MME Form 9
Rev. Mar. 59

UNITED STATES
DEPARTMENT OF THE INTERIOR
Office of Minerals Exploration

OFFICIAL DOCKET FILE

Contract No. ~~1xx23xIdm~~-E1193 Docket No. ~~MME-~~ DMEA-4870

Application
- [ ] Denied
- [x] Withdrawn

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

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

Folder No. 1:

Left Side

- [ ] Royalty Audits
- [ ] Certification of Discovery
- [ ] Closing Letter
- [ ] Cost Audits
- [ ] Termination Notice or Agreement
- [x] Recision Notice
- [ ] Assignment of Contract
- [x] Contract Amendments
- [x] Contract with all exhibits and annexes 5-16-58
- [x] Owner's Consent to Lien and Subordination Agreement
- [x] Application and Attachments

Right Side

- [ ] Project Summary (final)
- [ ] Work Completed Analysis (final)

All other material filed in chronological order including the following reports if checked:

- [ ] Field Team Semiannual Report for Certified Project
- [ ] Final Field Team Report (Tab)
- [ ] Operator's Final Report (Tab)
- [ ] Interim Field Team Reports
- [ ] Operator's monthly reports and all attachments
- [x] On-site Exam. Report (Tab) 3-4-58
- [ ] Settlement Sheets Memo 3-14-58
- [ ] Drill Logs

Additional Folders:

Left Side

Folders No. 2 : Reports

- [ ] Analysis of Semiannual Inspection Reports
- [ ] Project Summary (Interim) by MME Engineers

Right Side

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

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

Folders No. _____ : Settlement Sheets

Folders No. _____ : Drill Logs

Folders No. _____ : Royalty Material

52625

Docket copy (Surname)

Talbot

NOTICE OF RESCISSION OF EXPLORATION PROJECT CONTRACT

To: Viking Mines, Inc.
c/o Mr. Verne L. McGowan
General Manager
P. O. Box 372
Winters, California

Operator Under Exploration
Project Contract Idm-E1193, dated May 16, 1958
Docket No. DMEA-4870 (Lead-Zinc)

The United States of America, acting through the Department of the Interior, Office of Minerals Exploration, hereby rescinds the subject contract, as of the date thereof, on the following grounds:

1. You have failed to preserve and maintain your right, title, and interest in the land and your right of possession thereof for the purposes of the contract, as required by Article 2(d) of the contract.

2. You have failed to perform the work with reasonable diligence, efficiently, expertly, and in a workmanlike manner, and with suitable and adequate equipment, facilities, materials, supplies, and labor to bring it to completion within the time fixed by the contract, all as required by the provisions of Article 4(a) of the contract.

The United States of America repudiates and denies any liability under the contract and will make no contribution to costs incurred thereunder.

Dated this 29th day of December, 1960.

THE UNITED STATES OF AMERICA

By George C. Selfridge
Acting Director, Office of
Minerals Exploration

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The United States of America repudiates and denies any liability under the contract and will make no contribution to costs incurred thereunder.

Dated this _____ day of _____, 196___.

THE UNITED STATES OF AMERICA

By _____
Acting Director, Office of
Minerals Exploration

Government's copy

OFFICIAL FILE COPY
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RECEIVED JAN 9 1959

DATE	INITIALS	CODE

EXPLORATION PROJECT CONTRACT
VIKING MINES, INC.
DOCKET NO. DMEA-4870

AMENDMENT NO. 1

It is agreed this 12th day ~~of December~~, 1958, between the United States of America, acting through the Department of the Interior, Office of Minerals Exploration, hereinafter called the "Government," and Viking Mines, Inc., hereinafter called the "Operator," that Exploration Project Contract No. Idm-E1193 (Docket No. DMEA-4870), dated May 16, 1958, hereinafter called the "Contract," is amended, as follows:

1. (a) Work under the Contract shall be suspended during the period beginning October 15, 1958, and ending not later than July 1, 1959.

(b) The Government will not contribute to any costs incurred by the Operator during the period of suspension or to any costs of rehabilitation or repair which in its opinion would not have occurred if there had been no suspension of work.

