issued share capital of Blue Ledge and it shall further be entitled to the immediate release of that percentage of shares of Blue Ledge held in escrow pursuant to paragraph 3 herein.

10. In the event of this agreement being terminated, Jason shall not be thereafter bound in debt, damages or otherwise under this agreement save as hereinbefore set forth in paragraphs 7 (b) and 7 (c) hereof.

11. Prior to Jason completing its commitment under paragraph 2 herein and provided that this agreement is in good standing Jason shall have full control, and possession of the mining properties and Jason, its servants, agents and workmen shall have the sole and exclusive right of access to and from and to enter upon and take possession of, prospect, explore, develop and mine the mining properties as it in its sole discretion may deem advisable subject only to the terms and conditions contained herein PROVIDED THAT nothing herein contained shall be construed as granting the right to Jason to remove ore from the mining properties except for purposes of assay.

12. This agreement shall be governed and construed in accordance with the laws of the Province of British Columbia but if any provision in any wise contravenes the laws of any Province or State or place where this agreement is to be performed, such provision shall be deemed not to be part

of this agreement therein. All reference to dollars herein shall be to dollars of Canada.

13. Any notice required to be given to either party by the other hereunder shallbe well and sufficiently given if sent by registered mail, postage prepaid, if to Transcontinental Resources Ltd. addressed as follows:

Transcontinental Resources Ltd.
401 - 1033 Davie Street,
Vancouver, B.C.

and if to Jason Explorers Ltd. (N.P.L.) addressed as follows:

Jason Explorers Ltd. (N.P.L.)
201 - 846 West Hastings Street,
Vancouver, B.C.

and if to Blue Ledge Copper Mines Incorporated addressed as follows:

Blue Ledge Copper Mines Incorporated
401 - 1033 Davie Street,
Vancouver, B.C.

Any party may change its address for notice by advising the other parties in writing. Such notice shall be deemed received three (3) days after posting in a post office box in the Province of British Columbia or the State of California.

14. The parties hereto agree to execute all such other documents and assurances as may be necessary to give effect to this agreement.

15. Jason will not assign this agreement or any benefit hereunder without the prior written consent of Transcontinental.

Subject to the last preceding paragraph 15 hereof, this agreement shall enure to the benefit of and be binding upon the parties hereto, their respective successors and assigns.

IN WITNESS WHEREOF the parties hereto have hereunto caused their corporate seals to be affixed in the presence of their proper officers duly authorized in that behalf as of the day and year first above written.

THE CORPORATE SEAL of
TRANSCONTINENTAL RESOURCES LTD.
was hereunto affixed in the
presence of:

DIRECTOR

SECRETARY

THE CORPORATE SEAL of JASON
EXPLORERS LTD. (N.P.L.) was
hereunto affixed in the
presence of:

THE CORPORATE SEAL of BLUE
LEDGE COPPER MINES INCORPORATED
was hereunto affixed in the
presence of:

DIRECTOR

SECRETARY

SCHEDULE "A" TO AN AGREEMENT DATED FOR REFERENCE JULY 3, A.D., 1968 BETWEEN TRANSCONTINENTAL RESOURCES LTD., JASON EXPLORERS LTD. (N.P.L.), and BLUE LEDGE COPPER MINES INCORPORATED

BLUE LEDGE PROPERTY:

Parcel 1

No. 4 Blue Bell	West Blue Ledge No. 3
No. 3 Blue Bell	Blue Ledge No. 3
No. 2 Blue Bell	West Blue Ledge No. 2
West Blue Bell	East Blue Ledge No. 1
No. 1 Blue Bell	Brown Bear
West Blue Ledge No. 1	Blue Ledge No. 2
Blue Ledge No. 1	Blue Ledge No. 4
West Blue Ledge	No. 1 Midway
Don	No. 2 Midway
Hamilton Blue Ledge	No. 3 Midway
Marmion	Nabob No. 2
Blue Ledge	Nabob No. 1
East Blue Ledge	Nabob

All the above listed claims are patented lode mining claims, included in U. S. Survey No. 4548, and lie in portions of Sections 3 and 10 in Township 47 North and Sections 22, 27 and 34 in Township 48 North, all in Range 11 West of the Mt. Diablo Meridian, Siskiyou County, California.

Parcel 2 The Seattle Consolidated Placer Claim, patented covering the SE1/4 of the NE1/4 and the E1/2 of the SE1/4, Section 10, Township 41 South, Range 4 West of the Willamette Meridian, Jackson County, Oregon.

(3) Physical Description

(a) The attached report, page 30; prepared by consulting engineer William M. Sharp, a registered engineer in the Province of British Columbia, contains plans and sections covering all the work undertaken in the mine area. There are no production facilities.

(b) The entire property is covered by the option agreement referred to in clause 2 (a).

(c) Previous production is covered in the Sharp report, page 43.

(d) Ore reserve calculations are covered in the Sharp report pages 52 to 58 inclusive and also in the U.S. B.M. Report of Investigation 4124.

(e) Covered in the Sharp report, pages 46 to 51 inclusive.

(f) The only sampling in the area of proposed exploration was in a small adit and drift. This drift was sampled late in the fall of 1968 after the Sharp report was made, it was water-filled before. A plan, page 64, together with assays is attached. Although the widths and grade do not make ore where sampled, they do show that ore grade copper does extend into the area to be explored. The balance of the area to be explored is largely covered with overburden.

(g) W.M. Sharp's report, attached page 31.

SUMMARY REPORT

on an

INVESTIGATION

of the

BLUE LEDGE MINE

in the

ELLIOTT MINING DISTRICT

of

SISKIYOU COUNTY, CALIFORNIA
U. S. A.

for

JASON EXPLORERS LTD. (N. P. L.)

by

W. M. Sharp, P. Eng.,
Vancouver, B. C.

July, 1968

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Fig. 1 Index Map, Blue Ledge Mine; scale 1" = 4 mi.

Fig. 2 Claim Map, Blue Ledge Mine; scale 1"= 500'.

Dwg. 1 General Topography & Surface Geology; Scale 1" = 200'.

Dwg. 2 Spread-Composite Plan, Mine Workings, Geology and Assays; Scale 1" = 40'.

Dwg. 3 Composite Longitudinal Vertical Section - Mine Workings, Geology, and Principal Assays; scale 1" = 40'.

Dwg. 4 Composite Longitudinal Vertical Section - Ore Blocks and Principal Geological Features; scale 1" = 40'.

Dwg. 5 Principal Cross-Sections, scale 1" = 40'.

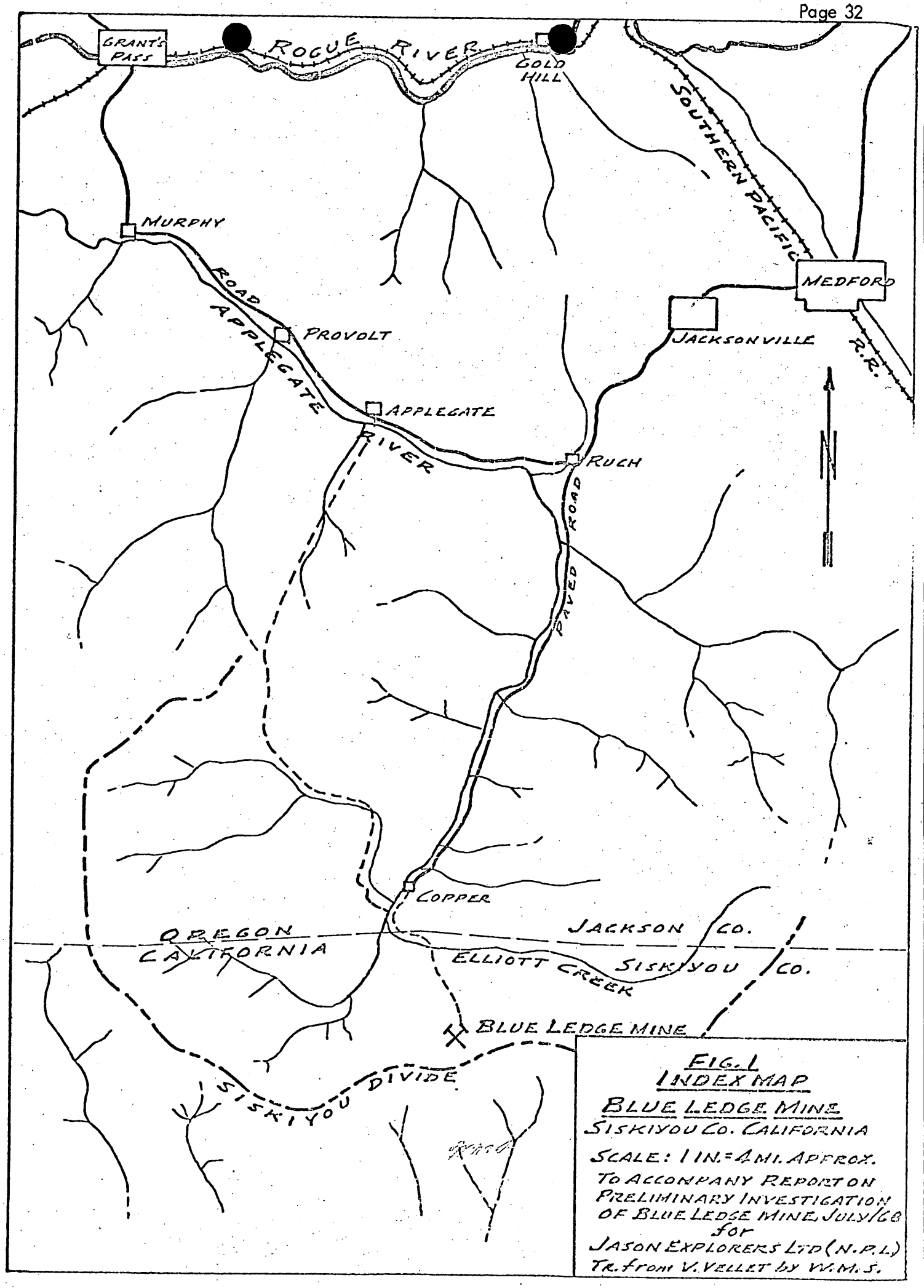

FIG. 1
INDEX MAP
BLUE LEDGE MINE
SISKIYOU CO. CALIFORNIA
SCALE: 1 IN. = 4 MI. APPROX.
TO ACCOMPANY REPORT ON PRELIMINARY INVESTIGATION OF BLUE LEDGE MINE, JULY/68 for JASON EXPLORERS LTD (N.P.L.)
TR. from V. VELLET by W.M.S.

SUMMARY AND RECOMMENDATIONS

The Blue Ledge property is located within the Elliott Mining District, Siskiyou County, California at 28 map-miles southwest of Medford, Oregon. The mine workings are adjacent to Joe Creek, and the claims acutely traverse this same creek in a general north-south direction. The 487-acre group comprises a single strip of 26 patented mining claims of 4.4 miles length; it was situated to cover known and probable extensions of the Blue Ledge gold-silver-copper-zinc ore zone. From Medford, the mine is reached via 30 and 10 miles, respectively, of paved highway and good gravel road.

The deposit was discovered in 1898 by prospectors investigating gold occurrences on Joe Creek. During the next few years the owners and lessees drove No. 1 tunnel a short distance. In 1905 the property passed to Cia Metalurgica Mexicana; thence, in 1913, to the affiliated Mexican Smelting and Refining Company. These groups accomplished most of the existing 13,197 feet of mine development and 9,290 feet of diamond drilling between 1905-1909 and 1917-1920; high-grade ore shipments were made to the Tacoma smelter during the latter period. In 1930 the property was leased by Messrs. Reddy and Hughes from the A.S. & R. Company of New York. During 1930, and since which time the mine has been inactive, the lessees shipped 2,575 tons of sorted dump ore. In 1956 the Canadian company, Transcontinental Resources Ltd. acquired the property and held it, inactively, to the current year. In July, 1968 the present mining exploration company, Jason Explorers Ltd. (N.P.L.), negotiated an agreement with Transcontinental Resources Ltd. to acquire the property, and develop it into production. In this connection, the writer personally examined the property during early June of this year.

The total recorded ore shipments to date amount ~~of~~ to 11,151 tons at an average grade of 0.092 oz/ton gold, 5.24 oz/ton silver, and 12.12% copper. This production derived principally from development work.

The mine area is geologically situated within a compressed, regional geosynclinal succession of Mid-Devonian to Jurassic sediments, containing major sections of highly-metamorphosed Carboniferous-Triassic rocks. The mine is situated within a northerly-trending, 10 by 20 mile schistose septum of the latter rocks. The mine formation, in east-west cross-section, comprises successive units of carbonaceous, chlorite-sericite, and quartz-sericite schist; the composite formation strikes N 10°E and dips at an average 60° west.

The Blue Ledge mineralization occurs as structurally-conformable, tabular sulphide replacement zones in quartz-sericite schist at, and closely above its contact with the chlorite schist unit. Ore is structurally-localized to major dip flexures - particularly where these are further complicated by drag-folding. Orebodies comprise disseminated, to massive replacements in the form of bands, ('veins'), lenses, and irregular fold-masses. Mineralization consists of pyrrhotite, pyrite, sphalerite, and chalcopyrite - in about that order of relative abundance; significant amounts of gold and silver occur - principally with the chalcopyrite. The ore also contains unimportant amounts of galena, covellite, and other sulphides.

The presently-developed ore lies within two separate zones, termed the 'hangingwall' and 'footwall' orebodies; the former contains 80 percent of the known ore reserves. The aggregate ore zone - continuous, but locally displaced by cross faults - has developed strike, and dip-dimensions of 1300 and 350 feet, respectively; an additional 600-foot strike extension is indicated on No. 22 level south. The average thickness is 5 feet. Down-dip of the main orebody another potentially ore-bearing lens has been indicated by exploration below the lowest (No. 2) mine level. In addition, a parallel, conformable zone of disseminated pyrite lies closely west of the 'hangingwall' body; this has been explored to only a minor extent, as have other similar pyritic replacements at other localities in the general mine area. Beyond the mine workings, the Blue Ledge mineralization is known to extend north and south, on strike, for at least another 800 feet in each direction. target

The writer's estimate of the Blue Ledge ore reserves is as follows:

Class	Tons	Average Width	oz/ton Gold	oz/ton Silver	% Copper	% Zinc
'Developed'	59,000	5.2'	0.059	2.38	4.41	4.3
'Indicated'	77,400	4.92'	0.067	2.22	3.96	4.75
Sub-Total	136,400	5.0'	0.062	2.25	4.08	4.5
'Inferred'	48,400	3.68'	0.045	2.7	3.7	4.8
Total, In-place	184,800	4.6'	0.058	2.36	3.97	4.6
Broken, Stopes & Dumps	42,000	-	0.039	1.25	1.42	1.17

The ore zone has been explored and partly developed over gross lateral and vertical ranges of 1900 and 1000 feet, respectively. This has been done via seven main levels, three main sub-levels, and several major, to minor raises and winzes - all totalling 13,197 feet.

There are excellent possibilities for developing additional ore on 'open' extensions of the main ore zone within extensive mine sections extending upward, and to the south of the higher mine levels. There are also good possibilities for a new orebody below No. 2 level on extensions of the partly delineated mineralization within this part of the general mine section. To date, not over 25 percent of the potentially ore-bearing mine section has been explored in any detail. In view of this, and of the known persistence of favourable structural-lithological conditions throughout this panel, the writer concludes that there is a good possibility that current ore reserves may be doubled, or tripled by comprehensive exploration and development within the general mine section.

Metallurgical testing shows that the ore contains no refractory constituents; therefore satisfactory copper recoveries and concentrates are attainable by standard milling procedures.

A preliminary, but detailed production analysis, made by the Company, and closely checked by the writer, is summarized below; the writer believes that the basic assumptions regarding ore grade, metallurgical performance, production costs, etc. are realistic:

Indicated average ore grade, @ 20% dilution	Gold,	0.03 oz/ton @	$40 per oz.
	Silver,	1.7 oz/ton @	$2.25 per oz.
	Copper,	3.2 %	40¢-50¢ per lb.
	Zinc,	3.5 %	5¢ per lb. net smelter

Expected recoveries: Gold and silver @ 65%; copper @ 85%; zinc @ 65%.

Price per lb. Copper	Estim. Net Smelter Value per ton of ore	Estim. Total Mine & Cap. Costs per ton of ore	Estim. Profit per ton of ore
40¢	$22.54	$16.34	$ 6.20
45¢	$24.94	"	$ 8.60
50¢	$27.54	"	$11.20

On an estimated ore reserve of 250,000 tons, the operating profit after return of capital, but before exploration and taxes, would be, with copper @ :

40¢/lb	$1,500,000
45¢/lb	$2,150,000
50¢/lb	$2,800,000

Supp. notes:

a) Writer's estimate of grade of diluted ore exceeds above grade

b) Above estimates do not include 1-2 lbs Cd per ton of ore.

In view of the indicated profitability of a mining operation at the Blue Ledge property, the writer recommends the following general programs:

STAGE I

1.	Establish field office and reconstruct jeep-access road to No. 2 portal, allow	$ 10,000
2.	Construct heliport @ No. 1 lev. - incl. material and supply	1,000 //
3.	Provision for prelim. rehabilitation-access, main tunnels	5,000 //
4.	Geological mapping, surface & underground	2,500 //
5.	Geochemical reconnaissance; 10 days, 500 samples	2,500
6.	Provision, geophysical explorations, magnetometer E-M	5,000
7.	General provision, travel, equipment rentals, overhead	4,000
8.	Provision for surface diamond drilling, 3000' @ $11.00	33,000
	Sub-total, STAGE I	$ 63,000

STAGE II

1.	To driving low-level (el. 4000') tunnel, 1500' @ $65.00	$ 97,500
2.	To 2-500' raises to #2 level, 1000 @ $40.00	40,000
3.	Provision for tunnel plant preparation	15,000 //
4.	General provision for supervision, overhead, etc.	15,000
	Sub-total, STAGE II	$167,500

Respectfully submitted,

W. M. Sharp

W. M. Sharp, P. Eng.,

INTRODUCTION

Late in May, 1968 Jason Explorers Ltd. (N. P. L.) requested and authorized the writer to inspect the Blue Ledge property, and to follow this with a report on his general investigations. Prior to his field visit Mr. J. D. Mason, P. Eng., President of the Company provided the writer with a comprehensive file of reports, records, and correspondence from, and between former Blue Ledge field staff and Towne Securities Corporation principals; this included several examination and evaluation reports by consultants to the original owner. A second file comprised a report and maps ensuing from a detailed investigation of the mine geology and ore reserve situation by Bureau of Mines (U. S.) personnel between 1943 and 1945 - this investigation, incorporating prior American Smelting and Refining Company sampling and production records; the Bureau of Mines' report has provided most of the basic data for all subsequent geological reports, ore reserve estimates, and general feasibility studies.

The writer personally examined representative, accessible sections of the Blue Ledge mine workings and mineral exposures in the course of his June 5 - 9, 1968 visit; this included general observations of the local geology and mineralization, check sampling of portions of the main orebodies exposed on, and near No. 1 level, and observations of relevant features of the immediate mine area and district.

The accompanying report drawings are essentially based on earlier maps and sections by the Bureau of Mines, and derivatives of these; however, the writer has made some changes with regard to sample-assay groupings, ore block configurations, and certain fault correlations.

PROPERTY

A - LOCATION & ACCESSIBILITY : The Blue Ledge property is situated in the Elliott Mining District in Siskiyou County, California, at some three miles south of Oregon State border; land maps situate the claims in section 34, T. 48 N., R. 11 W., and section 3, T. 47 N., R. 11W., Mt. Diablo Meridian (Fig. 1).

Medford, Oregon is the railroad shipping point nearest to the Blue Ledge Mine; it is served by a branch of the Southern Pacific Railroad and by U.S. Highway 99.

From Medford, the mine is reached via some 30 miles of good paved road through Jacksonville to Copper, Oregon; thence by about 10 miles of well-constructed, all-weather gravel road to the former mine camp area. The latter section has an average 10 percent gradient and, quite locally, 18 percent. A truck plow should be adequate for snow clearing and general maintenance during the winter months.

An alternate access route is via Grant's Pass, Oregon to Ruch, where it joins the above-noted paved road from Medford.

Medford lies some 275 and 415 highway-miles south of Portland and Tacoma, respectively - the latter being the site of the A.S. & R. Company's copper smelter.

The claim group traverses, in a general north-south direction, two northerly spurs of the Siskiyou Range; property elevations range between 3000 and 6000 feet. The rugged topography is characteristic of the above range, which comprises a northwesterly prong of the northern Sierra Nevada.

The local drainage is to the north into Oregon, via Joe Creek, Elliott Creek, Applegate River, and the Rogue River - all comprising regionally important sport-fishing streams. Joe Creek, situated some 600 feet below, and 1200 feet northeast of the lowest (No. 2) mine portal, has an estimated minimum flow of 18 cu. ft. per minute.

The property lies wholly within Rogue River National Forest - a public recreational preserve.

The claims contain residuals of formerly extensive stands of fir and pine; local logging interests apparently negotiated the Blue Ledge timber rights until December 31, 1968.

B - MINE WORKINGS :

These are shown, in plan and section, respectively, on Dwgs. 2 and 3; hence, are not detailed within this text.

To date, the Blue Ledge copper-zinc ore zone has been explored and partly developed through a gross strike length and vertical range of 1900 and 1000 feet, respectively. Within this a principal ore section has been closely developed over a strike length of about 1300 feet and dip-length of some 350 feet. The 'broadly-explored' fractions of the gross mine section all comprise potentially mineralized and/or ore-bearing ground - as do the northerly and southerly extensions of the Blue Ledge structure beyond the present limits of the underground workings.

The mine has been explored and developed by some 13,000 feet of workings via seven main levels, three main sub-levels, and several major, to minor raises and winzes. For convenient reference, the total development is listed:

Level No:	Elevation, Ft.	Drifts, Ft.	X-cuts, Ft.	Raises & Winzes Ft.	Total Ft.
9	4902		70		
10	4932	440	502		
22 Sub-S.	4835	620	100		
22 Sub-N.	4820	225	80		
8	4771	1265	160		
1	4709	2470	390		
12 Sub.	4660-76	1680	130		
4	4610	795	105		
2	4459	810	300		
2 Sub.	4279	155			
		8460	1837	2900	13,197

The major amount of development has been undertaken from, and between 8, 1, 12, and 4 levels - with No. 4, the lower, serving as the main production level during former mining operations.

Only a minor fraction (approx. 3%) of the currently-established total ore reserves have been stoped; of some 8800 tons of mixed ore and waste broken, some 3000 tons remain as firm 'gob.' Probably most of the 11,151 tons of direct shipping ore was derived from exploration-development headings.

The orebodies have been sufficiently regular, and the wall rocks sufficiently strong to permit open, or shrinkage stoping procedures. Only locally have they required timber support - a function which in general, would be currently performed more efficiently and cheaply by rock-bolting.

Main development headings have a general cross-sectional dimension of 6 by 8 feet, and have relatively straight alignments - the latter partly by reason of the consistent trend of the mineralization, and partly by efficient planning and supervision.

Natural ventilation maintains good air conditions throughout most of the workings, in spite of locally-caved sections. Seasonal, and daily changes of natural air-flow through the developed parts of the mine, and lack of ventilation within separate headings could be adjusted and rectified by the installation of draft-doors and/or fans.

In general, the mine workings are in surprisingly sound condition, in spite of the fact that the greater part of the development was accomplished between the years 1904 and 1909. Local caving and flooding, and the general deterioration of raise timbers prevents full access to all workings. In view of current plans which contemplate full-scale development of the mine via a new low-level adit and main service and transfer raises, it would not be necessary to fully rehabilitate all of the workings; locally, this could be restricted to principal stoping sections, with such clean-ups and repairs as are necessary to effect safe access to them, and adequate drainage and ventilation of these and adjoining exploration areas.

C - CLAIMS

These are shown on Fig. 2; data from V. Villett, 1964:

The Blue Ledge property comprises 26 patented mining claims of 487.18 acres gross area, and is certified as Mineral Survey No. 4548 of August 3, 1908 in an unorganized mining district in Siskiyou County, California. The claims were patented on January 8, 1912 under U.S. Letters Patent No. 240908. The claims, grouped as a 4.4 mile long continuous strip of width ranging from one to, locally, four claim-breadths (600'-2400'), amply cover the inferred extent of the Blue Ledge mineral zone. The following is a list of claims comprising the group:

NAME(S), MINING CLAIMS

Number One to Four Blue Bell, inclusive

West Blue Bell

West Blue Ledge

West Blue Ledge Number One to Three, inclusive

Blue Ledge

Blue Ledge Number One to Four, inclusive

Don

Hamilton Blue Ledge

Marmion

East Blue Ledge

East Blue Ledge Number One

Brown Bear

Number One to Three Midway, inclusive

Nabob

Nabob Number One and Two

The mine workings center on the Blue Ledge Mining Claim; the former camp site and proposed mill and tailings - disposal site were contained within the East Blue Ledge Number One and Brown Bear Mining Claims.

The writer does not have personal knowledge of other local property which may be held by the Company; this information would be available from the client's principals.

D - OWNERSHIP

The Canadian mining company, Transcontinental Resources Limited (N. P. L.) has held the property since 1956; Jason Explorers Ltd. (N. P. L.) have negotiated an agreement with the first-mentioned Company for acquisition of the Blue Ledge property. As the writer does not have full knowledge of the terms of the agreement, these would be forthcoming from Company principals. Similarly, details of existing legal rights, concessions, and encumbrances relating to

the Blue Ledge claims and/or other properties would also be provided by the client's principals.

GENERAL INFORMATION

A - PHYSICAL FEATURES : The principal mine workings are situated between the 4400-5000 foot elevations in an area of steep, to locally precipitous topography.

