UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE

~~Terminated~~ (~~or cancelled~~) without certification. DMEA No. 2015
rescinded

This is the official contract file containing all official records of the project. Duplicate material has been removed. The records contained in the files are checked and are arranged in this manner:

Left Side

Certificate of Audit (Final).

Interim Audit(s).

Report of Review.

Termination Notice or Agreement.

✓ Recision Notice.

Assignment of Contract.

✓ Contract Amendments (latest on top).

✓ Contract with all exhibits and annexes.

Owner's Consent to Lien.

✓ Subordination Agreement.

✓ Leases and assignments of leases.

✓ Application and attachments.

Schedule of Collections.

Operator's monthly reports and all attachments (latest on top).

Right Side

Project summary.

Work completed analysis.

✓ All other material is filed in chronological order with correspondence including the following reports as checked:

Final Field Team Report. (Tab)

Operator's Final Report.

✓ Interim Reports.

✓ On-site Exam Report(s). (Tab)

Settlement Sheets.

If additional folders are required because of volume of records, show folder numbers and contents below:

Maps in folder number_____

Operator's Monthly Reports in folder number _____

C

7973

Reviewer's Initials

Government Copy
Lead - Zinc

RESCISSION OF EXPLORATION PROJECT CONTRACT BY
AGREEMENT BEFORE WORK IS BEGUN

It is agreed this 14th day of August, 1952, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government", and Glen Zorn and C. E. Vanman, a partnership, 125 W. Porphry Street, Butte, Montana, hereinafter called the "Operator," parties to that certain Exploration Project Contract I-dm-E307, Docket No. DMEA-2015, dated the 28th day of April, 1952, that said contract shall be and is hereby rescinded, revoked, and cancelled as of the date of the contract, before any actions have been taken or costs incurred thereunder, without any obligation whatever, one party to the other, the same as if said contract had never been entered into.

Witness the following signatures as of the day and year first above written.

UNITED STATES OF AMERICA

By Glen C. Rice
For: M. E. Volin, Acting Executive Officer
DMEA Field Team, Region II

GLEN ZORN AND C. E. VANMAN
(Operator)

By Glen Zorn

By C. Edwin Vanman

Government Copy

(Amendment to Change Starting and Completion Dates)

AMENDMENT NO. 2

It is agreed this 24th day of June 195 2, between the United States of America, acting through the Department of the Interior, Defense Minerals Administration and Glen Zorn and C. E. Vanman, a partnership, 125 W. Porphyry St., Butte, Mont. (Docket No. 2015 lead-zinc)

each acting in consideration of the agreement to the other to the terms hereinafter set forth, that the Exploration Project Contract Idm-E307 of April 28 195 2 between the parties hereto be modified and amended to change the starting date from 60 (No. of day) to within 105 (No. of days) of the date of the contract and the completion period from nine (9) (No. of months) to ten (10) (No. of months) from the date of the contract. The effective date of this amendment shall be June 28 195 2.

This amendment is made by authority granted the Executive Office, DMA Field Team, Region II in Order No. 2684 by the Acting Secretary of the Interior.

This amendment shall not be construed to increase the estimated total cost of the project, the amount of the Government's contribution, or any item of allowable cost which is expressly designated "Allowable Maximum".

Executed in sextuplicate the day and year first above written.

DEPARTMENT OF THE INTE
Defense Minerals Administ
RECEIVED
JUL 21 1952

GLEN ZORN and C. E. VANMAN
(Operator)
By Glen Zorn

The United States of America
By A E Weissenborn
A.E.Weissenborn, Exec. Officer
DMEA Field Team, Region II

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

No. 157 Howard Street
Spokane 4, Washington

July 16, 1952

Memorandum

To: Frank E. Johnson, Chairman, Operating Committee, DMEA

From: DMEA Field Team, Region II

Subject: DMEA Docket No. 2015, Lead-Zinc, Exploration Project Contract Idm-E307, Zorn and Vanman Partnership, Boss and Atlantus claims, Cascade County, Montana.

Enclosed are the original and two copies of Amendment No. 2 to Exploration Project Contract Idm-E307.

This amendment is considered necessary to allow the Operator to obtain adequate financing.

By DMEA Field Team, Region II

A. E. Weissenborn, Exec. Officer
(U. S. Geological Survey)

M. E. Volin, Member
(U. S. Bureau of Mines)

Enclosure 1 (in trip.)

cc: USBM, Spokane
USBM, Albany

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
JUL 21 1952

Government Copy
Lead, Zinc

RECEIVED

JUN 10 1952

U. S. G. S.
SPOKANE, WASH.

AMENDMENT NO. 1

It is agreed this 28 day of May 1952, between the United States of America, acting through the Department of the Interior, Defense Minerals Administration and Glen Zorn and C. E. Vanman
125 W. Porphyry Street, Butte, Montana

each acting in consideration of the agreement of the other to the terms hereinafter set forth, that the Exploration Project Contract Idm-E307 of April 28, 1952 between the parties hereto be modified and amended as described in Exhibit/"B", attached hereto, which, with any maps or drawings attached thereto, is made a part of this agreement. The effective date of this amendment shall be May 28, 1952.

This amendment is made by authority granted the Executive Office, DMA Field Team, Region II in Order No. 2653 by the Acting Secretary of the Interior.

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total amount which the Government may be obligated to pay, or the percentage of costs which the Government may be obligated to pay, under the provisions of Article 13 of the contract form.

Executed in sextuplicate the day and year first above written.

Zorn & Vanman
(Operator)

By Glen Zorn

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 20 1952

The United States of America

By A. E. Weissenborn
A. E. Weissenborn, Exec. Officer
DMEA Field Team, Region II

Glen Zorn and C. E. Vanman
Exploration Project Contract Idm-E307
Amendment No. 1

Exhibit "B"

Changes and modifications

1. On page 1 of Contract, Article 3, change the starting date of the contract from "thirty (30) days" to "sixty (60) days" and completion time of the project from "eight (8) months" to "nine (9) months".

MF-200
(June 1951)
(Revised Feb. 1952)

DOCKET NO. DMEA 2015

COMMODITY Lead-zinc

Idm-E307

GOVERNMENT'S COPY

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

EXPLORATION PROJECT CONTRACT [1]

IT IS AGREED this 28th day of April, 1952, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and [2]

Glen Zorn and C. E. Vanman, a partnership
125 W. Porphyry Street
Butte, Montana

hereinafter called the "Operator," as follows:

ARTICLE 1. *Authority for contract.*—This agreement is entered into under the authority of the Defense Production Act of 1950, as amended, pursuant to DMEA Order 1 entitled "Government Aid in Defense Exploration Projects."

ARTICLE 2. *Operator's property rights.*—With respect to that certain land situated in the State of Montana, County of Cascade, described as follows: [3] Boss (3129) and Atlantus (3128) patented quartz mining claims; Sec. 29. T. 14 N. R. 8 E. M.P.M., Neihart Mining District

the Operator represents and undertakes: [4]

(*a*) ~~That the Operator is the owner, in possession and entitled to possession, and that the property is subject only to the following liens, encumbrances and conditions: The subordination agreement of the landlord~~

None

Landlord's Subordination Agreement

(*b*) That the Operator is a lessee, in possession and entitled to possession, and the ~~[illegible]~~ is attached.

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.

ARTICLE 3. *Exploration project.*—The Operator, within thirty (30) days from the date of this contract shall commence work on a project of exploration for [5] lead - zinc

in or upon the described land; and shall bring the project to completion within a period of eight (8) months from the date of this contract. The work to be performed is more fully described in Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, are made a part of this contract. The Government will contribute to the cost of this work as hereafter provided.

ARTICLE 4. *Performance of the work.*—(*a*) *Operator's responsibility.* The work shall be performed efficiently, expertly, in a workmanlike manner, in accordance with good mining standards and State regulations for health and safety and for workmens' compensation and employers' liability insurance, with suitable and adequate equipment, materials, and labor, to bring the project to completion within the time fixed. To the extent specified in Exhibit "A," attached hereto, the work may be performed by independent contractor or contractors; and work not specified in Exhibit "A" for performance by independent contractor may nevertheless be so performed upon amendment of Exhibit "A," as agreed to by the parties, to state the work to be so performed and the estimated unit costs thereof, as provided hereafter.

(*b*) *Independent contracts.*—Any independent contract for the performance of work shall be on a unit-price basis (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved), or on some basis that will indicate the amount due for work performed at any stage of the work to be performed under such independent contract. The Government shall not be nor be considered to be a party to any such independent contract, and the Government's right to terminate the exploration project contract under any of its provisions shall not in any manner be affected by reason of any such independent contract. If the reference in Exhibit "A" to any such independent contract states that the Government's approval thereof is required, the Government may refuse to participate in the cost thereof unless and until it has given its written approval of the independent contract.

(*c*) *Government may inspect.*—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.

ARTICLE 5. *Estimated costs of the project.*—A statement of the estimated cost of the project is set forth in Exhibit "A," attached hereto. Except insofar as any item of requirement or the estimated cost thereof set forth in Exhibit "A" is there or elsewhere designated as an "allowable maximum," such items of requirement and of related cost are estimates only, and may be exceeded to the extent that the Government may from time to time approve for the most economic and beneficial performance of the work within the limitation of the total aggregate estimate of costs. The Government's approval of any such excess over the estimate for an item of requirement or related cost will be signified by its approval and payment of any invoice or voucher for payment which expressly calls attention to such excess. Items expressly designated in Exhibit "A" or elsewhere as "allowable maximum," and the total aggregate estimated cost are limitations, and any excess therein will be for the sole account of the Operator in which the Government will not participate.

ARTICLE 6. *Allowable costs of the project.*—(*a*) The costs of the project in which the Government will participate are limited to the following:

(1) *Independent contracts.*—Payments to independent contractors under independent contracts listed in Exhibit "A." The estimated cost of any work to be performed under an independent contract is or shall be included in the estimate of costs in Exhibit "A" in terms of the estimated numbers of units of work to be performed, the estimated amount to be paid per unit, and the estimated total amount to be paid to the independent contractor, and such estimates shall be allowable maximums above which the Government will not contribute. Regardless of the provisions of any such independent contract, the Government will participate in the payments to the independent contractor only on account of work actually performed and that conforms with the provisions of the exploration project contract, and only to the extent that the Government deems the unit prices for the work under the independent contract to be reasonable and necessary. No such independent contract shall have the effect of increasing the estimated total cost of the exploration project contract nor the maximum amount which the Government will pay as provided in the exploration project contract.