(c) The Operator at its own cost and expense, without contribution by the Government, during the period of suspension shall preserve and protect the project work and any property in which the Government has an interest.

2. The date fixed in Article 3 of the Contract for completion of the work is extended from November 15, 1959 to November 15, 1960.

3. The maximum period for royalty payments and the lien to secure the payment thereof, as provided in Article 8(b) of the Contract, is increased from 10 to 11 years from the date of the Contract.

4. It is the essence of this Contract that the work be completed before the termination of the period herein fixed for completion and if it is not so completed, in the manner required by the Contract, the following provisions shall thereupon become effective:

(a) The Contract and all obligations of the parties thereunder, except as otherwise herein provided shall be and are hereby terminated, as follows:

(i) Effective November 15, 1960, if the work is resumed on or before July 1, 1959, but is not completed on or before November 15, 1960.

(b) The Government will contribute only to the allowable costs of any work performed prior to the relevant date as set forth under 4(a) above.

(c) The Operator shall promptly perform all winding-up and settlement actions provided for in the Contract, including the rendering of the final report and final account.

(d) The Operator, as principal if the Operator is the producer, or as surety if the Operator is not the producer (for example, if the Operator either transfers or fails to retain its interest in the land), shall pay to the Government the royalty on production provided for in the Contract, in the same manner and amount and for the full period of time provided for in the Contract (as amended herein), as if certification of discovery or development had been made, such certification being hereby waived by the Operator. In addition, all rights of the Government provided for in the Contract with respect to a certification of discovery or development, percentage royalty and liens to secure payment thereof, reports (including preservation of the Operator's records), accounts, audits, and the right to recover any overpayments are hereby preserved.

(e) The Operator hereby releases and agrees to save the Government harmless from all claims or demands under or arising out of the Contract, except as otherwise provided in this Amendment No. 1.

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate amount which the Government may be required to contribute, the amount of any item designated as "maximum," or the fixed unit cost of any item of work.

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Chamberlain
Selfridge

Executed in quintuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By Frank E. Johnson
ACTING Director, Office of Minerals Exploration

VIKING MINES, INCORPORATED

By Verne L. McGowan

Title PRES.

OFFICIAL FILE COPY
DMEA
RECEIVED 1958

Government's copy

MF-200
(Revised June 1954)

Docket No. DMEA 4870

Commodity Lead-Zinc

Contract No. Idm-E 1193

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

EXPLORATION PROJECT CONTRACT[1]

It is agreed this 16 ~~18 MAY 1958~~ day of ....., 195..., between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and [2] VIKING MINES, INC., a North Dakota corporation, whose mailing address is 24 North 4th Street Box 325, Grand Forks, North Dakota, hereinafter called the "Operator," as follows:

ARTICLE 1. *This contract* is entered into under the authority of the Defense Production Act of 1950, as amended. It consists of this form (MF-200), the attached Exhibit "A," Annex I, ~~and~~ Annex II and 3 maps.

The Operator shall not transfer or assign this contract or any right thereunder without the written consent of the Government.

ARTICLE 2. *Operator's property rights.*—(a) The land which is the subject of this contract (hereinafter called "the land") is in the State of Idaho, County of Blaine, and is described in Annex I.[3]

(b) The Operator represents and undertakes that:

(1) The Operator is the [4] Lessee of [5] See Annex I in the land, in possession and entitled to possession for all of the purposes of this contract, under and by virtue of a [6] ....., [7] ....recorded in Book ....., page ....., official records of said County; and

(2) The Operator's right, title, or interest (whether as owner, lessee, or otherwise) is subject only to the following claims, liens, or encumbrances: Interests of lessors and assignors.

