224 New Customhouse
Denver 2, Colorado

July 16, 1952

Memorandum

To: Acting Administrator, Defense Minerals Exploration Administration, Attention: 210

From: Field Team, Region IV

Subject: Final Report, DMA Docket 1779X, (Lead-Zinc) Burke Martin Mines, Summit County, Colorado

Enclosed are four copies of the final report on DMA-1779X.

The applicant was unable to obtain landlords subordination agreements and requested cancellation of his application.

W. H. King
W. H. King

Donald R. Macharen
for
A. N. Koschmann

Enclosures

HMC:oc

cc: Subject
Chron.
Koschmann (2)

224 New Customhouse
Denver 2, Colorado

June 25, 1952

Mr. Thomas E. Martin
Montezuma Road
Dillon, Colorado

Dear Mr. Martin:

At a conference in this office on October 31, 1951, we requested you to obtain copies of your leases and signed copies of Landlord's Subordination Agreements pertaining to your application for exploration assistance, Docket DMA 1779X.

Since we have not heard from you we take it to mean that you are no longer interested in this project and have placed your application in our inactive file.

Yours very truly,

W. H. King

W. H. King
Executive Officer
FieldTeam, Region IV

JFS:ld

cc: Docket, chron.
Koschmann
Traver

224 New Customhouse
Denver 2, Colorado

June 25, 1952

Memorandum

To: C. C. Mittendorf, Acting Administrator
Defense Minerals Exploration Administration

From: Executive Officer, Field Team, Region IV

Subject: Docket DMA 1779K, Burke-Martin Zinc-Lead Mines, Summit County, Colorado

Mr. Martin has not delivered copies of his leases or signed copies of Landlord's Subordination Agreement, Form MF-202. Therefore, we have notified him that his application has been cancelled and placed in our inactive file.

W. H. King
W. H. King

JWS:ld

cc: Docket, chron.
Boodmann
Storms

Awaiting copies of leases and

MF 202 Conf. with applicant 10-31-51

MF-200
(June 1951)

Docket No. DMA 1779X

Commodity _____

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

EXPLORATION PROJECT CONTRACT [1]

It is agreed this _____ day of _____, 195__, between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and [2] _____

Beeler-Martin Mines

hereinafter called the "Operator," as follows:

1. *Authority for contract.* This agreement is entered into under the authority of the Defense Production Act of 1950, pursuant to Mineral Order 5, entitled "Regulations Governing Government Aid in Defense Exploration Projects."

2. *Operator's property rights.* The exploration project shall be conducted on that certain property situated in the State of _____, County of _____ described as follows: [3] _____

with respect to which the Operator represents and undertakes: [4]

(*a*) That he is the sole owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached: _____

(*b*) That he is a lessee, in possession and entitled to possession, and the subordination agreement of the lessor is attached.

3. *Exploration project.* The Operator, within _____ days from the date of this contract shall commence work on a project of exploration for [5] _____; shall prosecute the work efficiently, expertly, in a workmanlike manner, in accordance with good mining standards, with suitable and adequate equipment, materials, and labor, all properly designed to bring the project to completion within a period of [6] _____ from the date of this contract. The exploration project and the work to be performed are more fully described on Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, is made a part of this contract.

4. *Performance of the work.* The work shall be performed by the Operator, under his sole direction and control: *Provided,* That with the consent of the Government and its written approval of the contract or contracts, all or any part of the work may be performed by the Operator through contract or contracts with independent contractors. The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

5. *Fixtures and improvements.* The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof. Any additional facilities, buildings, and fixtures, to be purchased, installed, or erected by the Operator, with the estimated cost of each, to which the Government will contribute currently its agreed pro rata share, are listed in Exhibit "A" attached hereto. The difference between the cost of such additional facilities, buildings, or fixtures, and the salvage value thereof at the conclusion of the work, shall be charged as a cost of the project to which the Government has contributed its pro rata share.

6. *Operating equipment.* Any operating equipment to be rented, purchased, or furnished by the Operator, with the allowable rental, purchase price, or depreciation, as the case may be, is listed under appropriate headings in Exhibit "A" attached hereto. As to equipment purchased for the project, the Government will contribute its agreed pro rata share of the cost thereof, and the difference between the cost and the salvage value at the conclusion of the work shall be charged as a cost of the project to which the Government has contributed its pro rata share.

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] State name, address, and nature of organization if any.
[3] Give legal description or enough to identify the property.
[4] Strike out the provision not applicable.
[5] Name of mineral.
[6] Not in excess of 2 years.

7. *Title to and disposition of property.* All facilities, buildings, fixtures, equipment, or other items costing more than $50 each, paid for or purchased with funds contributed jointly by the Operator and the Government, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the termination of the contract, if they have any salvage value, shall be disposed of for their joint account unless the Government, in writing, waives its interest in any such items. The Government may require the dismantling, severance from land, and removal of any such items in order to realize its interest in the salvage value thereof, and the cost of any such removal and of the disposal of the items shall be for the joint account of the parties in proportion to their respective interests.

8. *Labor and supervision.* An itemized schedule of labor, by numbers and classes (miners, muckers, millmen, etc.), and of supervisors, by numbers and positions, with the maximum wages or salaries that may be paid to each as an allowable cost of the project is set forth in Exhibit "A" attached hereto.

9. *Rehabilitation and repairs.* A statement of the cost of any necessary rehabilitation or repairs to put existing facilities, buildings, installations, and fixtures into useful and operable condition and which are to be allowed as costs of the project is included in Exhibit "A."

10. *Allowable costs of the project.* The costs of the project in which the Government will participate are limited to the necessary, reasonable, direct costs of performing the exploration work, including the costs of materials, supplies, engineering, power, water, analytical work, accounting, and utilities, including items of equipment costing less than $50 each; and the costs referred to in Articles 5, 6, 8, and 9, and the exhibits annexed to and referred to in this contract. Although the Government may pay part of the cost of new or additional facilities, structures, buildings, and equipment, only the depreciation on such items, computed as indicated in Articles 5 and 6, will be charged as a cost of the project. No items of general overhead, corporate management, interest, taxes, or any other indirect costs not expressly allowed by these provisions, or work performed or costs incurred before the date of this contract, shall be allowed as costs of the project in which the Government will participate.

11. *Accounts and audits.* The Operator shall keep suitable records and accounts of operations, which the Government may inspect and audit at any time. The Government may at any time require an audit of the Operator's records and accounts by a certified public accountant, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract.

12. *Progress reports.* The Operator shall provide the Government with monthly reports of work performed under the contract upon forms to be provided by the Government. Each monthly progress report shall bear the certification of the Operator and shall constitute the Operator's invoice of costs incurred on the project during the period covered by the report.

13. *Payment to the Operator.* The monthly progress report (invoice), to the extent approved by the Government, shall be processed for payment by the Government. Payment shall be made in the amount of _____ percent of the approved costs incurred; *Provided,* That the aggregate total of all sums paid by the Government under this agreement shall not exceed $_____, which is _____ percent of the agreed estimated total cost of this project, $_____.

14. *Final reports by Operator.* Upon completion of the project or termination of this contract, the Operator shall provide the Government with a comprehensive geologic and engineering report, including an estimate of ore reserves, to the best of his ability. Four copies of all reports shall be furnished to the Government.

15. *Repayment by Operator.* If, upon the completion of the exploration project or termination of the contract, the Government considers that a discovery or development has resulted from the work from which commercial production of ore may be made, the Government, within 6 months thereafter, shall so certify to the Operator, particularly describing and delimiting its estimate of the discovery or the development. Thereafter, if and as ore is produced as a result of such discovery or development, the Operator and his successor in interest shall be and become obligated to pay to the Government a percentage royalty on the net smelter returns or other net proceeds realized from such ore, concentrates, or metal produced within ten (10) years from the date of this contract, until the total amount contributed by the Government, without interest, is fully repaid or said 10 years have elapsed, whichever occurs first, as follows:

Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent.

Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent, plus one-half (½) percent for each additional full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

This obligation to repay from net returns or proceeds shall be and remain a claim and lien upon the mineral deposit which is the subject of the exploration project and upon any production resulting from such discovery or development, in favor of the Government, until fully paid, or until said 10-year period has elapsed; and this claim and lien and the Government's right to repayment shall survive any termination of the contract, whether by completion of the exploration project or otherwise. This article is not to be construed as imposing any obligation on the Operator or his successor in interest to produce ore from any such discovery or development.

16. *No assignment of contract.* Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder.

17. *Termination and completion.* The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worthwhile discovery and in the opinion of the Government further operations are not justified. Upon the completion of the project or any termination of the contract the Operator shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; shall dispose of any unused materials, supplies, and equipment for the joint account of the Operator and the Government in the proportion of their respective interests; and shall pay to the Government its pro-rata share of any money remaining.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

_____
(Operator)

By _____

By _____

U. S. GOVERNMENT PRINTING OFFICE 16—64066-2

Exhibit A

Exploration Project

The proposed project consists of exploring the most promising mineralized areas and outcrops by digging a series of trenches to bedrock with a bulldozer on claims owned by or controlled by the Burke-Martin Mines. The proposed project also consists of reopening the caved portals of adits on the property with a Duluwey shovel assisted by a bulldozer.

A claim map showing the approximate location of the proposed work is attached to this contract.

Summary of estimated costs

Labor and supervision	$3200.00
Rental of equipment	8840.00
Supplies	500.00
	12540.00

Fixtures and Improvements

None

Operating Equipment

To be rented:

2 TD-18 bulldozers with operators and supplies furnished at $92 per hour. Estimated total rental $7488

1 Quickway power shovel at $64 per day with operator and supplies furnished - Estimated total rental $1152

1 Pick-up truck @ $100 per month $200

Total $8840.00

To be purchased:

None

To be furnished by applicant:

None

Supplies

Gasoline, oil, grease for truck	$100.00
Cassying	225.00
Powder, caps, fuse	175.00
	500.00

Labor and Supervision

Superintendent @ $150 per month	900.00
4 Laborers @ $1.50 per hour with overtime	
2 men will be employed on estimated 60 days	
2 " " " " " " 180 days	2100.00
Compensation	200.00
	3200.00

Rehabilitation and Repairs

None

A Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 1779 X

DO NOT DETACH THIS SLIP

Action on this document is recorded and controlled in Reports and Records Branch. Any movement of this document between divisions or offices of DMA or movement outside DMA must be reported to the Reports and Records Branch. Actions taken that affect status of the case must also be reported.

This document has been recorded as

APPLICATION FOR EXPLORATION

Any action taken to change the type of request for assistance must be promptly reported to the Reports and Records Branch. Use DMA Form 2 for submitting these reports.

Routing Slip

To:	Lead-zinc Branch	Date	7/3/51
To:	U.S.G.S.	Date	7/5/51
To:	Coordinating Comm	Date	7/26/51
To:	Field Team	Date	7/30/51
To:	Field	Date	8-7-51
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	

MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

DO NOT FILL IN THIS BLOCK

Docket No. dma 1779X

Date received 7-2-51

Participation

THOMAS E. MARTIN
MONTEZUMA ROAD
DILLON, COLORADO

Name and address of applicant

Date June 26, 1951.

FILL IN THIS BLOCK

Date of application June 26, 1951.

Estimated cost Twenty Thousand Dollars ($20,000)

Mineral or metal Lead-Zinc

Percentage of Government participation 50%

Location of mine GLACIER MT., SUMMIT CO., MONTEZUMA, COLORADO.

Date of filing MF-100 June 26, 1951.

DMA Docket Number, if available

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.
    (*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

    NOTE.—If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*b*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

*11. State the present and former names of the property, if any.
*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.
*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.
*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.
15. State in detail how the ore could be shipped and how and where milled.
*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.
*17. Production:
    (*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.
19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?
21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete.
22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:
    (*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.
    (*b*) Supervisors, by numbers and positions, with salaries of each.
    (*c*) Cost of necessary repairs to existing facilities, structures, and buildings.
    (*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.
    (*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.
    (*f*) Cost of rental for equipment which the operator proposes to rent.
    (*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.
    (*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.
    (*i*) Cost of power, water, utilities, and any other items not provided for above.
24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

Burke-Martin Mines
(Name of company)

By Thomas E. Martin
(Signature of authorized official)

June 26 1951
(Date)

Owner and Lessee
(Title)

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

1779X

T. E. Martin
Dillon, Colorado

I

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 2 1951
LANDON F. STROBEL
Executive Secretary

1. Partnership and Corporation

2. Janet C. Martin, Thomas E. Martin
Dillon, Colorado

Ralph B. Strassburger
Paris, France

(a) The Martins and Mr. Strassburger are owners. The Martins are also Lessees of two other Groups of Mines. One, from a Corporation, described in Item No. 3.