The average annual precipitation is 33 inches; that for snowfall is about 138 inches. Warm, dry summers and cool, wet winters are typical of the region. A permanent aquifer supplies Joe Creek with a continuous flow of water throughout the summer months - and which would be adequate for mining purposes. Elliott Creek, which is joined by Joe Creek at some 4 miles downstream of the mine area, forms the closest water supply which would be assuredly adequate for year-round mining and milling operations.

B - LABOUR SUPPLY & SERVICES : In reply to a recent query by Mr. Brewer, a prominent southern Oregon mine operator advises that there would probably be many ex-miners in the area who quit their present employment to get back into mining. Expectable wage rates would be in the range of $3.50-$3.75 per hour.

Medford, Oregon (pop. 30,000 approx.) comprises the regional centre for general labour, supplies, and services. Mine supplies and ordinary equipment are obtainable at a branch mine supply agency; lumber and timber, in any quantity, are readily available; general hardware is provided by several well-stocked wholesale and retail outlets.

In the writer's opinion it would be unwise, initially, to establish full-crew accommodation at the mine site, in view of present-day labour's general objections to living away from established, well-serviced communities.

HISTORY & PRODUCTION

The deposit was discovered in 1898 by prospectors engaged in panning for gold on Joe Creek. No. 1 level was started soon after the discovery; thereafter it was intermittently advanced a short distance by several lessees. In 1905 the property was sold to

Cia Metalurgica Mexicana, with operations directed by R.S. Towne of New York City. In May, 1913 the property was passed to Mexican Smelting and Refining Company, a subsidiary of the former company. Most of the existing development work was done between the years 1905-1909 and 1917-1920.

Shipments of high-grade ore were made during the 1917-1920 period, and comprised 8,576 tons - this being hauled by wagons to Copper, Oregon, trucked to Medford, and shipped by rail to the A.S. & R. smelter at Tacoma.

Operations were suspended between 1920-1929. In 1930 the property was acquired, via a bond and lease agreement, by Messrs. Reddy and Hughes; during this year they shipped 2575 tons of good grade ore, which was obtained principally by working the dumps and, to a lesser extent, from selective underground mining. The mine has not operated since 1930. Transcontinental Resources acquired the property from A.S. & R. Co. on May 23, 1956. Jason Explorers Ltd. (N.P.L.) negotiated an acquisition agreement very recently.

Ore shipments to the end of 1930, as recorded from smelter receipts, total

operating cost p.60 — 16.37

11,151 tons containing: gold, 0.092 oz/ton @40 = $3.68 } 13.90
silver, 5.24 oz/ton @1.95 = 10.22 }
copper, 12.12 % @.40 = 96.96

The gross ore production, principally from development operations, and delivered to the mine dumps, grossed in the vicinity of 47,000 tons grading 2% copper. Shipments of sorted dump ore reduced this to the currently estimated 39,000 net tons, averaging 1.42% Cu.

Comprehensive investigations of the property have been carried over the years by several organizations:

Between 1905 and 1920 the R.S. Towne - directed companies performed the bulk of the mine development, stoped a minor tonnage of ore, and accomplished 9290 feet of diamond drilling - most of the latter being within subsequently-developed sections of the mine, and a relatively minor amount within southerly and

lower parts of the workings. The principal engineering contribution of the group comprised a comprehensive record of exploration-development sampling results.

Prior to 1942, A.S. & R. Co. crews re-sampled the mine workings in close detail and carried out and/or collaborated in diamond drill exploration for possible zone extensions.

Between November 1943 and October 1944 the Bureau of Mines conducted a thorough check-sampling and geological investigation-evaluation of the property. With this, they further explored the section below No. 2 level via 4 diamond drill holes totalling 910 feet. Their investigations led to a sound, though somewhat conservative estimate of the ore reserves.

During a period in June-July, 1964 V. Vellet examined the property for Newmont Exploration Ltd. This investigation comprised check-geological mapping of the then-accessible No's 10, 1, 12, 4, and 2 levels, and supplementary surface geological mapping in the vicinity of the mine workings. Mr. Vellet's estimate of ore reserves was properly based on pre-existing sampling data; this indicated nearly double the tonnage computed by the Bureau, but at lower average grade and greater average width.'

GEOLOGICAL SETTING

The Elliott Mining District and Blue Ledge claims lie within an extreme northwesterly extension of the Sierra Nevada geological province. Rocks underlying the general region are tentatively grouped with a compressed geosynclinal succession of marine sediments ranging in age from Mid-Devonian (Kennett Formation?) to Jurassic; major sections of Carboniferous-Triassic rocks occur within the general section. The mine formation, apparently consisting of a closely-folded, regionally-metamorphosed assemblage of bedded, (impure-felsic) tuffs and carbonaceous argillites, probably comprises one such formational unit.

The few bodies of intrusive rocks occurring within the Elliott Creek area are of ultrabasic composition. Most probably, these are local outliers of the general system of older (late Upper Jurassic) ultrabasic intrusions which preceded that of the main Jura-Cretaceous Sierra Nevada granitic batholith. Small stocks of this ultrabasic rock - all more-or-less serpentinized - have been noted at 1/2 and 2 miles east and west, and some 5 miles

south (Seiod Chrome District) of the Blue Ledge mine. The Cascade system of younger (Cretaceous to Tertiary) granitic intrusives is known to extend into southern Oregon, but apparently does not extend as far south as the mine area.

If the Blue Ledge mineralization is genetically related to a post-ultrabasic phase of intrusion, the source rocks must occur at a considerable depth within, or below the exposed formations.

The Blue Ledge mine is centrally situated within a general schist belt which is some 20 miles long by 10 miles wide. At the mine, the schists strike at an average N 10°E and dip at about 60° west (Dwg. 1) Throughout the general mine area the schists maintain the above general trend; locally, however - as within the principal mine section - they are strongly to intricately folded. The mine structures appear to have developed from dip-wise intra-bed adjustments.

MINE GEOLOGY

Drawings 2 and 3 supplement the following text:

Within the mine three readily distinguishable schist units are apparent. These are, from footwall to hangingwall across the mineralized section: carbonaceous schist, (calc) chlorite-sericite schist, and sericite-quartz-chlorite schist. For convenience of description, the latter two are designated simply as chlorite schist and quartz schist. The chlorite schist, in many places, forms the footwall of the mineralization, with the ore generally occurring within the relatively more competent quartz schist member.

The Blue Ledge orebodies consist of attenuated lenses and irregular masses, and bands of disseminated to massive, relatively fine-grained aggregates of pyrite and pyrrhotite - the iron sulphides containing chalcopyrite and sphalerite. Important amounts of gold and silver occur with the sulphides - principally with the chalcopyrite; locally, small amounts of galena and/or covellite are present. The strike-length of the developed ore bodies is about 1300 feet; the dip-length is about 350 feet. The over-all average ore width is about 5 feet.

The principal orebodies occur on two separate, generally tabular sulphide replacement zones; these are designated - mainly for convenience of description - as the hangingwall and footwall 'veins'. These veins are roughly parallel, but with normal separations actually ranging from 2 to 60 feet. Probably, they formed by a splitting and branching of one principal zone of shearing; they apparently join to the north in the vicinity of No. 1 portal and, down-dip, at a complexly folded horizon, between No's 12 and 4 levels. Below this point the main, or hangingwall vein narrows and locally, pinches to a width of only a few inches within a dip-interval extending almost to No. 2 level. Approximately 80 percent of the total ore reserves occur within the hangingwall vein, and 20 percent within the footwall vein.

The Newmont mapping suggests that veins tend to maintain fairly consistent widths, on gently sinuous trends, over relatively long strike intervals. This apparent regularity, however, is not confirmed by actual, recorded sample widths which, if anything, suggest that a rapid variation of actual ore widths along the strike of any vein is more nearly representative of actual conditions. The cause of this discrepancy should be investigated by check detail mapping.

In cross section, those parts of the vein which include the wider portions of the orebodies exhibit marked irregularities in shape, width, and local continuity. However, these irregularities comprise normal and favourable features of the structure, in that the wider, and richer ore sections occur where formational flexuring, drag-folding, and en-echelon displacements of the ore band are most intense and complex.

In cross-sectional view, the composite pattern of flexuring, drag-folding, and fault displacements, which are essentially localized to the chlorite and quartz-sericite schist bands and included ore band, suggests that these developed in response to intra-formational stresses accompanying the regional (isoclinal?) folding. Obviously, the major adjustments operated in the dip-direction of the structure. The indicated displacement is one in which hangingwall elements of the mine section moved down-dip with respect to footwall units. With this relative displacement, 'open-space' or 'tensional situations' could be expected where dips steepen and/or where drag-folding and related flexuring are best developed. The correspondence of wider and richer ore sections with such structures is sufficient

evidence for assuming that they furnish the predominant ore control. In shape, the resulting orebodies are markedly elongate in the strike, or fold-axis direction, and of relatively restricted dip-extent. For the hangingwall orebody, an elliptic - ratio of 4 : 1, or greater is suggested. Because of this feature development potential would be properly expressed as tons per lateral foot.

At irregular, but relatively frequent strike intervals major formational stresses were in part relieved by northwesterly, to westerly-striking faults and less-frequent northeasterly-striking shears. The northeasterly-trending shears appear to have developed somewhat contemporaneously with that of the principal folding; the northwesterly set appears to have developed later - or along with, and after drag-fold development. The northeasterly-trending shears, which appear to be essentially pre-ore in age, displace all formational units (and the hangingwall pyrite band) relatively southwestward. Faults of the northwesterly-westerly set, in single or imbricate arrangement, effect predominantly left-hand, and occasional (compensating) right-hand displacements.

The Bureau of Mines' interpretation of the local structural mechanics infers that the mine faults significantly assisted in the development of favourable ore structures. However, in the writer's opinion, they were of minor importance in this regard; it appears that they merely represent final relief, by fracturing, of the stresses that operated to produce the more significant controlling fold structures. The fact that the better ore sections do not necessarily occur at vein-fault intersections, or within zones of multiple faulting rather substantiates the latter interpretation. If anything, the presence of strong faulting or shearing may serve only to complicate the vein pattern.

In addition to the footwall and hangingwall replacement ore zones there is at least one known additional zone lying closely west of these. This occurs within the hangingwall quartz-sericite schist member; mineralization comprises disseminated pyrite with, generally, only trace amounts of ore sulphides. Structurally, this zone is similar to the productive bands and could, where conditions are favourable, be significantly mineralized. To date, it has not been very closely explored. This, and other similar pyritic replacements appear to represent the earliest sulphide mineralization of the general mine area. The Bureau of Mines report notes

"that there are other large pyrite veins in the district. It may be possible that other copper ore deposits, as yet undiscovered, may be associated with these pyrite veins as are the copper deposits at Blue Ledge." The writer additionally notes that all of these were discovered and prospected via rudimentary (although intelligently applied) exploration methods, long before the introduction of geochemical and geophysical techniques. With the available modern facilities these, as well as hidden extensions of the Blue Ledge zone itself, could be explored rapidly and economically.

The Blue Ledge orebody evidently rakes flatly northward. The majority of drag-folds observed within the mine openings rake flatly southward. The writer suggests that this lack of conformity between the rake of the ore zone and those of the minor controlling structures may be explained by inferring a progressive change in the direction of the causal displacements. Possibly, the initial intra-formational displacement was directed along a steeply southward-pitching line; this could have been followed by later movements, operating during and after the ore-forming period, rotated to a final, steeply north-pitching direction - in conformity with the observed drag-fold attitudes.

The general pattern of minor drag-folding, overturned down-dip and with near-horizontal axial directions, considered conjunctively with the preponderantly steeply west-dipping slaty cleavage in the carbonaceous schists, suggests that the mine is situated within the over-turned limb of a deep, westerly-dipping isoclinal fold. If such is the case, it is highly probable that the favourable, controlling mine-panel folding, and the associated sulphide replacements, will persist to depths considerably below No. 2 level. It would also be reasonable to assume that similar, favourable structural situations should occur, laterally and at depth, within the mine area and at remoter parts of the Blue Ledge Zone.

Although the main orebodies bottom closely above No. 4 level, the No. 2 drift, winzes, and diamond drill holes have delimited another significant, but narrow lens of good-grade copper-zinc mineralization. To date this has been only lightly explored. This in itself, comprises one important exploration target with substantial ore potential.

Other ore sections, or potential ore sections which, to date, have been very cursorily tested include:

a) Extensions of the main zone above, and southward of the No. 10 level.

b) Extensions above, and southward of the inferred ore block locating from No. 22 south drift.

c) The major local target, which comprises completely unexplored, potentially ore-bearing parts of the mine structure lying below the general No. 2 sub-level horizon.

The Blue Ledge mineralization has been reasonably well delimited for a distance of some 800 feet north of No. 4 portal, at which point it has been exposed by two short adits at the 4400-foot elevation. Locally, a 50 by 5 foot section of gossan, with spotty azurite-malachite stain has been exposed. There is no readily evident geological reason for assuming that the zone does not extend still farther to the north. Southward, mineralization has been traced as far as the transverse fault, parallel to, and 700 feet south of the fault (10-22) cutting No. 22 drift at section N-5; with this, there is minimum 300-foot strike length of a known ore-bearing section of the structure open for further exploration on the No. 22 horizon. As the pyrite zone is known, from surface exposures, to continue southward of the above-noted south fault this extension comprises relatively virgin prospecting ground. The mineralogy of this extension and other intervals of the structure are such that potential ore zones should be quite detectable via geochemical-geophysical exploration techniques.

SAMPLING & MINERALOGY

Drawings No's 2 and 3 supplement this report section; on them the writer has endeavoured to record all available relevant and authoritative data.

The general mine file made available to the writer contained a fairly complete record of sampling undertaken throughout the working history of the property. Unfortunately, as original location

plans or sketches were frequently missing, not all of the data could be plotted; that which was referenced to identifiable underground locations was compiled on the current plan, and included in the writer's ore calculations. The Bureau of Mines' file contained detailed assay plans for all levels except No's 1 and 8 - the most important, by reason of their position and extent. However, it was possible, although time-consuming, to record the A.S. & R. assay data via a transfer from an available, smaller-scale 'Assay Section' (U.S.B.M.)

The Bureau's assay plans included the earlier, most comprehensive A.S. & R. record in which all mineralization exposed through the mine levels was sampled at about 10-foot intervals; they also include complete details of their own check-sampling, which was done at approximately 50-foot intervals (check procedure) within all accessible (1943-44) workings. The writer has compiled all plottable data on his current plan.

Nineteen samples, including 2 within an accessible small stope above the level (1-13 and 1-14), were cut at selected points on No. 1 level during the recent examination - the purpose of which was to obtain first-hand information concerning mineralogical and physical features of ore, and to secure personal checks on earlier sampling. Additionally, composites of these provided the material for lead (Pb) assays, spectrographic semi-quantitative determinations of minor ore constituents, and a specific gravity test.

Most of the earlier samples, prior to those taken by the Bureau, and including the A.S. & R. work, were assayed for copper only; however, several which were taken during the periods of active development provided assays for copper and zinc, or for gold, silver, copper, zinc, iron, and silica - the latter being of interest during the years when crude ore was shipped directly to the smelter. The Bureau of Mines' (and the writer's) sampling gives gold, silver, copper, and zinc contents; these permitted approximate estimates - based on evident copper-precious metal ratios - of the probable gold and silver content within combined groups of earlier assays.

The writer's sampling is summarized below; all were taken on, or near No. 1 Level (plan), with five of these being on the footwall vein:

ASSAYS

Sample No: Tag	Mine	True Width, Ft.	Au oz/ton	Ag oz/ton	Cu %	Zn %	Description of Sample	Composite Pb%
6037	1-9	5.2	0.06	2.8	4.98	5.89	msv. mixed sulph.	
6038	1-8	4.0	0.14	1.4	1.65	6.14	" " "	0.20
6039	1-7	2.4	0.06	2.4	5.08	6.84	" " "	
6040	1-6	3.0	0.10	3.6	5.02	9.41	" " "	
6041	1-5	3.5	trace	0.8	2.20	3.22	schist & sulph.	
6042	1-4	3.5	"	2.0	3.51	7.49	" "	0.25
6043	1-3	3.5	0.02	1.2	4.36	7.49	msv. mixed sulph.	
6044	1-1	4.0	0.02	1.7	1.98	1.71	msv. mostly Fe "	
6045	1-2	4.0	0.14	2.8	2.36	0.80	" " "	
6046	1-10	4.0	0.15	3.8	3.75	8.65	msv. mixed sulph.	0.29
6047	1-11	5.6	0.17	3.7	3.75	8.60	" " "	
6048	1-12	5.0	0.22	4.4	4.11	8.55	" " "	
6049	1-13	1.7	0.02	1.5	2.63	7.09	" " "	
6050	1-14	4.0	0.03	3.4	5.65	7.55	" " "	0.20
6051	1-15	2.5	0.02	2.1	4.32	6.09	schist & sulph.	
6052	1-16	2.5	0.08	3.9	3.38	9.41	msv. -gran. sulph	
6053	1-17	2.4	0.06	2.8	3.38	4.65	msv. mixed sulph.	
6054	1-18	3.0	0.06	3.8	1.65	6.14	msv. mostly Fe "	0.25
6055	1-19	2.4	0.02	3.1	3.62	6.34	msv. mixed sulph.	
Arith.	Avg.	3.5	0.072	2.7	3.55	6.4		0.24

As the above do not form a systematic sequence over any given length of vein, a weighted average would not be indicative; hence, is not given. However, an association of higher gold-silver content within wider (folded) vein sections is noted; otherwise there is no apparent tendency for gold-silver values to vary proportionately with either the copper or zinc - although former tests have shown that gold and silver occur with the copper minerals.

Spectrographic determinations of significant minor metals within the ore are given for each of the following composite samples, %/weight.

Sample	Sb	As	Ba	Cd	Co	Mo	Ni	Ti	W
6037-40	N. D.	N. D.	1.0	0.1	N. D.	0.03	0.005	0.1	N. D.
6041-44	"	"	0.7	0.1	"	0.02	0.007	0.3	"
6045-48	"	"	0.7	0.1	"	0.01	0.005	0.1	"
6049-52	"	"	1.0	0.1	0.001	0.02	0.005	0.3	"
6053-55	0.05	"	1.0	0.1	0.001	0.02	0.005	0.3	"

N. D. - Not Detected.

The general absence of antimony and arsenic is a metallurgically-favourable feature of the ore. Also the presence of about 0.1% cadmium would enhance the value of the zinc content - occurring in an amount of about 1.6% of the latter metal; i.e., an average ore with 6.4% zinc carries 0.1%, or 2 lbs. of cadmium per ton. A 50%-Zn concentrate may contain about 16 lbs. of cadmium - a significant addition in value.

Finally a laboratory determination of the specific gravity of a composite of the writer's 19 samples gave a result of 3.902 = 243.5 lbs./cu. ft, this provides an equivalent ratio of 8.22 cu. ft. per ton. Hence, the figure of 8.5 cu. ft. per ton, as used in several former ore estimates, will apply to vein material consisting of massive sulphide, with up to 10 percent included schistose waste.

ORE RESERVE ESTIMATES

Report drawings No's 2 and 3 contain the basic data for the writer's calculations; drawing No. 4 is a graphic illustration of the projected areas, or 'ore blocks' described in the following text.

In computing block areas (i.e., H-1, F-1, etc.) the writer has embodied conservative estimates of the relevant, actual slope-lengths via reference to the cross-section sets at hand. Ore blocks on the hangingwall vein are designated H-1, H-2, etc.; those on the footwall - F-1, F-2, etc.

The writer's ore reserve estimates follow: these are classified on the basis of the established restrictions defining continuity in tabular orebodies, and are in general accordance with the formal classifications defined by the British Columbia Securities Commission:

ORE-IN-PLACE

	Total Short Tons	Ore Width	Gold oz/ton	Silver oz/ton	Copper %	Zinc %
A. Developed Ore:						
	59,000	5.2	0.059	2.38	4.41	4.3
B. Indicated Ore:						
	77,400	4.92	0.067	2.22	3.96	4.75
A & B,	136,400	5.0	0.062	2.25	4.08	4.5
C. Inferred Ore:						
	48,400	3.68	0.045	2.7	3.7	4.8
TOTAL, In-Place, All Classes:						
	184,800	4.6	0.058	2.36	3.97	4.6
BROKEN; IN STOPES & ON DUMPS						
	42,000	-	0.039	1.25	1.42	1.17
GROSS; In-Place & Broken:						
	226,000 tons @		0.05	2.16	3.5	3.95

BUREAU OF MINES ESTIMATE : TOTAL UNDERGROUND ALL CLASSES

Total Short Tons	Ore Width	Gold oz/ton	Silver oz/ton	Copper %	Zinc %
135,190	5.0	0.041	2.15	3.64	4.36

NEWMONT ESTIMATE : TOTAL UNDERGROUND, ALL CLASSES:

232,000	5.9	0.037	1.86	3.05	3.64

The Bureau of Mines classifies only 11,900 tons of the total reserve as 'measured' ore; all of the balance is designated as 'indicated' ore. Their relatively low total tonnage estimate most evidently stems from the Bureaus' caution in respect to inferred extensions.

The Newmont estimate of total underground ore exceeds both the writer's and the Bureaus' in total tonnage. This is essentially due to the fact that larger assay widths (5.9'average) have been incorporated. Within the estimated total, a significantly large proportion has been (loosely) designated as 'proven' ore. The 150,000 tons relegated to the 'proven' category would actually include a large proportion of 'indicated' ore and some 'inferred' ore. In addition, the 40,000 ton block basing on No. 22 level, and classified as probable ore is probably, in the estimator's mind, synonymous with 'possible' ore. The listing of a supplementary block of 'non-economic ore,' with respect to a supplementary block of evidently sub-marginal mineralization below No. 2 level, appears redundant.

The Newmont ore reserve estimate, in total, appears to be realistic; however, the particular classification of ore blocks is technically inaccurate, and certainly would not be acceptable to the British Columbia Securities Commission.

The writer would anticipate some over-break in the realization of a stoping performance that would provide a satisfactory degree of productivity with an acceptable reduction of grade. An over-break of 1 foot is assumed on the average of 5-foot ore width computed for the total of A and B above. Using a figure of 8.5 and 12.0 cu. ft. per ton for ore and waste, respectively, and assuming a content of 0.25 percent copper in average wall-rock, the writer estimates the practicable mining width at:

6.0' @ Au, 0.052 oz/ton; Ag, 1.9 oz/ton; Cu, 3.45%; Zn, 3.44%

The resulting average volume factor = 9 cu. ft/ton approx. The net dilution would be 6/5 x 8.5/9 - 1 = 0.14, or 14%. Following this, mechanical sorting and elimination of the waste fraction within run-of-the-mine ore will probably obtain the lowest unit mining-milling costs.

Within the vicinity of the developed orebody there are good possibilities of proving additional ore within 'open' extensions of the zone from No's 8 and 10 levels to the surface, and in the large, undeveloped potential area above, and to the south of No. 22 south drift.

Past exploration on, and below No. 2 Level has partly outlined one or more substantially mineralized, but currently sub-marginal sulphide lenses between elevations 4200-4500 ft. The few intercepts made may, or may not be on the fatter parts of a single, or separate bodies; however, it does appear that the mineralization comprises a distinctly separate zone which is structurally and mineralogically similar to the main ore lens. Hence, the lateral, and dip continuations of the mineralization present a large, relatively accessible exploration target.

The general mine structure and mineralization have been tentatively traced over a 3000-foot strike length. Within this interval dip-lengths range from 500 to approximately 2000 feet - the latter from the crest of the mine spur. This extensive vein area would be opened for exploration by a new low-level adit from the 4000-foot elevation on Joe Creek. Surface observations suggest that the requisite conditions of folding will persist through this vertical range. To date, about 25 percent of the local, potential mine section has been explored, in more-or-less detail, by the existing mine workings.

The Blue Ledge zone is believed to be generally continuous over the 4.4 mile property length; beyond the mine area most of this has been very superficially prospected. In addition, the full cross-section of the favourable feldspathic schist unit, including the hangingwall pyrite zone, has not been significantly explored underground, or on the surface. Within this general section there is a reasonable possibility that other, possibly 'blind' sulphide replacements occur. Exploration for such possible mineralization would be done most efficiently via a program incorporating applicable geochemical and geophysical surveys.

PRELIMINARY METALLURGY

A report, dated June 16, 1956 by Wright Engineers Limited describes seven flotation tests run on Blue Ledge ore. In summarizing, it notes that further testing should be carried out on freshly broken ore to arrive at the best and most economic reagent balance-stating that the amount of reagents used in both the Bureau of Mines' tests and these tests appears to be excessive, but may have been necessary due to the complexity (and oxidation?) of the ore. The report states that it is questionable if the recovery of zinc (or of iron sulphides) would be economic; it notes that one test indicated that some zinc can be recovered.

The probable millrun for a head sample containing, Au, 0.04 oz/ton; Ag, 1.55 oz/ton; Cu, 2.7%; Zn, 5.1%; Fe, 38.1%; S, 16.1% is:

	Product				Distribution %		
	% wt.	Au	Ag	Cu	Au	Ag	Cu
Feed	100	.04	1.55	3.5	100	100	100
Concentrate	14.87	.16	7.05	20.0	60	67	85
Tails	85.13	.02	.58	.61	40	33	15

The above is based on results of test 56, where a concentrate assaying 20.4% Cu, 5.2% Zn, with an 86.9% recovery of copper, was produced.

The author notes, "while testing has been decidedly limited, I consider the above balance to be quite conservative, and think more extensive testing on freshly-broken ore will show improved recovery and grade." He additionally reports that testing has established that fine-grinding (to 90% minus 200 mesh) is essential due to the close association of the copper and zinc sulphides; he supplements this with relevant observations concerning reagents and procedures.