(2) *Labor, supervision, consultants.*—Labor, supervision and technical services (including engineering and geological consultants), a schedule of which is included in the estimate of costs set forth in Exhibit "A." The requirements and related estimated costs for supervision and technical services are allowable maximums.

(3) *Operating materials and supplies.*—Necessary materials and supplies including items of equipment costing less than $50.00 each, and power, water, and fuel, a schedule of which is included in the estimate of costs in Exhibit "A."

(4) *Operating equipment.*—Any operating equipment to be rented or purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or the allowable depreciation, as the case may be, a schedule of which is included in Exhibit "A." Any items listed as owned and to be furnished by the Operator, and related initial allowable depreciation, are allowable maximums.

(5) *Rehabilitation and repairs.*—Any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and to be devoted to the purposes of the exploration contract, a schedule of which is included in the estimate of costs set forth in Exhibit "A." These items are allowable maximums.

(6) *New buildings, improvements, installations.*—Any necessary buildings, fixed improvements, or installations to be purchased, installed, or constructed for the purposes of the exploration work, with the estimated cost of each, a schedule of which is included in the estimate of costs in Exhibit "A." All of these items are allowable maximums.

(7) *Miscellaneous.*—Repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance and payroll taxes.

(8) *Contingencies.*—Such other necessary, reasonable direct costs of performing the exploration work, within the limit of the total aggregate estimate of costs, whether or not included in any schedule of costs in Exhibit "A," as may be approved by the Government in the course of the work, as indicated by its approval and payment of invoices and vouchers.

[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, particularly excluding any land or interest therein to which the Government's lien is not to attach or the production from which is not to be subject to the Government's percentage royalty.
[4] Strike out the provision not applicable.
[5] Name of mineral or minerals.

(*b*) The Government's payments in all cases will be based on actual, necessary costs (including contract unit prices) incurred not in excess of any "allowable maximum," and not in excess of the fixed percentage of the total aggregate estimated cost. Costs will be considered to be incurred only as they are or become due and payable.

(*c*) No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes) or any other indirect costs, 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.

ARTICLE 7. *Reports, accounts, audits.*—(*a*) *Progress reports.* The Operators shall provide the Government with monthly reports of work performed and costs (including contract unit prices) incurred under the contract, in quintuplicate (five copies), upon forms provided by the Government. These progress reports shall be certified by the Operator, and shall constitute both the Operator's invoice of costs incurred on the project during the period covered by the report and his voucher for repayment by the Government, unless the Government requires the use of a standard voucher form with invoice attached. Progress reports shall include surface and/or underground engineering-geological maps or sketches showing the progress of the exploration, with assay-reports on samples taken concurrently with the advance in mineralized ground.

(*b*) *Final report.*—Upon completion of the exploration work or termination of the contract the Operator shall provide the Government with an adequate geological and engineering report, in quintuplicate (five copies), including an estimate of ore reserves resulting from the exploration work.

(*c*) Compliance with requirements.—If, in the opinion of the Government, any of the Operator's reports are insufficient or incomplete, the Government may procure the making or completion of such reports and attachments as an expense of the exploration work; and the Government may withhold approval and payment of any vouchers depending upon insufficient or incomplete reports.

(*d*) *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. Upon the completion of the project or termination of the contract the Operator shall render a final account as provided in Article 12.

ARTICLE 8. *Payments by the Government.*—(*a*) The Government will pay 50 percent of the allowable costs incurred, as they accrue, in an aggregate total amount not in excess of $11,200.00, which is 50 percent of $22,400.00, the agreed, estimated total cost of the project in which the Government will participate; *Provided,* that until the Operator's final report and final accounting have been rendered to the Government, and any final auditing required by the Government has been made, and a final settlement of the contract has been made, the Government may withhold from the last voucher or vouchers such sums as it sees fit not in excess of ten (10) percent of the maximum total which the Government might have been called upon to pay under the terms of the contract.

(*b*) The Government may make any payment or payments direct to independent contractors and to suppliers, for the account of the Operator, rather than to the Operator.

ARTICLE 9. *Repayment by Operator.*—(*a*) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than 6 months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows:

(1) One and one-half (1½) percent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) percent of any such net amounts, plus one-half (½) percent of such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) percent of such net amounts.

(For instance: The percentage royalty on a net amount of five dollars ($5.00) per ton would be one and one-half (1½) percent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) percent.)

(*b*) As here used, "net smelter returns," "net concentrator returns," and "other net amounts realized from the sale or other disposition," mean gross revenue from sales; or if not sold, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be gross income from mining operations for percentage depletion purposes in income-tax determination.

(*c*) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(*d*) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

ARTICLE 10. *Assignment, transfer, or loss of Operator's interest.*—Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder. The Operator shall not make any voluntary nor permit any involuntary transfer or conveyance of the Operator's rights in the land described in Article 2, without making suitable provision for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof; *Provided,* that mere failure by the Operator to maintain the Operator's rights in the land, without any consideration running to the Operator other than relief from the cost of maintaining such rights (as by surrender of a leasehold, failure to perform assessment work, or failure to exercise an option), coupled with complete abandonment by the Operator of all interest in or operations on the land for a period of 10 years from the date of this contract, shall not constitute such a transfer or conveyance. Should the Operator make or permit any transfer or conveyance in violation of this provision, the Operator shall be and remain liable for payment to the Government of the same amounts, at the same times, as would have been paid under the terms of the percentage royalty on production. If for any reason the net smelter returns, net concentrator returns, or other net amounts realized from the sale or other disposition of such production are not available as a means of measuring the amount of the Operator's liability, the amount thereof shall be estimated as well as may be, and in the event of dispute as to such estimates, the determination thereof by the Administrator of Defense Minerals Exploration Administration or by his successor shall be final and binding upon the Operator.

ARTICLE 11. *Title to and disposition of property.*—All facilities, buildings, fixtures, equipment, or other items costing more than $50.00 each, paid for or purchased with funds contributed jointly by the Operator and the Government, although title may be taken in the name of the Operator, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the completion of the work or the termination of the contract shall be disposed of promptly by the Operator for the joint account of the Government and the Operator, either by return to the vendor, by sale to others, or purchase by the Operator at a price at least as high as could otherwise be obtained, as may appear to be for the best interest of the Government, unless the Government, in writing, waives its interest in any such item. If necessary to accomplish such disposition, the Operator shall dismantle, sever from the land, and remove any such item, the cost thereof to be for the joint account of the parties in proportion to their respective interests. If the Operator, within 90 days after the receipt of written notice from the Government, fails, neglects, or refuses to dispose of such property, the Government may itself enter upon the land, take possession of, and remove and dispose of any such property as above provided.

ARTICLE 12. *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 worth while 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 dispose of any remaining materials, supplies, facilities, buildings, fixtures, and equipment in which the Government has an interest, for the joint account of the Operator and the Government in the proportion of their respective interests; shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; and shall pay to the Government its pro rata share of any money remaining.

ARTICLE 13. *Changes and added provisions.* _____

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By C. D. Mittendorf
Acting Administrator, Defense Minerals Exploration Administration

Glen Zorn and C. E. Vanman
(Operator)

By Glen Zorn (Partner)

By C. E. Vanman (Partner)

I, _____, certify that I am the _____ secretary of the corporation named as Operator herein; that _____, who signed this contract on behalf of the Operator, was then _____ of said corporation; that said contract was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

_____

[CORPORATE SEAL]

U. S. GOVERNMENT PRINTING OFFICE 16—66328-1

EXPLORATION PROJECT CONTRACT
GLENN ZORN AND C. E. VANMAN
DOCKET NO. DMEA-2015

EXHIBIT "A"

Description of the Work

The purpose of this work is to prospect on the Rochester adit level for mineralization which was discovered on the surface 300' above. The work comprises reopening those sections of the 540' Rochester adit which may have caved; extending this adit 350' and drifting 200' on a favorable vein. The location, direction, and extent of the work is indicated on the attached map.

Estimated Costs of the Project

(* indicates allowable maximum)

The schedules of costs called for under Article 6(a) of the contract form for (2) Labor and supervision 1/ and (3) Operating materials and supplies are waived. These costs are included in the total estimated costs of the items of work, and the Government will contribute to them subject to allowable maximums specified.

Rates paid for labor may not exceed those established in the district for similar work. Contract labor may be engaged at unit rates not exceeding those paid for similar work in the district.

A shift boss may be paid not to exceed $100.00 per week.

(1) Independent Contracts

None

(4) Operating Equipment

To be rented:

None

To be purchased:

1 - Compressor (used)	$ 1,500.00	
1 - Jackhammer (used)	600.00	
2 - Mine cars (used)	200.00	$ 2,300.00*

1/ Engineering services are included under category (7) Miscellaneous.

	To be furnished by Operator		
	None		
(5)	Rehabilitation and Repairs		
	Rehabilitation of the Rochester adit 2/		$ 2,000.00*
(6)	New Buildings, Improvements, Installations		
	A building to house the compressor and provide storage space		1,000.00*
(7)	Miscellaneous		
	Engineering, sampling, assaying and contingencies		1,250.00*
(8)	Unforeseen		
	None		
	Costs Estimated in Terms of Units of Work		
	Extension of Rochester adit 3/, 350' @ $27.00/ft.	$ 9,450.00*	
	Drifting 200' @ $32.00/ft. 3/	6,400.00*	15,850.00*
	Total		$22,400.00*
	Government's participation @ 50%		$11,200.00*

2/ Includes mucking, timbering, installation of pipe and track, enlarging of the adit where necessary and labor, supervision and supplies.

3/ Includes supervision, labor, and supplies.

MF-202

LANDLORD'S SUBORDINATION AGREEMENT

Know All Men By These Presents:

Whereas, the undersigned is the owner in fee simple of that certain parcel of ground in the county of CASCADE, State of MONTANA, described in a certain Exploration Project Contract dated April 28, 1952, between Glen Gorm & C. E. Vanman, the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated JUNE 20, 1951, does by these presents subordinate all of ~~his~~ its right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

The undersigned further agrees that if said leasehold interest should be surrendered or if said lease should terminate at any time prior to the expiration of the rights of the United States of America under said Exploration Project Contract, the undersigned shall assume and does hereby assume all of the obligations of the Lessee under said Exploration Project Contract to make repayment to the United States of America according to the terms of said contract; and

The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this 27th day of NOVEMBER, 1951

Neihart Consolidated Silver Mining Company

By John E. Dawson
John E. Dawson, Vice-President

Attest Fred T. Brown
Fred T. Brown, Secretary

MF-200
(June 1951)

Docket No. DMA ________
Commodity Lead-Zinc

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] Glenn Zorn and C. E. Vanman, a partnership, ~~825 Madison~~, Apt. 5, Helena, Montana. 125 W. Broadway, Butte, Montana

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 Montana, County of Cascade described as follows: [3] Boss (3129) and Atlantus (3128) patented quartz lode mining claims; sec. 29, T. 14 N., R. 8 E., M.P.M.