3. Bell Mining Company
Salt Lake City, Utah

Fred Johnson
American Smelting & Refining, Salt Lake City, Utah

Jack May
American Smelting & Refining, Vanadium, New Mexico

Hugh Lewis, Engineer and Architect
Salt Lake City, Utah

4. (a) Three years mining; fifteen years general Business Administration - Construction.

(b) T. L. Johnston, E. M., Bureau of Mines, Joplin, Missouri, Laramie, Wyoming, Tokyo, Japan, Pauley Mission, Manchuria, Varied mining, milling and smelter experience.

5. Owner and Lessee

6. None

7. Photostat copy not available.

(a) Property now in operation

8. Assets: 27 Mining Claims, unencumbered and 10 stout-hearted men.

9. Half

(a) I've invested all of my time and money for the past three years.

10. In operation:

The Bell Mine
The Silver Wing Mine
The Albany Mine

JUL 5 3 1951

T. E. Martin
Dillon, Colorado

The Old Timer
The Northern No. 2
The St. Joe
The Illinois

(a) Not operating but to be opened by proposed work:

Galena	Tangle
Luella S.	California Extension
Northern	Pacific
Pirate	Burke Tunnel No. 4
Idaho	Gold Drill
Trenton	Bell West
Idaho No. 2	The Merrimac
Nicholas	Queen
Garrett	Echo
Copeland	The Sweetheart

(b) All claims are part of a contiguous Group lying between the St. John's and Chautauqua Mines, located in Snake River Mining District, Summit County, Montezuma, Colorado.

All work will be of surface nature on above-mentioned claims.

11. The Burke Property

The Bell Property

The OldTimer Group

P. S. All mentioned in Professional Paper, 178 U. S. Geological Survey, by T. S. Lovering.

12. One mile South of town of Montezuma, Colorado. Forty miles from Leadville, Colorado. Excellent dirt and hard-surfaced roads.

13. This is a bull-dozer operation for the purpose of opening surface veins and old workings. However, we do have an elegant sufficiency of water.

14. Access roads, tool-shed and house trailer.

15. By truck to Leadville Smelter or Mill, at Leadville, Colorado.

16. History:

(a) Property is developed by a few short adits, prospect holes showing sufficient metal for patents.

Property was worked for Silver-Zinc was a curse.

T. E. Martin
Dillon, Colorado

(b) The St. John's, Silver King, and Chautauqua are all famous producers of this District, still in operation, touching our Group on three sides.

17. Proposed work not to be done on the operating property.

18. (a) The ore is a Lead-Zinc-Sulphide containing small amounts of Silver. It has been our experience that all the old workings opened contain commercial quantities of high-grade Lead and Zinc.

(b) Map enclosed.

(c) Cannot estimate at this time.

19. Recently, this Spring, we opened several large veins while building roads, with a bull-dozer, into old workings. In one vein the Oxide Zone was twenty-eight (28) Feet wide, giving values as high as 65% Lead. In another operation, the Oxide Zone was forty (40) Feet wide, containing Manganese, Zinc and Lead. We wish to proceed with this type of exploration and development.

The Exploration.

20. Lead, Zinc, Manganese and Silver.

21. It is our plan to open up from the surface all veins, known to exist, as shown on the U. S. Geological Survey Maps. We hope to recover the Bell Vein beyond a fracture fault. We plan to remove all Ores as they are encountered from the surface.

We know where these are located by geological survey, by mineralized dumps of the old caved workings, by prospect holes and ore out-crops. It is our plan to build our road and cut the veins at the same time. These veins are so located as to make this possible with a minimum of bull-dozing. When a vein is encountered with a bull-dozer, it will be tested and worked with a dry-line to a feasible depth. Any old-caved portal will be opened with a dozer. This has proved successful on two other locations on this same property. Thus, we feel that no place in the State of Colorado can so much ore be opened with so little expense.

We are not selling stock - we are not promoting. We are miners, following the tradition of mining. Our motto: "Get the Lead out and get the Lead out."

T. E. Martin
Dillon, Colorado

This will be a project of which the Defense Minerals Authority will be justly proud.

This Operation will be at an altitude of 12,500 Feet and below. The success of our operation will depend entirely on your ability to expedite your share of the funds. Our schedule will be completed within the next ninety (90) days. This, of course, means opening the Ore. If we can get this operation completed in time, we can get underground and prepare for a Wintertime Operation.

22. See accompanying Maps.

23. The Requirements and Costs.

(a) Engineer
Labor
Supervisors
Truck Drivers.

The above-mentioned are Contractors and will be paid from the proceeds of the Ore.

Bull-dozer Operators payable at the rate of Ten Dollars ($10.00) per hour.

(b) This will be contracted, too.

(c) None.

(d) None planned at this time.

(e) None planned.

(f) One Thousand Dollars ($1,000.00) per month.

(g) None.

(h) One Thousand Dollars ($1,000.00).

(i) Seven Hundred and Fifty Dollars ($750.00).

24. See Item No. 21. Ninety (90) days.

We believe this project, as far as the exploration is concerned, can be completed in ninety (90) days.

Thomas E. Martin
Montezuma Road
Dillon, Colo.

T. E. Martin
Rillon, Colorado

I

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(b) The St. John's, Silver King, and Chautauqua are all famous producers of this District, still in operation, touching our Group on three sides.

17. Proposed work not to be done on the operating property.

18. (a) The ore is a Lead-Zinc-Sulphide containing small amounts of Silver. It has been our experience that all the old workings opened contain commercial quantities of high-grade Lead and Zinc.

(b) May enclosed.

(c) Cannot estimate at this time.

19. Recently, this Spring, we opened several large veins while building roads, with a bull-dozer, into old workings. In one vein the Oxide Zone was twenty-eight (28) feet wide, giving values as high as 65% Lead. In another operation, the Oxide Zone was forty (40) feet wide, containing Manganese, Zinc and Lead. We wish to proceed with this type of exploration and development.

The Exploration.

20. Lead, Zinc, Manganese and Silver.

21. It is our plan to open up from the surface all veins, known to exist, as shown on the U. S. Geological Survey Maps. We hope to recover the Ball Vein beyond a fracture fault. We plan to remove all Ores as they are encountered from the surface.

We know where these are located by geological survey, by mineralized dumps of the old caved workings, by prospect holes and ore out-crops. It is our plan to build our road and cut the veins at the same time. These veins are so located as to make this possible with a minimum of bull-dozing. When a vein is encountered with a bull-dozer, it will be tested and worked with a dry-line to a feasible depth. Any old-caved portal will be opened with a dozer. This has proved successful on two other locations on this same property. Thus, we feel that no place in the State of Colorado can so much ore be opened with so little expense.

We are not selling stock - we are not promoting. We are miners, following the tradition of mining. Our motto: "Get the Lead out and get the Lead out."

T. E. Martin
Dillon, Colorado

This will be a project of which the Defense Minerals Authority will be justly proud.

This Operation will be at an altitude of 12,500 Feet and below. The success of our operation will depend entirely on your ability to expedite your share of the funds. Our schedule will be completed within the next ninety (90) days. This, of course, means opening the Ore. If we can get this operation completed in time, we can get underground and prepare for a Wintertime Operation.

22. See accompanying Maps.

23. The Requirements and Costs.

(a) Engineer
Labor
Supervisors
Truck Drivers.

The above-mentioned are Contractors and will be paid from the proceeds of the Ore.

Bull-dozer Operators payable at the rate of Ten Dollars ($10.00) per hour.

(b) This will be contracted, too.

(c) None.

(d) None planned at this time.

(e) None planned.

(f) One Thousand Dollars ($1,000.00) per month.

(g) None.

(h) One Thousand Dollars ($1,000.00).

(i) Seven Hundred and Fifty Dollars ($750.00).

24. See Item No. 21. Ninety (90) days.

We believe this project, as far as the exploration is concerned, can be completed in ninety (90) days.

Thomas E. Martin
Dillon, Colorado

T. B. Martin
Billen, Colorado

dma 1779X

GENERAL TECHNICAL DATA

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 2 1951
LANDON F. STROBEL
Executive Secretary

1. Materials produced

   (a) Lead, Zinc, Silver

   (b) By-product - Manganese

2. Drifts and Shafts

   (a) Linear Feet of Shafts, 150 Feet

   (b) Linear Feet of Drifts and Crosscuts, 1 Mile

   (c) Linear Feet of Tunnels and Adits, 1 Mile

   (d) Linear Feet of Other Mine Openings - None

   Mine not flooded

   Productive Capacity - 200 Tons per day (estimate)

3. Location:

   35 T. 5 S, R. 76 W
   Within Snake River Mining District,
   Glacier Mt. Summit County,
   Montezuma, Colorado.
   Within 40 miles of Leadville, Colorado,
   and 1 Mile from town of Montezuma, Colorado.

4. (a) Portions of property now in operation.
   Self and Split-checkers.

   (b) I am operating property as Owner and
   also Lessee.

5. In Production One Year.

6. Experience of Operators.

   (a) I have three years mining experience; 15 years general business administration and construction.

   (b) T. L. Johnston, E. M., Bureau of Mines, Joplin, Missouri, Laramie, Wyoming, Tokyo, Japan, Pauley Mission to Manchuria. Also varied mining, milling and smelter experience.

7. (a) Property is developed by a few short adits, prospect holes showing sufficient metal for patents. Property was worked for Silver - Zinc was a curse.

(b) The St. John's Silver King and Chautauqua are all famous producers of this District and are still in operation. They touch our Group on three sides.

(c) Our property was examined by the U. S. Bureau of Mines, January 5, 1951.

Thomas E. Martin
Montezuma Rd.
Dillon, Colorado.

dmd 1779X

T. M. Martin
Dillon, Colorado

GENERAL TECHNICAL DATA

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 2 1951
LANDON F. STROBEL
Executive Secretary

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   (a) Lead, Zinc, Silver

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   (c) Linear Feet of Tunnels and Adits, 1 Mile

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   and 1 Mile from town of Montezuma, Colorado.

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FORM DMA-100
(March 1951)

COLORADO MINING ASSOCIATION
204 STATE OFFICE BUILDING
DENVER, COLORADO

Form Approved
Budget Bureau No. 42-R1026

UNITED STATES

DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION

GENERAL TECHNICAL DATA FOR USE UNDER THE DEFENSE PRODUCTION ACT OF 1950	Not to be filled in by applicant Docket No._____ Date Received_____

Thomas E. Martin
Montezuma Road
Dillon, Colorado

Name and Address of Applicant

(Street, City, Z one, State)

Date June 26, 1951.

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D.C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) Necessity Certificate pursuant to the provisions of Sec. 124-A (Amortization Deduction) of Internal Revenue Code, 1950, (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) other forms of Government assistance that might arise under the Act.

Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. When a question is inapplicable it should be so stated on the form. Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

dma 1779X

T. E. Martin
Dillon, Colorado

GENERAL TECHNICAL DATA

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 2 1951
LANDON F. STROBEL
Executive Secretary

1. Materials produced

   (a) Lead, Zinc, Silver

   (b) By-product - Manganese

2. Drifts and Shafts

   (a) Linear Feet of Shafts, 150 Feet

   (b) Linear Feet of Drifts and Crosscuts, 1 Mile

   (c) Linear Feet of Tunnels and Adits, 1 Mile

   (d) Linear Feet of Other Mine Openings - None

   Mine not flooded

   Productive Capacity - 200 Tons per day (estimate)

3. Location:

   35 T. 5 S, R. 76 W
   Within Snake River Mining District,
   Glacier Mt. Summit County,
   Montezuma, Colorado.
   Within 40 miles of Leadville, Colorado,
   and 1 Mile from town of Montezuma, Colorado.

4. (a) Portions of property now in operation.
   Self and Split-checkers.

   (b) I am operating property as Owner and
   also Lessee.

5. In Production One Year.

6. Experience of Operators.

   (a) I have three years mining experience; 15 years general business administration and construction.

   (b) T. L. Johnston, E. M., Bureau of Mines, Joplin, Missouri, Laramie, Wyoming, Tokyo, Japan, Pauley Mission to Manchuria. Also varied mining, milling and smelter experience.

7. (a) Property is developed by a few short adits, prospect holes showing sufficient metal for patents. Property was worked for Silver - Zinc was a curse.

(b) The St. John's Silver King and Chautauqua are all famous producers of this District and are still in operation. They touch our Group on three sides.

(c) Our property was examined by the U. S. Bureau of Mines, January 5, 1951.

Thomas E. Martin
Montezuma Road
Dillon, Colorado,

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

DO NOT FILL IN THIS BLOCK

Docket No. dma 1779 X

Date received 7-2-51

Participation

Name and address of applicant

Thomas E. Martin
Montezuma Road
Dillon, Colorado.