Considerable metallurgical testing was done by the Bureau of Mines. Jigging tests, run on 100% minus 200-mesh material indicated that Cu recoveries of 90-92%, in a bulk Cu-Zn sulphide concentrate, could be obtained; the lower grade (sulphide and schist) test material responded slightly better.

The following are results of two, of several selective flotation tests:

	% Wt.	Assay Cu	Zn	% Fe	Oz/ton Au	Ag	Distribution, % Cu	Zn	Au	Ag
Heads	100.0	3.6	4.5	24.4	.05	2.5	100.0	100.0	100.0	100.0
Cu Con't	12.2	24.5	4.9	29.9	.225	9.6	82.6	13.3	51.9	47.4
Zn Con't	9.1	1.1	28.0	30.2	.04	2.3	2.7	56.8	5.8	8.4

Note: The zinc concentrate was up-graded to 46.8% Zn via magnetic separation of pyrrhotite; the resulting overall zinc recovery was 51 percent.

The following shows the improvement in Cu recovery when a lower grade concentrate is produced:

Heads	100.0	3.6	4.2	24.2	.04	2.2	100.0	100.0	100.0	100.0
Cu Con't	17.4	18.8	4.5	29.9	.178	8.6	89.8	18.4	72.1	68.9
Zn Con't	15.1	1.6	20.2	28.1	.029	2.2	6.5	72.1	11.6	15.7

From the above range of results of the various flotation tests, it appears that further test work on fresh ore will indicate specific procedures for optimum concentrate grade and copper recovery. In this connection, microscopic examination of concentrates showed:

a) The copper concentrate contains grains of sphalerite - most of which contain variously-sized inclusions of chalcopyrite; one-third of the sphalerite grains contain chalcopyrite of a size which could be liberated by grinding to 400-mesh; the balance of the locked chalcopyrite is too fine to be liberated. However, some improvement in the grade of copper concentrate would result.

b) The zinc concentrate contains approximately 50 percent pyrite; of this, one third is visibly locked with sphalerite. The sphalerite contains sufficient minute pyrite inclusions to account for its high iron content without the presence of marmatite.

PRELIMINARY ECONOMICS

The following comprise preliminary estimates of production values and costs. They are essentially based on the following premises: that concentrate grades and metal recoveries assumed in the estimates will be realized as a result of further metallurgical research; that the assumed range of net smelter values per ton of ore will be realized; that a reasonably-assured ore reserve of about 250,000 tons will result from confirmatory development and/or new exploration and development; and that the assumed operational, overhead, plant, and capital costs will be approximately as predicted. It is also assumed that the requisite operational rights and facilities may be acquired.

The detail comprising this section of the report is provided via the "Cost" Estimate for Blue Ledge Property, Medford, Oregon." This was recently prepared by Mr. J.D. Mason, P. Eng., who has investigated the mine economics in detail, and is more familiar with all parameters of the operation than is the writer. The writer has examined all details of this estimate and thinks that it provides a realistic and adequate preliminary appraisal of the profitability of the mine.

COST ESTIMATE FOR BLUE LEDGE PROPERTY, MEDFORD, OREGON

Assumed production rate - 6,250 tons per month

	Total Cost per Month	Cost per Ton Milled
Mining	$37,000 + 10%	$ 6.60
Milling	16,000	2.57
Power	9,400	1.50
General	17,800	2.85
Write-off capital (incl. pre-production) expense on 250,000 tons		2.82
TOTAL COSTS	$80,200	$16,34

Summary of Smelter Return Calculations, Tacoma

Net Smelter return per ton of ore:

Copper Price	Return	Profit per Ton
50¢	$27.54*	$11.20
45¢	24.94*	8.60
40¢	22.54*	6.20

*The above figures each include $5.54 for precious metal and zinc values.

Summary of General Economics

Estimated tonnage reserve, 250,000:
Operating profit after return of capital, but before exploration and taxes:

Copper Price	
50¢	$2,800,000
45¢	2,150,000
40¢	1,500,000

May 7, 1968 (J. D. Mason)

The above are based on an earlier computed average ore grade as follows:

Au, 0.03 oz/ton; Ag, 1.7 oz/ton; Cu, (4% less 20%) 3.2%; Zn, 3.5%

This is generally less than the writer's current estimate of a 6' average ore width, after dilution:

Au, 0.052 oz/ton; Ag, 1.9 oz/ton; Cu, 3.45%, Zn, 3.44%.

Hence, the foregoing calculations are safely based on a slightly lower ore grade which, moreover, does not include a cadmium content of 1 to 2 lbs. per ton of ore.

Respectfully submitted,

W. M. Sharp

W. M. Sharpe, P. Eng.,

PRINCIPAL REFERENCES

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Carnahan, F. W. " " " , June 27, 1909.

" " " " local properties, August 22, 1916.

" " " " on mine, March 28, 1917

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Prescott, Basil, M. E., Ore Reserve Assessment, June 21, 1920.

Hundhausen, R. J. Bureau of Mines (U. S.) report, ..., 1945

Vellet, V. Newmont Exploration Ltd., Report, November 27, 1964.

Mason, J. D. P. Eng., Cost Estimate for Blue Ledge Property, Medford, Oregon, May 7, 1968.

A. I. M. E. Vol.; Ore Deposits of the Western States, circa 1942.

CERTIFICATE

I, W. M. SHARP, of North Vancouver, British Columbia, DO HEREBY CERTIFY THAT:-

1. I am a Consulting Geological Engineer, with residence at 3280 Chesterfield Avenue, and offices at Room 1, 425 Howe Street, Vancouver, British Columbia;

2. I am a registered Professional Engineer in the Province of British Columbia;

3. I am a graduate of the University of British Columbia, with B. A., Sc. & M. A. Sc. degrees in Geological Engineering, and have practiced my profession since 1946;

4. I am not a vendor, member of the Board of Directors, or a regular employee of Jason Explorers Ltd. (N. P. L.)

5. I have no interest, direct or indirect, in the properties or securities of the above company, nor do I expect to have any such interest;

6. All claims have been surveyed and patented, and are situated as shown on maps with this report.

7. This report on the Blue Ledge Mine, Siskiyou County, California is based on a personal examination made in June, 1968 and on previous reports originating from former mine staff, consultants, the Bureau of Mines, and others.

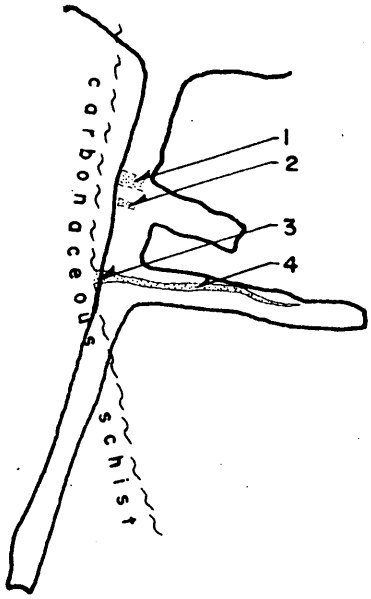
W. M. Sharp

W. M. Sharp, P. Eng.

WMA

ASSAY RESULTS

Sample	Width	Cu.(%)	Ag.(oz./ton)
1	24"	0.28	tr.
2	12"	1.53	1.1
3	24"	3.38	2.0
4	aver. 9"	9.18	3.9



sericitic

schist

Portal elevation 4408'

All samples are chip samples.