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

(a) [illegible]

(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 30 days from the date of this contract shall commence work on a project of exploration for [5] 8 months; 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.

16—64066-2

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 50 percent of the approved costs incurred; *Provided,* That the aggregate total of all sums paid by the Government under this agreement shall not exceed $ 11,150.00, which is 50 percent of the agreed estimated total cost of this project, $ 22,300.00.

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

Zorn and Vanman
Exploration Project Contract
DMA Docket 2015

EXHIBIT "A"

Work to be Performed

Rehabilitate approximately 540 feet of existing Rochester adit crosscut; extend Rochester adit crosscut S. 60 E., 350 feet; drift 200 feet on the most favorable vein intersected.

Cost Estimate

1.	Construction of combination building for compressor and store room (total cost)	$1,000.00
2.	Rehabilitate adit 550 feet (total cost)	2,000.00
3.	Crosscut 350 feet at $27/ft. (supervision, labor and supplies)	9,450.00
4.	Drifting 200 feet at $32/ft. (supervision, labor and supplies)	6,400.00
5.	Cost of equipment	2,200.00
6.	Engineering, sampling, assaying and contingencies	1,250.00
	Total	$22,300.00

Time Schedule

1st month	Construct building; acquire and install equipment and rehabilitate 100 feet of adit.
2nd month	Complete rehabilitation of adit (450 ft.)
3rd, 4th & 5th months	Complete crosscutting (350 feet)
6th & 7th months	Complete drifting (200 feet)

Fixtures and Improvements

Construct a combination compressor, storage, and shop building. Total cost not to exceed $1,000.00

Operating Equipment

To be purchased:

1	compressor (used)	$1,500.00
1	jackhammer on shell, bits, steel and hoses	600.00
2	mine cars (used)	200.00
	Total	$2,300.00

To be rented:

None

To be furnished by Operator:

None

Labor and Supervision

1 shift boss at $100.00 per week.

Partners may hire labor at shift rates not to exceed rates established in the district and may contract labor at a unit price not to exceed prices paid for like work in the district. All contracts must be approved by the Field Team.

Rehabilitation and Repairs

Existing Rochester adit (approx. 550 feet) will be rehabilitated (sloughs cleaned up, timbered where necessary, retracked, pipe installed, and enlarged where necessary to allow equipment to pass).

MINE LEASE AND OPTION

THIS INDENTURE, made this 20th day of June, in the year of 1951, between Neihart Consolidated Silver Mining Company of Great Falls County of Cascade, State of Montana, Lessor, and Glen Zorn & C. E. Vanman of Butte, County of Silver Bow, State of Montana, Lessees: Witnesseth, that said lessor, for and in consideration of the royalties hereinafter reserved and covenants and agreements hereinafter expressed, and by the said lessees to be kept and performed, has granted, demised, and let and by these presents does grant, demise and let unto the said lessees all the following mine and mining property, situated in the Neihart Mining District, County of Cascade, State of Montana, to wit: The Boss Mining Claim Patent No. 3129 and The Atlantus Mining Claim Patent No. 3128

together with appurtenances.

To have and to hold unto the said leases, for the term of 3 years from date hereof, expiring at noon on the 20th day of June, 1954, unless sooner forfeited or determined thru the violation of any covenant hereinafter against the lessees reserved. However, it is agreed that this lease will be extended from time to time, for additional 2 year periods upon request by the lessees. Provided, that mining operations are being diligently performed at the date of said expiration.

And in consideration of such demise, the said lessees do covenant and with said lessor as follows, to wit:

1. To enter upon said mining claims, or premises, and work the same mine fashion, in a manner necessary to good and economical mining, so as to take out the greatest amount of ore possible, with due regard to development and preservation of the same as a workable mine, and to the special covenants hereinafter reserved.

2. To work and mine said premises as aforesaid in a manner which will result in the greatest amount of production when conditions permit. From the date of this lease at least Two Hundred man shifts of work shall be performed upon said premises each year.

3. To well and sufficiently timber said mine at all points where proper, in accordance with good mining practice, and to repair all old timbering wherever it may become necessary.

4. To allow said lessor and his agents from time to time, to enter upon and into all parts of said mine for purposes of inspection.

5. To pay lessor as royalty Ten (10%) per cent of the net mill or smelter returns of all commercial ore to be extracted from said premises, by delivery of such ore with all convenient speed in lots as mined, with due consideration being given to economy of transportation, to some mill or regular ore buyer, and leaving with such buyer the percentages of net returns aforesaid for delivery to the lessor.

6. To at all times fully comply with the provisions of the Workmens' Compensation Act and all other laws of the State of Montana pertaining to the employer of labor, and a failure at any time to fully comply with such provisions shall render this lease null and void.

7. To deliver to said lessor the said premises with appurtenances, and all improvements, including drifts, shafts, tunnels and other passages in goodoorder and condition, and the mine ready for immediate continued working (accident not arising from negligence along excusing) without demand or further notice on the said 20th day of June A.D. 1954 at noon, or at any time previous upon this lease becoming null and void as herein provided, subject, however, to the additional extension of the two year periods as herein above provided.

8. OPTION: And in consideration of the acceptance of the foregoing lease and the expenditures to be made thereunder and the well and faithful keeping of the covenants thereof, the lessees shall have the right to purchase the said demised premises by the payment of the sum of Twenty-five Thousand ($25,000.00) Dollars on or before the 20th day of June, A.D. 1954, unless further extended as above provided,

time being of the essence of the contract as to such payment. All sums of money paid to said lessor, by said lessees, in the form of royalties from ore extracted from said premises shall apply as payments on the purchase price of said premises.

And upon the tender of such payment the lessor will make, execute, acknowledge, and deliver at its own cost and charges, good and sufficient deed or deeds of warranty to be delivered to the lessees or such person or company as they shall nominate, conveying the said premises clear of encumbrances.

9. Each and every clause and covenant of this indenture shall extend to the heirs, executors, administrators and lawful assigns of all parties hereto.

In witness whereof, the said parties have hereunto set their hands and seals.

Fred C. Bennyoy

NEIHART CONSOLIDATED SILVER MINING CO.
Lessor

BY: John E. Dawson
Vice President

BY: Glen Zorn

C. Edwin Dawson

Lessees

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
So. 157 Howard Street
Spokane 4, Washington

August 24, 1951

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 2 8 1951

DMA A-20/15

Mr. Landon F. Strobel
Executive Secretary
Defense Minerals Administration
Department of Interior
Washington 25, D. C.

Dear Mr. Strobel:

Enclosed are three copies of an application for an exploration loan submitted by Glen Zorn and C. E. Vanman concerning the Boss and Atlantis mining claims, Niehart Mining District, Montana. Also included is a copy of a mining lease held by the applicants on the subject property. One copy of the application is being retained in this office to facilitate a field examination.

Very truly yours,

Thor H. Kiilsgaard

Thor H. Kiilsgaard
For: A. E. Weissenborn
Executive Officer, DMA
Field Team, Region II

Enclosures

cc: U.S.B.M.

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-20105

Date received 8-28-51

Participation

Glen Zorn & C.E.Vanman
417 W.Park. 814 So.Dakota
Butte Butte,Mont

Name and address of applicant

Date Aug.16,1951

FILL IN THIS BLOCK

Date of application Aug.16,1951

Estimated cost 10,800.00

Mineral or metal Zinc-Lead

Percentage of Government participation 50%

Location of mine One-half mile N.E.From Neihart,Montana in the Montana mining district.

Date of filing MF-100

DMA Docket Number, if available 20105

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.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 28 1951

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation? Partnership

*2. If a partnership, state names and addresses of partners. ——————/C.E.Vanman 814 So.Dakota St/ Butte,Mont.

*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. Both parties have more than Twenty years mining experience.

*5. Are you the owner or the lessee of the property? Lessee.

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. Lease 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. None new operation

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)? Yes

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

AUG 28 1951

2

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. Boss mining claim Pt.No.3I29 & Atlantus Mgn.Claim Pt.No.3I28

(*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted. Same

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. Same as above.

*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. Refer to attached sheet.

*13. State source and quantity of water available for operations and its sufficiency at all seasons. Rock creek,all season. State amount of power to be used, rate per hour or other cost, and source. See attached sheet.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work. None.

15. State in detail how the ore could be shipped and how and where milled. Custom mill at Neihart,Mont.

*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. None.

(*b*) State briefly the known history and production of adjoining and neighboring properties. See attached sheet.

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations. See attached sheet.

*17. Production:

(*a*) If mine is in production, furnish the following information: Not in production.

	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.) Non-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? Zinc-Lead.

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it. See attached sheet.

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. See attached sheet.

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. See attached sheet.

(*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. See attached sheet.

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.

Zorn & Vanman,a partnership. (Name of company) By Glen Zorn (Signature of authorized official)

Aug.16,1951. (Date) (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

APPENDIX.

Glen Zorn & C.E.Vanman
217 W.Park 814 So.Dakota.
Butte,Mont. Butte,Montana.

12. The Boss and /Atlantus mining claims are located One-half N.E. of the town of Niehart,Montana on U.S.Highway 89. An excellent gravel road passes thru the property. There is no railroad to Niehart at this time. Armington,Twenty-Six miles distance is the nearest shipping point by rail. Lead concentrates or crude lead ore can be shipped by truck directly to the A.S.& R smelter at East Helena,Montana,a distance of 120 miles for Five Dollars per ton. Zinc concentrates must be loaded on cars at Armington and shipped to the Anaconda Reduction plant at Great Falls,Montana.

13. Rock creek,flowing just West of the Boss claim,about Three Hundred feet from the west side line has ample water for all mining purposes.

Approximately 60 H.P. will be required for power. Electric power is available at Neihart. We expect to use gasoline motor power for the present. The cost will be approximately Seventy cents per hour.