Date June 26, 1951

FILL IN THIS BLOCK

Date of application June 26, 1951

Estimated cost Twenty-Thousand Dollars ($20,000)

Mineral or metal Lead-zinc

Percentage of Government participation 50%

Location of mine Glacier Mt., Summit Co.
Montezuma, Colorado.

Date of filing MF-100 June 26, 1951

DMA Docket Number, if available

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.
    (*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

    NOTE.—If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*b*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

*11. State the present and former names of the property, if any.
*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.
*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.
*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.
15. State in detail how the ore could be shipped and how and where milled.
*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.
*17. Production:
    (*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.
19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?
21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:
    (*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.
    (*b*) Supervisors, by numbers and positions, with salaries of each.
    (*c*) Cost of necessary repairs to existing facilities, structures, and buildings.
    (*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.
    (*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.
    (*f*) Cost of rental for equipment which the operator proposes to rent.
    (*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.
    (*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.
    (*i*) Cost of power, water, utilities, and any other items not provided for above.
24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

Burke Martin Mines
(Name of company)

By Thomas E. Martin
(Signature of authorized official)

June 26 1957
(Date)

Owner and Lessee
(Title)

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

July 26, 1951

Re: DMA-1779X

Mr. Thomas E. Martin
Montezuma Road
Lillen, Montana

Dear Mr. Martin:

Your application for a loan to explore your property in Summit County, Colorado, has been reviewed by the Lead-Zinc Branch of the Defense Minerals Administration and has been referred to Mr. J. H. East, Jr., Executive Officer, DMA Field Team, 224 New Customhouse, Denver 2, Colorado, for further information and advice.

Very truly yours,

Tom Lyon, Director
Supply Division

EJLyons:emp
G 7-26-51
Copies to: J. H. East, Jr. Region IV (2)
Chief, Lead-Zinc Br.
E. T. McKnight 4204 GSA
R. H. Mote
Reports & Records
Directors r. file 4214 GSA
Br. r. file 4214 GSA
Files

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

DO NOT FILL IN THIS BLOCK

Docket No. dma 17779X

Date received 7-2-51

Participation

Name and address of applicant

THOMAS E. MARTIN
MONTEZUMA ROAD
DILLON, COLORADO.

Date June 26, 1951.

FILL IN THIS BLOCK

Date of application JUNE 26 1951.

Estimated cost Twenty Thousand ($20,000)

Mineral or metal Lead-Zinc

Percentage of Government participation 50%

Location of mine GLACIER MT. - SUMMIT CO., MONTEZUMA, COLORADO

Date of filing MF-100 JUNE 26, 1951

DMA Docket Number, if available

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.
    (*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

    NOTE.—If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*b*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

*11. State the present and former names of the property, if any.
*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.
*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.
*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.
15. State in detail how the ore could be shipped and how and where milled.
*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.
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    (*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

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    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.
19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?
21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:
    (*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.
    (*b*) Supervisors, by numbers and positions, with salaries of each.
    (*c*) Cost of necessary repairs to existing facilities, structures, and buildings.
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    (*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.
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24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

Burke Martin Mines
(Name of company)

By Thomas E. Martin
(Signature of authorized official)

June 26 1951
(Date)

Owner and Lessee
(Title)

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

dmd 1779X

T. H. Martin
Dillon, Colorado

I

1. Partnership and Corporation

2. Janet C. Martin, Thomas H. Martin
Dillon, Colorado

Ralph H. Strassburger
Paris, France

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 2 1951
LANDON F. STROBEL
Executive Secretary

(a) The Martins and Mr. Strassburger are owners. The Martins are also lessees of two other Groups of Mines. One, from a Corporation, described in Item No. 3.

3. Bell Mining Company
Salt Lake City, Utah

Fred Johnson
American Smelting & Refining, Salt Lake City, Utah

Jack May
American Smelting & Refining, Vanadium, New Mexico

Hugh Lewis, Engineer and Architect
Salt Lake City, Utah

4. (a) Three years mining; fifteen years general Business Administration - Construction.

(b) T. L. Johnston, E. M., Bureau of Mines, Joplin, Missouri, Laramie, Wyoming, Tokyo, Japan, Pauley Mission, Manchuria, Varied mining, milling and smelter experience.

5. Owner and Lessee

6. None

7. Photostat copy not available.

(a) Property now in operation

8. Assets: 27 Mining Claims, unencumbered and 10 stout-hearted men.

9. Half

(a) I've invested all of my time and money for the past three years.

10. In operation:

The Bell Mine
The Silver King Mine
The Albany Mine

T. E. Martin
Dillon, Colorado

The Old Timer
The Northern No. 2
The St. Joe
The Illinois

(a) Not operating but to be opened by proposed work:

Galena	Tangle
Luella S.	California Extension
Northern	Pacific
Pirate	Burke Tunnel No. 4
Idaho	Gold Drill
Trenton	Bell West
Idaho No. 2	The Merrimac
Nicholas	Queen
Garrett	Echo
Copeland	The Sweetheart

(b) All claims are part of a contiguous Group lying between the St. John's and Chautauqua Mines, located in Snake River Mining District, Summit County, Montezuma, Colorado.

All work will be of surface nature on above-mentioned claims.

11. The Burke Property

The Bell Property

The OldTimer Group

P. S. All mentioned in Professional Paper, 178 U. S. Geological Survey, by T. S. Lovering.

12. One mile South of town of Montezuma, Colorado. Forty miles from Leadville, Colorado. Excellent dirt and hard-surfaced roads.

13. This is a bull-dozer operation for the purpose of opening surface veins and old workings. However, we do have an elegant sufficiency of water.

14. Access roads, tool-shed and house trailer.

15. By truck to Leadville Smelter or Mill, at Leadville, Colorado.

16. History:

(a) Property is developed by a few short adits, prospect holes showing sufficient metal for patents.

Property was worked for Silver-Zinc was a curse.

(b) The St. John's, Silver King, and Chautauqua are all famous producers of this District, still in operation, touching our Group on three sides.

17. Proposed work not to be done on the operating property.

18. (a) The ore is a Lead-Zinc-Sulphide containing small amounts of Silver. It has been our experience that all the old workings opened contain commercial quantities of high-grade Lead and Zinc.

(b) Map enclosed.

(c) Cannot estimate at this time.

19. Recently, this Spring, we opened several large veins while building roads, with a bull-dozer, into old workings. In one vein the Oxide Zone was twenty-eight (28) feet wide, giving values as high as 65% Lead. In another operation, the Oxide Zone was forty (40) feet wide, containing Manganese, Zinc and Lead. We wish to proceed with this type of exploration and development.

The Exploration.

20. Lead, Zinc, Manganese and Silver.

21. It is our plan to open up from the surface all veins, known to exist, as shown on the U. S. Geological Survey Maps. We hope to recover the Bell Vein beyond a fracture fault. We plan to remove all Ores as they are encountered from the surface.

We know where these are located by geological survey, by mineralized dumps of the old caved workings, by prospect holes and ore out-crops. It is our plan to build our road and cut the veins at the same time. These veins are so located as to make this possible with a minimum of bull-dozing. When a vein is encountered with a bull-dozer, it will be tested and worked with a dry-line to a feasible depth. Any old-caved portal will be opened with a dozer. This has proved successful on two other locations on this same property. Thus, we feel that no place in the State of Colorado can so much ore be opened with so little expense.

We are not selling stock - we are not promoting. We are miners, following the tradition of mining. Our motto: "Get the Lead out and get the Lead out."

T. E. Martin
Dillon, Colorado

This will be a project of which the Defense Minerals Authority will be justly proud.

This Operation will be at an altitude of 12,500 Feet and below. The success of our operation will depend entirely on your ability to expedite your share of the funds. Our schedule will be completed within the next ninety (90) days. This, of course, means opening the Ore. If we can get this operation completed in time, we can get underground and prepare for a Wintertime Operation.

22. See accompanying Maps.

23. The Requirements and Costs.

(a) Engineer
Labor
Supervisors
Truck Drivers.

The above-mentioned are Contractors and will be paid from the proceeds of the Ore.

Bull-dozer Operators payable at the rate of Ten Dollars ($10.00) per hour.

(b) This will be contracted, too.

(c) None.

(d) None planned at this time.

(e) None planned.

(f) One Thousand Dollars ($1,000.00) per month.

(g) None.

(h) One Thousand Dollars ($1,000.00).

(i) Seven Hundred and Fifty Dollars ($750.00).

24. See Item No. 21. Ninety (90) days.

We believe this project, as far as the exploration is concerned, can be completed in ninety (90) days.

Thomas E. Martin
Montezuma Road
Dillon, Colo.

JUL 27 1951

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON, D. C.

REGIONAL DIRECTOR'S OFFICE
REGION IV
JUL 31 1951
BUREAU OF MINES
DENVER, COLORADO

Mr. J. H. East, Jr.
Executive Officer, DMA Field Team
Region IV
224 New Customhouse
Denver 2, Colorado

Dear Sir:

We attach "Review of Application for Exploration Assistance" on:

Docket No. 1779X

Commodity Lead-zinc

Applicant Thomas E. Martin, Montezuma Road, Dillon, Colorado

Please expedite the consideration of this application with particular reference to the points raised in the attached "Review."

Very truly yours,

Tom Lyon
Chairman
Coordinating Committee

Lowell B. Moon
For Bureau of Mines

Olof Ray
For Geological Survey

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. DMA 1779X

Commodity Lead-zinc

Total Amount $20,000

Govt. Participation 50%

1. Name and Address of Applicant Thomas E. Martin, Montezuma Road, Dillon, Colorado

2. Location of Property 1 mile south of Montezuma, T. 5 S., and T. 6 S., R. 76 W., Summit County, Colorado

3. Mineral or metal Lead-zinc-silver Is it listed in Section 9 of MO-5? Yes

If not, application will be rejected.

4. Geologic probability of discovery—based on data in application (question #16, 17, 18, 20 and 22)*

Mines or Survey reports, etc., do you rate chances:

a) Good

b) Poor

c) None

d) Don't know—needs field examination X

e) Is there an alternative and favorable project? Don't know
(If so, attach an explanation)

5. Is the applicant's right to the property clearly stated? Yes
(question 5, 6, 7)*

6. If applicant is a lessee, is a copy of the lease attached? No should be obtained ?

Does the lease have sufficient time to run to cover a future productive period? Don't know ?

*question numbers are those of MF-103

7. Are subordination agreements necessary? Yes

a) MF-201? _____

b) MF-202 Yes

8. From the data presented, does the proposed project appear feasible from the point of view of:

a) Available manpower Don't know

b) Equipment and supplies " "
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* Yes

d) Water (question 13)* Yes

e) Power (question 13)* Yes

Is a field check needed on any of these points? Yes

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* Don't know ?

Is a field check needed on this point? Yes

10. Exhibit A. (questions 21 and 22)*

a) Is the project adequately described? No

If not, are there sufficient data given so that you can describe the project? No If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work? No

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? Yes

If not, what part of it is? _____

Is this part a worthwhile exploration project?_____

d) Are the cost estimates detailed? No

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? No If so, attach a draft.

e) Are the cost estimates reasonable? Don't know

f) Should more information be requested from applicant? Yes

g) Is a field examination necessary to complete Exhibit A? Yes

11. Exhibit B (question 23-d)*

a) Is it applicable? No

b) If so, are sufficient data furnished?_____ If so, attach a draft.

c) Is a field check needed?_____

12. Exhibit C (question 23-e, f and g)*

a) Is it applicable? Yes

b) Sufficient data? No If so, attach a draft.

c) Are rents and charges reasonable? Don't know

d) Is a field check needed? Yes

13. Exhibit D (question 23-a, b)*

a) Are there sufficient data? No

b) Is the schedule adequate for the work proposed?_____

c) Is the schedule excessive for the work proposed?_____

d) Are the proposed wages and salaries reasonable?_____

e) Is a field check needed? Yes

14. Exhibit E (question 23-c)*

a) Is it applicable? No

b) Sufficient data? _____

c) Reasonable? _____

d) Field check needed? _____

15. In your judgment, can the proposed work be done in the proposed time? Don't know

(All exploration must be completed within two years)

16. If field examination is not needed, attach your recommendation.

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? _____

Reviewed by: Erwin J. Lyons GS

Date 7-26-51

INT.-DUP. SEC., WASH., D.C. 99009

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. DMA 1779X

Commodity Lead-zinc

Total Amount $20,000

Govt. Participation 50%

1. Name and Address of Applicant Thomas E. Martin, Montezuma Road, Dillon, Colorado

2. Location of Property 1 mile south of Montezuma, T. 5 S., and T. 6 S., R. 76 W., Summit County, Colorado

3. Mineral or metal Lead-zinc-silver Is it listed in Section 9 of MO-5? Yes

If not, application will be rejected.