Sample no.4 is a composite of the vein.

~~~ Fault

Scale 1" = 40'

BLUE LEDGE COPPER MINES INC.

SKETCH OF NORTHERN CROSSCUT AND DRIFTS
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(4) Accessibility of Property

(a) The O.M.E. representative who may examine the property will be met by a senior engineer from Jason Explorers Ltd., 1170 Bentall Centre, 505 Burrard Street, Vancouver 1, B.C. - telephone 684-2196. The mine can be reached from Medford by following highway #238 to Ruch then by paved road to Copper, an improved forestry road from Copper leads to the mine. Almost all of the old mine workings are accessable.

(b) Medford, Oregon, population 30,000, is the main shipping and supply point. It is 40 miles from the mine.

(5) Exploration Work

(a) The exploration program will consist of some 3,600 feet of crosscutting and drifting, 460 feet of raising, 7,500 feet of drifter-liner drilling and 1,000 feet of diamond drilling. The openings will be carried 6' x 8' and will be excavated using scoot-cretes rather than laying track and traming.

A crosscut will be driven 700' from an accessable point on the 4,000 foot contour line to intersect the projected northern extension of the ore bearing structure on this horizon. Drifting on the zone from outcrop is impractical due to excessive rock work to gain access.

From a point 100 feet to the east of the contact drifts will be advanced as more or less line drives to the north to surface (approximately 680') and to the south under the downward projection of the known ore body for 2,100 feet. The headings will be driven along a line approximately 100 feet from the foot wall side of the ore horizon. The attached page 68 shows the proposed crosscutting and drifting and its relationship to the existing mine workings, projected ore zone and known geological structure.

A raise will be put up a distance of 260 feet to connect with the #1 winze below #2 level. This will provide ventilation as well as explore the intervening ground. See longitudinal sketch, page 69.

An additional 120 feet of crosscutting and 200' of raising is allowed for in the cost estimate to permit further exploration of any ore shoots located by drilling.

A series of four holes will be fanned out to cut the ore zone from each setup, 200' apart along the drift. A heavy drifter-liner will be used for this phase of the program. Sludges will be caught, logged and assayed at regular intervals. Approximately 50 holes averaging 150 feet per hole will be drilled.

At least three diamond drill holes will be drilled to intersect higher on the zone for structural control. See longitudinal section, page 69.

(b) Only a few hundred feet of road construction is necessary from the existing forestry road. A log bridge across Joe Creek is allowed for in the estimate under site preparation.

(c) Work would commence within four weeks after an O.M.E. contract is executed. It would be on a three-shift basis and advance should average 18' per day or better. The entire job should be finished within eight months.

(6) Experience

Jason Explorers Ltd. is a mining exploration company which has been undertaking exploration work in Canada for the past two years. Mr. Alex. Smith, the engineer who will be in direct charge of the job, has had over ten years exploration experience including a number of years of underground experience. J.D. Mason, the President of Jason Explorers Ltd., is a professional mining geologist who has had over 25 years of experience in mining exploration and development of which six years were in the southwestern United States. The actual mining will be contracted out to experienced miners probably on a cost plus basis.

(7) Estimate of Costs

Crosscutting and drifting	- 3,600'	330,013.00
Raising	- 460'	41,444.00
Drifter-liner drilling	- 7,500'	25,834.00
Diamond drilling	- 1,000'	6,000.00
		$403,291.00

Crosscutting and Drifting

(a) Independent Contracts

Crosscutting and drifting will probably be done by an independent contractor on a cost plus 7% for overhead and 10% for profit. The operating costs are included in categories (b) through (g) and overhead and profit charges are included in category (g) - Miscellaneous Items. Those items not supplied by the contractor and therefore not included in the profit and overhead calculations are marked by an asterisk (*).

(b) Personal Services

	Rate per Day	No. of Days	Total
1 Shift Boss miner	55.00	200	11,000.00
2 Lead miners	100.00	200	20,000.00
3 Miners	135.00	200	27,000.00
1 Mechanic	45.00	200	9,000.00
1 Surface labourer	25.00	200	5,000.00
3 Underground labourers	75.00	200	15,000.00
1 Time-keeper, first-aid, purchasing	25.00	200	5,000.00
*1 Surveyor	40.00	200	8,000.00
*1 Surveyor's helper	25.00	200	5,000.00
*1 Field engineer (supervisor)	40.00	200	8,000.00
*1 Consultant	125.00	25	3,125.00
		Category (b) Total	$116,125.00

The contractor will supply shift boss and miners, Jason Explorers will supply surveyor, engineer and consulting services. Other labour is available in Medford.

(c) Operating Materials and Supplies

	Unit	Cost per Unit	No. of Units	Total
Electric power	day	4.00	200	800.00
Diesel fuel	gal.	0.20	60,000	12,000.00
Gasoline	gal.	0.40	1,800	720.00
Grease & lubrication	lb.	0.75	2,800	2,100.00
Powder caps, etc.	ft.	6.40	3,600	23,040.00
Steel, bits, etc.	ft.	8.00	3,600	28,800.00
Galvanometer	ea.	40.00	1	40.00
6" air line	ft.	2.00	4,000	8,000.00
2" water line	ft.	0.75	4,000	3,000.00
6" valve	ea.	50.00	4	200.00
2" valve	ea.	10.00	4	40.00
3" bullhose	ft.	4.00	100	400.00
2" bullhose	ft.	1.75	200	350.00
1" air line hose	ft.	1.00	200	200.00
½" water line hose	ft.	0.65	200	130.00
4" jaw vice	ea.	25.00	1	25.00
18" air duct c/w couplers	ft.	0.50	4,000	2,000.00
Scaling bars	ea.	10.00	10	100.00
#4 sinking spades	ea.	5.00	15	75.00
Rail	ft.	0.50	300	150.00
#9 wire	lb.	0.10	1,000	100.00
Hammer, saw, etc.	ea.	10.00	20	200.00
Tanner gas	gal.	2.00	125	250.00
			Category (c) Total	$82,720.00

(d) Operating Equipment

Rentals	Rent per Month	No. of Months	Total
1 - 900 CFM Compressor	1,200.00	7	8,400.00
4 - AL 60 Jack Legs	500.00	7	3,500.00
1 - bit grinder	40.00	7	280.00
1 - LM 56 Mucker	900.00	7	6,300.00
2 - D70 Scoot Cretes	900.00	7	6,300.00
1 - 16" air fan	50.00	7	350.00
12 - Lamps c/w charger	60.00	7	420.00
1 - 10 K.W. Generator welder	250.00	7	1,750.00
1 - Power saw	35.00	7	245.00
1 - 2" x 2" duplex pump	50.00	7	350.00
1 - Tugger hoist	100.00	7	700.00
1 - Crew cab truck	200.00	7	1,400.00
*3 - trailers	600.00	7	4,200.00
*1 - Theodilide	75.00	7	525.00
1 - D8 Caterpillar	40 hours at $30.00 per hour		1,200.00
		Rentals - subtotal	35,920.00

Purchases	
1 - Blasting machine	110.00
1 - 500 gallon water receiver	500.00
1 - 500 CF air receiver	500.00
1 - Ana loader	125.00
1 - Tanner tank	100.00
1 - First-aid kit and stretcher	150.00
1 - Act. - Oxygen welding unit	200.00
subtotal	1,685.00

Category (d) Total $37,605.00

(e) Initial Rehabilitation and Repairs — Nil

(f) Construction of New Buildings, etc.

(i) machine shop - compressor house		
Supplies (lumber, nails, etc.)	2,000.00	
Labour, including supervisor	1,200.00	
		3,200.00
(ii) Office and dry		
Supplies	1,000.00	
Labour	1,000.00	
		2,000.00
(iii) Warehouse and storage		
Supplies	300.00	
Labour	200.00	
		500.00
(iv) Mechanical and electrical hook-up		
Labour	1,000.00	1,000.00
(v) Site preparation		
Bridge, collar, portal sets, dump bar, installation of water and air lines, construct surface water reservoir, etc.	3,500.00	3,500.00
	Category (f) Total	$10,200.00

(g) Miscellaneous

Repairs:		
1,500 lbs. assorted steel	500.00	
Spare parts for drills, scoot cretes, etc.	1,500.00	2,000.00
Fringe benefits - company portion:		
* board loss - 10 men @ $4.00 per day for 210 days		8,400.00
Total labour costs are category (b)	116,125.00	
plus labour in (f)	6,900.00	
	123,025.00	
Compensation - 10% of total labour		12,303.00
Social Security - 4.4% of total labour		5,413.00
Unemployment Insurance - 3.1% of total labour		3,814.00
Medical and Hospital Insurance - 1.2% of total labour		1,476.00

(g) cont'd. ....

Freight of supplies and equipment from supplier location to site	1,500.00
*Communications	500.00
*Accounting @ $500.00 per month	3,500.00
Mobilization and demobilization of crew	2,500.00
Profit and overhead charges to independent contractor: 17% of total cost not including portion marked by an asterisk .....17% of 246,806.00	41,957.00
Category (g) Total	$83,363.00

Grand Total for Crosscutting and Drifting

Category (a)	nil	
Category (b)	116,125.00	
Category (c)	82,720.00	
Category (d)	37,605.00	
Category (e)	nil	
Category (f)	10,200.00	
Category (g)	83,363.00	
		$330,013.00

Raising

(a) Independent Contracts

Raising will probably be done by an independent contractor on a cost plus contract as in the crosscutting and drifting. See crosscutting and drifting for explanation.

(b) Personal Services

	Rate per Day	No. of Days	Total
1 Shift boss miner	55.00	26	1,430.00
2 Lead miners	100.00	26	2,600.00
3 Miners	135.00	26	3,510.00
1 Mechanic	45.00	26	1,170.00
1 Surface Labourer	25.00	26	650.00
3 Underground labourers	75.00	26	1,950.00
1 Time-keeper, first-aid & purchasing	25.00	26	650.00
*1 Surveyor	40.00	26	1,040.00
*1 Surveyor's helper	25.00	26	650.00
*1 Field engineer (supervision)	40.00	26	1,040.00
*1 Consultant	125.00	3	375.00
		Category (b) Total	$15,065.00

The contractor will supply shift boss and miners, Jason Explorers Ltd. will supply surveyor, engineer and consultant services. Other labour is available in Medford.

(c) Operating Materials and Supplies

	Unit	Cost per Unit	No. of Units	Total
Electric power	day	4.00	30	120.00
Diesel fuel	gal.	0.20	10,000	2,000.00
Gasoline	gal.	0.40	200	80.00
Grease and lubrication	lb.	0.75	300	225.00
Powder, caps, etc.	ft.	6.40	460	2,944.00
Steel, bits, etc.	ft.	8.00	460	3,680.00
6" air line	ft.	2.00	500	1,000.00
2" water line	ft.	0.75	500	375.00
1" air hose	ft.	1.00	100	100.00
½" water line hose	ft.	0.65	100	65.00
18" air duct c/w couplers	ft.	0.50	500	250.00
Scaling bars	ea.	10.00	5	50.00
#9 wire	lb.	0.10	500	50.00
Tanner gas	gal.	2.00	25	50.00
			Category (c) Total	$10,989.00

(d) Operating Equipment

Rentals	Rent per Month	No. of Months	Total
1 - 900 CFM Compressor	1,200.00	1	1,200.00
4 - AL 60 Jack Legs	500.00	1	500.00
1 - Bit Grinder	40.00	1	40.00
1 - LM 56 Mucker	900.00	1	900.00
2 - D70 Scoot Cretes	900.00	1	900.00
1 - 16" air fan	50.00	1	50.00
12 - Lamps c/w charger	60.00	1	60.00
1 - 10 K.W. Generator Welder	250.00	1	250.00
1 - Power saw	35.00	1	35.00
1 - 2" x 2" duplex pump	50.00	1	50.00
1 - Tugger hoist	100.00	1	100.00
1 - Crew cab truck	200.00	1	200.00
3 - Trailers	600.00	1	600.00
*1 - Theodilide	75.00	1	75.00
		Category (d) Total	$4,960.00

(e) Initial Rehabilitation and Repairs — Nil

(f) Construction of New Buildings, etc.

All construction is included in estimate for crosscutting and drifting.

(g) Miscellaneous

Repairs:	
500 lbs. assorted steel	100.00
Spare parts for drills, scoot cretes, etc.	500.00
Fringe benefits - company portion:	
* board loss for 10 men @ $4.00 per day	1,200.00
Total labour costs are category (b) - $15,065.00	
Compensation - 10% of total labour	1,506.00
Social Security - 4.4% of total labour	663.00
Unemployment Insurance - 3.1% of total labour	467.00
Medical and hospital insurance - 1.2% of total labour	181.00
*Accounting - 1 month @ $500.00 per month	500.00
Profit and overhead charges to independent contractor - 17% of total cost not including portion marked by asterisk. 17% of $31,251.00	5,313.00
Category (g) Total	$10,430.00

Grand Total

Category (a)	nil
Category (b)	15,065.00
Category (c)	10,989.00
Category (d)	4,960.00
Category (e)	nil
Category (f)	nil
Category (g)	10,430.00
	$41,444.00

Drifter-liner Drilling

(a) Independent Contractors

This drilling will be on the same contract as crosscutting and drifting.

(b) Personal Services

	Rate per Day	No. of Days	Total
1 driller	50.00	150	7,500.00
*1 consultant	125.00	4	500.00
		Category (b) Total	$8,000.00

The driller will be supplied by the contractor, Jason Explorers will supply the consulting.

(c) Operating Materials and Supplies

	Unit	Cost per Unit	No. of Units	Total
Diesel fuel	gal.	0.20	5,000	1,000.00
Grease & lubrication	lb.	0.75	400	300.00
Bits	ft.	0.65	7,500	4,870.00
			Category (c) Total	$6,170.00

(d) Operating Equipment

Rentals	Rent per Month	No. of Months	Total
1 heavy duty drifter-liner	400.00	5	2,000.00
		Category (d) Total	$2,000.00

(e) Initial Rehabilitation and Repair

Nil

(f) Construct New Buildings, etc.

Nil

(g) Miscellaneous

Repairs:	nil
Fringe Benefits - company portion:	
*Board loss - 1 man @ $4.00 per day for 150 days	450.00
Total labour costs are category (b) - $8,000.00	
Compensation 10% of total labour	800.00
Social Security 4.4% of total labour	352.00
Unemployment Insurance 3.1% of total labour	248.00
Medical and hospital insurance 1.2% of total labour	96.00
* Assaying - 12 samples per hole - 600 samples @ $8.00	4,800.00
Profit and overhead charges to independent contractor, 17% of total cost not including portion marked by an asterisk .....17% of $17,166.00	2,918.00
Category (g) Total	$9,664.00

Grand Total for Drifter-liner Drilling

Category (a)	nil
Category (b)	8,000.00
Category (c)	6,170.00
Category (d)	2,000.00
Category (e)	nil
Category (f)	nil
Category (g)	9,664.00
	$25,834.00

Diamond Drilling

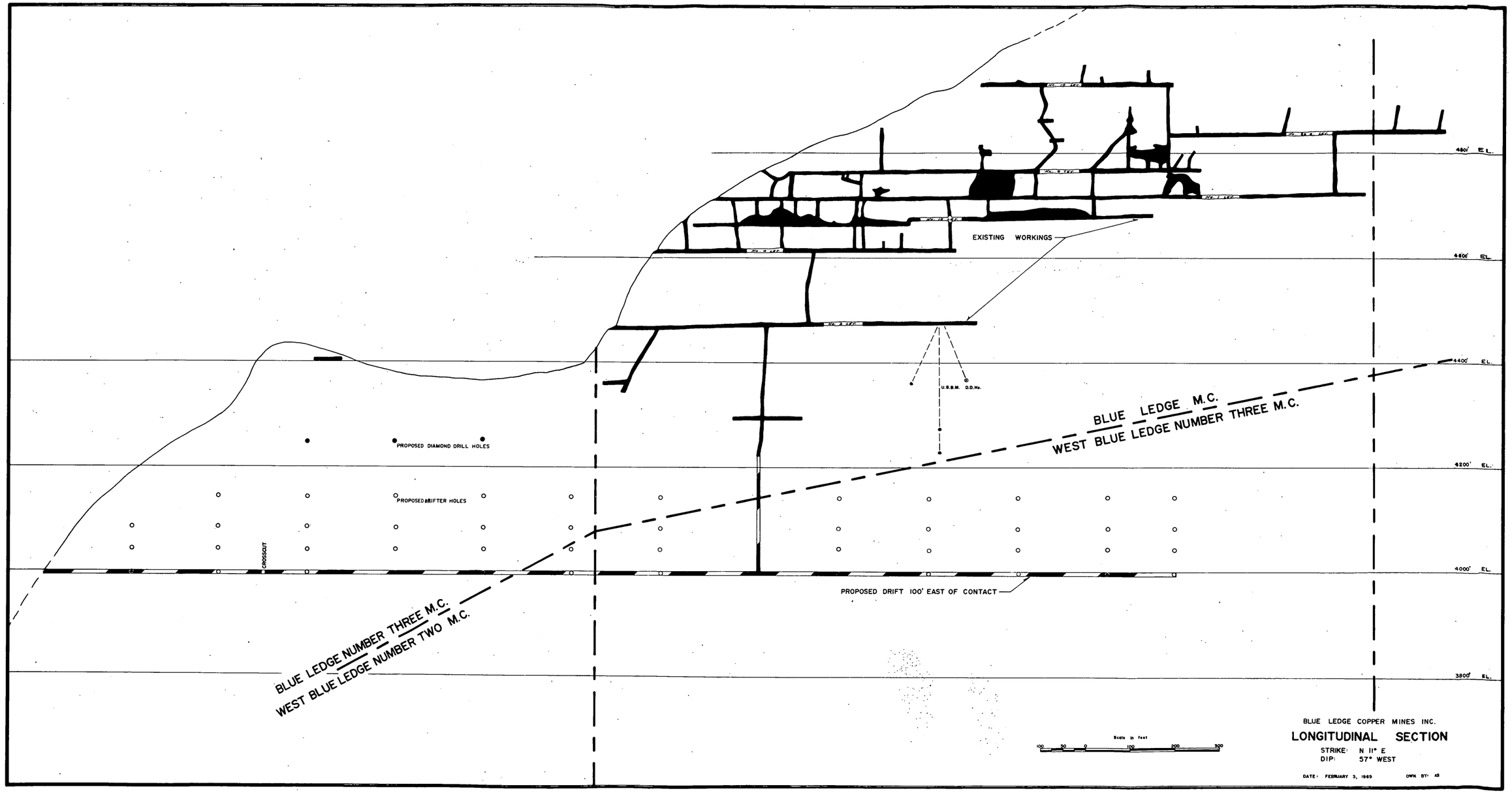
(a) Independent Contractors

Diamond drilling will be conducted by an independent contractor. The cost is estimated to be $6.00 per foot.

1,000' of diamond drilling @ $6.00 per foot	6,000.00
(b) Personal Services	nil
(c) Operating Materials and Supplies	nil
(d) Operating Equipment	nil
(e) Initial Rehabilitation	nil
(f) New Buildings	nil
(g) Miscellaneous	nil
Grand Total	$6,000.00

ESTIMATE OF COSTS - SCHEDULE II

	Crosscutting & Drifting		Raising		Drifter-liner Drilling		Diamond Drilling		Total
Footage	3,600		460		7,500		1,000		
	Cost	Cost per Foot	Cost	Cost per Foot	Cost	Cost per Foot	Cost	Cost per Foot	
Category (a)	nil	-	nil	-	nil	-	6,000.00	6.00	6,000.00
Category (b)	116,125.00	32.26	15,065.00	32.75	8,000.00	1.06	nil	-	139,190.00
Category (c)	82,720.00	22.98	10,989.00	23.89	6,170.00	0.82	nil	-	99,879.00
Category (d)	37,605.00	10.44	4,960.00	10.78	2,000.00	0.27	nil	-	44,565.00
Category (e)	nil	-	nil	-	nil	-	nil	-	nil
Category (f)	10,200.00	2.83	nil	-	nil	-	nil	-	10,200.00
Category (g)	83,363.00	23.16	10,430.00	22.68	9,664.00	1.29	nil	-	103,457.00
TOTAL	330,013.00	91.61	41,444.00	90.10	25,834.00	3.44	6,000.00	6.00	403,291.00


4800' EL.
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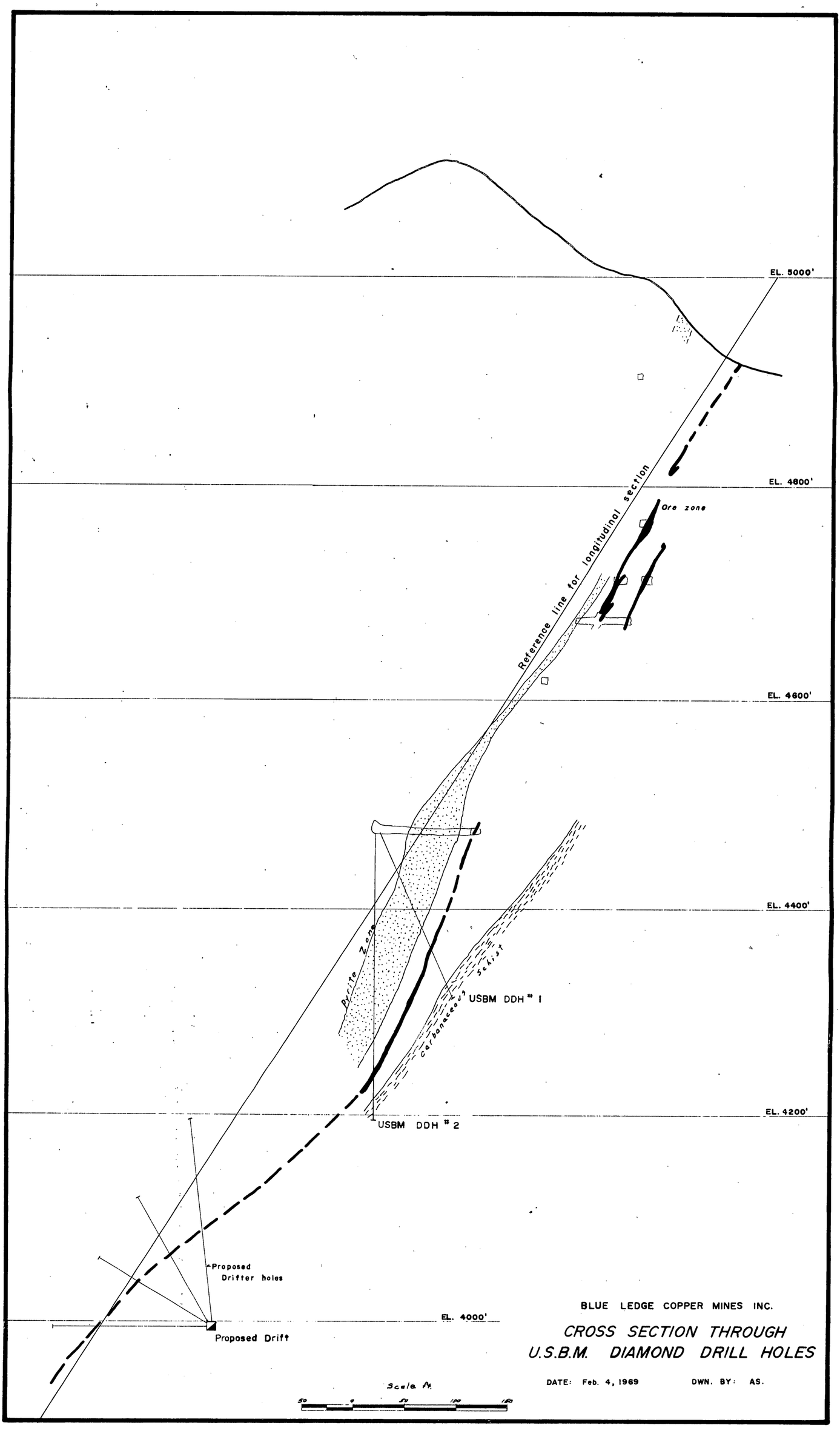
4200' EL.
4000' EL.
3800' EL.
EXISTING WORKINGS
U.S.B.M. D.D.Hs.
BLUE LEDGE M.C.
WEST BLUE LEDGE NUMBER THREE M.C.
PROPOSED DIAMOND DRILL HOLES
PROPOSED DRIFTER HOLES
CROSSCUT
PROPOSED DRIFT 100' EAST OF CONTACT
BLUE LEDGE NUMBER THREE M.C.
WEST BLUE LEDGE NUMBER TWO M.C.
Scale in feet
100 50 0 100 200 300
BLUE LEDGE COPPER MINES INC.
LONGITUDINAL SECTION
STRIKE: N 11° E
DIP: 57° WEST
DATE: FEBRUARY 3, 1969
DWN. BY: AS


EL. 5000'
EL. 4800'
EL. 4600'
EL. 4400'
EL. 4200'
EL. 4000'
Reference line for longitudinal section
Ore zone
Pyrite Zone
Carbonaceous schist
USBM DDH # 1
USBM DDH # 2
Proposed Drifter holes
Proposed Drift
Scale Ft.
50 0 50 100 150
BLUE LEDGE COPPER MINES INC.
CROSS SECTION THROUGH
U.S.B.M. DIAMOND DRILL HOLES
DATE: Feb. 4, 1969
DWN. BY: AS.

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OFFICIAL FILE COPY

Date	Surname	Code
3/17/71	Emerick	120
		120
		220
		120M

AIRMAIL

MAR 17 1971

Mr. Walter L. Brewer
Vice-President and Managing Director
Jason Explorers Ltd. (N.P.L.)
775-555 Burrard Street
Vancouver 1, British Columbia, Canada

Re: OME-6777 (Copper)
Jason Explorers Ltd. (N.P.L.)
Blue Ledge Mine
Siskiyou County, California

Dear Mr. Brewer:

We must assume, since we heard from you last on November 17, 1970 and since the property has been optioned to another company, that you are no longer interested in proceeding with your application for financial assistance to explore the Blue Ledge Mine. Therefore, we shall consider the application as having been withdrawn and place it in our inactive file.

Should the new operator desire to apply for OME assistance in exploring the property, it would be necessary for them to file a new application and new bank letters.

Sincerely yours,

Harold Kirkemo
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Mineral Resources File
OME Docket
OME Reading File
OME Region II
Mr. Emerick
130

LEmerick/bsl 3/17/71

ME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
11/25/70	Emerick	120
11/25	cac	220
		120N

AIRMAIL

NOV 25 1970

Mr. Walter L. Brewer
Vice-President and Managing Director
Jason Explorers Ltd. (N.P.L.)
775-555 Burrard Street
Vancouver 1, British Columbia, Canada

Re: OME-6777 (Copper)
Jason Explorers Ltd. (N.P.L.)
Blue Ledge Mine
Siskiyou County, California

Dear Mr. Brewer:

Thank you for your letter of November 17, 1970, suggesting an "irrevocable letter of credit" in lieu of a performance bond for the proposed contract to explore the Blue Ledge mine.

We understand that Mr. H. K. Stager, Field Officer, OME Region II, has discussed this suggestion with you. He mentioned that in the event a certification of possible production is issued upon completion of a project, a letter of credit must continue in effect for the period of the royalty obligation, usually ten years from date of contract, and in the amount contributed by the Government for work completed on the contract. We understand that you would not wish to commit funds for such an extended period of time, and instead will investigate soon the availability of a performance bond from a bonding company in the United States. In view of this decision, we have not requested a legal opinion on the acceptability by the Government of an irrevocable letter of credit for the proposed contract.

You state that there is no rush to resolve the question regarding a performance bond because work at the property would not be undertaken until early spring. We suggest that you not delay in arranging for a performance bond because first priority on our limited funds is given to approved applications. Other applications under consideration may be approved soon and executed as contracts which would reduce the amount of funds available.

A contract specifies that the Operator shall begin the work on or before a certain date following execution of the contract. As your project area may be inaccessible during the winter, the date for the start of work

could be set for later in the winter or early in the spring on a contract executed in December for example.

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 II w/ cps two letters
Mr. Kirkemo

HKirkemo/gla 11-25-70

Jason

JASON EXPLORERS LTD. *775–555 Burrard Street, Vancouver 1, British Columbia (604) 684-2196*

November 17, 1970

6777

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1130
Gal 1120
1120

United States Department of the Interior
Geological Survey
Washington, D. C. 20242

Attention: Mr. H. Kirkemo

Dear Mr. Kirkemo,

In reply to your letter of 5 November 1970, we are pursuing the issue of performance bonds and find that due to the short term of the proposed program and the indefinite commencement date (due to weather), we might be well advised to lodge a specified amount, say $20,000, with our bankers in the form of an "irrevocable letter of credit" in your favor. I enclose an example of one we recently used with the Province of Saskatchewan. We also use these with the Government of Canada.

There is no rush, since the program will be undertaken in about March if all goes well, but I would appreciate your opinion on this approach.

Very truly yours

JASON EXPLORERS LTD. (N.P.L.)

Walter L. Brewer

Walter L. Brewer
Vice-President and Managing Director

WLB/mj

Enclosure

FORM 2136

THE ROYAL BANK OF CANADA

685 West Hastings
VANCOUVER 2, B. C.

July 31, 1969

VLF/eh

The Government of the Province of Saskatchewan,
Dept. of Mineral Resources,
Government Administration Building,
Regina, Saskatchewan

Dear Sirs: OUR LETTER OF CREDIT NO. 7504
Re: Ranger Permit No. 1 issued by the Dept. of Mineral Resources under The Mineral Disposition Regulations, 1961:

We hereby establish an Irrevocable Letter of Credit in your favour for account of Jason Explorers Limited (N.P.L.) up to an aggregate amount of twenty-five thousand Canadian Dollars (C$25,000.00), available by your demand drafts on The Royal Bank of Canada, 685 West Hastings Street, Vancouver 2, B.C.

Drafts drawn under this Credit must refer to our Letter of Credit # 7504 dated July 31st, 1969 in connection with Ranger Permit No. 1.

We hereby covenant with the drawers, endorsers and bona fide holders of drafts drawn under and in accordance with the terms of this Credit that the same shall be duly honoured if drawn and negotiated before June 6, 1972.

Yours truly,

ORIGINAL SIGNED BY
J. C. BENMORE

J. C. Benmore, Manager
Foreign Exchange Department

Countersigned,

ORIGINAL SIGNED BY
V. L. FOLEY

(Miss) V. L. Foley
pro Manager

OFFICIAL FILE COPY

Date	Surname	Code
11/5/70	Emerick	120
11.5	Coe	220
		120M

OME Form 7
(2/63)

r L. Brewer
sident and Managing Director
xplorers Ltd.