16.(b) Production from the Hartley mine,which joins the Boss on the east,is in excess of $800,000.00 in lead-zinc and silver. No production since 1940. The Dacotah mine,which lies about 1500 feet North of the Boss,has a production record of more than 1,000,000 pounds of lead and 3,000,000 pounds of zinc in the periodof 1942-49.

(c) No metallurgical investigations or mine examinations have been made. However ,a strong vein has been exposed on the Boss claim. We beleive this to be the South extension,faulted section,of the Dacotah vein.

21. We propose to sink an inclined shaft,on the vein,120 ft,deep and drive 100 feet of drift. Estimated time required to complete,six months.

REQUIREMENTS AND COSTS.

23.				wages daily	5 day week.	
	(a)	Miners	2	@ $12.00 per day	$120.00	
		Hoistman	1	@ 12.50 " "	62.50	
	(b)	Supervisor	1	@ ----------	75.00	
		Total wages per week				$257.50
	(d)	Cost of necessary buildings,approximately.			$500.00	
	(e)	Compressor,used,approx.			1500.00	
	(	Jackhammer,steel,hoses and bits approx.			500.00	
		Mine car,pipe and rails,approx.			200.00	
		Total cost of equipment to be purchased.				$2700.00

(g) We own four wheel drive truck,hoist complete with motor and 400 ft cable.

(h) Dynamite,fuse and caps,estimated.	$642.00	
Timber,for shaft and drift, " .	653.00	
Power,gasoline and oil, " .	740.00	
Bit sharpening and repairs, " .	215.00	
Inds.accident ins,S.S. ect, " .	670.00	
Total		$2970.00

24. We estimate,three months will be required to complete the shaft sinking, and two months time for driving the drift. With an additional month for aquiring equipment,ect. Estimated total for wages. $5149.00

* Right to use "Rochester Tunnel"

IN THE DISTRICT COURT OF THE EIGHTH JUDICIAL DISTRICT OF THE STATE OF MONTANA, IN AND FOR THE COUNTY OF CASCADE.

JOHN J. STEWART, Plaintiff,	:	No. 28,962
vs.	:	E A S E M E N T.
BROADWATER CONSOLIDATED MINES, a corporation, Defendant.	:	

This contract, entered into between L. B. ESSELSTYN, as Receiver of BROADWATER CONSOLIDATED MINES, a corporation, and in behalf of the said corporation, party of the first part, and GLENN ZORN of 825 Madison, Helena, Montana, the party of the second part,

W I T N E S S E T H: That the said first party does hereby give and grant, for the covenants herein set out, an easement giving him the right of ingress and egress through a certain cross-cut tunnel known as the "Rochester Tunnel", which begins on the "Unity Quartz Lode Mining Claim", Survey No. 2911, and goes into and through the Rochester Quartz Lode Mining claim, Survey No. 2866. This easement is to last for ten years from the date hereof, and the said Glenn Zorn, for the use of the said tunnel, agrees to pay Ten (10¢) cents per ton for all ore going through the said tunnel from other properties than the properties of the Broadwater Consolidated Mines. There shall be no payment for waste rock going through the said tunnel, and any amount thereof is permitted to go through free, and be dumped on the land of the said Broadwater Consolidated Mines, and there shall be no payment for other use of the said tunnel, or of the said land for dumping,

provided that the dump be adjacent to the portal of the said tunnel.

Said Glenn Zorn is permitted to place buildings and machinery on the said Unity Claim, and to remove the same within four months after any work ceases.

This easement is made pursuant to an Order of the above entitled Court of date December 13th, 1951.

IN WITNESS WHEREOF the parties hereto have hereunto set their hands and seals this 20th day of December, 1951.

BROADWATER CONSOLIDATED MINES, a corporation,

L. B. ESSELSTYN
Receiver.

GLENN ZORN

Butte, Mont
Jan. 2, 1952

For value received I hereby assign a one-half interest to all right, priveledges and covenants under the foregoing Easement agreement to C. E. Vanman.

Glen Zorn

STATE OF MONTANA,)
: ss.
COUNTY OF SILVER BOW,)

On this 20th day of December, 1951, before me, A. G. SHONE, a Notary Public for the State of Montana, personally appeared L. E. ESSLESTYN, as Receiver of Broadwater Consolidated Mines, a corporation, to me known to be the person described in, and whose name is subscribed to the within instrument, and acknowledged to me that she executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Notarial Seal the day and year in this certificate above written.

A. G. SHONE
Notary Public for the State of Montana, residing at Butte. My commission expires April 18, 1953.

(NOTARIAL SEAL)

STATE OF MONTANA,)
: ss.
COUNTY OF SILVER BOW,)

On this 20th day of December, 1951, before me, A. G. SHONE, a Notary Public for the State of Montana, personally appeared GLENN ZOHN, to me known to be the person described in, and whose name is subscribed to the within instrument, and acknowledged to me that he executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Notarial Seal the day and year in this certificate above written.

A. G. SHONE
Notary Public for the State of Montana, residing at Butte. My Commission expires April 18, 1953.

(NOTARIAL SEAL)

FILE COPY
SURNAME:

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

MAY 25 1953

Mr. A. E. Weissenborn, Executive Officer
DMEA Field Team, Region II
South 157 Howard Street
Spokane 4, Washington

Re: Docket Nol DMEA 2015 (Lead-Zinc)
Glen Zorn and C. E. Vanman
Boss and Atlantus Claims
Cascade County, Montana
Contract No. Idm-E307

Dear Mr. Weissenborn:

With reference to your letter of May ~~11~~ 4, 1953, regarding the above docket, this project was definitely cancelled on August 14, 1952, before any work had been done or any costs incurred.

To attempt to reinstate this cancelled contract would, in effect, amount to executing a new lead-zinc exploration project contract, which is contrary to present existing regulations.

Sincerely yours,

W. S. Martin
ACTING Chairman, Operating Committee (JHB)

APPROVED:

J. H. Hedges (JHB)
Member, Bureau of Mines

A. R. Kinkel, Jr. (JHB)
Member, Geological Survey

WRGriswold/hmj
(5/19/53)
CC to: Docket
Adm. R. File
Op. Committee
Base Metals Division
Mr. Kinkel
Mr. Bishop
Chron.

J.H.
5-25-53

FILE COPY
SURNAME:

500

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

May 15, 1953

Memorandum

To: Chief Counsel

From: Chief, Base Metals Division

Subject: Docket No. DMA-2015, Glen Zorn and G. P. Vanman, Contract No. IDM-1307 — Rescinded

M. S. in R. R.

Referring to the attached letter from Mr. Weissenbron dated May 4, 1953, since this contract was cancelled as of August 14, 1952, it would be our feeling that to now give a new contract would be out of order. This is in view of the prohibition now existing against new lead-zinc contracts.

May we have your opinion?

The original project was never started, nor was any money expended.

W. R. Griswold

W. R. Griswold

WRGriswold/bjl

Copy to: Docket
Admr. R. File
Op. Committee
Base Metals Div.
Chron.

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

Spokane, Washington
May 4, 1953

Mr. Glen Zorn
641 W. Quartz Street
Butte, Montana

Subject: Docket No. DMEA 2015 (lead-zinc)
Boss and Atlantus Claims
Contract Idm-E307 (Rescinded)

Dear Mr. Zorn:

Your letter of April 27, 1953 regarding the subject docket is being referred to the Washington D. C. office of the Defense Minerals Exploration Administration for instructions as to the necessary procedure for reactivation of the exploration contract if such reactivation is possible.

It is probable that your request will be considered as a new application and if the project is approved again a new contract written. In our opinion, before a new contract can be considered it will be necessary for you to submit evidence that you are financially capable of carrying your share of the cost inasmuch as the original contract was rescinded because you were unable to arrange adequate financing. In addition, new Consent to Lien forms, completed by the owners of the property will have to be supplied.

Upon receipt of evidence that you are able to start and prosecute the work vigorously to its conclusion we will send you the necessary blank Consent to Lien forms, along with such information as we receive from the Washington, D. C. office.

By Field Team, Region II

A. E. Weissenborn, Exec. Officer
(U. S. Geological Survey)
157 South Howard Street

cc: Wash. (2)
USGS (2)
DMEA
D/F

H. E. Volin, Member
(U. S. Bureau of Mines)
1201 North Division Street

TEH/vf

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

Spokane, Washington
May 4, 1953

RECEIVED
MAY 11 1953

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Subject: Docket DMEA 2015 (lead-zinc)
Boss and Atlantus Claims
Contract Idm-E307 (Rescinded)

Dear Mr. Selfridge:

Enclosed is a copy of a letter from Glen Zorn, one of the partners concerned in the subject contract, inquiring about reactivation of the contract which was rescinded because the partnership was unable to finance its share of the cost of the project.

We are still of the opinion that the property merits exploration and we presume that if the applicant can furnish satisfactory evidence that he is financially able to do the work a new contract could be negotiated. Mr. Zorn has been requested to furnish such evidence which will be forwarded to you upon its receipt here.

If you agree that a new contract should be written, please advise us if anything other than the above mentioned information and new Consent to Lien forms will be required from Mr. Zorn.

By Field Team, Region II

A. E. Weissenborn

A. E. Weissenborn, Exec. Officer
(U. S. Geological Survey)
157 South Howard Street

M. E. Volin

M. E. Volin, Member
(U. S. Bureau of Mines)
1201 North Division Street

Enclosure

Wash

Noted

641 W. Quartz St.
Butte, Montana.
April 27, 1953.

U.S Dep. of Interior, D.M.E.A.
Mr. M. E. Volin,
1201 N. Division St.
Spokane 2, Washington.

Dear Mr. Volin:

Re: Exploration Project Contract Idm-E3C7.

Last August Contract rescission forms were signed by myself and Mr. Vanman in connection with Idm-E3C7.

It was my understanding at that time, that if, at some future time we were able to proceed as originally planned, the contract might be reactivated.

Please advise me if this is possible at this time and the procedure for doing so.

Sincerely yours

Glen Born

RECEIV

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

1201 N. Division St.
Spokane 2, Wash.
September 9, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 15 1952

MEMORANDUM

To: Chairman, Operating Committee, DMEA, Washington, D. C.