4. Geologic probability of discovery—based on data in application (question #16, 17, 18, 20 and 22)*

Mines or Survey reports, etc., do you rate chances:

a) Good

b) Poor

c) None

d) Don't know—needs field examination X

e) Is there an alternative and favorable project? Don't know
(If so, attach an explanation)

5. Is the applicant's right to the property clearly stated? Yes
(question 5, 6, 7)*

6. If applicant is a lessee, is a copy of the lease attached? No should be obtained

Does the lease have sufficient time to run to cover a future productive period? Don't know

*question numbers are those of MF-103

7. Are subordination agreements necessary? Yes

a) MF-201? _____

b) MF-202 Yes

8. From the data presented, does the proposed project appear feasible from the point of view of:

a) Available manpower Don't know

b) Equipment and supplies " "
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* Yes

d) Water (question 13)* Yes

e) Power (question 13)* Yes

Is a field check needed on any of these points? Yes

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* Don't know

Is a field check needed on this point? Yes

10. Exhibit A. (questions 21 and 22)*

a) Is the project adequately described? No

If not, are there sufficient data given so that you can describe the project? No If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work? No

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? Yes

If not, what part of it is? _____

Is this part a worthwhile exploration project?_____

d) Are the cost estimates detailed? No

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? No If so, attach a draft.

e) Are the cost estimates reasonable? Don't know

f) Should more information be requested from applicant? Yes

g) Is a field examination necessary to complete Exhibit A? Yes

11. Exhibit B (question 23-d)*

a) Is it applicable? No

b) If so, are sufficient data furnished?_____ If so, attach a draft.

c) Is a field check needed?_____

12. Exhibit C (question 23-e, f and g)*

a) Is it applicable? Yes

b) Sufficient data? No If so, attach a draft.

c) Are rents and charges reasonable? Don't know

d) Is a field check needed? Yes

13. Exhibit D (question 23-a, b)*

a) Are there sufficient data? No

b) Is the schedule adequate for the work proposed?_____

c) Is the schedule excessive for the work proposed?_____

d) Are the proposed wages and salaries reasonable?_____

e) Is a field check needed? Yes

14. Exhibit E (question 23-c)*

a) Is it applicable? No

b) Sufficient data? _____

c) Reasonable? _____

d) Field check needed? _____

15. In your judgment, can the proposed work be done in the proposed time? Don't know

(All exploration must be completed within two years)

16. If field examination is not needed, attach your recommendation.

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? _____

Reviewed by: Erwin J. Lyons GS

Date 7-26-51

INT.-DUP. SEC., WASH., D.C. 99009

July 26, 1951

Re: DMA-1779X

Mr. Thomas E. Martin
Montezuma Road
Dillon, Montana

Dear Mr. Martin:

Your application for a loan to explore your property in Summit County, Colorado, has been reviewed by the Lead-Zinc Branch of the Defense Minerals Administration and has been referred to Mr. J. H. East, Jr., Executive Officer, DMA Field Team, 224 New Customhouse, Denver 2, Colorado, for further information and advice.

Very truly yours,

Tom Lyon, Director
Supply Division

EJLyons:emp
G 7-26-51
Copies to: J. H. East, Jr. Region IV (2)
Chief, Lead-Zinc Br.
E. T. McKnight 4204 GSA
R. H. Mote
Reports & Records
Directors r. file 4214 GSA
Br. r. file 4214 GSA
Files

7. (a) Property is developed by a few short adits, prospect holes showing sufficient metal for patenty. Property was worked for Silver - Zinc was a curse.

(b) The St. John's Silver King and Chautauqua are all famous producers of this District and are still in operation. They touch our Group on three sides.

(c) Our property was examined by the U. S. Bureau of Mines, January 5, 1951.

Thomas E. Martin
Montezuma Road
Dillon, Colorado

WMT/dd

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Building 20
Denver Federal Center

October 25, 1951

Mining Division
Date Rec'd.
OCT 26 1951
BUREAU OF MINES
Denver, Colorado

Mr. Thomas E. Martin
Montezuma Road
Dillon, Colorado

pfr

Dear Mr. Martin:

A George Elliot called this office today requesting five copies of a location map which he stated you had furnished us for use in our various examinations of your Montezuma properties.

So far as we know, all maps and data concerned with DMA 1779X except the lease agreements have been returned to you.

Please set Mr. Elliot straight on the matter if we are correct in our statement.

Very truly yours,

W. M. Traver, Jr., Chief
Colorado Branch, Mining Division

cc PTAllsman
DMA 1779X
DMA Chron.

[redacted]
Denver 2, Colorado

October 10, 1951

Memorandum

To: Executive Secretary, Defense Minerals Administration

From: DMA Field Team, Region IV

Subject: DMA Project I779-K, Final Report, Burlington Zinc-Lead Mines, Minimum Mining Material, Summit County, Colorado

The subject report has been approved by us and an exploration loan of $9,[illegible].00 is being processed.

Four copies of the report and the brochure are being held here until the completion of the exploration project contract.

F. H. Eastlick
F. H. Eastlick, Jr.

for Charles Truet
[redacted]

WDM:oj
cc: AHKoschmann
DMA Subject and Chron.
Traver, w/copy of final report
Allsman " " " "
Koschmann " " " "
DMA Final Report " "

Mining Division
Region IV

October 8, 1971.

Memorandum

To: DMA Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Final Report, DMA Project IV72E, Burke-Harbin Mine-Level Mines, Washington Mining District, Summit County, Colorado

The application of the subject mining aid for an exploration loan at an estimated cost of $10,000.00, indicates value as a loan to prove up the property and the proposed annual exploration by by sinking inclines through the mineralized zone, a tailings and coupling the workings. Additional proposed work on the project is opening level portals of adits and rehabilitation of the adits on the Bill Trenton and Hinds claims.

The consulting team recommends approval of the entire project. It appears, however, that it be set up in phases, with the opening of level portals and rehabilitation of the adits at an estimated cost of $3,000.00, dependent on the results of the initial trenching and sampling.

As this application falls within the prerogatives of the executive officer, an exploration project contract will be executed.

Paul T. Allemann

WDM:oj
cc: DMA Subject and Chronological
SHKoschmann

Mining Division
Region IV

September 20, 1951

Memorandum

To: W. M. Traver

From: Chief, Mining Division, Region IV

Subject: Final Report, DMA Docket 1779-I, Burke-Martin Mines Company, applicant, Lead-Zinc Mines, Summit County, Colo.

A review of this report leads to the conclusion that it requires considerable revision as to the estimated costs of the project, and we are returning all copies of the report for checking of the following items:

1/- Supervision: A total of $3360.00 for supervision, which amounts to 17% of the total cost, seems to be excessive. One superintendent at $450 to $500 per month should be able to supervise this small project.

2/- We do not see the need for both a TD-18 and a TD-14 bulldozer. The TD-18 is equivalent to a Caterpillar D-7, and according to War Department Technical Manual TM5-252, on the use of Road and Airdrome Construction Equipment, a D-7 will move 120 cu. yds. per hour, or 960 cu. yds. per day for a distance of 75 feet.

3/- No estimates were given in the report of the thickness of the overburden, except for the statement that the veins are covered by a shallow mantle of overburden. Assuming an average thickness of 6 feet the total overburden in Project A is only 5300 cu. yds., which could be moved by 1 TD-18 Bulldozer in less than 6 days instead of the 60 days stated in the report.

4/- No provisions are made for women labor to clean the bulldozer cuts for sampling.

5/- Maps showing the location of the proposed work will be required for attachment to the contract. These do not need to be elaborate, as detailed maps can be prepared when the contract is approved in accordance with Article 10 of the revised form MF-200.

As it appears from the foregoing that the total cost of the project will be materially reduced, please have the report corrected.

WDM:oj
cc: WMTraver
cc: AHKoschmann
cc: DMA Subject and Chronological

Paul T. Allmann

WMT/dd

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Building 20
Denver Federal Center

September 19, 1951

Mr. Thomas E. Martin
Burke-Martin Mines Company
Montezuma Road
Dillon, Colorado

RE: DMA-1779X, Burke-Martin Mines Company,
Summit County, Colorado

Dear Mr. Martin:

This will acknowledge receipt of the agreements which you recently delivered to this office covering leases with the Bell Mining Company, of Salt Lake City, Utah; Doris I. Sweeney, of Sherwood, Oregon; and R. B. Strassburger, of New York City, New York.

Checking with the application form, we find that an agreement was not submitted covering the claims leased from Elizabeth F. Deatherage, of Golden, Colorado. The report will be held in abeyance until this agreement is received.

Very truly yours,

WMT
J.F.S.

W. M. Traver, Jr., Chief
Colorado Branch, Mining Division

cc PTAllsman 2
DMA 1779X
DMA Chron.

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

Building 20, Denver Federal Center

TO : P. T. Allsman, Chief, Mining Division, Region IV

DATE: September 19, 1951

FROM : W. M. Traver, Jr.

SUBJECT: DMA-1779X, Burke-Martin Mines Company, Summit County, Colorado.

Your attention is called to the attached letter written to Thomas E. Martin concerning non-receipt of an agreement on the subject application. We have submitted the report and are holding the brochure pending receipt from Mr. Martin of the required agreement.

W. M. Traver, Jr.

W. M. Traver, Jr.

Mining Division

Date Received

SEP 20 1951

BUREAU OF MINES

Denver, Colorado

pta

attachment

WMT

WMT/dd

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Building 20
Denver Federal Center

September 19, 1951

Mr. Thomas E. Martin
Burke-Martin Mines Company
Montezuma Road
Dillon, Colorado

RE: DMA-1779X, Burke-Martin Mines Company,
Summit County, Colorado

Dear Mr. Martin:

This will acknowledge receipt of the agreements which you recently delivered to this office covering leases with the Bell Mining Company, of Salt Lake City, Utah; Doris I. Sweeney, of Sherwood, Oregon; and R. B. Strassburger, of New York City, New York.

Checking with the application form, we find that an agreement was not submitted covering the claims leased from Elizabeth F. Deatherage, of Golden, Colorado. The report will be held in abeyance until this agreement is received.

Very truly yours,

WMT

W. M. Traver, Jr., Chief
Colorado Branch, Mining Division

cc PTAllsman 2
DMA 1779X
DMA Chron.

Date Rec'd

SEP 11 1951

WMT/dd

BUREAU OF MINES
Denver, Colorado

Building 20
Denver Federal Center

September 10, 1951

Mining Division
Date Rec'd

SEP 11 1951

BUREAU OF MINES
Denver, Colorado

Mr. Thomas E. Martin
Burke-Martin Mines Company
Montezuma Road
Dillon, Colorado

RE: DMA-1779X, Burke Martin Mines Company,
Summit County, Colorado

Dear Mr. Martin:

You are operating several of the properties listed under the above-captioned Defense Minerals Administration loan request under lease.

We are presently typing the final report on this docket but will not submit it to the Region IV office until we receive copies of all lease agreements on properties not owned by your company. Please make these available at your earliest convenience.

Very truly yours,

W. M. Traver, Jr., Chief
Colorado Branch, Mining Division

cc PTAllsman 2
DMA 1779X
DMA Chron.

WMT/dd

Building 20
Denver Federal Center

September 10, 1951

Mining Division
Date Rec'd.
SEP 11 1951
BUREAU OF MINES
Denver, Colorado

Mr. Thomas E. Martin
Burke-Martin Mines Company
Montezuma Road
Dillon, Colorado

RE: DMA-1779X, Burke Martin Mines Company, Summit County, Colorado

Dear Mr. Martin:

You are operating several of the properties listed under the above-captioned Defense Minerals Administration lean request under lease.

We are presently typing the final report on this docket but will not submit it to the Region IV office until we receive copies of all lease agreements on properties not owned by your company. Please make these available at your earliest convenience.

Very truly yours,

W. M. Traver, Jr., Chief
Colorado Branch, Mining Division

cc PTAllsman 2
DMA 1779X
DMA Chron.

pt wom
7.S.

6-303
(March 1947)

cc: P. T. Allsman
W. M. Traver, Jr.

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
Salt Lake City, Utah

Mining Division
Date Rec'd. AUG 29 1951
BUREAU OF MINES
Denver, Colorado

No. 15

Report to Mr. C. M. Harrer

Date received Aug. 21, 1951

Chemical Laboratory Report

Date reported Aug. 28, 1951

Serial No.	DESCRIPTION	Lot No.	Ag	Pb	Zn								
	DMA-1773X, Burke-Martin Mines Co. T. 5 and 6, R. 76 W., Snake River Mining District, Summit County, Colo.												
97790	Silver Wing	H-588	1.5	2.25	0.25								
91	17662 (?	27	11.5	6.05	22.2								
92	Old Timer	28	2.5	8.75	1.5								

U. S. GOVERNMENT PRINTING OFFICE 16—33553-3

Signed H. E. Peterson M.R.H.