5 Burrard Street
uver 1, British Columbia, Canada

NOV 5 1970

Re: OME-6777 (Copper)
Jason Explorers Ltd. (N.P.L.)
Blue Ledge Mine
Siskiyou County, California

Dear Mr. Brewer:

Thank you for the information and material furnished in reply to our letter of October 8, 1970. We can now complete drafting a proposed contract to explore the subject property.

As you know, in the event of a contract, in lieu of Lien and Subordination Agreements you would be required to furnish a Performance Bond in the amount of the Government's share of the total estimated cost of the project. We enclose three copies of Standard Form 25, Performance Bond. In completing the form, please follow the instructions on the back of the form exactly as requested.

It is now estimated that a bond in the amount of about $17,650 would be required (50 percent of the total estimated cost of $35,300). As soon as the proposed contract has been signed by the Government, we will advise you of the date and number of the contract and the penal sum of bond required. You or the corporate surety should enter this information on the bond in the appropriate space. You should then send two copies of the completed bond to this office for approval and attachment to two copies of the contract. We will then forward the proposed contract to the Field Officer who, after reviewing it, will send it to you for consideration and signature if acceptable.

You advised Mr. Stager on September 25, 1970, that on September 28 you would be in Seattle to investigate availability of a Performance Bond. We have received no information on the outcome of that investigation. Will you be able to furnish a bond with a U.S. firm? Please advise us as soon as convenient if you can obtain a bond. We would like assurance that there will be no delay in executing a contract because of the unavailability of a bond.

Thank you again for the information received November 4.

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 II
Mr. Kirkemo

Enclosures

kemo/gla 11-5-70

Jason

Sheldon OME → 90

JASON EXPLORERS LTD. 775–555 Burrard Street, Vancouver 1, British Columbia (604) 684-2196

October 27, 1970

OFFICIAL COPY
O. M. E.
RECEIVED
NOV 4 1970

INITIALS	CODE
gr	130
	120
WE	120

United States Department of the Interior
Geological Survey
Washington, D.C. 20242

Re: OME-6777 (Copper)
Jason Explorers Ltd. (N.P.L.)
Blue Ledge Mine
Siskiyou County, California

Dear Mr. Kirkemo,

In reply to your letter of October 8th, 1970, we enclose the correspondence with our own bank here in Vancouver regarding an application for an exploration loan on this project and their denial of this loan. We also enclose one remaining quote, rough as it is, for bulldozer work on the job. This was not one of the successful quotes. In addition we are awaiting the documentation on one quote on the diamond drilling which was also not successful. This is from a local operator here in Canada and his verbal price was unsatisfactory largely due to the costs of utilizing supervisory personnel from here and mobilizing crews at the job location to satisfy local labour-use requirements. We are very satisfied with both successful bidders who are residents of the Medford area.

Regarding the relationship between Jason, Transcontinental and Blue Ledge ---- Jason has no connection with Transcontinental whatsoever. We are merely parties to an agreement between Jason and Transcontinental regarding the Blue Ledge Company and its properties in California and Oregon. We therefore do not feel that the financial resources of Transcontinental should be a factor in this application. We enclose two copies of the most recent Jason financial statement which shows the Company to be in a very tight cash position. The names and addresses of the officers of Jason are noted on the face of our application form. Regarding the option agreement and the amendments thereto we enclose a statement from Transcontinental signed by two of their Directors indicating that this agreement is in good standing until the 31st day of December 1970. It is our intention to satisfy the conditions of the agreement to keep it in good standing past that date.

Thank you very much for your continued attention to this application.

Sincerely yours,

JASON EXPLORERS LTD. (N.P.L.)

Walter L. Brewer

Walter L. Brewer
Vice - President and Managing Director

WLB/mj
Enclosures

Sept. 16. 1970

Dear Sir:

In regard to some "Cat" work at the Blue Ridge Mine. in Southern Oregon

I have a D4 Cat and will work it for $11.00 an hour plus moving costs.

Sincerely Yours

Gyle H Mikan
649 Azalea Dr
Grants Pass Or.
97526

Phone 476-3043

THE ROYAL BANK OF CANADA

MAIN BRANCH
685 WEST HASTINGS STREET, VANCOUVER 2, B.C.

Telephone 684-0111

October 2, 1970

Jason Explorers Ltd.
#775, 555 Burrard Street
Vancouver 1, B. C.

Attention Mr. W. L. Brewer, Vice President

Dear Sirs:

With reference to our discussions, we regret that at this time we are unable to advance monies to assist with the speculative mining exploration ventures in question.

Yours truly,

L. F. Sine
Assistant Manager

September 28, 1970

The Royal Bank of Canada
Main Branch
685 West Hastings Street
Vancouver 2, B. C.

Attention: Mr. L. F. Sine

Dear Sirs:

To confirm our discussions we hereby request that you consider advancing roughly $45,000 to our Company to be used in a program of exploratory diamond drilling on our property at the Blue Ledge mine, Siskiyou County, California. Repayment of this money would of course come from the proceeds of future underwritings which might be negotiated by the Company pending the outcome of this drilling. We of course recognize the speculative nature of this program and acknowledge that your previous attitude toward such advances has not been a receptive one. However, your consideration at this time and your early reply would be much appreciated.

Yours truly,

JASON EXPLORERS LTD. (N.P.L.)

Walter L. Brewer
Vice-President and Managing Director

WLB/mj

TELEPHONE 684-6411

TRANSCONTINENTAL
RESOURCES L

SUITE 401, 1033 DAVIE STREET, V

ROOM NO. 2720
25 KING STREET, WEST
TORONTO 1, ONTARIO
368-7188

CABLE ADDRESS: "RESOURCES"

Oct

Dated 15 April 1969

Jason Explorers Ltd. (N.P.L.)
555 Burrard Street,
Vancouver, B.C.

Attention: Mr. W. Brewer

Dear Mr. Brewer:

We confirm that the agreeme
Company, Jason Explorers Ltd. (N.P.L.) a
Mines Incorporated dated the 3rd day of
amending agreement made between the same
18th day of April, 1969, are in good sta
the 31st day of December, 1970.

We understand that this inf
by the Geological Survey of the United S

Yours faithfully,

TRANSCONTINENTAL RESOURCES LIMITED

Per: _____
DIRECTOR

_____
SECRETARY

FWS:DEM

JASON EXPLORERS LTD. (N.P.L.)

BALANCE SHEET

AUGUST 31, 1970
(prepared without audit)

ASSETS

Current assets:		
Sundry accounts receivable	$ 7,878.42	
Federal Government exploration grant receivable (see note 1)	3,329.20	
Ore inventory at estimated net realizable value	33,000.00	
		$ 44,207.62
Securities, at cost (Market value $16,000.00) (see note 2)		41,770.50
Investments in and advances to Napoli Explorations Ltd. (N.P.L.) (see note 3):		
Investment in 650,000 shares, at cost	78,920.58	
Advances	2,567.62	
		81,488.20
Interests in mineral claims, at cost:		
Deep Cove claims - attributed value of 690,000 shares issued (see note 4)	345,000.00	
Camsell River claims (see note 5)	17,840.83	
Blue Ledge property (see note 6)	20,000.00	
Blanchet Island claims (see note 7)	25,000.00	
Tahtsa Lake and Sandifer Lake claims (see note 8)	2,902.66	
Wollaston Lake area prospecting permits (see note 9)	-	
Grand Forks area (see note 10)	-	
		410,743.49
Deferred exploration and administrative expenditure:		
Exploration	170,102.52	
Administrative	35,688.76	
		205,791.28
Other assets:		
Exploration equipment, at cost	4,883.00	
Leasehold improvements, net of amortization	4,000.46	
Incorporation expense	1,659.39	
Sundry	855.36	
		11,398.21
		$795,399.30

See accompanying notes to financial statements.

Signed on behalf of the Board:

J. D. [illegible] . . . . . Director Walter L. Brewer . . . . . Director

LIABILITIES and SHAREHOLDERS' EQUITY

Current liabilities:			
Bank overdraft		$ 1,133.62	
Bank demand loan		1,100.00	
Demand note payable		25,000.00	
Accounts payable		62,892.86	
Current portion of 9% promissory note		555.84	
			$ 90,682.32
9% promissory note payable at $46.32 per month		2,038.08	
Less current portion		555.84	
			1,482.24
Shareholders' equity:			
Share capital:			
Authorized:			
5,000,000 shares of 50¢ par value per share			
Issued:			
690,000 shares for mineral claims (see note 11)		345,000.00	
653,802 shares for cash		326,901.00	
1,343,802 shares		671,901.00	
Premium paid on shares issued for cash		297,220.00	
Deficit:			
Balance August 31, 1969	$107,193.63		
Add exploration and administrative expenditure (net) on abandoned prospecting permits in the Wollaston Lake area (see note 9)	158,692.63		
		(265,886.26)	
			703,234.74
			$795,399.30

JASON EXPLORERS LTD. (N.P.L.)

STATEMENT of SOURCE and APPLICATION of FUNDS

For the Year Ended August 31, 1970
(prepared without audit)

Funds received:			
Blanchet Island operation:			
Ore sales		$ 26,143.23	
Estimated value of ore inventory produced	$ 33,000.00		
Less net exploration and development expenditures	28,761.28		
		4,238.72	
			$ 30,381.95
Funds applied:			
Option payments on Blanchet Island claims		10,000.00	
Exploration expenditure:			
Blue Ledge property	10,875.86		
Camsell River claims	2,596.21		
Deep Cove claims	4,322.49		
Tahtsa Lake claims	14,904.15		
Wollaston Lake area, net of participation payments	105,964.80		
Grank Forks area (see note 10)	3,603.98		
General exploration	16,266.73		
		158,534.22	
Administrative expenditure, net of revenue from sundry office services	29,993.89		
Deduct non-cash expenditures:			
Amortization of leasehold improvements	1,091.03		
Write off of deferred interest	107.88		
		28,794.98	
Repayment of non-current portion of 9% promissory note payable		555.84	
			197,885.04
Decrease in working capital			167,503.09
Working capital at beginning of year			121,028.39
Working capital deficiency at end of year			$ 46,474.70
Represented by:			
Current liabilities			$ 90,682.32
Less current assets			44,207.62
			$ 46,474.70

JASON EXPLORERS LTD. (N.P.L.)

NOTES to FINANCIAL STATEMENTS

AUGUST 31, 1970

1. The company has incurred expenditures on an exploration programme which has been specifically approved by the Department of Northern Affairs for assistance grants under the Northern Mineral Exploration Assistance Regulations. The amount shown in the balance sheet as recoverable represents the balance of an estimate of the amount which could be claimed for expenditures at August 31, 1970.

2. The securities consist of 64,000 shares of Western Exploration Company Limited. 54,000 of these shares have been placed as collateral with the company's banker to secure any obligations which the company may have to the bank.

3. The investment in 650,000 shares of Napoli Explorations Ltd. (N.P.L.) represents approximately 75% of the outstanding shares of this subsidiary. 100,000 of these shares were allotted to Jason Explorers Ltd. (N.P.L.) for $25,000.00. The remaining 550,000 shares were allotted to the company in consideration for the transfer to Napoli Explorations Ltd. (N.P.L.) of the 12 Stormy claims and the 4 Arlene claims all in the Watson Lake Mining District of the Yukon Territory pursuant to an agreement covering the purchase of these claims. Napoli Explorations Ltd. (N.P.L.) now owns these claims outright subject to a royalty of 5% of net smelter returns from ore shipped up to a maximum royalty of $50,000.00.

   The cost to Jason Explorers Ltd. (N.P.L.) of these 550,000 shares has been recorded as the company's option payments and exploration and administrative expenditure applicable to these claims which was incurred prior to the signed agreement of transfer.

   The accounts of the subsidiary have not been consolidated in these financial statements as there has been no major activity except for the above transaction. No provision has been made in the accounts of Jason Explorers Ltd. (N.P.L.) for its share (approximately $22,000.00) of the deficit of Napoli Explorations Ltd. (N.P.L.) arising from unsuccessful exploration of other claims in the Yukon Territory prior to its becoming a subsidiary of Jason Explorers Ltd. (N.P.L.).

4. The Deep Cove claims consist of 30 claims in the Atlin Mining Division of British Columbia and are owned outright by the company.

5. The Camsell River claims consist of 72 claims in the Yellowknife Mining District of the Northwest Territories and are owned outright by the company.

6. The company is optionee under an agreement whereby it can purchase 75% of the outstanding shares of Blue Ledge Copper Mines Incorporated, a California corporation which owns 26 patented lode mining claims in Siskiyou County, California, and one patented placer claim in Jackson County, Oregon, near the

JASON EXPLORERS LTD. (N.P.L.)

NOTES to FINANCIAL STATEMENTS (cont.)

California claims. In order to complete the option Jason Explorers Ltd. (N.P.L.) must:

-- pay $20,000.00 to the optionor prior to December 31, 1968 (which has been paid)

-- prior to July 1, 1969 spend $30,000.00 on exploration and development of the claims. $31,999.32 had been incurred by the company in expenditures as at that date, and under the terms of the option agreement Jason Explorers Ltd. (N.P.L.) thus is entitled to 10,000 (10%) of the outstanding shares of Blue Ledge Copper Mines Incorporated

-- in the period July 1, 1969 to December 31, 1970 spend $75,000.00 on exploration and development of the claims and pay $40,000.00 to the optionor

-- in the period January 1, 1971 to June 30, 1971 pay $15,000.00 to the optionor and through funds advanced or arranged for, cause the commencement of construction of a mill on the claims

Total advances by Jason Explorers Ltd. (N.P.L.) under this option agreement are to be recovered from production proceeds pro-rata with $25,000.00 previously spent on the property by the optionor before any distributions of the profits to the shareholders of Blue Ledge Copper Mines Incorporated.

When Jason Explorers Ltd. (N.P.L.) has complied with the requirements as stipulated above for the period July 1, 1969 to June 30, 1971, a further 65,000 shares (65%) of Blue Ledge Copper Mines Incorporated will have been earned by the company.

7. The company is optionee under an option agreement to purchase 4 mineral claims on Blanchet Island in the McKenzie Mining District of the Northwest Territories for $400,000.00 payable as follows:

$5,000.00 cash which has been paid
15% of net smelter returns on the first 100 tons of material shipped from the claims
10% of net smelter returns on the next 100 tons of material shipped from the claims
5% of net smelter returns for all subsequent shipments until the full $400,000.00 has been paid

The payments calculated on net smelter returns must be a minimum of $10,000.00 per year. $20,000 has been paid as of July 1, 1970.

The company has entered into an agreement with Ugine Kuhlmann, S.A. of Paris, France providing for the formation of a joint venture encompassing all claims held or to be acquired by Jason or Ugine on Blanchet Island and providing for the exploration and development of these claims, which now total 132 claims due to subsequent staking by the company and/or the joint venture. Under the

agreement, a programme for expenditure of $132,000.00 is called for. Ugine has supplied $91,000.00 of this and Jason Explorers Ltd. (N.P.L.) is to supply the balance of $41,000.00. Ugine may elect to receive a 50% interest in the original 4 claims under the terms of the joint venture agreement. The joint venture is in the process of shipping ore which it has mined from these claims.

8. The Tahtsa Lake and Sandifer Lake claims consist of 2 groups totalling 40 claims all in the Omineca Mining Division of the Province of British Columbia.

   According to an agreement with a prospector regarding these claims, the prospector is entitled to receive 50,000 shares of a new company to be incorporated by Jason Explorers Ltd. (N.P.L.) by March 10, 1972 and into which the claims would be transferred, or 15,000 escrowed shares of Jason Explorers Ltd. (N.P.L.) if any of the claims are still retained at that time. The company has the option to decide whether to incorporate a new company or to arrange for the transfer of the escrowed shares.

   The company has earned a 20% interest in 200 additional claims in the same area by performing approximately $10,000.00 of exploration thereon.

9. On May 30, 1969, the company entered into an agreement with three other parties (the farmors) to acquire a 50% interest in four prospecting permits covering a total area of approximately 752,000 acres and a 2.5% interest in one prospecting permit of 192,000 acres -- all in the Wollaston Lake area of the Province of Saskatchewan. As a result of the work performed to date, the company has abandoned all interest in the four permits and has abandoned its 2½% interest in the fifth permit.

10. Under an agreement with King Resources Company, Jason Explorers Ltd. (N.P.L.) has the right to acquire an undivided 50% interest in 47 mineral claims in the Grand Forks Mining Division of British Columbia by expending the following amounts on examination and exploration of the claims:

By October 31, 1970	$ 10,000.00
By October 31, 1971	20,000.00
	$ 30,000.00

    In addition Jason Explorers Ltd. (N.P.L.) must maintain the claims in good standing during the term of the agreement.

11. Of the 690,000 shares originally issued for mineral claims 585,000 are held in escrow, subject to the order of the Vancouver Stock Exchange.

Sept. 16, 1970

Dear Sir:

In regard to some "Cat" work at the Blue Ridge Mine. in Southern Oregon

I have a D4 Cat and will work it for $11.00 an hour plus moving costs.

Sincerely Yours

Gyle H Mikan
649 Azalea Dr
Grants Pass Or.
97526

Phone 476-3043

September 28, 1970

The Royal Bank of Canada
Main Branch
685 West Hastings Street
Vancouver 2, B. C.

Attention: Mr. L. F. Sine

Dear Sirs:

To confirm our discussions we hereby request that you consider advancing roughly $45,000 to our Company to be used in a program of exploratory diamond drilling on our property at the Blue Ledge mine, Siskiyou County, California. Repayment of this money would of course come from the proceeds of future underwritings which might be negotiated by the Company pending the outcome of this drilling. We of course recognize the speculative nature of this program and acknowledge that your previous attitude toward such advances has not been a receptive one. However, your consideration at this time and your early reply would be much appreciated.

Yours truly,

JASON EXPLORERS LTD. (N.P.L.)

Walter L. Brewer
Vice-President and Managing Director

WLB/mj

TELEPHONE 684-6411

TRANSCONTINENTAL RESOURCES LIMITED

SUITE 401, 1033 DAVIE STREET, VANCOUVER 5, B.C.

ROOM NO. 2720
25 KING STREET, WEST
TORONTO 1, ONTARIO
368-7188

CABLE ADDRESS: "RESOURCES"

October 23, 1970.

Jason Explorers Ltd. (N.P.L.)
555 Burrard Street,
Vancouver, B.C.

Attention: Mr. W. Brewer

Dear Mr. Brewer:

We confirm that the agreement made between our Company, Jason Explorers Ltd. (N.P.L.) and Blue Ledge Copper Mines Incorporated dated the 3rd day of July, 1968 and the amending agreement made between the same parties dated the 18th day of April, 1969, are in good standing up to and including the 31st day of December, 1970.

We understand that this information has been requested by the Geological Survey of the United States.

Yours faithfully,

TRANSCONTINENTAL RESOURCES LIMITED

Per: _____
DIRECTOR

_____
SECRETARY

FWS:DEM

JASON EXPLORERS LTD. (N.P.L.)

BALANCE SHEET

AUGUST 31, 1970
(prepared without audit)

ASSETS

Current assets:		
Sundry accounts receivable	$ 7,878.42	
Federal Government exploration grant receivable (see note 1)	3,329.20	
Ore inventory at estimated net realizable value	33,000.00	
		$ 44,207.62
Securities, at cost (Market value $16,000.00) (see note 2)		41,770.50
Investments in and advances to Napoli Explorations Ltd. (N.P.L.) (see note 3):		
Investment in 650,000 shares, at cost	78,920.58	
Advances	2,567.62	
		81,488.20
Interests in mineral claims, at cost:		
Deep Cove claims - attributed value of 690,000 shares issued (see note 4)	345,000.00	
Camsell River claims (see note 5)	17,840.83	
Blue Ledge property (see note 6)	20,000.00	
Blanchet Island claims (see note 7)	25,000.00	
Tahtsa Lake and Sandifer Lake claims (see note 8)	2,902.66	
Wollaston Lake area prospecting permits (see note 9)	-	
Grand Forks area (see note 10)	-	
		410,743.49
Deferred exploration and administrative expenditure:		
Exploration	170,102.52	
Administrative	35,688.76	
		205,791.28
Other assets:		
Exploration equipment, at cost	4,883.00	
Leasehold improvements, net of amortization	4,000.46	
Incorporation expense	1,659.39	
Sundry	855.36	
		11,398.21
		$795,399.30

See accompanying notes to financial statements.

Signed on behalf of the Board:

J. D. Mann . . . . . Director Walter L. Brewer . . . . . Director

JASON EXPLORERS LTD. (N.P.L.)