From: DMEA Field Team, Region II

Subject: Rescission Agreement, Contract Idm-E307, Glen Zorn and C. E. Vanman, Cascade County, Mont., Docket No. DMEA 2015 (lead-zinc)

Enclosed are the original and two copies of a Rescission of Exploration Project Contract by Agreement before Work is Begun, executed by the Operator and by Glenn C. Reed, Acting for the Executive Officer, DMEA Field Team, Region II. One copy of this agreement has been sent to the Fiscal Officer, one copy has been retained by the Operator, and one is being retained here.

The Operator was unable to arrange adequate financing for the project even though the contract was amended twice to extend the starting date.

By Field Team, Region II

RECEIVED
SEP 22 1952
GENERAL COUNSEL
DEFENSE MINERALS
ADMINISTRATION

For: Elmer K Nielsgaard
A. E.Weissenborn, Exec. Officer
(U. S. Geological Survey)

M E Volin
M. E. Volin, Member
(U. S. Bureau of Mines)

Enclosure

cc: USGS (w/encl)
Fiscal Officer (w/encl)

gds
9/14/52

Docket

FILE COPY
SURNAME:

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

SEP 5 1952

Mr. A. E. Weissenborn
Executive Officer, Region II
DMEA Field Team
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA-2015X (Lead-Zinc)
Glen Zorn and C. E. Vanman
Bess & Atlantus Claims
Neihart Mining District, Montana

Dear Mr. Weissenborn:

The memorandum of D. R. Irving to M. E. Volin, dated August 12, 1952, covering the status of this contract has been received, and it is noted that the work has not started as agreed in Amendment No. 2 which postponed the starting date of the work for the second time.

It is evident that the Operator does not have his share of the exploration funds and did not have them at the time of making the application and signing the contract. Therefore, as the Operator is unable to comply with the terms of the contract, we recommend that you terminate it as of August 12, 1952.

Sincerely yours,

Ernest Wm. Ellis (NB)
ACTING Chairman, Operating Committee
FXCorbett-mb
Sept. 4, 1952
Copy to: Docket
Adm. Reading File
Operating Committee
Mr. Keller (2)
Mr. Corbett
Mr. Bishop
Mr. McKnight
Region II

APPROVED:

J. H. Hedges (NB)
Member, Bureau of Mines

D. M. Lemmon (NB)
Member, Geological Survey

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.
1201 North Division Street
Spokane 2, Washington
August 14, 1952

Mr. Glen Zorn
125 W. Porphry St.
Butte, Montana

Subject: Rescission of Exploration Project
Contract Idm-E307, Docket 2015-(pb-zn)

Dear Mr. Zorn:

A contract rescission form (8 copies) is enclosed for signature by yourself and Mr. Vanman. The original and 6 copies are to be returned to this office and one copy retained for your file.

In the event conditions improve sufficiently to enable you to proceed as originally planned, we will be glad to assist you in such action as may be required to reactivate the contract.

Sincerely yours,

Glenn C. Reed
For M. E. Volin,
Acting Executive Officer
Field Team, Region II

Enclosures

cc: Wash. (2)
USGS (2)

M. E. Volin, Member, DMEA Field Team, Region II August 12, 1952

D. R. Irving, Mining Engineer, Mining Division, Region II

Interim Report, DMEA Docket No. 2015X (lead-zinc)
Glen Zorn and C. E. Vanman, partnership,
125 W. Porphyry Street, Butte, Montana
Boss & Atlantus claims, Neihart Mining District, Montana
Contract Idm-E307

Originally, work under subject contract was to start within 30 days from the signature date, April 28, 1952. On May 28, Amendment No. 1 was executed, extending the starting date to June 28. On June 24, Amendment No. 2 was prepared, extending the starting date 45 days from June 28, or until August 12, 1952.

On July 28, Mr. Zorn was interviewed in Butte, and he still had not been successful in arranging his financing.

If adequate financing has not been obtained by August 12, it is recommended that the contract be terminated after the expiration date of Amendment No. 2.

D. R. Irving

cc: USGS 2
Wash. 2
DRI

SD
Corbett

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

So. 157 Howard Street
Spokane 4, Washington

July 16, 1952

Memorandum

To: Frank E. Johnson, Chairman, Operating Committee, DMEA

From: DMEA Field Team, Region II

Subject: DMEA Docket No. 2015, Lead-Zinc, Exploration Project Contract Idm-E307, Zorn and Vanman Partnership, Boss and Atlantus claims, Cascade County, Montana.

Enclosed are the original and two copies of Amendment No. 2 to Exploration Project Contract Idm-E307.

This amendment is considered necessary to allow the Operator to obtain adequate financing.

By DMEA Field Team, Region II

A. E. Weissenborn, Exec. Officer
(U. S. Geological Survey)

M. E. Volin, Member
(U. S. Bureau of Mines)

Enclosure 1 (in trip.)

cc: USBM, Spokane
USBM, Albany

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 21 1952

$65
7-21-52

July 23, 1952

NOTE:

In regard to the last sentence in the letter of July 16, 1952, "this amendment is considered necessary to allow the Operator to obtain adequate financing", it is necessary to call attention to the provision in the application and/or contract which stipulates that the Operator must have funds available to pay his portion of the expenses at the time the contract is signed. Obviously this has not been complied with in this case.

F. X. Corbett

M. E. Volin, Member, DMEA Field Team, Reg. 11 July 10, 1952

E. G. Erickson, Mining Engineer, Bureau of Mines

Glen Zorn and C. E. Vanman, partnership, exploration project contract Idm-E307, Cascade County, Mont., Docket No. DMEA 2015X (lead-zinc)

Mr. Glen Zorn was contacted in Butte, Mont., June 21, 1952, and he stated he was going to Spokane, Wash., in quest of finances. The time allowed for starting contract is near the lapsing date; therefore he was asked to contact the Executive Officer and state his intention or capability of executing the contract.

E. G. Erickson

Orig. to files
cc: USGS (2)
Wash (2)
EGE

M. E. Volin, Member, DMEA Field Team, Reg. II June 17, 1952

E. G. Erickson, Mining Engineer, Bureau of Mines

Glen Zorn's exploration contract Idm-E307, Cascade County, Mont., Docket No. DMEA 2015 (lead-zinc)

Mr. Zorn was contacted in Butte, Montana, May 20, 1952. He had some questions about the contract and invoicing procedure which were answered. He has had some financing trouble and has requested an extension of the starting time, which has been granted.

Mr. Zorn hopes to start work in June.

E. G. Erickson

Orig. to files
cc: USGS (2)
Wash. (2)
EGE

JUL 7 1952

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

So. 157 Howard Street
Spokane 4, Washington

June 16, 1952

Chairman, Operating Committee
Defense Minerals Exploration Administration
Department of the Interior
Washington 25, D. C.

Re: DMEA-2015, Lead-Zinc
Contract Idm-E307
Zorn and Vanman

Dear Sir:

Enclosed are three copies of Amendment No. 1 to the subject contract. This amendment has been prepared to change the starting date and completion time of the project.

Sincerely yours,

K H Gray
Kathryn Gray
For: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

Enclosures

Noted

JUN 20 1952

SS-6-30-52

OFFICE OF THE ADMINISTRATOR

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION

WASHINGTON 25, D. C.

So. 157 Howard Street
Spokane 4, Washington

May 12, 1952

BL

Chairman, Operating Committee
Defense Minerals Exploration Administration
Department of the Interior
Washington 25, D. C.

Re: Contract Idm-E307
Zorn and Vanman
Cascade County, Montana

Dear Sir:

Enclosed are four copies of the subject contract which have been signed by the Operators.

Sincerely yours,

K H Gray
Kathyrn Gray
For: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 15 1952

Enclosures
cc: USBM, Spokane

FILE COPY 500
SURNAME:

FXCorbett
Moulds

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

APR 29 1952

Mr. A. E. Weissenborn
Executive Officer, Region II
DMEA Field Team
South 157 Howard Street
Spokane 8, Washington

Re: Docket No. 2015 (Lead-Zinc)
Glenn Zorn and C. E. Vanman

Dear Mr. Weissenborn:

Enclosed please find six copies of this contract signed by this office.

If this contract is satisfactory to you and the Operator, please have them signed and handled in the customary manner.

Sincerely yours,

SIGNED

CC
4-29

Chairman, Operating Committee
Defense Minerals Exploration
Administration

Enclosures - 6
APPROVED:

Member, Bureau of Mines

Member, Geological Survey

FXCorbett/hmj
4-25-52
CC to: Adm. Reading File
Docket File Copy
Operating Committee
Region II
Mr. McKnight
Mr. Bishop
Mr. Corbett
Mr. Moulds

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

So. 157 Howard Street
Spokane 4, Washington

April 23, 1952

Mr. Frank E. Johnson, Chairman
Operating Committee
Defense Minerals Exploration Administration
Department of Interior
Washington 25, D. C.

Re: DMA Docket No. 2015X (Lead-Zinc)
Boss and Atlantus
Cascade County, Montana

Dear Mr. Johnson:

On February 11, 1952, the DMEA Field Team, Region II, submitted to Washington, D. C., a memorandum recommending approval of the Boss and Atlantus exploration loan application.

Recently the applicant wrote this office inquiring as to the status of the application. Will you please advise this office as to the present status of the application.

Yours truly,

James J. Quinlan

James J. Quinlan
For: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

cc: USBM, Spokane

Department of the Interior
Defense Minerals Exploration Administration
RECEIVED
APR 25 1952

OFFICE OF THE ADMINISTRATOR

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION

WASHINGTON 25, D. C.

So. 157 Howard Street
Spokane 4, Washington

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 25 1952

March 25, 1952

Chairman, Operating Committee
Defense Minerals Exploration Administration
Department of the Interior
Washington 25, D. C.

Re: Docket DMA-2015
Boss and Atlantus
Cascade County, Montana

Dear Sir:

Enclosed is a change of address for the applicant, Mr. Glen Zorn. The new address is 125 W. Porphyry, Butte, Montana.

Sincerely yours,

K H Gray

Kathryn Gray
For: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

3-6-52

Defense Minerals Exploration Administration

Review of Application for Exploration Assistance

Docket No. DMA-2015

To: Mr. C. O. Mittendorf

Commodity Zinc-lead

Total Amount $22,300

Govt. Participation 50% - $11,150

1. Name and Address of Applicant Glenn Zorn, 825 Madison, Apt. 5, Helena, Montana and C. E. Vanman, 814 South Dakota, Butte, Montana

2. Location of Property Boss and Atlantus claims, Sec. 29, T. 14 N., R. 8 E., M.P.M., Neihart Mining District, Cascade County, Montana

3. Mineral or metal Zinc, lead, 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 See field team rpt - also discussion of item 16

c) None

d) Don't know—needs field examination

e) Is there an alternative and favorable project? No
(If so, attach an explanation)

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

6. If applicant is a lessee, is a copy of the lease attached?

Does the lease have sufficient time to run to cover a future productive period?