WMT:dd:amh

Building 20, Denver Federal Center

S. R. Zimmerley, Chief
Salt Lake Experiment Station
Chief, Colorado Branch, Mining Division

August 17, 1951

Sample Shipment

Enclosed herewith is the memorandum copy of government bill of lading IN-93946 covering a shipment of three samples via the Railway Express Agency, together with form 7353, in triplicate, indicating the assays desired. These samples were taken from the property of the Burke-Martin Mines Company (DMA-1779X), Summit County, Colorado.

Inasmuch as these are DMA samples, it will be appreciated if you will expedite assay returns as much as possible.

W.M. Trever, Jr.

PTA

enclosures

cc: PTAllsman
DMA-1779X
DMA Chron.
DMA General

Mining Division
Date Rec'd.
AUG 20 1951
BUREAU OF MINES
Denver, Colorado

August 1, 1951

Memorandum

To: W. M. Traver, Jr. (with brochures)

(Through Chief, Mining Division)

A. H. Koschmann

From: DMA Field Team, Region IV

Subject: DMA Docket 1779K, Burke-Martin Mines Company, Thomas R. Martin, Owner and Lessee, Lead-Zinc Mines, Summit County, Colorado

Enclosed herewith in duplicate are the subject brochures with applications for an exploration project at an estimated cost of $20,000, and reviews of application.

The geological probability of discovery and information for Exhibits A to D, inclusive, require field examinations.

Please arrange for a joint examination with the Geological Survey at your convenience.

P. T. Allsman, Alternate

A. H. Koschmann

A. H. Koschmann

Enclosures

14

cc: DMA
Koschmann

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

224 New Customhouse
Denver 2, olorado

October 10, 1951

Memorandum

To: Executive Secretary, Defense Minerals Administration

From: DMA Field Team, Region IV

Subject: DMA Docket 1779-X, Final Report, Burke-Martin Zinc-Lead Mines, Montezuma Mining District, Summit County, Colorado

The subject report has been approved by us and an exploration loan of $9,278.00 is being processed.

Your copies of the report and the brochure are being held here until the execution of the exploration project contract.

J. H. East, Jr.

A. H. Koschmann

A. H. Koschmann

cc: Traver w/copy of final report
Allsman " " " "
Koschmann " " " "
DMA " " " "

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Mining Division
Region IV

224 NEW CUSTOMHOUSE
DENVER 2, COLORADO

October 8, 1951

Memorandum

To: DMA Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Final Report, DMA Docket 1779X, Burke-Martin Zinc-Lead Mines, Montezuma Mining District, Summit County, Colorado

The application of the subject docket was for an exploration loan at an estimated cost of $20,000.00. Numerous veins are known to occur on the property and the proposed initial exploration is by cutting trenches through the overburden with a bulldozer and sampling the outcrops. Additional proposed work at the project is opening caved portals of adits and rehabilitation of the adits on the Bell Trenton and Idaho claims.

The examining team recommends approval of the entire project. We suggest, however, that it be set up in phases, with the opening of caved portals and rehabilitation of the adits at an estimated cost of $9,278.00, dependent on the results of the initial trenching and sampling.

As this application falls within the prerogative of the executive officer, an exploration project contract will be executed.

Paul T. Allsman

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Defense Minerals Administration
200 New Customhouse
Denver 2, Colorado

September 21, 1951

Memorandum

To: DMA Field Team, Region IV

From: A. H. Koschmann

Subject: DMA Docket 1779X, Burke-Martin Mines Company, Montezuma Mining District, Summit County, Colorado

Attached are 8 copies of a geologic report by Truman H. Kuhn covering the subject property. Mr. Kuhn points out that a number of lead-zinc-silver veins are known to occur on the Burke-Martin group of claims. However, overburden covers most of the surface and old prospect pits and portals to tunnels are caved, thus preventing their mapping and study and effective prospecting. Recent stripping on one claim has exposed 4 parallel veins occurring in a zone 30 feet wide. It is the intent of the applicant to uncover by stripping and trenching the veins on their property. This proposition has geologic merit, and Mr. Kuhn recommends that the loan applied for be approved.

I concur with this recommendation.

A. H. Koschmann
A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Attachments (8)

Region IV

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
DENVER, COLORADO

Mining Division
Date Rec'd.
OCT 5 1951
BUREAU OF MINES
Denver, Colorado

Building 20
Denver Federal Center
October 5, 1951

Memorandum

To: Chief, Mining Division, Region IV

From: Chief, Colorado Branch, Mining Division

Subject: DMA 1779X, Burke-Martin Mines Company, Summit County, Colorado

Please find enclosed the original and seven copies of the "Summary, Conclusions, and Recommendations", by Harrer and Kuhn, and the equivalent copies of Harrer's revised engineering report on the subject docket.

The bulldozer estimate has not been changed and the reason is explained on page 7 of the report. The possibility of using both the TD-18 bulldozer on project A and the TD-14 on project B and operating the two concurrently is mentioned but not explained in the estimate of costs. Such procedure would effect a savings on supervision and bulldozer rental.

I am making no further comment on the project except that I am not impressed with the applicant, especially with respect to his supervisory ability. However, that is evidently not a factor in these operations.

Bulldozer exploration elsewhere has proved successful and is an economical method. I approve the recommendations of the examining team.

Martin has submitted the original copies of all of the involved lease agreements. They are apparently in order and, unless you need to examine them, they will be held in our files and returned to him if an when a contract is made, in accordance with his request.

The brochure and review are returned herewith.

W. M. Traver, Jr.

W. M. Traver, Jr.

enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
OSCAR L. CHAPMAN, SECRETARY

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

DMA-1779X, Burke-Martin Mines Company

Montezuma Mining District

Summit County, Colo.

C. M. Harrer, Mining Engineer
Bureau of Mines

T. H. Kuhn, Geologist
U. S. Geological Survey

September 12, 1951

BURKE-MARTIN MINES COMPANY
MONTEZUMA MINING DISTRICT
SUMMIT COUNTY, COLO.

Summary, Conclusions, and Recommendations

By C. M. Harrer
Mining Engineer
Bureau of Mines

and

T. N. Kuhn
Geologist
U. S. Geological Survey

BURKE-MARTIN MINES COMPANY
MONTEZUMA MINING DISTRICT
SUMMIT COUNTY, COLO.

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

By G. M. Harrer and T. H. Kuhn

The Burke-Martin Mines Company in the Montezuma Mining District, Summit County, Colo., has applied for an exploration loan of $20,000.00 to explore for lead and zinc.

Numerous, narrow and essentially parallel veins are known to exist on the northeastern slope of Glacier Mountain, and have produced at least 5,000 tons of shipping ore. Lead, zinc, and silver ore minerals are known to be present on many of the claims that are to be explored. On one claim, recent stripping has uncovered 4 parallel veins occurring in a zone 30 feet wide. In general, the ore minerals are in veins averaging approximately one foot wide and occur either as lead-silver ore, lead-silver-zinc ore, zinc ore, lead-barite ore, or lead-zinc-barite ore. From geologic evidence it is estimated that total reserves inferred from these narrow veins will be in the magnitude of thousands of tons.

The proposed stripping of outcrops and opening of old adit portals on the relatively steep slopes of Glacier Mountain is a cheap and rapid method of prospecting and exposing vein structure. This method of exploration has proven successful on this and other properties.

The narrow and discontinuous ore bodies along the veins can be mined profitably only by a system of small individual leasing and "split-check" operations. This is the present method of operations.

Milling facilities readily adaptable to treat the variety of complex ores involved are a necessity. These facilities are expected to be

furnished by the new custom mill now being built by the Glasier Mill Company on the property of Burke-Martin Mines Company.

It is recommended that this application for a loan to explore for lead and zinc (DMA Docket 1779X) be approved.

BURKE-MARTIN MINES COMPANY

MONTEZUMA MINING DISTRICT

SUMMIT COUNTY, COLORADO

DMA DOCKET 1779X

Geology

By Truman H. Kuhn, Geologist
U. S. Geological Survey

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BURKE-MARTIN MINES COMPANY
MONTEZUMA MINING DISTRICT
SUMMIT COUNTY, COLORADO

INTRODUCTION

The Burke-Martin Mines Company--Thomas E. Martin, Montezuma, Colorado, owner and lessee--has applied for a $20,000.00 loan (DMA Docket 1779X) to explore for lead and zinc on a group of 44 mining claims controlled by the company. The claims are located in the Montezuma Mining District, Summit County, Colorado, section 35, T. 5 S., R. 76 W. and section 3, T. 6 S., R. 76 W., on the northeast slope of Glacier Mountain.

The property was examined on August 14 and 15, 1951, accompanied by C. M. Harrer, engineer for the U. S. Bureau of Mines.

Geology of the general Montezuma area, including the property of the Burke-Martin Mines Company, is discussed in the following reports:

1. Patton, H. B., The Montezuma Mining District, Summit County, Colorado: Colorado Geological Survey, First Report, 1908;
2. Lovering, T. S., Geology and Ore Deposits of the Montezuma Quadrangle, Colorado: U. S. Geological Survey Professional Paper 178, 1935;
3. Lovering, T. S., Geology and Ore Deposits of the Front Range, Colorado: U. S. Geological Survey Professional Paper 223, 1950;
4. Vanderwilt, John W., Mineral Resources of Colorado: State of Colorado Mineral Resources Board, 1947.

GENERAL GEOLOGY

The general geology of the Montezuma region in the vicinity of the subject property is described on page 4 of "Geology and Ore Deposits of the Front Range, Colorado," by Lovering as follows:

> "A large stock of porphyritic quartz monzonite lies just north of the town of Montezuma and is nearly surrounded by pre-Cambrian rocks - - - . The Idaho Springs formation covers most of the eastern half of the district, and the Swandyke gneiss is prominent to the southwest and west. Dikes of porphyry are abundant in the mineral belt southeast of the stock. Mineralized fissures nearly all trend northeast, but several strong northwest faults occur in the area south of the stocks and although poorly mineralized themselves, some have localized ore in the northeasterly veins that cross them. The ore deposits are mesothermal veins containing gold, silver, galena, sphalerite, sulfarsenides, and sulfantimonides of silver and copper with some bismuth. - - - In a southeasterly branch of the mineral belt extending from Glacier Mountain to Hall Valley, barite and gray copper ore is common, and locally bismuth is found. - - - "

BURKE-MARTIN GROUP

On the Burke-Martin group of claims are a number of veins, of which the principal accessible ones are: Albany, Bell-Silver Wing, Old Timer, and St. Joseph. These known veins are related to premineral faults, vary in strike from north to N. 60 E., and generally dip to the northwest approximately 60°. On an average, the width of the veins varies

from 6 to 24 inches. On one system, the Old Timer, recent stripping has exposed four parallel veins, carrying galena, sphalerite, and ruby silver, occurring in a zone 30 feet wide. Wherever seen, the wall rock is a pre-Cambrian biotite-hornblende gneiss. The observed sulphide minerals are sphalerite, galena, with minor amounts of pyrite and some ruby silver. Oxidized lead, zinc, and iron minerals occur in minor amounts and appear to be restricted to near the surface. Quartz is the chief gangue mineral and is associated with minor barite and ankerite. The ore occurs within the vein in relatively small and discontinuous pods and masses.

Many of the veins cannot be studied; overburden covers most of the surface, and old prospect pits and portals are caved. It is the intent of Burke-Martin Mines to uncover, by stripping and trenching, the veins occurring on 13 claims. If ore is found, the company plans to lease the various claims to small groups of miners who would be better able to successfully mine the narrow veins.

ORE RESERVES

The purpose of the exploration work is to uncover veins not now exposed; thus, it is not possible to give a definite estimate of ore reserves. Judging from the accessible workings and past production, it is reasonable to expect a vein width of approximately one foot and ore, if found, will be in the magnitude of thousands of tons.

CONCLUSIONS AND RECOMMENDATIONS

Numerous, narrow, and essentially parallel veins are present on the northeastern slope of Glacier Mountain and have produced at least 5,000

tons of shipping ore. Lead, zinc, and silver ore minerals are known to occur on many of the claims that are to be explored. On one claim, recent stripping has exposed 4 parallel veins occurring in a zone 30 feet wide. In general, the ore minerals are in veins averaging approximately one foot in width and include lead-silver veins, lead-silver-zinc veins, zinc veins, lead-barite veins, and lead-zinc-barite veins. From geologic evidence it is estimated that total inferred reserves from these narrow veins will be in the magnitude of thousands of tons.