(c) The Subordination Agreement of the holder of any claim, lien, or encumbrance listed above, and (if the Operator does not hold the legal title) the Consent to Lien of any holder of the legal title

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] Insert name, and if an organization, its nature (corporation and place of incorporation, partnership with names of partners, etc.).
[3] State on a separate sheet marked "Annex I" the legal description or enough to identify the property, particularly excluding any areas from which the production is not to be subject to the Government's percentage royalty.
[4] Insert "owner," "lessee," "contract purchaser," "locator," etc.
[5] Insert "the entire interest," "the mineral rights," "an undivided one-third," etc.
[6] Insert "deed," "lease," "contract," "location notice," "patent," etc.
[7] If not recorded, so indicate by inserting "un."

of the land (lessor, seller, optionor, etc.), are attached, as follows: Consents to Lien and Subordination Agreements of lessors and assignors (See Annex I)

(d) The Operator shall preserve and maintain his right, title, and interest in the land and his right to the possession thereof for the purposes of this contract, and shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of this contract. Until the lapse of the time within which the Government may make a certification of discovery or development without any such certification having been made, and after any such certification has been made, the Operator shall neither transfer, convey, nor surrender the land nor any right, title, or interest therein, nor permit nor suffer any claim, lien, or encumbrance thereon, without expressly referring to and providing in the instrument of conveyance, lien, or encumbrance for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof. If the Government makes no certification of discovery or development within the time limited in Article 8, it shall thereafter have no claim against the land or any production therefrom except for any production referred to in Article 8(b)(1).

ARTICLE 3. *The exploration project.*—The project is a search for indicated or undeveloped deposits of Lead and Zinc The work to be performed is described in Exhibit "A." The Operator on or before July 15, 1958 shall commence the work, and on or before November 15, 1959 (unless the Operator's obligation to prosecute the work is terminated—see Article 10) shall ~~either~~ have completed the work ~~or shall have incurred allowable costs (see Article 6) in a sum not less than the estimated total allowable cost set forth in Exhibit "A"~~ except as otherwise provided in Exhibit "A" with reference to Stages of work. See Annex II.

ARTICLE 4. *Performance of the work.*—(a) *Operator's responsibility.*—The work shall be performed with reasonable diligence, efficiently, expertly, in a workmanlike manner, in accordance with good mining standards and State regulations for health and safety and for liability insurance covering employment; and with suitable and adequate equipment, facilities, materials, supplies, and labor, to bring it to completion within the time fixed.

(b) *Independent contracts.*—To the extent that the allowable costs are estimated in Exhibit "A" with express reference to performance by independent contractors on a unit-price basis (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations), the work may be so performed; but if the reference in Exhibit "A" to any such independent contract requires the Government's approval thereof, payments under such contract will not be allowable costs unless the Government gives its written approval of the contract. Any such independent contract shall refer to some specific and identifiable part of the work, and shall be subject to all of the pertinent terms and conditions of this exploration contract; but the Government shall not be considered a party thereto, and its rights under this contract, including the right to terminate its contributions, shall not be affected thereby. Regardless of the provisions of any such independent contract and regardless of the Government's approval thereof, the Government will participate in payments to the independent contractor only on account of work performed in accordance with the provisions of this 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.

(c) *Government may inspect.*—The Operator shall consult with and inform the Government on all phases of the work as it progresses. The Government may enter at all reasonable times to inspect the work under the contract, and also after a certification of discovery or development to inspect production operations and underground workings. The operator shall provide the Government with all reasonable means of access for such inspections.

ARTICLE 5. *Contribution by the Government.*—The estimated total allowable cost of the project, set forth in Exhibit "A," is the sum of $36,846.00 The Government shall contribute 50 percent of the allowable costs as they are incurred in a total sum not in excess of $18,423.00: *Provided,* That until the Operator has rendered to the Government his final report, 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 10 percent of the estimated total cost of the work or not in excess of the amount of the Government's contribution to the cost of property which is or may become subject to disposal as provided in Article 9(c), whichever is greater. The Government will make its contribution on the basis of the monthly vouchers referred to in Article 7(b), but all payments by the Government are provisional only, subject to audit, until the account between the Operator and the Government is finally audited and settled. "Costs incurred" mean costs that have been paid or have become due and payable, or that in the opinion of the Government have become an obligation. The Government may make payments directly to independent contractors and suppliers for the account of the Operator rather than to the Operator.