*question numbers are those of MF-103

7. Are subordination agreements necessary? Yes

a) MF-201? _____

b) MF-202 Attached to contract

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

a) Available manpower Yes

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)* Gasoline engine

Is a field check needed on any of these points? No

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* Field team nor application make no mention of applicants' experience

Is a field check needed on this point? _____

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

a) Is the project adequately described? Yes. See field team report and Exhibit A of contract

If not, are there sufficient data given so that you can describe the project? _____ If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work? Yes, see field team report.

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 worth-while exploration project?_____

d) Are the cost estimates detailed? Yes, see contract

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data?_____ If so, attach a draft.

e) Are the cost estimates reasonable? Yes

f) Should more information be requested from applicant? No

g) Is a field examination necessary to complete Exhibit A? Has been made

11. Exhibit B (question 23-d)*

a) Is it applicable? Yes

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

c) Is a field check needed? See contract

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

a) Is it applicable? Yes

b) Sufficient data?_____ If so, attach a draft.

c) Are rents and charges reasonable?_____

d) Is a field check needed? See contract

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

a) Are there sufficient data? Yes, see contract statement

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?_____

14. Exhibit E (question 23-c)*

a) Is it applicable? Yes, rehabilitation of Rochester adit is part of project

b) Sufficient data? _____

c) Reasonable? Yes

d) Field check needed? No

15. In your judgment, can the proposed work be done in the proposed time? Yes

(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
Erwin J. Lyons, GS

H. E. Olund
H. E. Olund, BM 2-29-52

O. M. Bishop
O. M. Bishop, BM

Date 3-6-52

16. The project as proposed does not give much evidence to support the thesis that commercial ore will be discovered. There is no evidence to show the depth at which the extended Rochester adit will cut the veins on the Boss Claim, nor is data given to indicate whether mining on the Hartley property was profitable. Production data given indicates values recovered per ton of ore were: 0.0025 oz. gold; 23.8 oz. silver; 0.16 lbs. copper; 60.5 lbs. lead, and 0.05 lbs. of zinc. In other words, gold, copper, and zinc values recovered were negligable, the ore being chiefly valuable for its recoverable 3% lead and 23.8 ounces of silver per ton.

This proposal is not particularly attractive because the veins that will be explored have already been opened at shallower depths on both sides of the proposed deep crosscut and were not of enough value to lead to any production. The only hope of the proposal is that a richer ore shoot will be hit at the depth indicated, which, of course, is always a possibility in vein deposits of this type.

O. M. Bishop
Mining Engineer

E. T. McKnight
Geologist

S.a.

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
So. 157 Howard Street
Spokane 4, Washington

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 1 [illegible] 1952

February 11, 1952

MEMORANDUM

To: Chairman, Operating Committee, DMEA

From: Field Team, Region II, DMEA

Subject: Proposed Exploration Project Contract, DMA Docket No. 2015, Lead-Zinc, Boss and Atlantus, Cascade County, Montana.

The following material is enclosed:

1. Six copies of a proposed exploration contract with exhibits and Landlord Subordination Agreements.

2. Four copies of a memorandum from James J. Quinlan and Willard P. Puffett, Geologists, U. S. Geological Survey, with accompanying maps.

3. Four copies of a memorandum from Mr. E. G. Erickson of the Bureau of Mines.

4. Five copies of an amendment to original application.

5. One copy of Easement Agreement between Broadwater Consolidated Mines and Glenn Zorn for use of Rochester adit.

6. Docket material forwarded to DMEA, Region II, to facilitate field examination.

Mr. Quinlan and Mr. Puffett's memorandum recommends a modification of the proposed exploration program outlined in the applicant's amended application. A tentative contract has been prepared for the recommended program and is submitted herewith. The Field Team recommends favorable consideration of the proposed contract.

By DMEA Field Team, Region II

A. E. Weissenborn

A. E. Weissenborn, Exec. Officer
(U. S. Geological Survey)

M. E. Volin

M. E. Volin, Member
(U. S. Bureau of Mines)

Enclosures
cc: USBM-Spokane

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
So. 157 Howard Street
Spokane 4, Washington

Reviewed by
DMEA OPERATING COMMITTEE
2-25-52
(date) JHB

February 8, 1952

ON-SITE EXAM

MEMORANDUM

To: A. E. Weissenborn, Executive Officer, DMEA
Field Team, Region II

From: James J. Quinlan and Willard P. Puffett, Geologists
U. S. Geological Survey

Subject: DMA Docket 2015 (Lead-Zinc)
Boss & Atlantus claims
Neihart, Montana
Field examiner's report

APPLICANT

The applicant is a partnership consisting of Glenn Zorn, 825 Madison, Apt. 5, Helena, Montana, (present address); 125 W. Porphyry, Butte, Montana, (address on date of application, 8/16/51); and C. E. Vanman, 814 So. Dakota, Butte, Montana.

RECOMMENDATION

The DMEA field examiners recommend that the partnership of Glenn Zorn and C. E. Vanman be granted an Exploration Project Contract in the amount of $22,300. The funds are to be used in exploring the veins exposed on the Boss (3129) and Atlantus (3128) patented quartz lode mining claims, Cascade County, Montana. The proposed exploration project includes: (1) rehabilitation of 540 feet of existing Rochester adit crosscut, (2) extension of Rochester adit crosscut S. 60° E. for a distance of 350 feet, and (3) drifting 200 feet on the most favorable vein intersected.

Similarity of veins exposed on the Boss and Atlantus claims to known veins with production records in the immediate vicinity of Neihart, together with sample results from gossan outcrops, indicate that exploration for extensions of the Boss and Atlantus veins at depth is warranted.

OWNERSHIP

The applicant's rights, title, and interest in the Boss (Patent No. 3129) and Atlantus (Patent No. 3128) mining claims are

held by a lease with option to purchase from the Neihart Consolidated Silver Mining Company, Great Falls, Montana, owner of the claims. A copy of the lease with option to purchase was filed with the application.

The applicant has obtained an easement agreement from L. B. Esseystyn, Receiver, Broadwater Consolidated Mines. The easement agreement specifies that the applicant has right to use the Rochester adit for transportation purposes, dump room at the portal of the adit, and the right to place buildings and machinery on the Unity claim. A copy of the easement agreement has been filed with DMEA.

The easement agreement states that the "Rochester tunnel" begins on the Unity claim, Survey No. 2911 and goes through the Rochester claim, Survey No. 2866. The map of this area compiled by the DMEA shows that the adit does not go through the Rochester claim, but ends 100 feet short of the east side line. However, any known veins which would be cut by extending the adit S. 60 E., 350 feet, should apex on the Boss claim, (see geologic section accompanying memorandum).

LOCATION AND ACCESSIBILITY

Boss (Patent No. 3129), Atlantus (Patent No. 3128), Rochester (Survey No. 2866), and Unity (Survey No. 2911) mining claims are in sec. 29, T. 14 N., R. 8 E., M.P.M., Neihart mining district, Cascade County, Montana. The claims, at an elevation of approximately 6,200 feet, are on the southwest slope of Neihart Baldy Mountain, one-half mile northeast of Neihart, Montana.

Neihart is in the central part of the Little Belt Mountains. U. S. Highway 89 connects Neihart with Great Falls, 67 miles northwest, and White Sulphur Springs, 43 miles south. The nearest railhead is Armington, Montana, on a branch of the Great Northern Railroad, 36 miles north of Neihart.

At present, lead-silver ores and concentrates produced in the Neihart district are trucked 118 miles to the American Smelting and Refining Company smelter, East Helena, Montana. Zinc concentrates are trucked to Armington, and from there are shipped 31 miles by rail to the Anaconda Copper Mining Company zinc plant, Great Falls, Montana.

HISTORY AND PAST PRODUCTION

Boss and Atlantus claims are part of the original Hartley mine claim group. The Hartley property was located in 1883 by William Mueller, who began shipping ore from the mine in 1901, and operated the property until 1917. In 1920 the Neihart Consolidated Silver Mining Company purchased the property from Mueller. This company

operated the mine from 1920 to 1924. Since 1924 the property has been intermittently operated by lessees. The applicant obtained the present lease on the Boss and Atlantus claims in 1951.

Production from the Hartley is reported to have been 64,423 tons of ore, from which were recovered 164.04 ounces gold; 1,535,426 ounces silver; 10,028 pounds copper; 3,894,765 pounds lead; and 3,000 pounds zinc. 1/ Most of the production is from the Hartley No. 3 vein, which crops out on the Hartley (3023) claim. The Hartley claim adjoins the east side line of the Boss claim. There is no recorded production from the Boss or Atlantus claim.

PROPOSAL

On November 1, 1951, the applicant amended application DMA-2015. The amendment details a two-stage exploration program costing $23,960. The program outlined by the applicant calls for 1,200 feet of diamond drilling to explore at depth the veins exposed in dozer trenches. Pending favorable results of the drilling program, the Rochester adit is to be extended 350 feet east, to be followed by 200 feet of drift on the most favorable vein intersected.

The applicant's amended application was referred to the Field Team for review. A copy of a memorandum from E. G. Erickson to M. E. Volin, U. S. Bureau of Mines, concerning the review is attached to this memorandum. Erickson, upon reviewing the application, determined that the applicant's estimated cost of the diamond drilling program is at least fifty percent low; also, the apparent possibility of duplication of effort and the percentage of saving that might be realized by a drilling program prior to extending the Rochester adit does not justify the cost of the diamond drilling program. The DMEA field examiners concur with Erickson's report and recommend that the drilling program be deleted from the proposed exploration program.

The following proposed program is recommended by the Field Team: rehabilitate approximately 540 feet of existing Rochester adit crosscut; extend Rochester adit crosscut S. 60° E., 350 feet; and drift 200 feet on the most favorable vein intersected. A tentative contract for $22,300 for the recommended program has been prepared and is submitted herewith.