It is recommended that this application for a loan to explore for lead and zinc (DMA Docket 1779X) be approved.

BURKE-MARTIN MINES COMPANY
MONTEZUMA MINING DISTRICT
SUMMIT COUNTY, COLO.

Engineering Report

By C. M. Harrer
Mining Engineer
Bureau of Mines

BURKE-MARTIN MINES COMPANY
MONTEZUMA MINING DISTRICT
SUMMIT COUNTY, COLO.

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BURKE-MARTIN MINES COMPANY
MONTEZUMA MINING DISTRICT
SUMMIT COUNTY, COLO.

ENGINEERING REPORT

By

C. M. Harrer

INTRODUCTION

The Burke-Martin Mines Company, represented by T. E. Martin, of Montezuma, Colo., has applied for a $20,000.00 exploration loan under the Defense Production Act of 1950.

Field examination of the property was completed on August 15, 1951, by an engineer of the U. S. Bureau of Mines, Colorado Branch, Region IV, and a member of the U. S. Geological Survey, in the company of Mr. T. E. Martin, owner and lessee.

ACKNOWLEDGMENTS

T. E. Martin, loan applicant, spent the best part of the days August 14 and 15 in the field with the examining team and was most cooperative. Messrs. T. E. Martin, J. H. Myers, and A. B. Marlin, interested parties, later spent several hours with the examining engineer in detailing the desired exploration program and estimating costs. A. J. Martin, of the Economics Branch, U. S. Bureau of Mines, furnished available production statistics on the group of claims under consideration.

LOCATION, TOPOGRAPHY, AND PHYSICAL FEATURES

Burke-Martin Mines Company property (fig. 1) is in sec. 35, T. 5 S., R. 76 W., and secs. 2 and 3, T. 6 S., R. 76 W., Montezuma Mining District, Summit County, Colo., on the east slope of Glacier Mountain, at altitudes ranging between 10,500 and 11,600 feet.

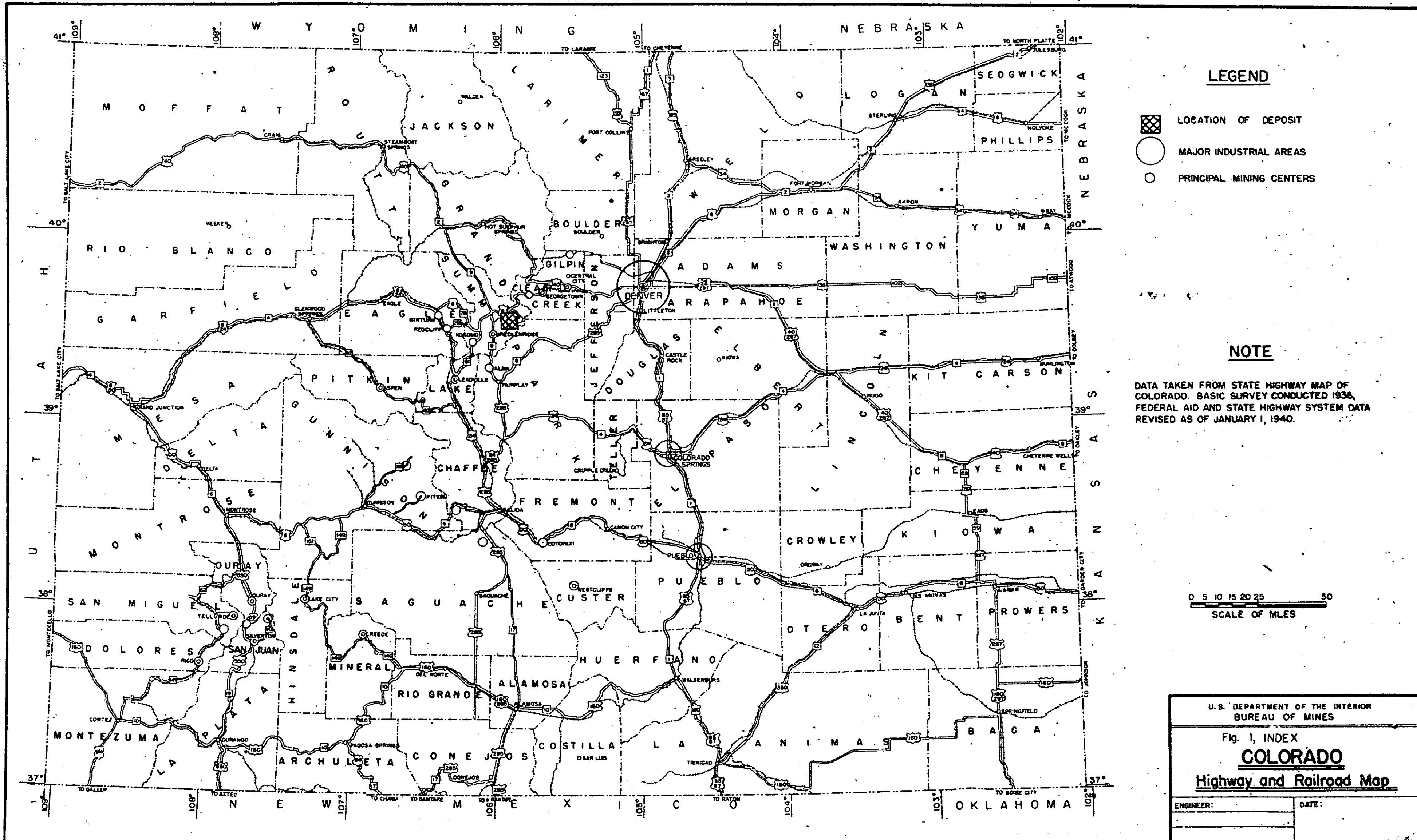


Fig. 1 - INDEX MAP, BURKE-MARTIN MINES CO. SUMMIT CO. COLORADO. DMA-1779X

This district and the nearby town of Montezuma are serviced by U. S. Highway 6 and Colorado County Highway 294. Northerly, beyond Montezuma, most mining properties are accessible over steep and rough access roads, suitable for ore hauling only.

The Snake River and Deer Creek valleys are narrowly confined between the steep and rugged slopes of Glacier and Collier Mountains, which are well forested to timberline at about 11,000 feet altitude.

Water is available from mine workings, intermittent stream drainage, and Snake River and Deer Creek in the valley floor.

Summers are short and equable; winters are cold with heavy snowfall and attendant danger from snow slides.

HISTORY AND PRODUCTION

Production and historical records for the claims under consideration are very sketchy and incomplete.

The Bell-California group of claims were located in 1866 and have an incomplete production record of 2,300 tons of galena ore assaying 20 ounces silver per ton and 39 percent lead. During 1925-26, 1,047 tons of galena-sphalerite ore were produced, averaging 15 ounces silver per ton, 39 percent lead and 30 percent zinc.

The St. Joseph claim has a 2-feet vein of sphalerite ore exposed, averaging 23 percent zinc.

The Silver Wing, which is an extension of the Bell vein, shipped 146 tons of lead-zinc ore during 1875-- 1950, assaying 0.01 ounce gold and 12 ounces silver per ton, 13 percent lead and 19 percent zinc.

Total production from the Burke group of claims, from U. S. Bureau of Mines statistics is 254 tons of zinc-lead ore, averaging 0.02 ounce

gold and 4 ounces silver per ton, 15 percent zinc, 4 percent lead and 0.06 percent copper. This is the inseparable production of a group of 22 claims which include the Trenton, Idaho, and Silver Wing.

The Mark Twain lode was discovered in 1881. Production for the years 1882-85 was 190 tons. The ore was reported as 8 inches thick, containing galena and gray copper and about 140 ounces silver per ton.

The Old Timer claim was located in 1881. The vein was reported as 6 to 10 inches thick, consisting chiefly of galena and quartz. Production total for the years 1881-83 was 20 tons, averaging 3 ounces silver per ton and 11 percent lead.

The Hancock vein was discovered in 1881 but was never mentioned as a producer. The vein has been reported as galena in a quartz gangue.

The Merrimac claim is believed to be an extension of the Tiger, which was reported as 6 feet wide with 8-inch paystreaks along the walls. In 1888, the Colorado Mining Directory reported the Tiger vein as containing galena, gray copper, and chlorides in a quartz gangue. The ore assayed 100 to 150 ounces silver per ton and 55 percent lead. Ore in the dump contains galena and sphalerite in a quartz and barite gangue, and the vein is estimated at about 9 inches thick.

The Trenton claim had a reported production of 7 tons during 1895 - 1920, which averaged 0.01 ounce gold and 42 ounces silver per ton, and 53 percent lead.

The Idaho claim produced 2 tons of lead ore during 1899, which averaged 0.01 ounce gold and 32 ounces silver per ton, and 46 percent lead.

The Echo claim produced 10 tons of ore during 1919, which averaged 0.02 ounce gold and 35 ounces silver per ton, and 10 percent lead.

The Celtic in combination with the Denver lode produced 731 tons of ore during 1923-24, which averaged 0.007 ounce gold and 8 ounces silver per ton, 5 percent lead and 3.6 percent zinc, with a minor amount of copper.

A 5-foot sample across the vein on the Illinois claim during 1950, assayed one ounce silver per ton, 2 percent lead and 10 percent zinc.

All the claims under consideration show some evidence of early day mining operations. These mine workings are now caved and more or less obliterated.

OWNERSHIP AND EXTENT

A compact group of 44 mining claims, figure 2, on the east slope of Glacier Mountain are owned or controlled by various lease and bond agreements detailed in the appended tables 1 to 6, inclusive.

Ownerships and lease agreements with the exception of that in table 5 are recorded at Breckenridge, Colo., the county seat of Summit County. The last mentioned lease was not recorded by request of the lessor. All signed leases were examined and verified.

DESCRIPTION OF THE DEPOSITS

The bulk of metals produced has been zinc and lead with very minor amounts of copper. Sphalerite-galena-silver ores occur as lenticular and discontinuous shoots with weakly mineralized intervening areas. Veins are generally narrow with a northeasterly trend and will not support large scale mining ventures. Small scale leasing and "split-check" mining operations, however, should prove successful.

Oxidation is unimportant in the outcrop and there is little possibility of secondary enrichment in depth.

Walls of accessible stopes are generally firm and require little support, and the accepted mining method has been open stoping with occasional stull support.

Veins are generally covered with a shallow mantle of overburden.

SAMPLING

Three character samples, H-526 to H-528, inclusive, were taken across surface exposures. H-526 was taken across 2.2 feet of vein on the Silver Wing vein outcrop and assayed 1.5 ounces silver per ton, 2.3 percent lead, and 0.3 percent zinc.

Sample H-527 was taken across 3.0 feet of vein outcrop on the Illinois claim and assayed 11.3 ounces silver per ton, 6 percent lead, and 22.2 percent zinc.

Sample H-528 was taken across the largest of 4 veins exposed by a bulldozer cut on the Old Timer claim, over a vein width of 2.0 feet, and assayed 2.3 ounces silver per ton, 8.8 percent lead, and 1.3 percent zinc.

MINABLE ORE RESERVES

At present there are no minable ore reserves exposed on any claims of the group.

PRESENT STATUS

Burke-Martin Mines Company presently control a group of 44 mining claims of which the Silver Wing, Albany, Old Timer, and St. Joseph are now leased to small groups of miners who are preparing their surface plants and underground workings for active mining.

Early development on the remaining claims is entirely inaccessible and their only traces are the slumps over caved areas, outcrops, and old, mineralized dumps containing galena and sphalerite.

Burke-Martin Mines Company has recently entered into a verbal agreement with Paul Alishouse of Sheridan Lakes, Colo., for the use of a TD-18 International bulldozer which is being used to prospect and strip outcrops and old portals. In return, he receives one third of the net profits after mining on all ores exposed by this stripping. Mr. Alishouse appears willing to furnish an additional bulldozer, a TD-14 International, and a 1/2-yard Quickway power shovel, as encouragement dictates.

Bulldozer stripping of outcrops and old portals on comparatively steep slopes has already proven successful on the Old Timer, Illinois No. 2, and Albany claims, where ore has been exposed and portals of old adits were uncovered.

The recently organized Glasier Mill Company, of Denver, Colo., is erecting a 100-ton, combination flotation, and gravity concentration mill at the lower portal of the Silver Wing Mine to concentrate ores from the district on a custom basis, particularly those from the Burke-Martin Mines Company operations. Tungsten ore from the Breckenridge area will also be handled in a separate unit. Mill operation has been promised tentatively by September 15, 1951.