STATEMENT of SOURCE and APPLICATION of FUNDS

For the Year Ended August 31, 1970
(prepared without audit)

Funds received:			
Blanchet Island operation:			
Ore sales		$ 26,143.23	
Estimated value of ore inventory produced	$ 33,000.00		
Less net exploration and development expenditures	28,761.28		
		4,238.72	
			$ 30,381.95
Funds applied:			
Option payments on Blanchet Island claims		10,000.00	
Exploration expenditure:			
Blue Ledge property	10,875.86		
Camsell River claims	2,596.21		
Deep Cove claims	4,322.49		
Tahtsa Lake claims	14,904.15		
Wollaston Lake area, net of participation payments	105,964.80		
Grank Forks area (see note 10)	3,603.98		
General exploration	16,266.73		
		158,534.22	
Administrative expenditure, net of revenue from sundry office services	29,993.89		
Deduct non-cash expenditures:			
Amortization of leasehold improvements	1,091.03		
Write off of deferred interest	107.88		
		28,794.98	
Repayment of non-current portion of 9% promissory note payable		555.84	
			197,885.04
Decrease in working capital			167,503.09
Working capital at beginning of year			121,028.39
Working capital deficiency at end of year			$ 46,474.70
Represented by:			
Current liabilities			$ 90,682.32
Less current assets			44,207.62
			$ 46,474.70

JASON EXPLORERS LTD. (N.P.L.)

NOTES to FINANCIAL STATEMENTS (cont.)

California claims. In order to complete the option Jason Explorers Ltd. (N.P.L.) must:

-- pay $20,000.00 to the optionor prior to December 31, 1968 (which has been paid)

-- prior to July 1, 1969 spend $30,000.00 on exploration and development of the claims. $31,999.32 had been incurred by the company in expenditures as at that date, and under the terms of the option agreement Jason Explorers Ltd. (N.P.L.) thus is entitled to 10,000 (10%) of the outstanding shares of Blue Ledge Copper Mines Incorporated

-- in the period July 1, 1969 to December 31, 1970 spend $75,000.00 on exploration and development of the claims and pay $40,000.00 to the optionor

-- in the period January 1, 1971 to June 30, 1971 pay $15,000.00 to the optionor and through funds advanced or arranged for, cause the commencement of construction of a mill on the claims

Total advances by Jason Explorers Ltd. (N.P.L.) under this option agreement are to be recovered from production proceeds pro-rata with $25,000.00 previously spent on the property by the optionor before any distributions of the profits to the shareholders of Blue Ledge Copper Mines Incorporated.

When Jason Explorers Ltd. (N.P.L.) has complied with the requirements as stipulated above for the period July 1, 1969 to June 30, 1971, a further 65,000 shares (65%) of Blue Ledge Copper Mines Incorporated will have been earned by the company.

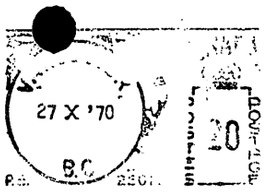
7. The company is optionee under an option agreement to purchase 4 mineral claims on Blanchet Island in the McKenzie Mining District of the Northwest Territories for $400,000.00 payable as follows:

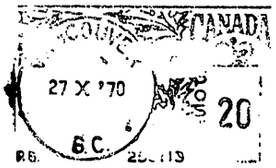
$5,000.00 cash which has been paid
15% of net smelter returns on the first 100 tons of material shipped from the claims
10% of net smelter returns on the next 100 tons of material shipped from the claims
5% of net smelter returns for all subsequent shipments until the full $400,000.00 has been paid

The payments calculated on net smelter returns must be a minimum of $10,000.00 per year. $20,000 has been paid as of July 1, 1970.

The company has entered into an agreement with Ugine Kuhlmann, S.A. of Paris, France providing for the formation of a joint venture encompassing all claims held or to be acquired by Jason or Ugine on Blanchet Island and providing for the exploration and development of these claims, which now total 132 claims due to subsequent staking by the company and/or the joint venture. Under the

775–555 Burrard Street, Vancouver 1, British Columbia





TO

United States Department of the Interior

Geological Survey

WASHINGTON, D. C. 20242

AIR MAIL

AIR MAIL

THE ROYAL BANK OF CANADA

MAIN BRANCH
685 WEST HASTINGS STREET, VANCOUVER 2, B.C.

Telephone 684-0111

October 2, 1970

Jason Explorers Ltd.
#775, 555 Burrard Street
Vancouver 1, B. C.

Attention Mr. W. L. Brewer, Vice President

Dear Sirs:

With reference to our discussions, we regret that at this time we are unable to advance monies to assist with the speculative mining exploration ventures in question.

Yours truly,

L. F. Sine
Assistant Manager

MGE Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
10/8/70		120
		120M

OCT 8 1970

AIRMAIL

Mr. Walter L. Brewer
Vice President and Secretary
Jason Explorers Ltd. (N.P.L.)
775 Bentall Centre
555 Burrard Street
Vancouver 1, B.C., Canada

Re: OME-6777 (Copper)
Jason Explorers Ltd. (N.P.L.)
Blue Ledge Mine
Siskiyou County, California

Dear Mr. Brewer:

In reviewing the application for financial assistance to explore the Blue Ledge mine, we note that additional information is needed regarding the financial assets of Jason Explorers Ltd., and the parent company, Transcontinental Resources Ltd. Copies of the latest financial statements of the two companies, and a list of the names, addresses, and titles of the officers of the parent company would be appreciated.

The letter to one bank and the reply thereto are recognized (a second letter of inquiry and a reply are yet to be furnished according to your letter of September 27, 1970 to Mr. H. K. Stager), but we would like to obtain the additional financial information because the applicant is a wholly owned subsidiary of another company.

A company is not eligible to participate in the OME program if its assets or assets of a parent company are sufficient to finance a proposal wholly on their own accounts. If assets are substantial, perhaps a loan from commercial sources would be a possibility if such assets were offered as collateral. The financial statements requested would be useful to us in considering these possibilities.

The Memorandum of Agreement dated July 3, 1968 between the three parties concerned with the subject property contains certain provisions requiring work commitments and payments of stated sums of money within specified periods of time. Please submit a statement executed by authorized representatives of the three parties certifying that all work commitments and payments specified by the Agreement have been met to date, and that the Agreement remains in good standing. If the Agreement is not in good standing, please submit documents showing by what authority Jason Explorers Ltd., controls the property, and other interests in the property if not wholly controlled.

We will proceed with our review of your application pending receipt of the financial statements, list of officers of the parent company, and a statement on the status of the Memorandum of Agreement.

This request for information should not be construed as a commitment by the Government that a contract will be prepared.

Sincerely yours,

Harold Kirkemo (bsl)

Harold Kirkemo
Chief, Office of
Minerals Exploration

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

HKirkemo/bsl 10/8/70

UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY
Office of Minerals Exploration
345 Middlefield Road
Menlo Park, California 94025

October 5, 1970

OFFICIAL COPY
O. M. E.
RECEIVED
OCT 7 1970

INITIALS	CODE
	120
bal	120 M
	130

Memorandum

To: Chief, Office of Minerals Exploration
Washington, D. C.

From: Field Officer
Region II

Subject: OME-6777 (Copper-Silver)
Jason Explorers Ltd. (N.P.L.)
Blue Ledge Mine
Siskiyou County, California

Enclosed is an Application Report on the subject property recommending that the Government participate in a contract to explore a geochemical copper anomaly, adjacent to the Blue Ledge Mine, by diamond core drilling. A project consisting of 2,500 feet of diamond core drilling in 10 holes at an estimated total cost of $35,700, of which the Government's share would be $17,850, is recommended.

A copy of the Applicant's revised proposal, including bids, bank letter, and new Form 40, is enclosed.

Extra copies of Figure 2 are also enclosed for your use if a contract is approved.

H. K. Stager

H. K. Stager

Enclosures

UNITED STATES

DEPARTMENT OF THE INTERIOR

WALTER J. HICKEL, SECRETARY

GEOLOGICAL SURVEY

OFFICE OF MINERALS EXPLORATION

REPORT OF EXAMINATION

REGION II

APPLICATION REPORT

OME-6777 (Copper-Silver)
Jason Explorers Ltd. (N.P.L.)
Blue Ledge Mine
Siskiyou County, California

On-Site Exam Report

By

H. K. Stager
Field Officer
OME, Region II

October 5, 1970

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ILLUSTRATIONS

Figure 1. Index map of Siskiyou County, California.

Figure 2. Property map of the north part of the Blue Ledge, et al., Group of Claims, Siskiyou County, California, showing proposed exploration.

INTRODUCTION

Jason Explorers Ltd. (N.P.L.), 775-555 Burrard Street, Vancouver 1, British Columbia, Canada, applied to the Office of Minerals Exploration for Government assistance in an exploration project, Docket OME-6777, to explore for copper and silver at the Blue Ledge Mine, Siskiyou County, California. The Applicant infers the presence of copper-bearing ore bodies on the property, indicated by geochemical anomalies, and wishes to explore the deposit by diamond core drilling from surface sites.

A field examination was requested by the Office of Minerals Exploration and was made by H. K. Stager, Field Officer, on September 9 and 10, 1970, accompanied by Mr. William Blair, mining engineer for the Applicant. The Applicant's maps, cross sections, and geochemical and assay data were examined and compared with surface and underground exposures in the project area.

SUMMARY

The Blue Ledge Mine has yielded copper and silver with an estimated value of about $700,000 from a vein-type ore body in schists of pre-Mesozoic age. The results of the Applicant's geochemical program during 1969 indicate that the geologic probability of finding new vein-type copper-zinc ore bodies as a result of the proposed exploration is good. The revised exploration program consists of 2,500 feet of diamond core drilling in 10 holes. The project will require about three months to complete, if weather conditions are favorable. The project site is readily accessible and facilities for accomplishing the work are available.

RECOMMENDATIONS

It is recommended that the Government enter into a contract with Jason Explorers Ltd. to explore the copper-bearing geochemical anomalies north of the main Blue Ledge Mine workings. The proposed diamond core drilling project will require about three months to complete and the Government's share of the estimated total cost of $35,700 would be $17,850.

LOCATION, ACCESSIBILITY, AND LOCAL FACILITIES

The Blue Ledge Mine property is in secs. 3 and 10, T. 47 N., R. 11 W., and secs. 22, 27, and 34, T. 48 N., R. 11 W., MDBM, Elliott Mining District, Siskiyou County, California (Fig. 1), on the north slope of the Siskiyou Mountains, at an altitude of from 4,000 to 5,600 feet.

To reach the property, that is about 30 miles southwest of Medford, Oregon (the closest major town), drive southwest on Oregon State Highway 238 through Jacksonville to Ruch (about 10 miles), then continue southwest on a paved road to Copper (about 20 miles), and from Copper an improved forestry road continues southeast (crossing the Oregon-California state line) about 10 miles to the mine. The road is passable for ordinary passenger vehicles, during dry weather, and the drive from Medford usually requires about 1½ hours.

Labor, mining supplies, and trucking and railroad services are available in Medford. There are ample water and rough timber available on the property. Diamond drilling and bulldozing contractors are available in Medford and Grants Pass (50 miles). Assay services are available in Portland, Oregon (315 miles), Tacoma, Washington (450 miles), and Redding, California (200 miles). The closest copper smelter is at Tacoma, Washington.

PROPERTY

History and Production

Copper ore was discovered in the Blue Ledge Mine area in 1898 by prospectors panning for gold on Joe Creek. The No. 1 level was started soon after the discovery but most of the development work was done during the periods 1905-1909 and 1917-1920. The property was sold to Cia Metalurgica Mexicana in 1905 and to a subsidiary, Mexican Smelting and Refining Company, in 1913. During the period 1917-1920 about 8,575 tons of high-grade ore was shipped to the A.S.&R. smelter at Tacoma, Washington. There was no activity at the property between 1920 and 1929 but in 1930 the mine was leased to Messrs. Reddy and Hughes and a shipment of 2,575 tons of ore was made. The mine has not been operated since 1930 and the total recorded production is 11,151 tons of ore that averaged 12.12 percent copper, 5.24 ounces of silver, and 0.092 ounce of gold per ton.

The A.S.&R. Company examined and sampled the mine in 1942 and did some diamond drilling. The U. S. Bureau of Mines resampled the property in 1943 and 1944 and drilled four diamond drill holes, totaling 910 feet, below the No. 2 level (R.I. 4124). Transcontinental Resources acquired the property from A.S.&R. Company on May 23, 1956. Newmont Exploration Ltd. examined the property in 1964. The Applicant obtained a lease and option on the property on July 3, 1968, and check-sampled the accessible workings and conducted a geochemical exploration program during 1968-1969.

Ownership

The property consists of 26 patented lode mining claims included in U. S. Survey No. 4548, September-October 1907, U. S. Letters Patent No.

240908, and total 487.18 acres. Copies of the survey plats are contained in the application. From south to north these claims are as follows:

Not in project	In proposed project
No. 4 Blue Bell	West Blue Ledge No. 2
No. 3 Blue Bell	Blue Ledge No. 3
No. 2 Blue Bell	East Blue Ledge No. 1
West Blue Bell	Brown Bear
No. 1 Blue Bell	Blue Ledge No. 2
West Blue Ledge No. 1	Blue Ledge No. 4
Blue Ledge No. 1	No. 1 Midway
West Blue Ledge	No. 2 Midway
Don	No. 3 Midway
Hamilton Blue Ledge	Nabob No. 2
Marmion	Nabob No. 1
East Blue Ledge	Nabob
West Blue Ledge No. 3	
Blue Ledge	

Only the 12 claims north of the Blue Ledge Claim are to be included in the proposed exploration project, as shown on Figure 2. The major anomalies to be tested by the proposed drilling are on the No. 2 and No. 3 Midway Claims.

The property is owned by Blue Ledge Copper Mines Inc., a California company. Blue Ledge Copper Mines Inc. is a wholly owned subsidiary of Transcontinental Resources Ltd., 401-1033 Davie Street, Vancouver 5, B.C., Canada. The Applicant is in control of the property under the terms of an Agreement dated July 3, 1968, a copy of which is attached to the application.

Financial Eligibility

The Applicant furnished copies of letters to two banks requesting loans for the original program and also copies of letters denying the loans.

Additional letters to and from the banks, reaffirming the denials, were submitted in February 1969; and again in September 1970 to cover the revised proposal. The Applicant states that funds sufficient to cover the Applicant's share of the proposed exploration costs are available in cash.

Inasmuch as the Applicant is a Canadian corporation, a performance bond with a United States bonding company will be required. The Applicant states that several bonding companies in the U.S. have been contacted and that a performance bond will be provided if a contract is approved.

Development

The Blue Ledge Mine is developed by about 13,000 feet of workings in 7 main levels, 3 sub-levels, and numerous interconnecting raises and winzes. The major development has been from, and between, the No. 1, No. 2, No. 4, No. 8, and No. 12 levels. The No. 4 level was the main production level. Most of these workings are open and accessible, with some difficulty because of caved areas and rotted timbers and ladders. Ventilation is good in most of the workings. There are no surface facilities on the property and no mining equipment or machinery on the surface or underground.

GEOLOGY

Geologic Setting

The Blue Ledge Mine is in an area of steep relief and most of the surface is covered by slope wash and dense vegetation. Outcrops are sparse throughout the claim area. The only rocks exposed in the mine and in the claim area are schists. The age of these rocks is not known but they are probably Paleozoic.

There are four types of schists in the mine area; a carbonaceous schist, a chlorite schist, a sericitic schist, and a quartz schist. These rocks are

part of a large belt of schists about 20 miles in length and 10 miles in width. The schistocity strikes about N. 10° E. and dips about 60° W. They are closely folded, regionally metamorphosed, and probably derived from impure felsic tuffs and carbonaceous argillites. Minor faulting is common and in the mine appears to consist of two sets of faults; one set that strikes northeast and dips steeply northwest, and a second set that strikes northwest and dips steeply southwest. Both sets are post-mineral and of small displacement. The ore deposit appears to be localized in a major shear zone that strikes and dips parallel to the schistocity and is traceable for several miles along the strike.

Ore Deposits

The ore deposit that has been explored, and partly mined, at the Blue Ledge Mine consists of lenses, vein-like bands, and irregular masses of disseminated to massive sulfides that replace schist in a shear zone that strikes north to N. 10° E. and is vertical or dips steeply west.

The primary ore minerals are chalcopyrite and sphalerite. Some gold and silver are present, principally in the chalcopyrite. Locally some galena and covellite have been noted. Gangue minerals are pyrrhotite, pyrite, altered sericitic wall rock, quartz, and some calcite. The ore is generally massive with all the minerals finely intermixed and intergrown.

The deposit has been developed over a strike length of about 1,300 feet and a dip length of about 350 feet. The average width of the ore is about 5 feet. The principal ore bodies rake flatly northward and occur on two separate, generally tabular, sulfide replacement zones, known as the hanging

wall and footwall veins. These veins are roughly parallel, but with normal separations ranging from 2 to 60 feet. They appear to join to the north, at about the No. 1 adit portal area, and down dip. About 80 percent of the total ore reserves occurs within the hanging wall vein and 20 percent within the footwall vein.

The Blue Ledge mineralization is reasonably well delimited for a distance of about 800 feet north of the No. 4 portal and has been exposed at this point by two short adits. A gossan section, 5 feet in width and 50 feet in length, with spotty azurite-malachite stains has been exposed. Farther to the north, at about 2,500 feet, 6,500 feet, and 8,000 feet from the No. 4 adit, geochemical testing has discovered three areas of moderate to strong copper-zinc anomalies. The largest of these anomalies, on the No. 2 Midway Claim, has a strike length of about 1,000 feet, is about 300 feet in width, and yields as much as 500 ppm copper and 370 ppm zinc from surface soil samples. This is the major target of the proposed exploration. Other smaller anomalies north and south of this major anomaly yield soil assays of 200 to 320 ppm copper and 30 to 320 ppm zinc. These anomalies are secondary targets of the proposed drilling.

Sampling

No samples were taken during the examination. Maps and assays, attached to the application, show the results of extensive mine sampling by previous operators, U. S. Bureau of Mines, and the Applicant. The results of geochemical sampling, done by the Applicant during the summer of 1969, are attached to the revised proposal and are the basis for the proposed drilling project.

Ore Reserves

In 1944 the U. S. Bureau of Mines estimated the total underground reserves at 135,190 tons of measured and indicated ore with an average width of 5.0 feet; copper content 3.64 percent; silver content 2.15 ounces per ton; gold content 0.041 ounce per ton; and zinc content 4.36 percent. Only 11,900 tons of this amount was classed as measured and the balance was indicated. There was no inferred ore estimate.

In 1964 Newmont Exploration estimated 232,000 tons of underground reserves in all classes. These reserves were estimated at 3.05 percent copper, 1.86 ounces of silver per ton, 0.037 ounce of gold per ton, and 3.64 percent zinc. A width of 5.9 feet was calculated.

Total underground reserves calculated by the Applicant are 184,800 tons with an average width of 4.6 feet, 3.97 percent copper, 2.36 ounces of silver per ton, 0.058 ounce of gold per ton, and 4.6 percent zinc. In addition an estimated 42,000 tons of partly oxidized ore is broken in the old stopes and on the dumps. This ore contains 1.42 percent copper, 1.25 ounces of silver and 0.039 ounce of gold per ton, and 1.17 percent zinc.

All of these reserves are in the Blue Ledge Mine proper. No estimate has been made of inferred reserves in the areas of copper-zinc geochemical anomalies that are the target of the proposed exploration.

EXPLORATION

Applicant's Proposal