ARTICLE 6. *Estimated costs.*—(a) *Categories of costs.*—The allowable costs of the work to which the Government shall contribute are limited to those that are direct, reasonable, necessary, and that are estimated in Exhibit "A" by categories as specified in this article. If any category or subcategory is omitted from the estimate of costs, or if the word "none" is annexed to the listing thereof, costs under such category or subcategory are not allowable. Any excess over any estimate which is indicated as the maximum of any category, subcategory, or item, either as to requirement or related cost, and any excess over the estimated total allowable cost of the work, shall not be allowable. Any excess over the estimate of any category, subcategory, or item, either as to requirement or related cost, not indicated as a maximum shall be allowable within the limit of the estimated total allowable cost of the work. To the extent that excesses over maximums other than the estimated total allowable cost of the work may be necessary for the performance of the work, the Operator shall incur such excesses for his own account without contribution by the Government; but except for any such necessary excesses in categories, subcategories, or items thereunder the Operator is not obligated to incur more than his agreed percentage of the estimated total allowable cost of the work. See Annex II.

To the extent specified in this article or in Exhibit "A" the following categories, subcategories, and elements thereof are maximums; but if not so specified either here or in Exhibit "A" they are not maximums, and may be exceeded within the limit of the estimated total allowable cost of the work:

CATEGORY (1)—INDEPENDENT CONTRACTS.—Work to be performed under independent contracts (see Article 4(b)). The estimated total amount of this category and the estimated cost of each unit of work for performance under an independent contract are maximums.

CATEGORY (2)—PERSONAL SERVICES.

Subcategory (a)—Supervision.—All elements of this subcategory. (number of supervisors, periods of employment, rates of pay, and total) are maximums.

Subcategory (b)—Technical services.—All elements of this subcategory (number of technicians, periods of employment, rates of pay, and total) are maximums.

Subcategory (c)—Labor.

CATEGORY (3)—OPERATING MATERIALS AND SUPPLIES.—Includes such items as drill bits and steel, explosives, fuel, pipe, power, small tools costing less than $50 each, timber, track.

CATEGORY (4)—OPERATING EQUIPMENT. (See Annex II)

Subcategory (a)—Rental.—The number of each object to be rented [6 mine cars, 1 truck], the rate of rental [$100 per month, $5 per hour], and the total of this subcategory are maximums.

Subcategory (b)—Purchases.—The estimated total of this subcategory is a maximum.

Subcategory (c)—Depreciation.—All elements of this subcategory (time periods, rate of depreciation, and subcategory total) are maximums.

CATEGORY (5)—INITIAL REHABILITATION AND REPAIRS.—Estimates under this category include all requirements and related costs, such as labor, materials and supplies, and supervision at a rate not higher than provided for in Category (2), and shall not be duplicated under any other category. The estimated total of this category is a maximum. (See Annex II)

Subcategory (a)—Initial rehabilitation and repairs of existing buildings, fixtures, and installations (exclusive of mine workings).—The estimated total of this subcategory is a maximum.

Subcategory (b)—Initial rehabilitation and repairs of operating equipment.—The estimated total of this subcategory is a maximum.

CATEGORY (6)—NEW BUILDINGS, FIXTURES, AND INSTALLATIONS (EXCLUSIVE OF MINE WORKINGS).—Estimates under this category include all requirements and related costs, such as labor, materials and supplies, and supervision at a rate not higher than provided for in Category (2), and shall not be duplicated under any other category. The estimated total of this category is a maximum. (See Annex II)

CATEGORY (7)—MISCELLANEOUS.—Repairs and maintenance (other than initial) of operating equipment, analytical work, prints and other reproductions, accounting, Operator's share of payroll taxes, liability insurance covering employment, travel, communications, and any other items of requirement or cost that do not fall within any of the first 6 categories.

THE ESTIMATED TOTAL ALLOWABLE COST of the work is a maximum.

(b) *Nonallowable costs.*—The following costs are not allowable for contribution by the Government:

(1) *Costs of the land,* such as rental, depreciation, depletion, or other cost of acquiring, owning, or holding possession;

(2) *Indirect costs,* such as general overhead, corporate management, interest, taxes (other than payroll and sales taxes), insurance (other than liability insurance covering employment), damages to persons, damages to property (other than necessary repairs or replacements of equipment or other property used in the work);

(3) *Previous work* performed or costs incurred before the date of this contract; and

(4) *Deferred payments.*—Any costs incurred by the Operator under any rental-purchase agreement, installment-purchase agreement, or any agreement for the purchase of goods under the provisions of which payment of the full purchase price is deferred more than 90 days from the delivery of the goods; unless the purchase agreement is approved by the Government in writing.