PROJECT PROPOSALS AND COSTS

Burke-Martin Mines Company propose to explore the most promising mineralized areas and outcrops on their various claims, figure 2, not presently leased, by stripping away overburden and exposing promising ore projects as project A. The portals of old adits, long caved, will also be cleared by stripping away overburden to bed rock as project B. This method of exploration and exposure for examination is expected to result in increasingly active mining by small lease and "split-check" operations.

The difficult terrain and operating conditions imposed on this project at altitudes of 11,000 to 11,600 feet above sea level make a close estimate of costs impossible. Trench locations are on very steep and difficultly accessible locations. Supplies are presently carried up on pack horses. The ground is rocky and considerable blasting, without drilling, is expected. Overburden may approach 14 feet in places and the positions of trenches may require change under adverse conditions.

Exploration intent is expected to be flexible enough to allow for field changes on the basis of increased knowledge.

Only the approximate locationsof the proposed trenches and mine portals are indicated in red on the accompanying claim map, figure 2. Lengths and widths of the proposed trenches are the exposures desired and do not include ramps or sloughs.

Time elements involved are based on the applicant's experience gained in several weeks' work under similar conditions. The applicant believes two bulldozers would be required, with the one working on pioneer service roads, project B, and the trenching.

PROJECT A: To explore the most promising mineralized areas and outcrops by stripping with a bulldozer.

Claim	Bulldozer Exposures Estimated Work	Days Required To Complete
Merrimac	2 exposures, 20 feet x 60 feet	2
Galena	1 exposure, 20 feet x 60 feet	3
Luella S.	2 exposures, 20 feet x 60 feet	6
La Salle	1 exposure, 20 feet x 60 feet	3
Northern	2 exposures, 20 feet x 60 feet	6
Pirate	1 exposure, 20 feet x 60 feet	3
Idaho	3 exposures, 20 feet x 60 feet	9
Trenton	2 exposures, 20 feet x 60 feet	6
Queen Bee	1 exposure, 20 feet x 60 feet	3
California-Bell	4 exposures, 20 feet x 40 feet	10
Illinois	1 exposure, 20 feet x 100 feet	5
Pacific	1 exposure, 20 feet x 40 feet	4
Total	21 exposures, 20 feet x 1,200 feet	60 days

It is here assumed that projects A and B will be carried on consecutively, employing only one bulldozer, and that project A can be completed within 60 days. To operate both projects simultaneously and facilitate service would require the use of an additional bulldozer. A TD-14 International bulldozer can be had on a rental basis from Paul Alishouse, of Sheridan Lakes, Colo., at the standard rental of $10.00 per hour.

Project A Costs:

Supervision (both projects A and B)

1 - superintendent, T. E. Martin, the applicant, at $450.00 per month

Total supervision per day 15.00

Equipment

1 - TD-18 International bulldozer with operator, furnished by Paul Alishouse, of Sheridan Lakes, Colo., at a rental of $12.00 per hour

Rental per 8-hour day 96.00

1 - local truck and driver will be used on an hourly rental basis of $2.50

Truck service per 8-hour day 20.00

Labor

2 - laborers will be hired at $1.50 per hour, paid overtime for work on Saturdays

Summary of Costs Project A:

Supervision, 60 days at $15.00 per day	$ 900.00
Labor (60 days at $24.00 per day	1,440.00
Labor (Overtime - 8 shifts total at $24.00 per shift	192.00
Rental TD-18, International bulldozer, 60 days at $96.00 per 8-hour day	5,760.00
Rental of service truck, 60 days at $20.00 per day	1,200.00
Total cost of trenching, Project A	$9,492.00

PROJECT B: To clear the portals of old caved adits by stripping to bedrock, with bulldozer and power shovel.

Claim	Days Required to complete
Idaho	2
Trenton	2
California-Bell, 6th level	2
Old Timer, 2nd level	2
Equipment moving time	10
Total time to complete job	18 days

Project B Costs:

Supervision (see project A) per day $15.00

Equipment

One bulldozer and a 1/2-yard Quickway power shovel will be used on a rental basis from Paul Alishouse, of Sheridan Lakes, Colo., as follows:

1 - TD-18 bulldozer, complete with operator, at $12.00 per hour
1 - 1/2-yard Quickway power shovel with operator, at $8.00 per hour

Combined rental per 8-hour day is $160.00

1 - local truck and driver will be used on a rental of $2.50 per hour.

Rental per 8-hour day will be $20.00

Labor

2 - laborers will be required for this job, at $1.50 per hour, each

Labor cost per day without overtime will be $24.00

Summary of Costs Project B:

Supervision, 18 days at $15.00 per day	$ 270.00
2 laborers - 18 days at $24.00 per day	432.00
3 Saturdays' overtime	36.00
1 - TD-18 bulldozer rental, 18 days at $96.00 per day	1,728.00
1 - Quickway power shovel rental, 18 days at $64.00 per day	1,152.00
1 - service truck and driver rental, 18 days at $20.00 per day	360.00
Total cost of opening portals, Project B	$3,978.00

Estimated
Total Cost of Proposed Exploration:

Project A	$ 9,492.00
Project B	3,978.00
100 assays for silver, lead, zinc, at $2.00 each	200.00
10 cases dynamite, at $12.50 each	125.00
Caps, fuse, etc., for both projects	50.00
1/ Underground rehabilitation	5,300.00
2/ Miscellaneous	855.00
Total cost of exploration	$20,000.00

1/ The 6th and lowest adit level of the Bell mine has a known length of 1,300 feet with the first 300 feet timbered. Lengths of adits on the Idaho and Trenton claims are unknown but assumed at 100 feet each. While most of the workings are expected to be accessible, it must be assumed that part will require rough rehabilitation for sampling and inspection.

2/ Miscellaneous includes social security, workmen's compensation insurance, small tools, timber, preparation of portals, sampling, and delays.

PROPOSED FINANCING

Burke-Martin Mines Company is already engaged in prospecting various surface exposures with the aid of a TD-18 bulldozer under a gentleman's agreement (verbal) whereby Paul Alishouse, of Sheridan Lakes, Colo., is furnishing the services of the bulldozer for 1/3 of the net profit from ores uncovered by it. This agreement will terminate when a loan is granted.

T. E. Martin, applicant, A. B. Marlin, who is related to Mr. Alishouse, and J. H. Meyers, long time local resident who is familiar with the properties and ore occurrence, are directly interested and expect to contribute their services to the project. T. E. Martin, who owns and controls the claims under consideration, has given assurances that Burke-Martin Mines Company is able to contribute on a 50 percent participation basis.

CONCLUSIONS

Numerous narrow and essentially parallel veins are known to exist on the northeastern slope of Glacier Mountain which have produced over 5,000 tons of lead-zinc ores of shipping grade.

Lead, zinc, and silver minerals are known to be present on many of the claims to be explored. Recent stripping on the Old Timer claim has exposed 4 parallel veins containing galena and sphalerite in a zone 30 feet wide.

In general, galena and sphalerite occur in veins approximately one foot wide, as lead-silver ore, lead-silver-zinc ore, zinc ore, lead-barite ore, and lead-zinc-barite ore.

Ore reserves are based on favorable geologic environment but are not sufficiently definite to form a basis for the estimation of minable reserves. The exploration program has merit.

The proposed stripping of outcrops and the opening of old adit portals on the relatively steep slopes of Glacier Mountain is a cheap and rapid method of prospecting and exposing vein structure. This method of exploration has proven successful on this and other properties.

The narrow and discontinuous ore bodies along the veins can be mined profitably by a system of small individual leasing and "split-check" operations, already instituted on a small scale.

Milling facilities sufficiently flexible and adaptable to treat the variety of complex ores involved are a necessity. These facilities are expected to be furnished by the new custom mill now being constructed by the Glasier Mill Company on the property of Burke-Martin Mines Company.

RECOMMENDATIONS

It is recommended that this application for a lead-zinc exploration loan of $20,000.00 under the Defense Production Act of 1950, DMA docket 1779X, on a 50 percent participation basis be approved.

APPENDIX

TABLE 1. - Mining claims held by Mr. and Mrs. T. E. Martin, of Montezuma, Colo., located in the Montezuma Mining District, Summit County, Colo.

Name	Patent Number	Description
Silver Wing	141	patented
Albany	6429	patented
Gold Drill	6429	unpatented
Pacific	6429	unpatented
California Extension	6429	unpatented
Illinois No. 2	6429	unpatented
Burke Tunnel Site	6429	unpatented
Burke Tunnel A	6429	unpatented
Burke Tunnel 3	6429	unpatented
Burke Tunnel 4	6429	unpatented
Protector	6429	unpatented

The above claims are free of outstanding indebtedness and all taxes are paid up, except those current.

TABLE 2. - Mining claims owned jointly by Mr. and Mrs. T. E. Martin, of Montezuma, Colo., and R. B. Strassberger, of Paris, France, located in the Montezuma Mining District, Summit County, Colo.

Name	Patent Number	Part owned by T. E. Martin	Part owned by R. B. Strassberger
Galena	16211-A	1/2	1/2
Luella S.	16211-A	1/2	1/2
La Salle	16211-A	1/2	1/2
Northern	16211-A	1/2	1/2
Pirate	16211-A	1/2	1/2
Idaho	16211-A	1/2	1/2
Trenton	16211-A	1/2	1/2
Pirate Mill Site	16211-B	1/2	1/2
Illinois	17642	1/2	1/2
Meteor	19490	2/3	1/3
Northern No. 2	19491	1/2	1/2
Idaho No. 2	19491	1/2	1/2
Nicholas	19492	1/2	1/2
Copeland	19492	1/2	1/2
Tangle	19492	1/2	1/2
Garrett	19492	1/2	1/2

That part of the foregoing patented mining claims owned by R. B. Strassberger is leased to T. E. Martin for a period of 5 years, commencing July 15, 1949, with an additional 5-year renewal clause. Mr. Martin has full power to assign or sub-lease any part.

Option-to-purchase for $25,000.00 is granted during the term of the lease, and all royalty payments will apply towards the purchase price.

A royalty of 5 percent computed on net smelter returns is stipulated for all ores assaying up to $50.00 per ton.

A royalty of 7 1/2 percent of net smelter returns is stipulated for all ores assaying $50.00 per ton and over. Net smelter returns are based on the gross value after deducting transportation, milling and smelter charges.

Smelter or ore buyer shall compute and pay said royalty direct to the lessor or his agent, or deposit same in a bank designated by him.

TABLE 3. - Mining claims controlled by T. E. Martin, of Montezuma, Colo., under a lease and bond agreement from the Bell Mining Company, of Salt Lake City, Utah, and located in the Montezuma Mining District, Summit County, Colo.

Name	Patent Number
Eureka	3484
St. Joseph	6737
El Montana	6802
Sunburst	12244
California	12244) Overlapping
Bell West	982A)

The above mining claims are held under a lease, with option-to-purchase for $105,000.00, agreement for a period of 3 years, dated December 1, 1950. Royalties will credit towards the purchase price.

Lessee will pay all taxes.

Lessee may sub-lease all or part of the above property, providing he notifies lessor thereof.

A royalty of 15 percent of the net smelter returns on the first carload shipped or equivalent tonnage is stipulated, and 20 percent on all subsequent shipments. Royalties are calculated on net mint, mill or smelter returns after deductions for transportation and treatment charges.

TABLE 4. - Mining claims controlled by T. E. Martin, of Montezuma, Colo., under a lease and bond agreement from Doris I. Sweeney, of Sherwood, Oregon, and located in the Montezuma Mining District, Summit County, Colo.

Name	Patent Number
Old Timer	1465
Echo	19540
Merrimac	19540
Queen	19540

The above patented mining claims are held under a lease, with option-to-purchase for $10,000.00, agreement for 5 years, dated November 1, 1950. The lease is renewable for an additional 5-year period, providing $2,500.00 has been paid in royalties. Royalties shall apply towards the purchase price. A royalty of 12 1/2 percent of the net smelter returns on all ores is stipulated.

TABLE 5. - Mining claims controlled by T. E. Martin, of Montezuma, Colo., under a lease and bond agreement from Elizabeth F. Deatherage, of Golden, Colo., dated July 14, 1951, and located in the Montezuma Mining District, Summit County, Colo.

Name	Patent Number
Mark Twain Extension	1788
Celtic	1823
Evening Star	1878
Morning Star	1928
Hancock	2011
Queen Bee	unpatented

The above mining claims can be purchased for $3,000.00 with the following stipulations, during the term of the lease:

(1) One thousand dollars is payable within 60 days from the date of the contract.

(2) Two thousand dollars is payable 12 months from the date of the first payment.