WORKINGS

Underground workings on the Boss and Atlantus claims were inaccessible in September 1951. The underground Boss and Atlantus workings shown on the map accompanying this memorandum were taken

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1/ A. F. Robertson, Mines and Mineral Deposits (Except Fuels), Cascade County, Montana, U.S.B.M. I.C. 7589.

from a map by Reber.2/ A copy of Reber's map was furnished by the applicant at the time of the DMEA examination.

The Rochester adit crosscut that the applicant proposes to extend is 540 feet in length. Several short drifts are driven from the crosscut to explore exposed veins. This adit was accessible to the field examiners. It is estimated that the adit can be rehabilitated for a cost of $2,000.

The map accompanying this memorandum shows the workings on the Boss, Atlantus, Rochester, and Unity claims. It also shows two trenches recently bulldozed by the applicant.

GEOLOGY

In accessibility of underground workings, thick talus, and snow conditions prevailing at the time of the DMEA examination has made it necessary to rely on Paul Schafer's report on the Neihart district 3/ for much of the general geologic setting of the deposit.

A major portion of the metal production from the Neihart district has been from mines in the immediate vicinity of Neihart. This area is underlain by pre-Cambrian gneisses and schists. Schafer reports that two sets of veins belonging to the same system traverse the area, one set striking about N. 10° E., and the other set striking N. 30° E. to N. 50° E. "The two sets do not usually intersect, but generally merge into each other as splits, or merely change course from the direction of one set to that of the other." 4/

Schafer divides the ore deposits of the Neihart district into three groups on the basis of mineralogy and metal content. The productive veins in the immediate vicinity of Neihart are assigned to the group distinguished by "high lead-zinc content, carbonate and barite gangue, important silver and little or no gold." Downward extension of these veins are proportionately higher grade in zinc, and lower grade in lead and silver. 5/

2/ Reber, Map, Mining Claims of Neihart Consolidated Silver Mining Company at Neihart, Montana; Montana Mining District (Unorganized); Cascade County, Montana, April 1920.

3/ Schafer, P.A., Geology and Ore Deposits of Neihart Mining District, Cascade County, Montana; Montana Bureau of Mines and Geology, Memoir No. 13, July 1935.

4/ Schafer, P.A., op. cit. (Memoir No. 13).

5/ Schafer, P.A., op. cit. (Memoir No. 13) p. 28.

The Boss and Atlantus claims are in the heart of the mining area in the immediate vicinity of Neihart. The claims are underlain by gray-feldspar and red-feldspar gneisses. The red-feldspar gneiss is considered to delimit the productive portions of the Hartley No. 3 vein. (See map for relation of Hartley No. 3 vein to Boss and Atlantus veins).

Reber's 6/ map shows five vein structures exposed in workings on the Boss and Atlantus claims. These veins are numbered from west to east, Nos. 1 to 5 inclusive. The applicant recently completed a bulldozer trenching program, exposing several veins. (See map for location of trenches and relationship of veins exposed to those shown on Reber's map.)

A zone of highly altered gneiss is exposed for the total length of Trench No. 1. Megascopically, the altered gneiss consists of quartz crystals in a clay matrix of altered feldspars; the quartz crystals are elongated parallel to the gneissic banding. The No. 3 vein, 1 to 5 feet wide, striking N. 28° E. and dipping 82° NW, is exposed in the west end of the trench. Numerous stringers and veinlets, $\frac{1}{4}$ to 6 inches wide and roughly parallel to the vein structure, are exposed throughout the trench. The vein material is weathered to an iron and manganese gossan; no visible silver, lead, or zinc minerals were noted. Two samples were cut in this trench (see map for sample location).

Sample No.	Sample width feet	Silver ozs.	Lead percent	Zinc percent
1 (Vein structure)	5.0	3.1	2.4	3.3
2 (Stringer)	0.5	4.2	2.8	3.2

The No. 2 vein is exposed in Trench No. 2. Where exposed on the north side of the trench, it is a massive quartz vein with minor amounts of feldspar, gossan, pyrite, and galena. The vein is 3.2 feet wide and strikes N. 10 E., dipping 60 NW. The No. 2 vein, or possible split therefrom, is exposed 40 feet south of the massive quartz vein exposure. The vein is 3.4 feet wide striking N. 3 W. and dipping 55 W. The vein is weathered to an iron and manganese gossan. Two samples were cut in Trench No. 2 (see map for sample locations).

Sample No.	Sample width feet	Silver ozs.	Lead percent	Zinc percent
3 (Massive quartz vein)	3.2	6.8	0.1	1.3
4 (Gossan vein)	3.4	28.5	0.3	1.7

6/ Reber, op. cit

The applicant reports cutting the No. 1 vein; however, it is reported to have been covered by subsequent dozing.

Specimens of ore collected from the upper Rochester adit dump show sphalerite and galena associated with a gangue of ankerite, barite, quartz, and pyrite.

Three veins and several stringers exposed in the Rochester adit were inspected by the examination team. These veins are 1 to 3 feet wide, striking N. 5° E. to N. 30° E. and dipping 56° to 85° NW (see map for location and strike of individual structures). The vein filling is principally ankerite, barite, and quartz, with subordinate amounts of sphalerite and galena. Some ore from the vein, encountered 528 feet from the adit portal, is reported to have been shipped. The veins exposed in the adit should apex on the Rochester and Unity claims.

cc: USBM-Spokane

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

So. 157 Howard Street
Spokane 4, Washington

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 14 1952
JAN 14 1952

January 9, 1952

Mr. Donald E. Moulds
Acting Chief, Base Metals Division
Defense Minerals Exploration Administration
Washington 25, D. C.

Through: Operating Committee

Subject: Boss and Atlantus
(Lead-Zinc)
Neihart, Montana
DMA Docket No. 2015

Dear Mr. Moulds:

The Boss and Atlantus application was referred to the DMA Field Team by the Lead-Zinc Branch DMA on September 7, 1951. This letter is written to advise you of the present status of the referral.

Field examination indicates that the property merits exploration assistance. The most logical exploration program entails extending an adit crosscut from an adjoining property to explore the veins on the Boss and Atlantus claims. Before undertaking such a program, it would be necessary to obtain from the owners of the adjoining property an easement agreement for use of the adit. The applicant notified this office in November that such an easement would be obtained and forwarded to us. As of this date, the easement agreement has not been received.

The field report has not been completed because, if this easement agreement is not obtainable, a different exploration program would be indicated. As soon as the applicant submits the easement agreement or notifies this office that one is unobtainable, the field report will be completed and submitted to Washington for consideration.

Yours truly,

James J. Quinlan

James J. Quinlan
For: A. E. Weissenborn,
Executive Officer, DMEA
Field Team, Region II

C
O
P
Y

December 5, 1951

M. E. Volin

E. G. Erickson

Applicants' (Zorn and Vanman) proposed amendment to their application, DMA Docket 2015X

The amendment was referred to me by Mr. Quinlan of the U. S. G. S. office for review.

I found the applicants' estimate low for the proposed program. The major item is the diamond drilling, the estimated cost of which I consider to be at least 50 percent low. Setting the program up in two phases (Phase I - diamond drilling, and Phase II - crosscutting and drifting), it was found that Phase I would cost approximately $12,000 as it would necessitate rehabilitation of adit and purchase of equipment which would also be used in Phase II; Phase II would cost approximately $16,000.

It is believed that if the diamond drilling (which would consist of a maximum of 3 holes) was not conclusive, it would be logical to follow with Phase II before the existence or non-existence of an ore body could be determined. The apparent possibility of duplication of effort and the percentage of saving that might be made were brought to the applicants' attention. They immediately decided to eliminate the diamond drilling and explore by crosscutting and drifting. Present evidence disclosed by bulldozer trenching justifies the proposed exploration program without the preliminary drilling.

A cost estimate in the form of Exhibit "A" is herewith submitted for your approval.

E. G. Erickson

Enclosures:
Exhibit "A"
Applicants' letter

125 W.Porphyry St.
Butte,Montana
November,1,1951

Amendment to DMA-2015 application for aid for an exploration project.

We wish to ammend the original application DMA-2015 upon advice of a Mining Engineer,as follows;

16.(c) Two strong veins have been exposed by bulldozer trenches in addition to two other veins formely exposed by open cuts and shallow shafts. All are within the boundaries of the Boss miming claim Pt.No.3129.

One of the fracture zones opened by bulldozer is over One Hundred feet wide showing streaks and veinlets of oxidized material from Six inches to over Three feet wide seperated by narrow bands of highly altered Gneissic rock. The second vein is about One Hundred-Ten feet to the West and is a strong fissure from Four to Five feet wide.

A crosscut adit,known as the Rochester crosscut,has been driven Eastward from the Unity claim for a distance of about 550 feet. The face of this Adit is near the West side line of the Boss claim. Surveys recently made show that by extending this crosscut approximately 350 feet the four above mentioned veins will be cut at a depth of 400 feet to 450 feet.

The Unity and Rochester claims are owned by the Broadwater Consolidated Mines Co., c/o H.L.Maury Butte,Montana. Mr.Maury has assured me that an easement,for the use of the Rochester adit ,will be granted the applicants within the next Two weeks. The easement will provide for the payment of Twenty-Five cents per ton on all shipping ore and Ten cents per ton on all milling grade ore transported thru the Rochester adit.

We propose to extend the crosscut 330 feet and drift 200 feet on the vein. In a safe and conservative expenditure of a considerable sum of money for crosscutting, we propose as a preliminary program diamond drilling three or four drill holes for a total of approximately 1200 feet. Places are capable of a producing mine were encountered by diamond drilling no further exploration is contemplated.
Estimate: time required to complete diamond drilling one month, drifting, crosscutting.

Expenditure and Cost.

33.	Labor daily.		Per month.	
(a)	Miner 1 @ $12.00 per day		312.00	
	Miner 2 @ 12.00 " "		312.00	
(b)	Superviser		200.00	
	Total wages per month			824.00
(c)	Equipping, timbering, hoisting cable		300.00	
(d)	Necessary buildings, approx.		500.00	
	Rails for existing adit, "		50.00	
	Rails for existing adit "		200.00	
(e)	Compressor, 500 "		500.00	
	Equipment on shaft, stoping, hoist, hoses.		500.00	
	Rails, to complete project 350 feet at each, approx.		500.00	
	Two cars (2)		200.00	
	Total cost of facilities & equipment.			3,000.00
(f)	Gasoline, fuel, oil, grease, estimate.		375.00	
	Timber for 200 ft. drift, estimate.		150.00	
	Labor for mining and repairs.		800.00	
(g)	Other.		75.00	
	Miscellaneous items, not.		200.00	
	Total			1,600.00
	300 ft. diamond drilling @ 10.00	3000.00		3000.00
	Total cost, estimate.			8472.00
	Estimated total expenditure.			23,896.00

Approximately one month will be required to complete diamond drilling. Four holes will be required to explore crosscut and drift. This is a rational month for constructing buildings and equipping equipment.