The Applicant originally proposed (February 1969) to explore the Blue Ledge Mine area by driving a new crosscut adit, about 500 feet below the

lowest existing adit, for a length of about 700 feet; then drifting about 2,900 feet in the footwall of the vein; raising 460 feet to an old sub-level, then drilling 1,000 feet of diamond core holes and 7,500 feet of long holes from underground sites along the drift. This project was estimated to cost about $403,291 and require about 8 months to complete.

Although the original proposal was for an exploration program well designed to test the downward extension of the deposit and permit the efficient mining of the known ore bodies, the size of the project and unit costs were too large to permit serious consideration under the limited funds available for OME participation. The Applicant was asked to propose a less costly project.

The Applicant undertook a geochemical sampling program, at its own expense, during the summer of 1969 and as a result discovered several areas of high copper-zinc content along the strike of the Blue Ledge deposit north of the mine area. A small diamond core drilling project appeared justified and was proposed to test several of these anomalies. The revised proposal consists of 10 holes with an estimated total of 2,500 feet of drilling at an estimated total cost of $35,700. About three months' time will be required to complete the drilling.

The revised proposal is well planned, relatively inexpensive, and will determine the presence or absence of one or more significant ore bodies in the areas of geochemical anomalies.

Examiner's Proposal

The Applicant's revised proposal is adequate to test the potential of the major copper-zinc anomalies and no changes are proposed in the location,

number, or targets of the drill holes. Some changes in hole locations, inclinations, and depths may be necessary as drilling progresses, and provision should be made to allow changes based on the results of drilling. All holes will be inclined and will be core drilled at BX-wireline size.

The revised program is for the exploration of copper-zinc anomalies. The silver content of the deposits is unknown but is probably low. Government participation should be at the rate of 50 percent.

Proposed Exploration Costs

The Applicant has presented detailed cost estimates supported by bids from diamond drilling and bulldozing contractors. These costs are realistic and in line with going prices in other projects in this Region. Several changes have been made in the estimates, principally in the deletion of costs for overtime work and contingencies. Cardboard core boxes at $1.40 each are substituted for wood core boxes. Standby time and lost casing costs have been added. Board and room costs for the supervisor have been deleted but his monthly rate of pay has been increased to partly compensate for the additional costs, inasmuch as he will be working at a great distance from his normal base of operations in Nelson, British Columbia. The Applicant's estimated costs have been reduced by a total of $8,668. These additional costs were largely based on estimates for difficult winter operations and overtime to complete the work this calendar year. The Applicant has been advised that the length of time required to prepare a contract and process it through the necessary channels in Washington, D. C., will probably preclude the start of work before the spring of 1971. Access to the proposed drilling area will probably be limited by snow during the

period from November 15 to March 15. The work will probably be done during April, May, and June of 1971.

Cost Estimate

Actual Costs (Category 1 - Independent Contracts)

Prep. for drilling

Mobilization and demobilization of bulldozer D-7 size or larger, 3 trips in and out at $100.00 each----------	$ 300.00	
Bulldozing drill sites and access roads, including snow removal, maintenance of roads, etc., 100 hours at $21.00 per hour----------	2,100.00	

Drilling

Mobilization and demobilization of drilling rig---	600.00	
Diamond core drilling, from surface sites, 2,500 feet----------	20,300.00	

Depth in Feet	BX Wire Line Rate per Foot
0 - 500	$8.00
500 - 750	$9.00

Reaming, casing, cementing, drilling cement, etc., 120 hours at $17.50 per hour----------	2,100.00	
Moving from hole to hole, 9 moves at $100.00 each-	900.00	
Standby time, after 72 hours of free time, 60 hours at $9.50 per hour----------	570.00	
Cement, drill mud, additives, etc.----------	420.00	
Core boxes, 250 at $1.40 each----------	350.00	
Lost casing, 100 feet at $2.50 per foot----------	250.00	$27,890.00

Category 2 - Personal Services

Supervision and Technical Services

Field engineer and supervisor 3 months at $1,500 per month----------	4,500.00	4,500.00

Category 3 - Operating Materials and Supplies		
Core splitter, 1 at $50----------	$ 50.00	$ 50.00
Category 7 - Miscellaneous		
None except:		
Travel of supervisor to and from Vancouver, B. C., 2 trips at $100.00 each----------	200.00	
Vehicle costs for travel on project, 3,000 miles at 12¢ per mile----------	360.00	
Communication costs, field supervisor and home office, etc.----------	100.00	
Accounting and office expense, including preparation of final report, etc., 4 months at $100.00 per month----------	400.00	
Assaying, 200 samples, each assayed for gold, silver, copper, and zinc, at $11.00 per sample----------	2,200.00	3,260.00

SUMMARY

Total Estimated Cost of the Project----------	$35,700.00
Government Participation at 50%----------	$17,850.00

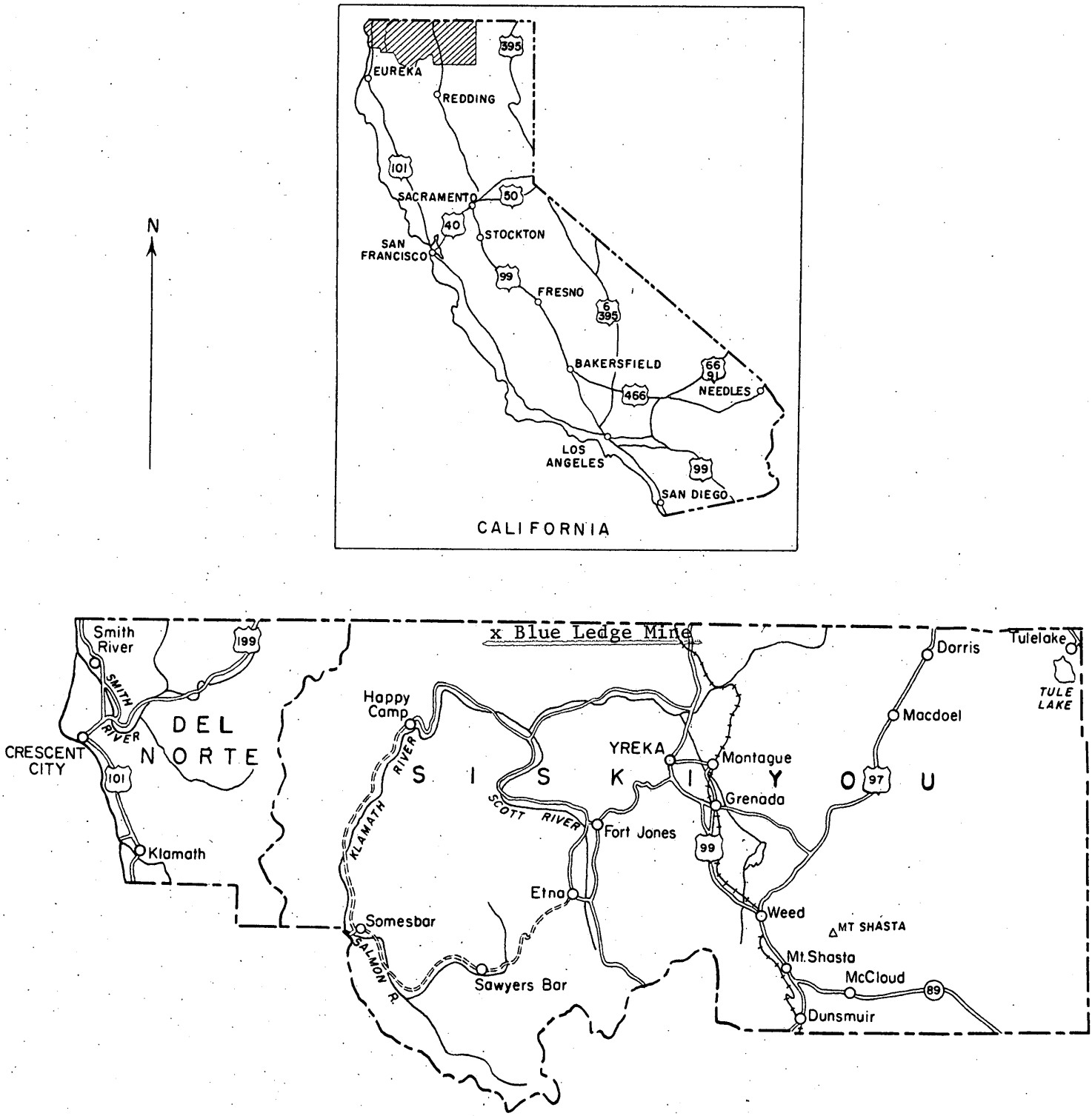

Figure 1. INDEX MAP OF DEL NORTE AND SISKIYOU COUNTIES, CALIFORNIA

0 20 40 60 Miles

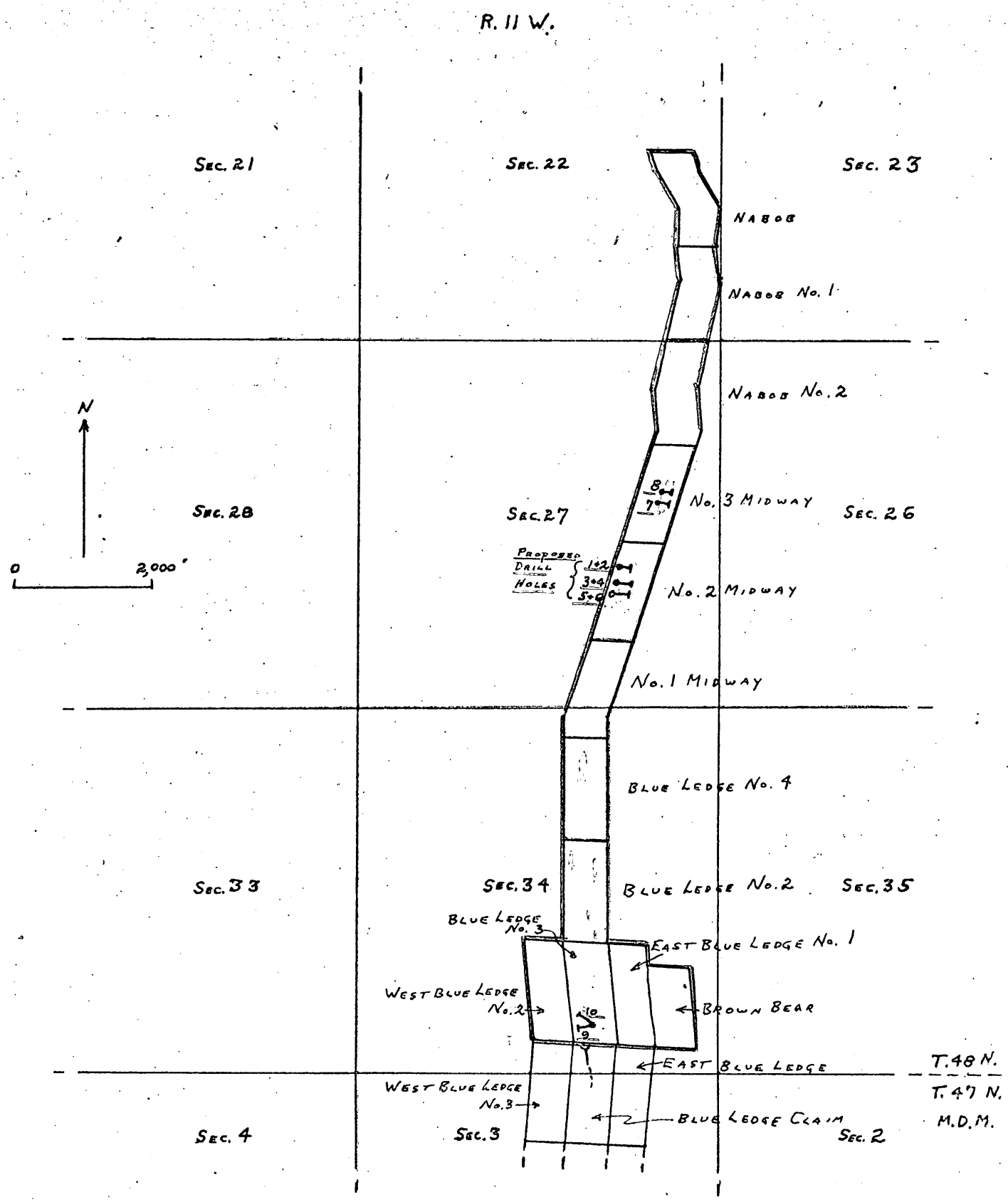

Figure 2.--Property map of the north part of the Blue Ledge, et al., Group of Claims, Siskiyou County, California, showing proposed exploration.

Jason

JASON EXPLORERS LTD. 775–555 Burrard Street, Vancouver 1, British Columbia (604) 684-2196

September 25, 1970

U.S. Geological Survey
345 Middlefield Road
Menlo Park, California
94025

Attention; Mr. Harold K. Stager

Dear Mr. Stager,

I am enclosing the data collected by Mr. Bill Blair on our behalf to support this application for assistance on our proposed diamond drilling program on the Blue Ledge property in Siskiyou county, California.

We have entered the docket No. on our new form 40 so that this will, I suppose, become a part of our original application.

Mr. Blair's letter of September 21st, 1970 to us is the basis of our proposal and we have used his selection of bids and his estimate figures exactly. It is also our desire to utilize Mr. Blair as the field supervisor for this program.

You will note that we are lacking one bank refusal, one diamond drilling bid and one bulldozer bid. These items have been solicited and are simply late in coming. We have, however, considered the figures in the case of the bids and the documentation for these unsuccessful bids will simply be a matter of form.

On Monday the writer will go to Seattle to investigate performance bonds - I believe this is something that will be necessary however your advice on this by letter next week would be appreciated. In the meantime we will be available to supply any additional information or documentation which may be helpful in hurrying along

2/. . . . .

RECEIVED

SEP 29 1970

OFFICE OF MINERALS EXPLORATION
U.S. GEOLOGICAL SURVEY
MENLO PARK, CALIF.

this application. You are aware of the weather problems in the higher elevations at the property and of course are aware of Mr. Blair's desire to commence the program as early as possible to avoid possible complications caused by an early snowfall.

We greatly appreciate the time you spent on the property and your continued interest in this program.

Very truly yours

JASON EXPLORERS LTD.

Walter L. Brewer

Walter L. Brewer
Vice President and Managing Director

WLB/mj

Jason Explorers Ltd. (N.P.L.)
Blue Ledge Mine
OME-6777 (Copper)

1. Will need new application Form 40 with revised estimated cost of proposed drilling project.

2. Applicant must furnish a performance bond and has indicated it will. Since the applicant is foreign controlled this will be necessary anyway.

3. [Need financial statement from Jason Explorers?]

4. Do not need L&S Agreements because applicant will furnish performance bond.

5. Have Jason Explorers restate how they propose to furnish their share of the money.

6. Legal will require new to & from bank letters reflecting revised downscaled estimated costs for new proposal - regardless of whether Jason Explorers or the banks like it or not.

Waiting for Stagers report

ME Form 7
2/63)

OFFICIAL FILE COPY

Date	Surname	Code
1/14/70	Emerick	120
		120
1/15	Cal	220
		120M

JAN 1 5 1970

AIRMAIL

Memorandum

To: Field Officer, Region II

From: Chief, Office of Minerals Exploration

Subject: OME-6777 (Copper-Silver)
Jason Explorers Ltd. (N.P.L.)
Blue Ledge Mine
Siskiyou County, California

In accordance with the Applicant's request of January 5, 1970 we are resuming the processing of his application for exploration assistance, and we are referring it to you for further study, a field examination if warranted when you are in the vicinity of the property on other field work of the program, and recommendations.

The information submitted with the application has been reviewed and appears complete, but the cost of the proposed exploration is beyond consideration under the present funding situation of the OME program. However, according to the Applicant's letter of July 25, 1969, he was not averse at that time to a greatly reduced exploration program. If a field examination indicates that a contract is warranted a modified program fitted to the future OME funding situation probably could be worked out with the Applicant.

The Applicant's proposed cost per foot for drifting and crosscutting is about twice the going rate for this type of work and would not be acceptable to OME.

Harold Kirkemo (gla)

Harold Kirkemo

cc: Director's Reading File
Mineral Resources File
OME Docket
OME Reading File
Mr. Emerick

WLEmerick/bsl 1/14/70

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
1/14/70	Emerick	120
		120
		220
		120M

JAN 15 1970

AIRMAIL

Mr. Walter L. Brewer
Vice President and Managing Director
Jason Explorers Ltd. (N.P.L.)
775-555 Burrard Street
Vancouver 1, British Columbia, Canada

Re: OME-6777 (Copper-Silver)
Jason Explorers Ltd. (N.P.L.)
Blue Ledge Mine
Siskiyou County, California

Dear Mr. Brewer:

This will acknowledge receipt of your letter of January 5, 1970 requesting that we retain your application for exploration assistance in an active status.

Accordingly, the application is now being referred to Mr. H. K. Stager, Field Officer, Region II, Office of Minerals Exploration, U. S. Geological Survey, Building 2, 345 Middlefield Road, Menlo Park, California 94025.

Mr. Stager will notify you if he requires additional information concerning the application. Further processing of the application will follow the action outlined in our letter to you dated January 2, 1970.

Sincerely yours,

Harold Kirkemo

Harold Kirkemo
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Mineral Resources File
OME Docket
OME Reading File
OME Region II
Mr. Emerick

WLEmerick/bsl 1/14/70

Jason

JASON EXPLORERS LTD. *775–555 Burrard Street, Vancouver 1, British Columbia (604) 684-2196*

January 5, 1970

OFFICIAL COPY
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Mr. Harold Kirkemo
Chief, Office of Minerals Exploration
United States Department of the Interior
Geological Survey
Washington, D. C. 20242

Dear Mr. Kirkemo:

Re: OME - 6777 (Copper)
Jason Explorers Ltd. (N. P. L.)
Blue Ledge Mine
Siskiyou County, California

Thank you for your letter on the above of January 2, 1970. We would appreciate retaining our application in the active status to be processed in due course.

During this past summer, we have conducted a detailed soil sampling program over two claims to the north of the known ore body which resulted in finding some strong CU-Zn. anomalous areas. We will probably drill these in the coming spring.

Yours very truly,

JASON EXPLORERS LTD. (N. P. L.)

J. D. Mason

J. D. Mason
President

Copy to R-II

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
1/1/70		120
		220
		120M

JAN 2 1970

AIRMAIL

Mr. Walter L. Brewer
Vice President and Managing Director
Jason Explorers, Ltd. (N.P.L.)
775-555 Burrard Street
Vancouver 1, British Columbia, Canada

Re: OME-6777 (Copper)
Jason Explorers Ltd. (N.P.L.)
Blue Ledge Mine
Siskiyou County, California

Dear Mr. Brewer:

We wrote you on July 29, 1969 to advise that our funding situation then precluded full consideration of your application for financial assistance to explore the Blue Ledge mine. In late November 1969 we learned that funds for contracting purposes in the fiscal year ending June 30, 1970, are sufficient for only a few new contracts. The extent of future contracting will depend on availability of funds.

Owing to curtailment of the program, the processing of applications is being delayed. Therefore, field examinations necessary to reach decisions on applications are being made largely in connection with other field work of the program. In due course of time we will inform you whether or not your application can be approved for a contract when funds are available. Priority on available funds will be given to approved applications offering the best opportunities for making significant discoveries.

Under these circumstances, should you wish to withdraw your application, please so advise. If you wish to keep your application in active status, we will process it as explained above.

We regret that this action is necessary, but under present funding circumstances we cannot offer better service at this time.

Sincerely yours,

Harold Kirkemo (glu)

Harold Kirkemo
Chief, Office of
Minerals Exploration

: Director's Reading File
Mineral Resources File
OME Docket
OME Reading File
OME Region II
Mr. Kirkemo

kemo/bsl 1/2/70

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
7/29/69	Emerick	120
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7/29	cal	220
		120M

AIRMAIL

JUL 29 1969

Mr. Walter L. Brewer
Vice President and Managing Director
Jason Explorers, Ltd. (N.P.L.)
775-555 Burrard Street
Vancouver 1, British Columbia, Canada

Re: OME-6777 (Copper)
Jason Explorers Ltd. (N.P.L.)
Blue Ledge Mine
Siskiyou County, California

Dear Mr. Brewer:

This letter is in reply to your inquiry dated July 25, 1969 in regard to our funding situation.

The situation as outlined to you over the telephone on April 28th, and in our letter dated April 30, 1969 remains unchanged. Recently we have postponed processing all applications received pending definite information regarding availability of funds for the fiscal year beginning July 1, 1969. Although appropriations have not yet been made for the current year, we understand that funds will be much less than were available for the year that ended June 30, and we are authorized to operate only at the level of the anticipated reduced funds. Under this situation action on pending applications must be postponed, as proposed contracts already drafted and awaiting execution will require more funds than are available. When we can again process new applications, first priority will be given those offering the best opportunities for making significant discoveries.

We regret that we cannot make a decision on your application at present and we are unable to estimate when we can be of possible assistance to you. However, as indicated in our letter of April 30, we will advise you should our funding situation change.

Sincerely yours,

Harold Kirkemo (gla)

Harold Kirkemo, Chief
Office of Minerals Exploration

cc: Director's Reading File
Mineral Resources File
OME Docket
OME Reading File
Region II w/cy of incoming ltr. dtd 7/25

WLEmerick/bsl 7/29/69

Jason

JASON EXPLORERS LTD. *775–555 Burrard Street, Vancouver 1, British Columbia (604) 684-2196*

July 25, 1969

OFFICIAL COPY
O. M. E.
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JUL 28 1969
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U.S. Department of the Interior
Geological Survey
Washington, D.C. 20242

Attention: Mr. Harold Kirkemo

Dear Mr. Kirkemo,

Blue Ledge Copper Mine
RE: OME-6777 (Copper)

Pursuant to your letter of April 30, 1969 and our telephone conversation we wish to enquire at this time if there is any further news on the availability of exploration funds regarding this programme in northern California. We are currently going ahead with rehabilitation of the workings but we would also like to know whether it may be possible for us to go ahead with a greatly reduced exploration programme which might be accommodated by funds available from the U.S. Government during this fiscal year. We would appreciate your reply outlining what your funding situation is at this time.

Sincerely yours,

JASON EXPLORERS LTD. (N.P.L.)

Walter L. Brewer

Walter L. Brewer
Vice President & Managing Director

Form 7
(63)

OFFICIAL FILE COPY

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AIRMAIL

APR 30 1969

Mr. Walter L. Brewer
Vice President and Managing Director
Jason Explorers, Ltd. (N.P.L.)
555 Burrard Street
Vancouver 1, British Columbia, Canada

Re: OME-6777 (Copper)
Jason Explorers Ltd. (N.P.L.)
Blue Ledge Mine
Siskiyou County, California

Dear Mr. Brewer:

This will acknowledge your letter of April 16, 1969, enclosing revised MME Form 40 and the statements to be attached to the property agreement between Jason and Transcontinental Resources, and to confirm our telephone conversation of April 28.

At the present time, OME funds for contract purposes are fully committed to current contracts and to applications previously approved. Consequently, we will be unable to consider offering another contract on present funds.

The extent of our contracting activities in the new fiscal year beginning July 1, 1969, depends upon the availability of newly appropriated funds. We expect a cut in appropriations but it is uncertain at this time the extent of this reduction, and we may not be informed of the final decision on this for several months. If the reduction is as much as expected it is unlikely that we could support a contract large enough to include all of the work proposed in your application. However, we will review your application for its technical aspects. Perhaps certain portions of the whole proposed project could be considered in lieu of the whole program at some future date.

Should our funding situation change, we will advise you.

cc: Director's Reading File
Economic Geology File
OME docket
OME Reading File
OME Region II w/ 3 enclosures
Mr. Kirkemo

HKirkemo/gla 4-29-69

Sincerely yours,

Harold Kirkemo (gla)

Harold Kirkemo
Chief, Office of
Minerals Exploration

Jason

JASON EXPLORERS LTD. *775–555 Burrard Street, Vancouver 1, British Columbia (604) 684-2196*

April 16, 1969

OFFICIAL COPY
O. M. E.
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Chief, Office of Minerals Exploration
U.S. Department of the Interior
Geological Survey
Washington, D.C. 20242, U.S.A.

left-hand side

Dear Sir,

RE: OME-6777 (Copper) Blue Ledge Copper Mines, Inc.
Blue Ledge Mine, Siskiyou County, California

We enclose our revised MME Form 40 for this application. In addition we enclose two signed and sealed statements to be attached to the Blue Ledge property agreement between Jason and Transcontinental Resources.

We are in touch with several bonding companies in the U.S. to lay the ground work to secure a performance bond acceptable to the OME in the event a contract is executed.

Sincerely yours,

JASON EXPLORERS LTD. (N.P.L.)

Walter L. Brewer

Walter L. Brewer
Vice President

Encls. (2)

Copy to Region II, with copy MME Form 40 and copy signed and sealed statement to attach to agreement

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
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		220

120M

APR 9 1969

Mr. Walter L. Brewer
Vice President and Managing Director
Jason Explorers, Ltd.
775-555 Burrard Street
Vancouver 1, British Columbia
Canada

Re: OME-6777 (Copper)
Blue Ledge Copper Mines, Inc.
Blue Ledge Mine
Siskiyou County, California

Dear Mr. Brewer:

This will acknowledge receipt of your letter of April 1, 1969, concerning a resubmittal by Jason Explorers, Ltd. of an application for exploration assistance in the Blue Ledge Mine. For this purpose application forms (MME Form 40) to be submitted in duplicate are enclosed for your use. Please refer to the above OME docket number in the new application.

It will not be necessary for you to repeat the bank letters or any pertinent factual or technical data already submitted. However, if the Memorandum of Agreement is to serve as a lease on the property to Jason Explorers, Ltd., it will be necessary, as pointed out in our letter of March 26, 1969, to submit with the application a document that is signed and sealed by all the parties signing the Memorandum of Agreement stating that it is still in force and effect and that none of the parties thereto are in default.