(3) A 10 percent royalty on the net mill and smelter returns on all ores shipped shall be paid to Elizabeth F. Deatherage as long as she lives. Thereafter, 10 percent royalty on the net mill and smelter returns on all ores shipped shall be paid to G. E. Hopkins, Burt Deatherage, and Lena Schmidt as long as they live.

All taxes shall be paid by the lessee.

TABLE 6. - Mining claims held by Mr. and Mrs. T. E. Martin, of Montezuma, Colo., and Paul Sweet, of Denver, Colo., in partnership, and located in the Montezuma Mining District, Summit County, Colo.

Name	Description
Sweetheart	unpatented location

EXPLANATION

Terrane covered by last ice sheets (Wisconsin)

Surfaces carved chiefly in early Pleistocene time.

Surfaces carved chiefly in middle and late Eocene, Oligocene, Miocene, and Pliocene time, during three interrupted erosion cycles

Surfaces carved chiefly in early Eocene time (Flattop peneplain)

Topography by Albert Pike, H.H.Hodgeson, Max J. Gleissner, and from Breckenridge special map
Surveyed in 1924

MAP SHOWING EROSION SURFACES OF THE MONTEZUMA QUADRANGLE, COLORADO

Scale 1/62500

1 ½ 0 1 2 3 4 Miles

Contour interval 50 feet

Datum is mean sea level

1935

TRUE NORTH MAGNETIC NORTH 14°
APPROXIMATE MEAN DECLINATION, 1924

Polyconic projection. North American datum
5000 yard grid based upon U.S. zone system E

WILLIAMS & HEINTZ CO., WASH., D. C.

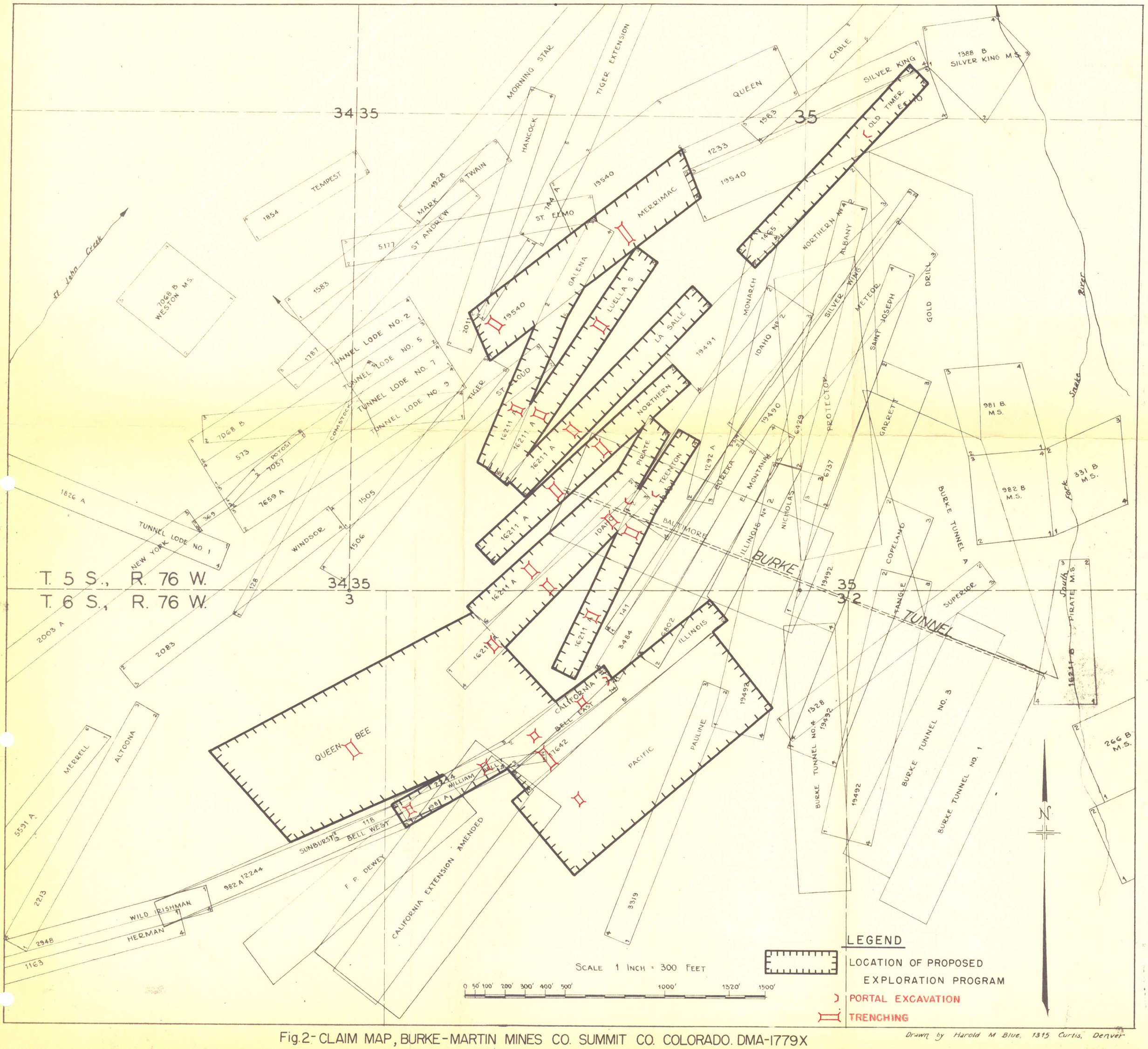
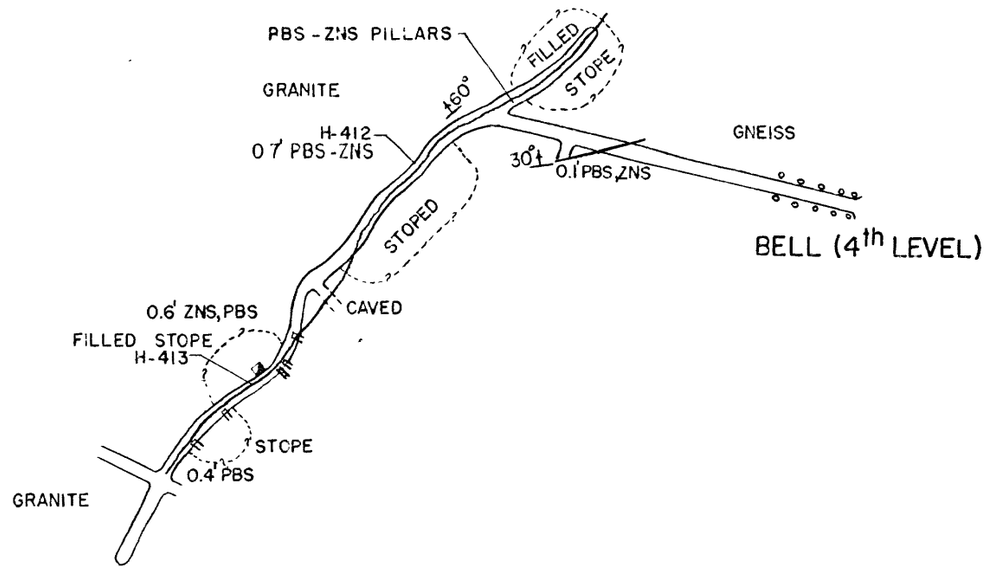
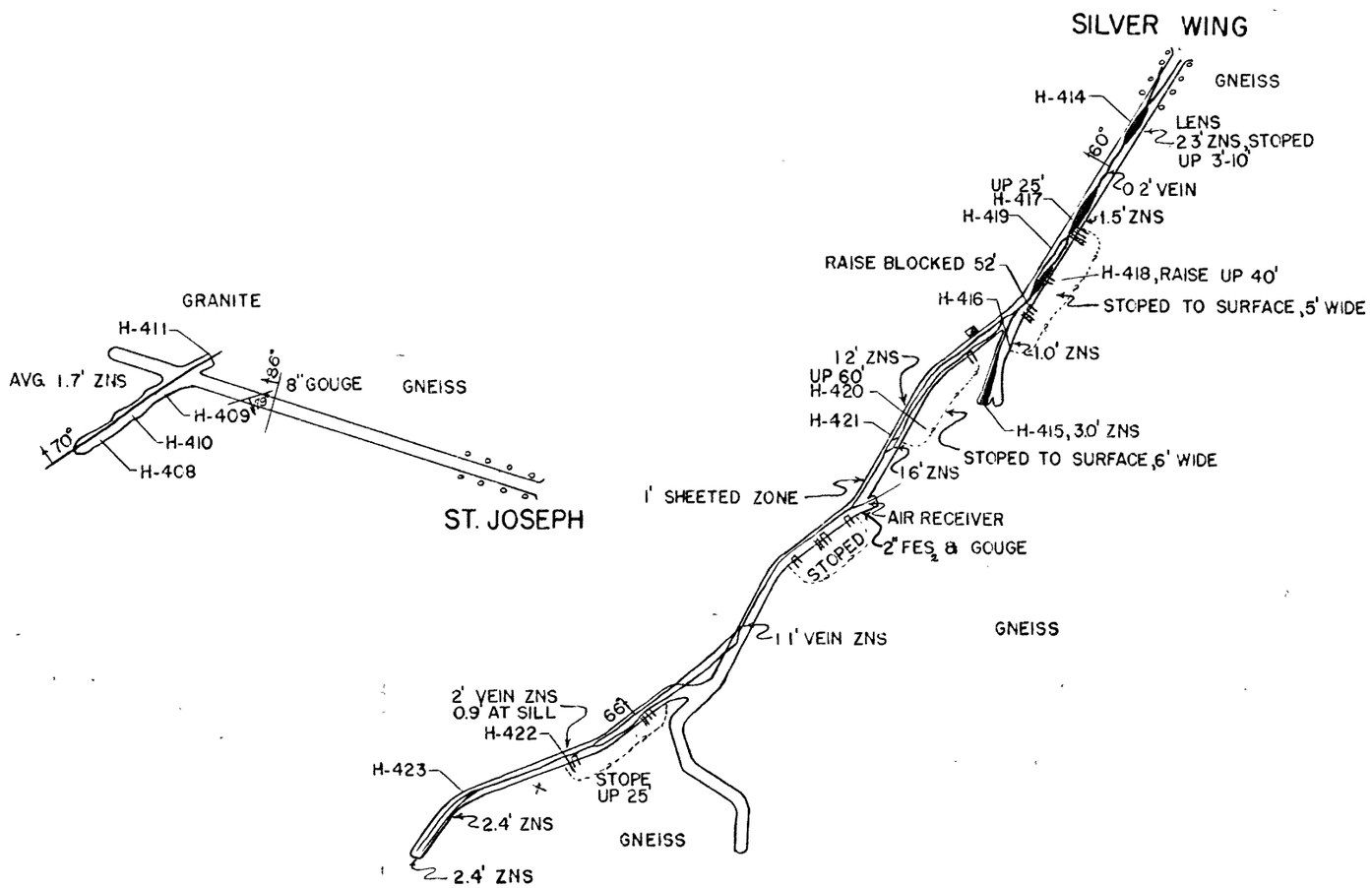


Fig. 2 - CLAIM MAP, BURKE-MARTIN MINES CO. SUMMIT CO. COLORADO. DMA-1779X

Drawn by Harold M Blue, 1315 Curtis, Denver



SAMPLE NUMBER	WIDTH FEET	%PB	%ZN	OZ. AU	OZ. AG
H-408	1.9	0.15	16.9	<.005	0.5
H-409	2.2	0.1	30.3	<.005	0.4
H-410	1.8	0.6	18.1	<.005	0.9
H-411	0.7	0.8	25.4	<.005	3.3
H-412	0.7	4.2	41.7	0.005	2.9
H-413	0.6	11.7	34.3	0.005	5.4
H-414	2.3	<0.1	28.45	0.005	1.9
H-415	3.0	0.4	19.8	<.005	1.2
H-416	1.0	0.5	33.3	<.005	1.5
H-417	1.5	1.2	17.65	<.005	2.1
H-418	5.0	0.65	1.7	<.005	1.0
H-419	1.6	3.75	21.85	0.01	2.6
H-420	1.2	0.35	7.0	<.005	0.7
H-421	1.6	4.85	8.05	0.01	6.2
H-422	2.0	0.35	6.95	0.015	1.3
H-423	2.4	1.2	24.5	<.005	2.9



VEIN
CHUTE
MANWAY
STOPE LIMITS
WINZE
LESS THAN
UNDERGROUND TIMBER

CONFIDENTIAL

0 50 100 200
SCALE OF FEET

FIG.2
BELL-BURKE-MARTIN GROUP

SUMMIT COUNTY, COLORADO

ENG'R: C.M. HARRER	DATE: JAN.5, 1951
TRACED: 1-5-51, D.L.R.	
CHECKED:	