Horn & Vaman, a partnership.

By, [signature]

November 2, 1931

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

SEP 7 1951

Mr. A. E. Weissenborn
Executive Officer, DMA Field Team
Region II
South 157 Howard
Spokane 8, Washington

Dear Sir:

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

Docket No. DMA-2015

Commodity Lead, zinc

Applicant Mr. Glen Zorn, 217 West Park, Butte, Montana

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

T. P. Thayer
For Geological Survey

6/5/51

Billings
Bishoff

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. DMA-2015

Commodity Lead, zinc

Total Amount $10,800

Govt. Participation $5,400

1. Name and Address of Applicant Mr. Glen Zorn, 217 West Park, Butte, Montana

2. Location of Property Boss and Atlantus claims, Neihart District, Neihart, Montana

3. Mineral or metal Zinc, lead 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 Yes

e) Is there an alternative and favorable project?
(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? Yes

Does the lease have sufficient time to run to cover a future productive period? Yes

*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 Yes

b) Equipment and supplies Yes
(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? No

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* Yes

_____

Is a field check needed on this point? No

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

a) Is the project adequately described? Yes

If not, are there sufficient data given so that you can describe the project? _____ 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? Yes

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? Yes If so, attach a draft. see draft attached

e) Are the cost estimates reasonable? Yes

f) Should more information be requested from applicant? No

g) Is a field examination necessary to complete Exhibit A? No

11. Exhibit B (question 23-d)*

a) Is it applicable? Yes

b) If so, are sufficient data furnished? No If so, attach a draft.

c) Is a field check needed? Yes

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

a) Is it applicable? Yes

b) Sufficient data? Yes If so, attach a draft.

c) Are rents and charges reasonable? Yes

d) Is a field check needed? No

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

a) Are there sufficient data? Yes

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

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

d) Are the proposed wages and salaries reasonable? Yes

e) Is a field check needed? No

10.	(d)	Labor and supervision.....	$ 5,149.00
		New building.....	500.00
		Equipment and supplies.....	5,170.00
		Total.....	$10,819.00

[This is too generalized for Production Expansion Dossier.]
ETM

14. Exhibit E (question 23-c)*

a) Is it applicable? No

b) Sufficient data?

c) Reasonable?

d) Field check needed? No

15. In your judgment, can the proposed work be done in the proposed time? Yes

(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? An examination of this property should include geology and proposed work.

Reviewed by: E.L. Newcomb GS

Date 9-5-51

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

McKnight
Billings
Bishop

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

SEP 7 1951

Mr. A. E. Weissenborn
Executive Officer, DMA Field Team
Region II
South 157 Howard
Spokane 8, Washington

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Very truly yours,

Chairman
Coordinating Committee

For Bureau of Mines

For Geological Survey

FILE COPY
SURNAME:
350

Newcomb (E.L.K.)
McKnight
Williams
Bischoff
Thayer
Lyon

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

Re: DMA-2015

SEP 7 1951

A. E. C.

Mr. Glen Zorn
217 West Park
Butte, Montana

Dear Mr. Zorn:

The Lead-Zinc Branch of the Defense Minerals Administration has reviewed your application for an exploration loan on the Bess and Atlantus Claims, Niehart, Montana. It is being sent to Mr. A. E. Weissenborn, Executive Officer, DMA Field Team, South 157 Howard Street, Spokane 8, Washington, for further information and advice.

Very truly yours,

SIGNED

Tom Lyon, Director
Supply Division

JF 9-7

ELNewcomb:emp
G 9-5-51
Copies to: A. E. Weissenborn Region II (2)
Chief, Lead-Zinc Br.
E. T. McKnight 4204 GSA
R. H. Mote
Directors r. file 4214 GSA
Br. r. file 4214 GSA
Administrators r. file
DMA docket files

August 28, 1951

Mr. Glen Zorn
217 West Park
Butte, Montana

Subject: DMA-2015
Re: Exploration Loan
Boss Mining Claim

My dear Mr. Zorn:

This will acknowledge receipt of your application dated August 16, 1951 for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMA- 2015 and referred to the Lead-Zinc Branch.

Kindly refer to DMA- 2015 in any future correspondence relating to your application.

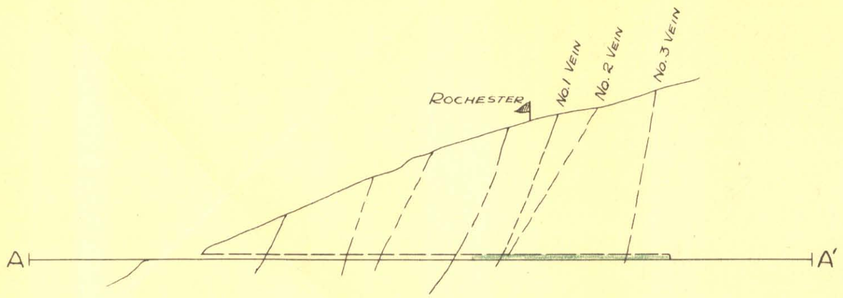
Sincerely yours,

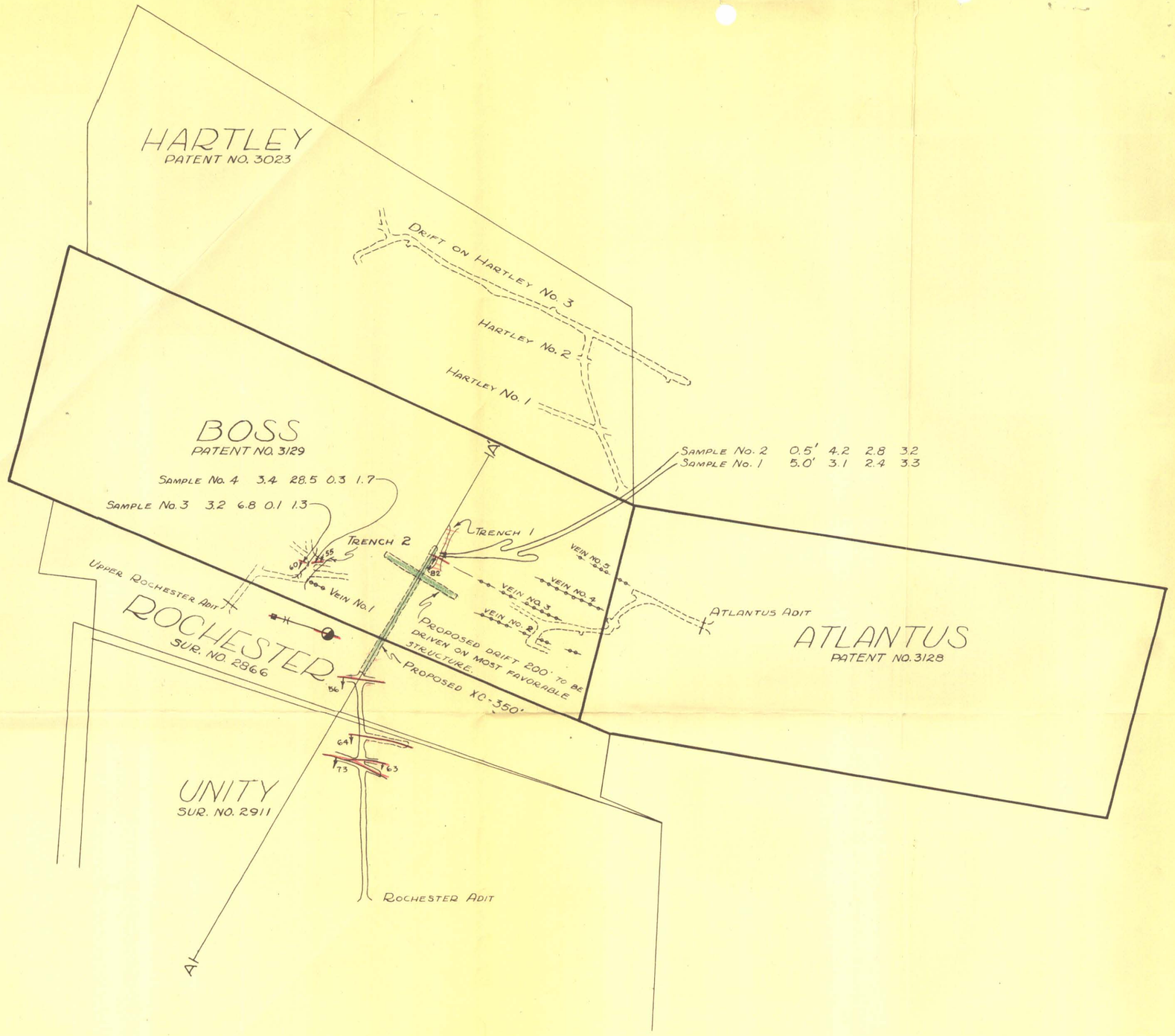
Robert E. Adams

Robert E. Adams, Chief
Reports and Records Unit

AUG 28 1951

2463





N

EXPLANATION

VEINS SHOWN ON REBER'S MAP

VEINS. EXPOSURE EXAMINED BY D.M.E.A.

PROPOSED EXPLORATION

INACCESSIBLE WORKINGS

SHAFTS

TRENCH

SAMPLE NUMBER	SAMPLE WIDTH	$Ag.O_3S$	Pb%	Zn%
SAMPLE No. 1	5.0'	3.1	2.4	3.3

BASE REBER APRIL 1920. CLAIM OUTLINES HARTLEY, ATLANTUS ADIT, UPPER ROCHESTER ADIT QUINLAN U., PUFFETT, W. TRENCHES AND LOWER ROCHESTER ADIT. BRUNTON AND TAPE TRAVERSE, TIED INTO UPPER ROCHESTER ADIT.

MAP SHOWING VEINS, WORKING AND PROPOSED EXPLORATION PROGRAM
BOSS AND ATLANTUS CLAIMS AND VICINITY
SECTION 29 T. 14 N. R. 8 E. CASCADE COUNTY MONTANA

200 100 0 200 400 600 FEET