Because Jason Explorers, Ltd. is a Canadian corporation, we must also have assurance that the Applicant can post a performance bond with one of our domestic bonding companies in the amount of the Government's share of the contract, in the event an OME contract is executed. Surety or fidelity performance bonds of a type acceptable to OME, require nominal premium payments to maintain and can be obtained from many of the domestic insurance companies, examples of which are Aetna, Prudential, Hartford and Equitable, or from regular surety bonding companies.

Sincerely yours

Harold Kirkemo (glr)

Harold Kirkemo, Chief
Office of Minerals Exploration

4/9/69
WLEMerick/bsl

cc: Director's Reading File
Economic Geology File - Region II
OME Docket - OME Reading - Mr. Emerick

Jason

JASON EXPLORERS LTD. 775–555 Burrard Street, Vancouver 1, British Columbia (604) 684-2196

April 1, 1969

Copy to Region

OFFICIAL COPY
O. M. E.
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APR 7 1969
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U.S. Department of the Interior
Geological Survey
Washington, D.C. 20242

ATTENTION: Acting Chief
Office of Minerals Exploration

Dear Sir,

RE: OME - 6777 (Copper) Blue Ledge Copper Mines, Inc.
Blue Ledge Mine, Siskiyou County, California

With reference to your letter of March 26, 1969 would you kindly forward a supply of the necessary documents to resubmit the subject application for exploration assistance in the name of Jason Explorers Ltd.

The application previously submitted included two sets of bank letters both in the name of Jason Explorers Ltd. in which the banks have made it quite evident that they are in no way interested in financing mineral exploration. Since they are getting a bit edgy about doing this amount of paper work where there is no foreseeable business we would suggest that the letters currently with the application might be acceptable and that a restatement of their position for a third time would only be redundant.

Finally we would appreciate your comment as to what type or form of performance bond is acceptable upon execution of the OME contract.

Sincerely yours,

JASON EXPLORERS LTD. (N.P.L.)

Walter L. Brewer

Walter L. Brewer
Vice President and Managing Director

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
3/25/69	Emerick	120
		120
3/26	Lee	220
		120M

AIRMAIL

MAR 26 1969

Blue Ledge Copper Mines, Inc.
Suite 401
1033 Davie Street
Vancouver 5, British Columbia

Re: OME-6777 (Copper)
Blue Ledge Copper Mines, Inc.
Blue Ledge Mine
Siskiyou County, California

Gentlemen:

A preliminary review of your application for exploration assistance indicates that the application is not eligible for assistance as submitted because the Blue Ledge Copper Mines, Inc., as the Applicant, does not appear to have sufficient interest in the proposed project other than holding the land upon which the exploration is proposed. Furthermore, Jason Explorers, Ltd., will do all the work and contribute most of the financial support for the project, from which it will acquire a 75 percent interest in Blue Ledge Copper Mines, Inc. Thus, Jason Explorers, Ltd. is the real party in interest as well as in fact and not Blue Ledge Copper Mines, Inc.

To be eligible for exploration assistance a new application would have to be submitted by Jason Explorers, Ltd. The Memorandum of Agreement included in the present application could serve as a lease of the property, provided that Jason Explorers, Ltd. submits with its application a document signed and sealed by all the parties to the Agreement stating that it is still in full force and effect and that none of the parties thereto are in default.

It will be necessary also for Jason Explorers, Ltd., since they are a Canadian corporation, to post a performance bond with a domestic bonding company in the amount of the Government's share of a contract in the event an OME contract is executed.

If a new application is filed by Jason Explorers, Ltd., please refer to this OME docket number and furnish the information pertinent to the new proposal. This information should include new bank letters but need not repeat data already submitted.

Sincerely yours,

Harold Kirkemo

Harold Kirkemo
Acting Chief
Office of Minerals Exploration

cc: Director's Reading File
Economic Geology File
OME Docket OME Reading File R-II

Mr. Emerick/bsl 3/25/69

MME FORM 6 REFERENCE SLIP

REV. 2-59 OFFICE OF MINERALS EXPLORATION

TO:	DATE	INITIALS
1. ~~Asso.Sol.--MR,~~ Rm. ~~6554~~ ~~Interior~~ Bldg. Through Room 6042		
2. Mr. Emerick, Rm. 4460 Interior Bldg.		
3.		
4. 6		
5.		
FROM: Acting Chief, OME	3/13/69	

FOR: Check items for action desired

____ Action ____ Reply for signature of ____

____ Approval ____ Investigate ____ Surname

____ Comment ___x___ Recommendations ____ Signature

____ Conference ____ Rewrite ____ File

____ Instructions ____ Your information ____

REMARKS:

OME-6777 (Copper)
Blue Ledge Copper Mines, Inc.

INT.-DUP. SEC., WASH., D.C. M56300-62

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF THE SOLICITOR
WASHINGTON, D.C. 20240

March 20, 1969

Memorandum

To: Assistant Chief, Office of Minerals Exploration

From: Assistant Solicitor, Oil and Gas and Minerals Exploration

Subject: Ome-6777 (Copper)
Blue Ledge Copper Mines, Inc.
Blue Ledge Mine
Siskiyou County, California

In response to your memorandum of March 13, 1969, concerning the eligibility of the above-named applicant for OME assistance, we feel that the applicant's interest in the project is insufficient and that a new application must be submitted by Jason, Explorers, Ltd. It appears from the file that the present applicant, Blue Ledge, is merely a paper corporation created solely for the purpose of holding the land on which the exploration project is proposed. It further appears that all of the work and most of the financial support for the project would come from Jason, which would acquire 75% of Blue Ledge if the terms of the Memorandum of Agreement dated July 3, 1968, which appears in the file, are carried out. Thus the real party in interest is Jason, not Blue Ledge, the present applicant.

Accordingly in our opinion, under the circumstances existing to date any application should be submitted by Jason. The Memorandum of Agreement could serve as a lease of the property provided that Jason submits a document signed and sealed by all of the parties to the Agreement stating that it is still in full force and effect and that none of the parties thereto are in default.

Since Jason is a foreign corporation a performance bond securing the payment of royalties will also be necessary.

Robert W. Long

Robert W. Long
Assistant Solicitor
Oil and Gas and Minerals Exploration

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
3/13/69		120
		220
		140
		120M

March 13, 1969

Memorandum

To: Assistant Solicitor, Oil and Gas and Minerals Exploration

From: Acting Chief, Office of Minerals Exploration

Subject: CMX-6777 (Copper)
Blue Ledge Copper Mines, Inc.
Blue Ledge Mine
Siskiyou County, California

This application was submitted by Blue Ledge Copper Mines, Inc., a California corporation and wholly-owned subsidiary of Transcontinental Resources, Ltd., which is a Canadian corporation. Blue Ledge Copper Mines, Inc., owns the property in California for which the exploration assistance is requested. A second Canadian corporation, Jason Explorers, Ltd., under an agreement with the above corporation will furnish the Applicant's share of the exploration money in return for a controlling interest in Blue Ledge and, therefore, applied for the bank loans.

Before proceeding further with our review of the application, we would appreciate your comments regarding the eligibility of the application as set up. Your advice on any additional information we should request from the Applicant regarding eligibility will also be appreciated.

William L. Emerick

W. L. Emerick
For: Harold Kirkemo

Enclosures

cc: Director's Reading File
Economic Geology File
OME docket
OME Reading File
Mr. Emerick

WLEmerick/gla 3-13-69

$91.67/FT IS ABOUT TWICE THE GOING RATE FOR DRIFTING & CROSSCUTTING

3600' @ $45/FT = $162,000

$162,000 @ 62½% = $101,250

TOO MUCH FOR OME TO HANDLE UNDER PRESENT FUNDS.

OME – 6777 (Copper-...

PROPOSED EXPLORATION PROGRAM

(a)	3600' X CUTTING & DRIFTING @ $91.67/ft	– $330,013
(b)	460' RAISING @ $90.09/ft	– 41,444
(c)	7500' LINER DRILLING @ $3.44/ft.	– 25,834
(d)	1000' DIAMOND DRILLING @ $6.00/ft.	– 6,000
	TOTAL	$ 403,291

(a)	$330,013 @ 62½%	– $206,258
(b)	41,444 @ 62½%	– 25,903
(c)	25,834 @ 62½%	– 16,146
(d)	6,000 @ 62½%	– 3,750
	TOTAL	– $252,057

UNDER EXISTING FUNDING OME MIGHT PARTICIPATE IF PROPERTY WARRANTS IT IN A MODIFIED PROGRAM CONSISTING OF:

A COMBINATION OF:

(b) AND (c) $25,903
16,146
$42,049

OR A COMBINATION OF:

(b), (c), AND (d) $25,903
16,146
3,750
$ 45,799

March 5, 1969

Blue Ledge Copper Mines Inc.
Suite 401
1033 Davie Street
Vancouver 5, British Columbia

Subject: OME-6777

Gentlemen:

Your application for exploration assistance, dated February 14, 1969, submitted to our office at Menlo Park, California, has been assigned Docket Number OME-6777.

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

Sincerely yours,

W. L. Emerick
For: Harold Kirkemo
Acting Chief
Office of Minerals Exploration

Copy for R-II
Two extra copies of the appln. were enclosed.

MME Form 40
Jan. 65

Budget Bureau No. 42-R1508
Approval expires Dec. 31, 1968

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

OFFICIAL COPY
RECEIVED
M. E.
MAR 5 1969
INITIALS CODE

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.)*

BLUE LEDGE COPPER MINES INC.

Suite 401, 1033 Davie Street,
Vancouver 5, British Columbia

APPLICANT DO NOT USE THIS BLOCK

DOCKET NUMBER: 6777

DATE RECEIVED: 3/5/69

REGION: 11

DIVISION CODE:

BUSINESS ORGANIZATION *(Check one)*

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

STATE IN WHICH FIRM IS ORGANIZED: California

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

NAME	ADDRESS	TITLE
W. B. Milner	2890 S.W.Marine Drive, Vancouver, B.C.	President
L. G. White	704 Parkside Road, West Vancouver, B.C.	Vice-Pres.
D. E. Betchley	1309 West 14th Avenue, Vancouver, B.C.	Secretary
F. W. Schroeder	716 West 66th Avenue, Vancouver, B.C.	Treasurer

MINERAL(S) FOR WHICH YOU WISH TO EXPLORE: Copper, Silver

ESTIMATED COST OF PROJECT: $ 403,291.00

PROPERTY NAME	LOCATION COUNTY	LOCATION STATE
Blue Ledge Mine	Siskiyou	California

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. III). 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 Office of Minerals Exploration, Department of the Interior,* ~~Washington, D. C., or with the nearest OME Field Office.~~ 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.

BLUE LEDGE COPPER MINES INCORPORATED

February ~~15~~ 14, 1969
DATED

BY *(Signature)* [signature] Director

[signature] Secretary
TITLE

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.

MME Form 40
Jan. 65

Budget Bureau No. 42-R1506
Approval expires Dec. 31, 1968

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.)*

BLUE LEDGE COPPER MINES INC.
Suite 401, 1033 Davie Street,
Vancouver 5, British Columbia

APPLICANT DO NOT USE THIS BLOCK

DOCKET NUMBER

DATE RECEIVED

REGION

DIVISION CODE

BUSINESS ORGANIZATION *(Check one)*

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

STATE IN WHICH FIRM IS ORGANIZED California

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

NAME	ADDRESS	TITLE
W. B. Milner	2890 S.W.Marine Drive, Vancouver, B.C.	President
L. G. White	704 Parkside Road, West Vancouver, B.C.	Vice-Pres.
D. E. Betchley	1309 West 14th Avenue, Vancouver, B.C.	Secretary
F. W. Schroeder	716 West 66th Avenue, Vancouver, B.C.	Treasurer

MINERAL(S) FOR WHICH YOU WISH TO EXPLORE
Copper, Silver

ESTIMATED COST OF PROJECT
$ 403,291.00

PROPERTY NAME	LOCATION COUNTY	STATE
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BLUE LEDGE COPPER MINES INCORPORATED

February ~~15~~ 14, 1969
DATED

BY *(Signature)* [signature] Director
D E Betchley Secretary
TITLE

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 true copies of correspondence which show: (1) date of loan request, (2) amount and terms requested, (3) proposed use of loan funds, and (4) the 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 on MME Form 52. If the agreements cannot be obtained, state reasons and provide copies of letters of refusal.

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 and sampling methods used. Support your statement with copies of assay certificates and assay maps if available.

(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) State your reasons for expecting to find ore, and 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.

(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 and address 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 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 cost 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.

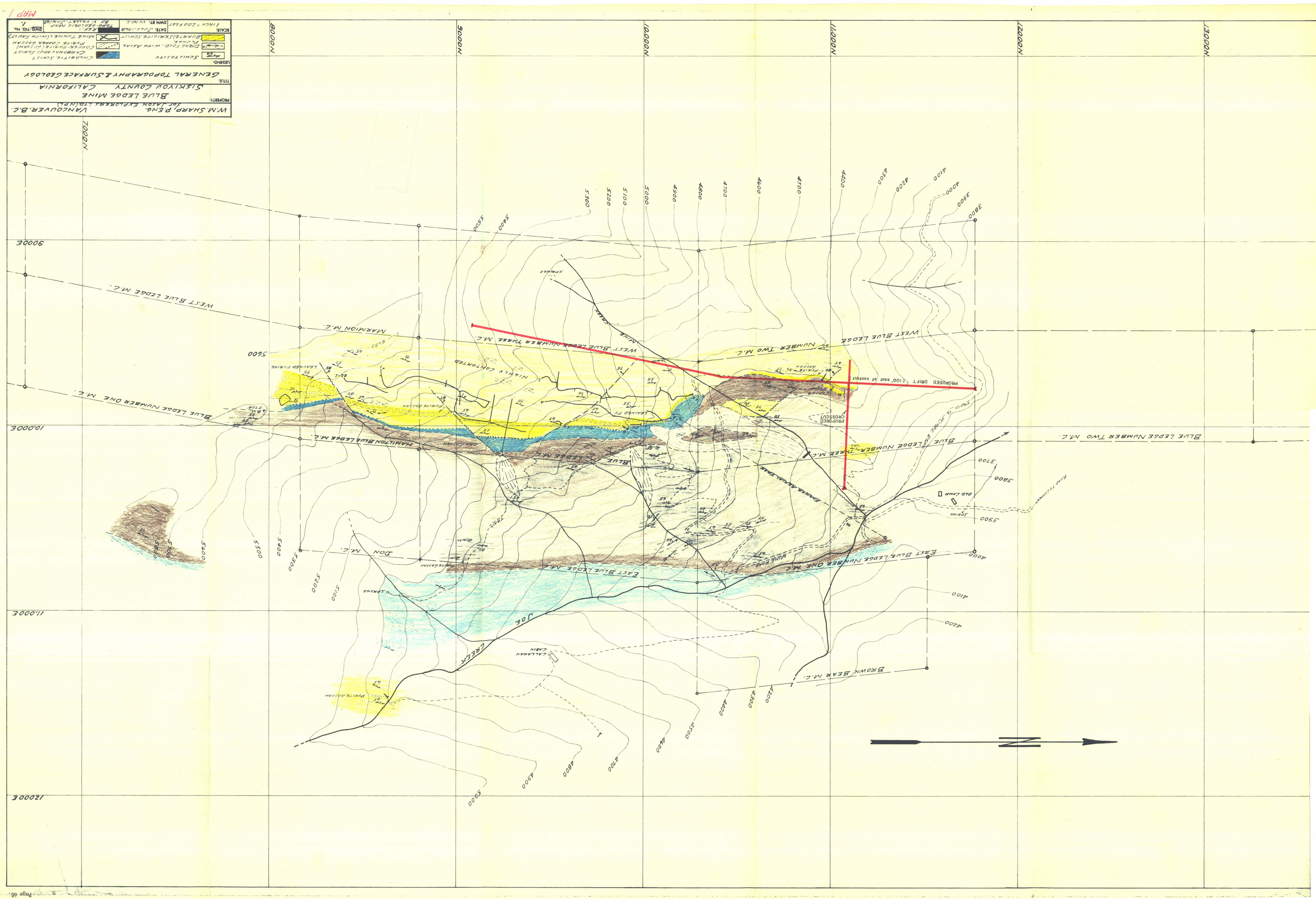
(f) New buildings, fixtures, installations. Describe each building, fixed improvement, and installation to be purchased, constructed, or installed for the exploration work, stating specifications and cost including labor, materials, and supervision.

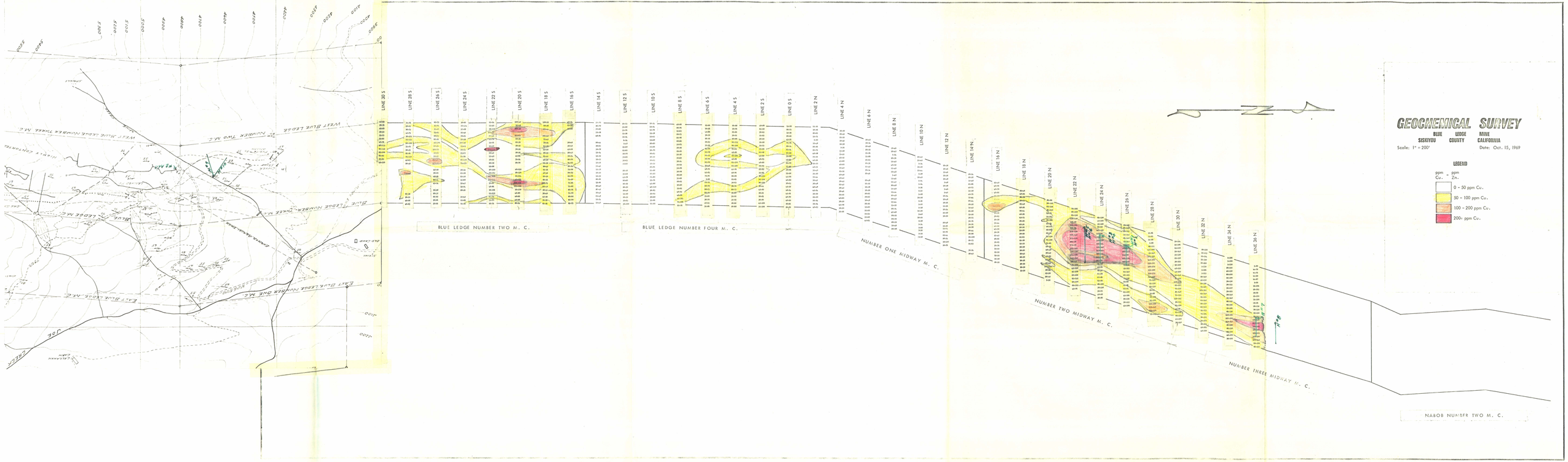
(g) Miscellaneous. Describe the type and estimate the cost of repairs and maintenance of the operating equipment listed in 7(d). Do not repeat initial repairs listed in 7(e). Show also the costs of analytical work, accounting, workmen's compensation and employees' liability insurance, payroll taxes, 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).]

INT.-DUP. SEC., WASH., D.C

Blue Ledge Copper Mines Incorporated
1170 Bentall Centre, 505 Burrard Street
Vancouver 1, B.C., Canada

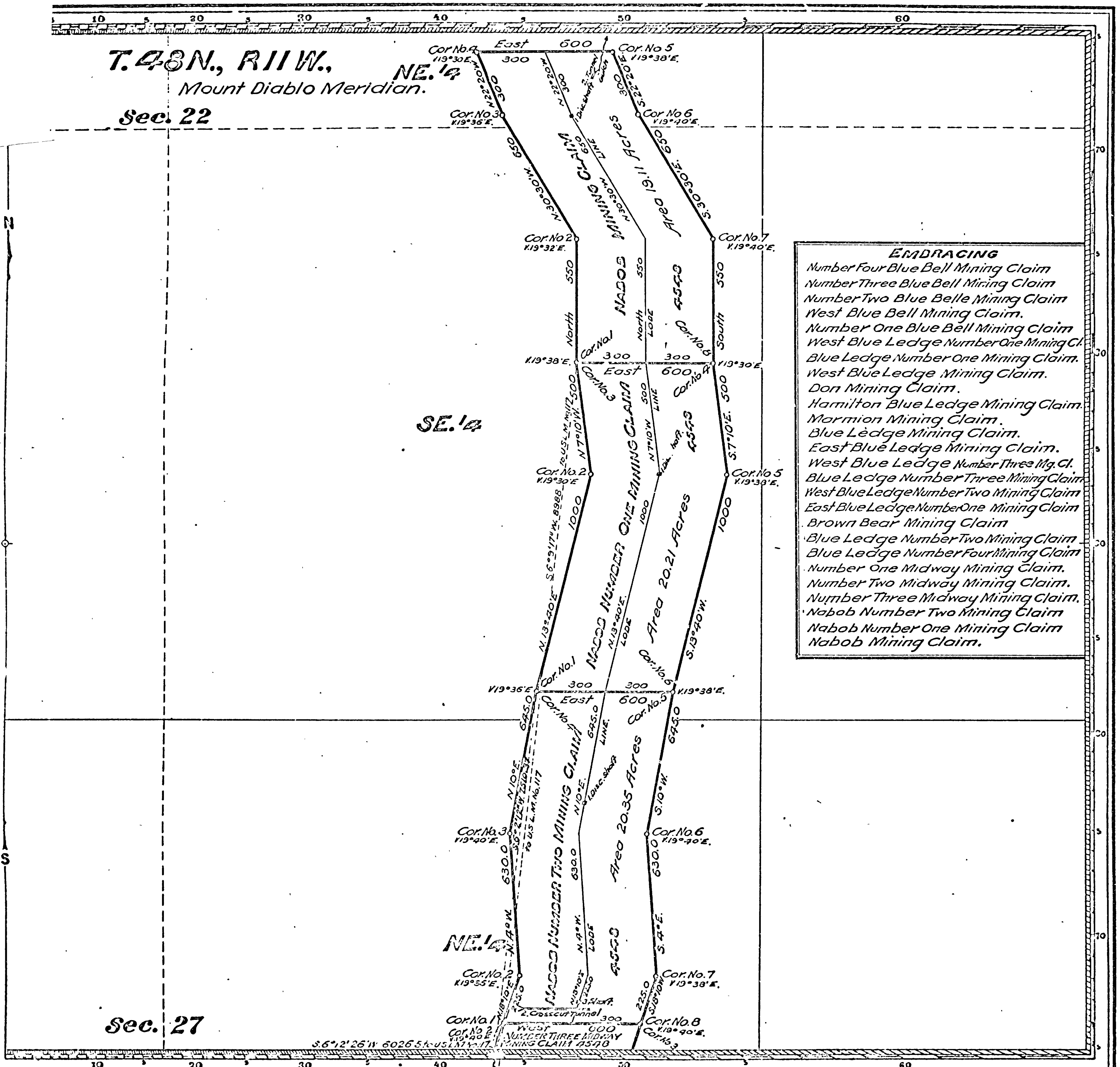
Enclosed two copies MME Form 40 and five copies of MME Form 52


W.M.SHARP, P.ENG. VANCOUVER, B.C.
for JAPAN EXPLORERS LTD(NPL)
PROPERTY:
BLUE LEDGE MINE
SISKIYOU COUNTY CALIFORNIA
TITLE:
GENERAL TOPOGRAPHY & SURFACE GEOLOGY
LEGEND:
SCHISTOSITY
DRAG FOLD, WITH AXIAL PLANE
(QUARTZ) SERICITE SCHIST
CHLORITIC SCHIST
CARBONACEOUS SCHIST
COPPER-PYRITE (COLIBAN)
PYRITE (COPPER GOSSAN)
MINE TUNNEL (WITH FAULT)
SCALE: 1 INCH = 200 FEET
DATE: JULY 1968
DWN BY: W.M.S.
REF.: TOPO-GEOLOGIC MAP BY VYNALLET/WMS
DWG/FIG. No. 1.
MAP 1
BLUE LEDGE NUMBER ONE M.C.
BLUE LEDGE NUMBER TWO M.C.
WEST BLUE LEDGE M.C.
WEST BLUE LEDGE NUMBER TWO M.C.
WEST BLUE LEDGE NUMBER THREE M.C.
BLUE LEDGE NUMBER THREE M.C.
HAMILTON BLUE LEDGE M.C.
MARMION M.C.
DON M.C.
EAST BLUE LEDGE M.C.
EAST BLUE LEDGE NUMBER ONE M.C.
BROWN BEAR M.C.
PROPOSED DRIFT (100' east of contact)
PROPOSED CROSSCUT
HIGHLY CONTORTED
PYRITE GOSSAN
LEACHED PYRITE
COPPER GOSSAN
SPRINGS
OLD CAMP
CALLAHAN CABIN
JOE CREEK
ROAD TO LOWAKE
N 10000
N 9000
N 8000
N 7000
N 11000
N 12000
N 13000
9000E
10,000E
11,000E
12000E


GEOCHEMICAL SURVEY
BLUE LEDGE MINE
SISKIYOU COUNTY CALIFORNIA
Scale: 1" = 200'
Date: Oct. 15, 1969
LEGEND
ppm Cu. ppm Zn.
0 - 50 ppm Cu.
50 - 100 ppm Cu.
100 - 200 ppm Cu.
200+ ppm Cu.
BLUE LEDGE NUMBER TWO M. C.
BLUE LEDGE NUMBER FOUR M. C.
NUMBER ONE MIDWAY M. C.
NUMBER TWO MIDWAY M. C.
NUMBER THREE MIDWAY M. C.
NABOB NUMBER TWO M. C.
LINE 30 S
LINE 28 S
LINE 26 S
LINE 24 S
LINE 22 S
LINE 20 S
LINE 18 S
LINE 16 S
LINE 14 S
LINE 12 S
LINE 10 S
LINE 8 S
LINE 6 S
LINE 4 S
LINE 2 S
LINE 0 S
LINE 2 N
LINE 4 N
LINE 6 N
LINE 8 N
LINE 10 N
LINE 12 N
LINE 14 N
LINE 16 N
LINE 18 N
LINE 20 N
LINE 22 N
LINE 24 N
LINE 26 N
LINE 28 N
LINE 30 N
LINE 32 N
LINE 34 N
LINE 36 N
WEST BLUE LEDGE NUMBER TWO M.C.
WEST BLUE LEDGE NUMBER THREE M.C.
BLUE LEDGE NUMBER ONE M.C.
BLUE LEDGE M.C.
EAST BLUE LEDGE NUMBER ONE M.C.
EAST BLUE LEDGE M.C.
DOE CREEK
SALMON LAKE
DEL CHAR
ELKINS
SHASTA CONTINENTAL
SHASTA

(4-675)

Patented January 8 1912
S#0253 P#24090



Claims Located August 10, (Amended). 1907

Mineral Survey No 4548

Amended Application for survey dated August 20, 1907.

Lot No

Eureka. Land District.

PLAT

OF THE CLAIM OF

ROBERT S. TOWNE.

KNOWN AS THE

BLUE LEDGE CONSOLIDATED QUARTZ LODE MINING CLAIM

Embracing - See table oppsite

IN No organized MINING DISTRICT,

Siskiyou COUNTY, California.

Containing an Area of 487.18 Acres.

Scale of 400 Feet to the inch.

Variation.

SURVEYED September October 1907 BY

Roy L. Cooper, U.S. Mineral Surveyor,

The Original Field Notes of the Survey of the Mining Claim of Robert S. Towne known as the Blue Ledge Consolidated Quartz Lode Mining Claim from which this plat has been made under my direction, have been examined and approved, and are on file in this Office; and I hereby certify that they furnish such an accurate description of said Mining Claim as will, if incorporated into a patent, serve fully to identify the premises, and that such reference is made therein to natural objects or permanent monuments as will perpetuate and fix the locus thereof.

I further certify that Five Hundred Dollars worth of labor has been expended or improvements made upon said Mining Claim or for each location embraced in by claimant or his grantors, and that said improvements consist of 25 shafts $1240: 2 Cuts $120; 9 Tunnels $77,220; 7 Drifts $36,050: 31 Cross cut Tunnels $23 440; 11 Winzes $28,660; 1 Upraise $1700.

that the location of said improvements is correctly shown upon this plat, and that no portion of said labor or improvements has been included in the estimate of expenditures upon any other claim.

And I further certify that this is a correct plat of said Mining Claim made in conformity with said original field notes of the survey thereof, and the same is hereby approved.

U.S. Surveyor General's Office. W. S. Graham

San Francisco, California, U.S. Surveyor General for

August 3, 1908) California.

SHEET No. 6.

VOL. 131-2

703991

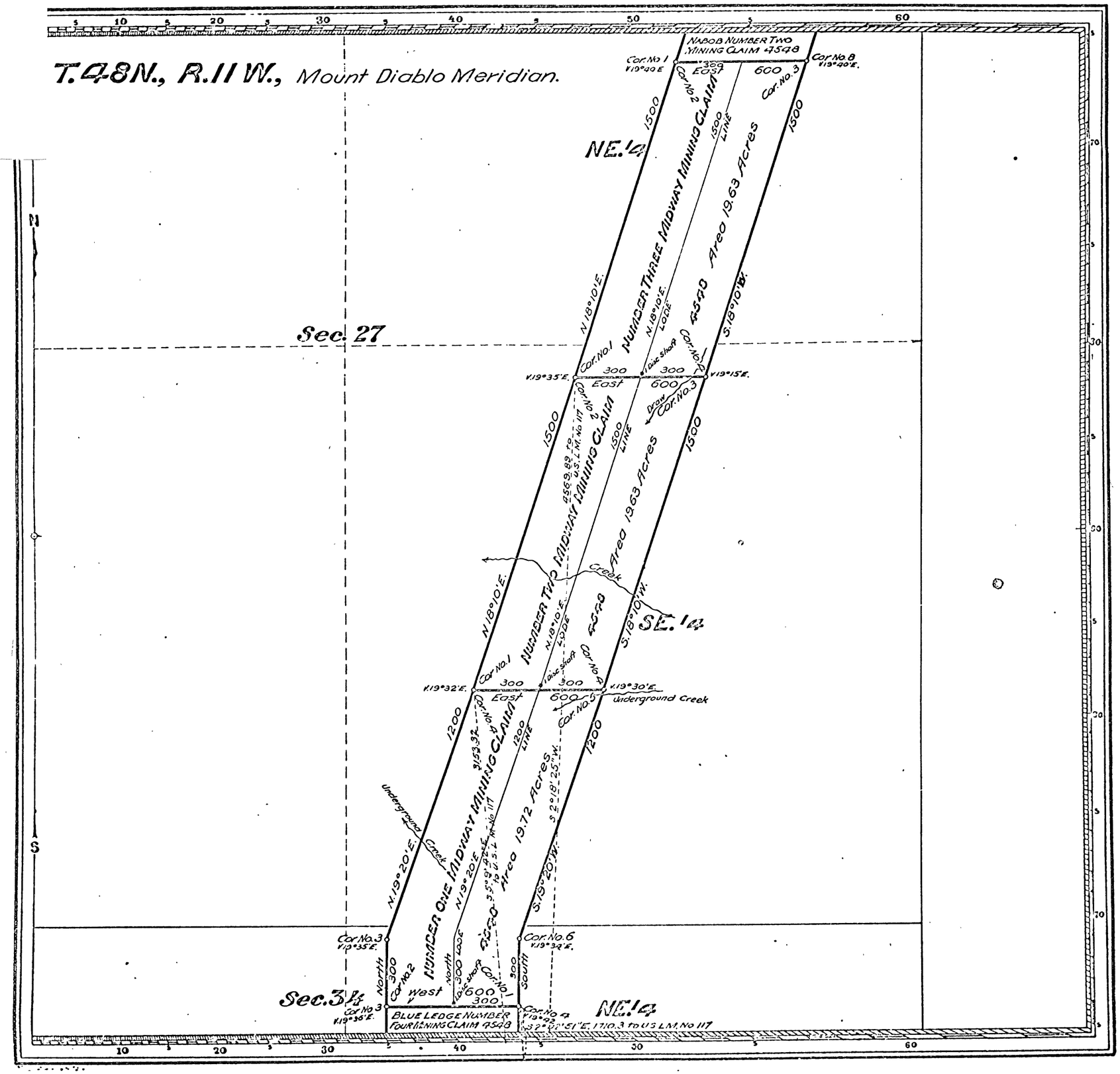
4548

4548

(4-675)

Patented January 5, 1912.

See Sheet No. 6 for Certificate



Claim Located .190

Mineral Survey No.

L.O.T. No.

Land District.

PLAT

OF THE CLAIM OF

KNOWN AS THE

IN MINING DISTRICT,

COUNTY,

Containing an Area of Acres.

Scale of feet to the inch.

Variation

SURVEYED .190 BY

, U.S. Mineral Surveyor.

The Original Field Notes of the Survey of the Mining Claim of

known as the

from which this plat has been made under my direction have been examined and approved, and are on file in this Office, and I hereby certify that they furnish such an accurate description of said Mining Claim as will, if incorporated into a patent, serve fully to identify the premises, and that such reference is made therein to natural objects or permanent monuments as will perpetuate, and fix the locus thereof.

I further certify that Five Hundred Dollars worth of labor has been expended or improvements made upon said Mining Claim by claimant or grantors, and that said improvements consist of

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U.S. Surveyor General's Office.

, .190.

U.S. Surveyor General for

SHEET No. 5.

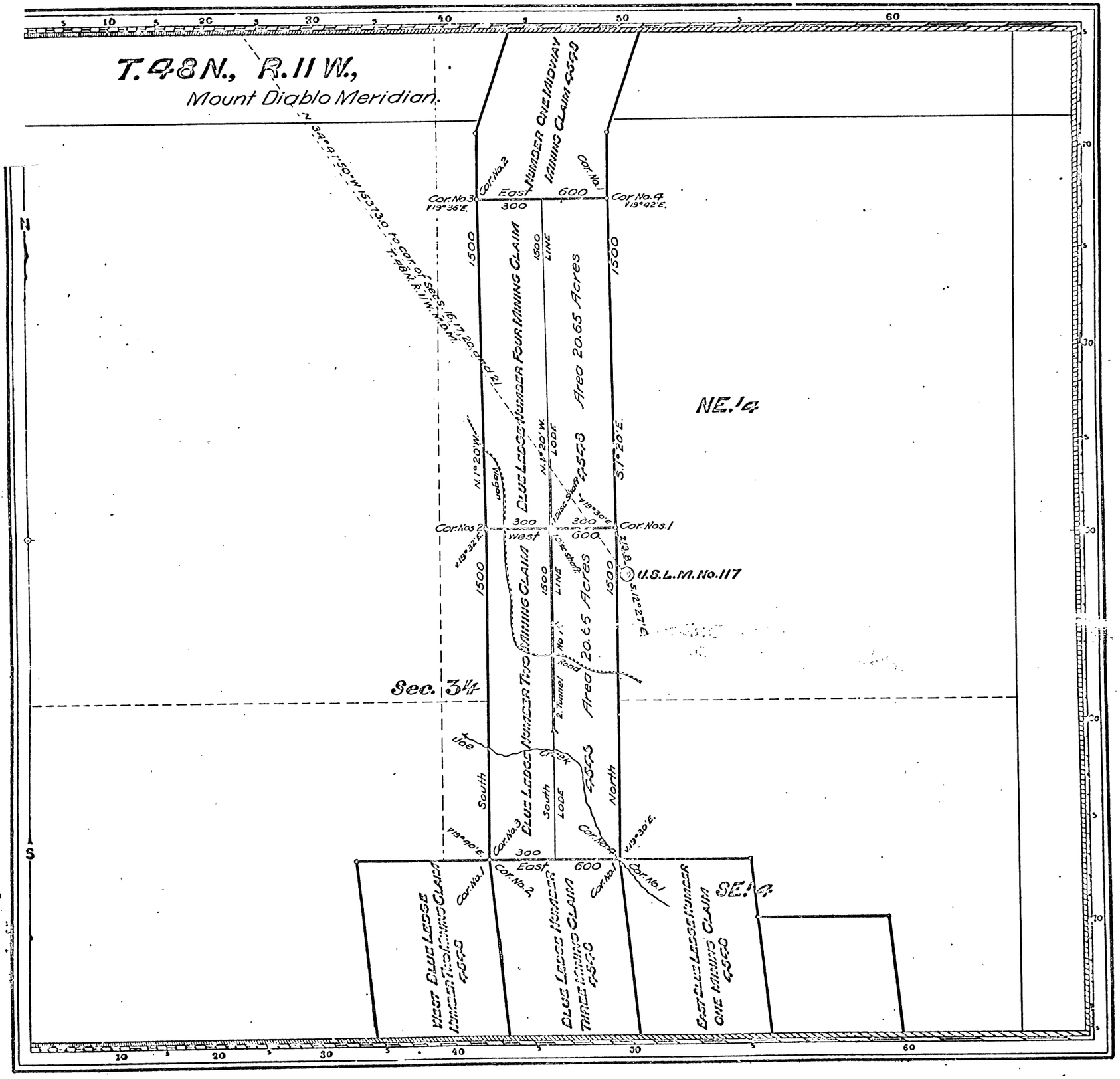
703990

45

Orig

(4-675)

Patented January 8, 1912
See Sheet No. 6 for Certificate



Claim Located ,190

Mineral Survey No.

Lot No.

Land District.

PLAT

OF THE CLAIM OF

KNOWN AS THE

IN MINING DISTRICT,

COUNTY,

Containing an Area of Acres.

Scale of Feet to the inch.

Variation

SURVEYED ,190 BY

, U.S. Mineral Surveyor,

The Original Field Notes of the Survey of the Mining Claim of

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U.S. Surveyor General's Office.

,190

U.S. Surveyor General for

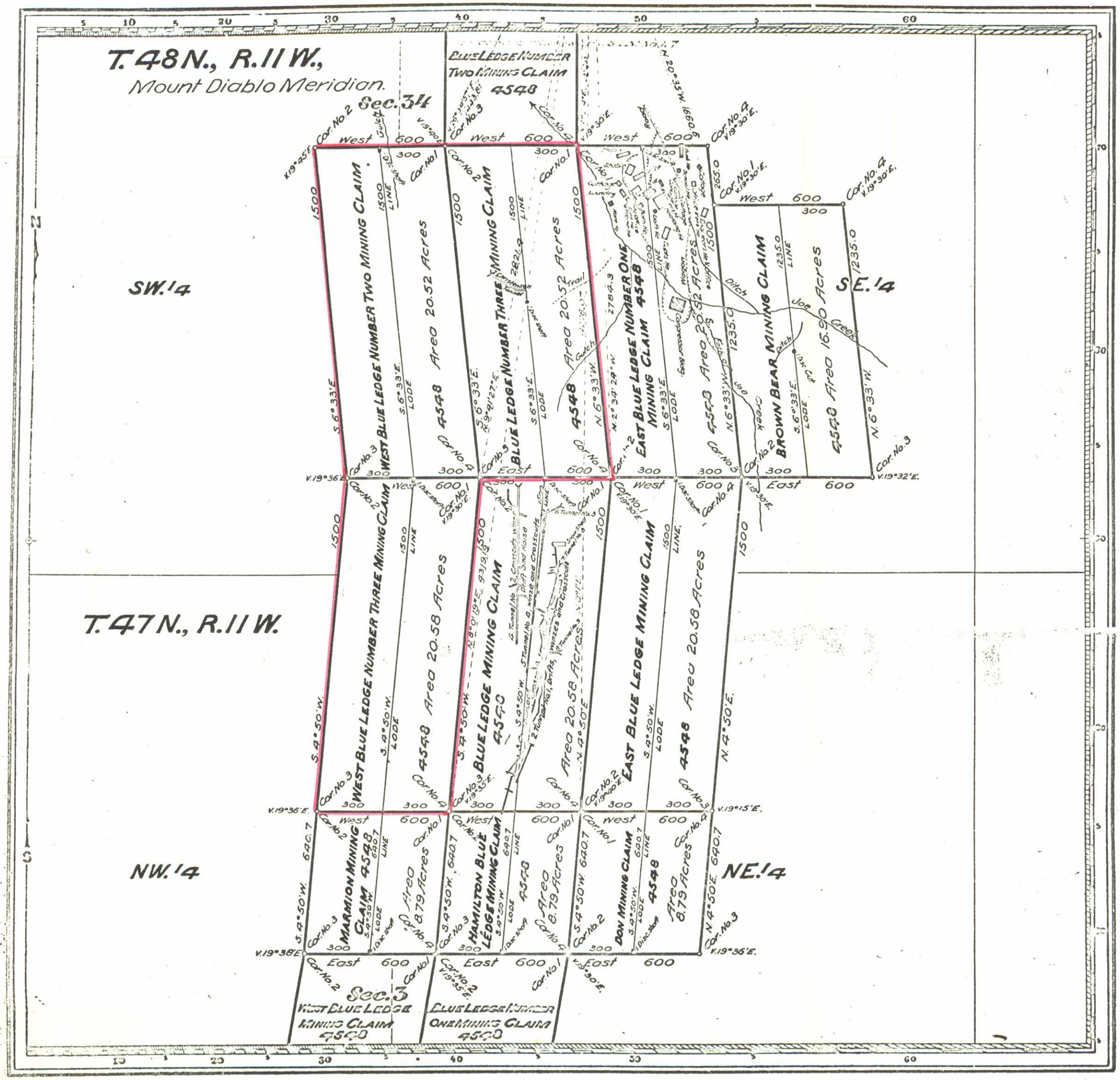
SHEET No. 4

703980

(4-675)

Patented January 5, 1903

See Sheet No. 6 for Cerificate.



Claim Located 190

Mineral Survey No.

L.O.T. No.

Land District.

PLAT

OF THE CLAIM OF

KNOWN AS THE

IN MINING DISTRICT,

COUNTY,

Containing an Area of Acres.

Scale of Feet to the inch.

Variation

SURVEYED .....190 BY

,

U.S. Mineral Surveyor,

The Original Field Notes of the Survey of the Mining Claim of

known as the

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U.S. Surveyor General's Office.

.....,190

U.S. Surveyor General for

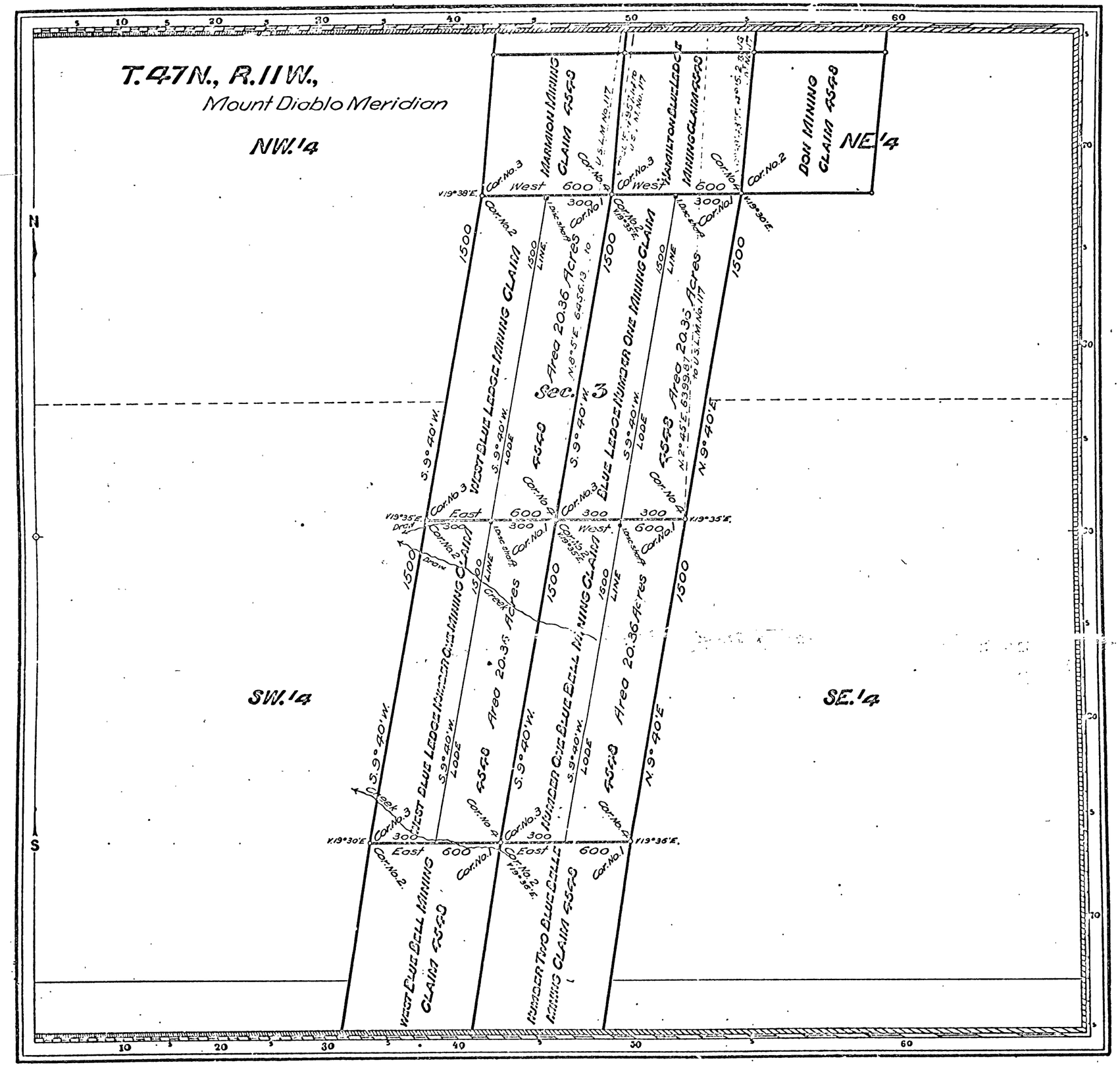
SHEET No. 3

703983

(4-675)

Patented January

See Sheet No. 6 for Certificate



Claim Located ,190

Mineral Survey No.

L.O.T. No.

Land District.

PLAT

OF THE CLAIM OF

KNOWN AS THE

IN MINING DISTRICT,

COUNTY,

Containing an Area of Acres.

Scale of Feet to the inch.

Variation

SURVEYED ,190 BY

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U.S. Mineral Surveyor,

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known as the

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U.S. Surveyor General's Office.

U.S. Surveyor General for

,190

SHEET No. 2

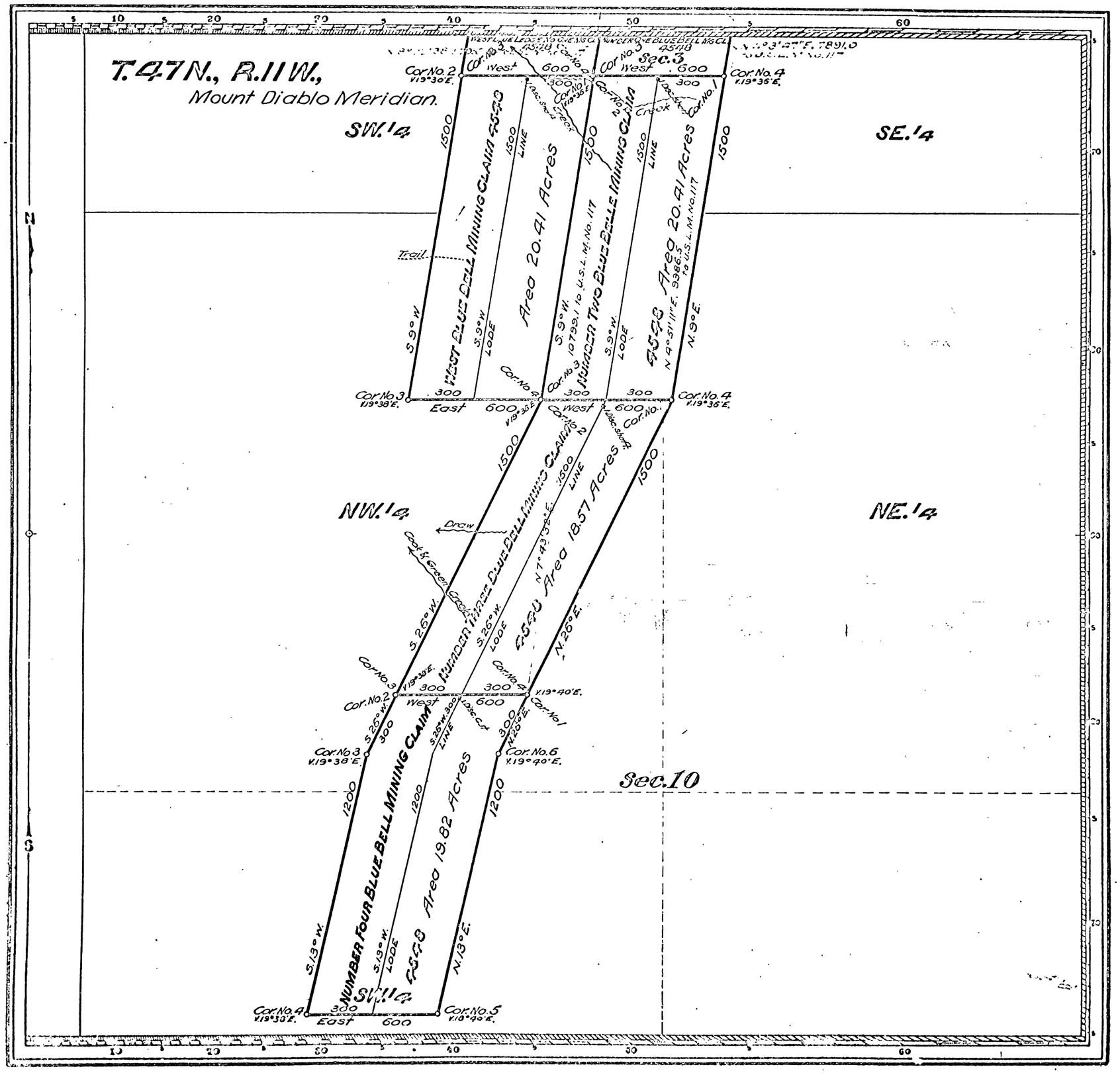
703987

4.

(4-675)

Patented

See Sheet No. 6 for certificate.



Claim Located ,190

Mineral Survey No

Lot No

Land District.

PLAT

OF THE CLAIM OF

KNOWN AS THE

IN MINING DISTRICT,

COUNTY,

Containing an Area of Acres.

Scale of Feet to the inch.

Variation

SURVEYED ,190 BY

U.S. Mineral Surveyor,

The Original Field Notes of the Survey of the Mining Claim of

known as the

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U.S. Surveyor General's Office ,190

U.S. Surveyor General for

SHEET No. 1

703986