(c) *Reductions in costs.*—The Operator shall account for and give the Government credit for any incidental benefits, credits, or money received in the ordinary course of business in prosecuting the work (as by salvage or sale of materials or equipment, furnishing of room or board, furnishing of power or services to third persons, rebates or discounts on purchases, etc.), in the same ratio in which the Government contributes to costs; and such amounts shall be treated as a reduction in costs incurred so that they are available for use within the limit of the original estimated total cost. This provision does not apply to receipts from production which are subject to the Government's percentage royalty under the provisions of Article ~~9~~ 8. See Annex II.

ARTICLE 7. *Reports, accounts, audits.*—(a) *Operator's records.*—The Operator shall keep suitable records and accounts of the work performed and of any production in which the Government may have an interest; and shall preserve those with respect to work performed for at least three years after final payment by the Government, and those with respect to production for at least three years after any obligation to pay royalties to the Government has terminated. The Government may inspect and audit said records and accounts at any time, either by itself or by a certified public accountant. If the Government elects to audit said records and accounts relating to the exploration work by certified public accountant, it may do so as a cost of the work to which the Operator shall contribute. The Comptroller General of the United States or his representative, until the expiration of said three-year periods, shall have access to and the right to examine any pertinent books, documents, papers, and records of the Operator. All of the Operator's vouchers and records and accounts relating thereto and the Government's payments thereof remain subject to adjustment until final audit by the Government. If work under this contract is carried on in conjunction with any other operations, or if labor, supervision, services, materials, supplies, equipment, facilities, or other requirements for carrying on the work are also used in connection with other operations, the costs shall be segregated and accounted for on a basis and by methods and accounts that are satisfactory to and approved by the Government.

(b) *Progress reports and vouchers.*—The Operator shall provide the Government with five copies of monthly progress reports in three sections as follows: (1) Operator's Monthly Report and Voucher showing detailed costs incurred during the reporting period; (2) Operator's Unit Cost and Progress Report showing the various types of work performed during the reporting period and costs incurred for each type of work; and (3) a Narrative Report of the work performed during the reporting period including adequate engineering-geological maps or sketches, drill hole logs and locations, and assay reports on samples taken concurrently with advance in mineralized ground. (Forms for reporting under (1) and (2) above will be provided by the Government.)

(c) *Final report.*—Upon completion of the work or termination of the Government's obligation to contribute to costs, the Operator shall furnish the Government with five copies of a final report (in addition to the final progress report and voucher). This final report shall include a geological and engineering evaluation of the results of the work performed under the contract with an estimate of the ore reserves resulting from such work, complete assay data, adequate geological and engineering maps or sketches, and a summary of the work performed and related costs incurred.

(d) *Report of sales.*—The Operator shall provide the Government with suitable accounting and documentary evidence covering all production to which the Government's percentage royalty relates, such as copies of smelter or concentrator settlement sheets, and certified accounts of production and sale or other disposition of production.

(e) *Compliance with requirements.*—If in the opinion of the Government any of the Operator's reports, records, or accounts are insufficient or incomplete, or if the Operator fails to make them, the Government may procure the making or completion of such with suitable attachments as an expense of the work to which the Operator shall contribute. The Government may withhold approval and payment of any vouchers relating to insufficient or incomplete reports, records, or accounts.

ARTICLE 8. *Repayment by Operator.*—(a) *Certification.*—If the Government considers that a discovery or development from which production may be made has resulted from the work, the Government, at any time not later than six months after a sufficient final report and final account (see Article 7) has been rendered, may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development.

(b) *Royalty on production.*—The Operator, as principal if the Operator is the producer, or as surety if the Operator is not the producer, shall pay to the Government a royalty on all minerals mined or produced from the land, as follows: (1) regardless of any certification of discovery or development, from the date of the contract until the lapse of the time within which the Government may make such certification, or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first; or (2) if the Government makes a certification of discovery or development, within a period of ten years from the date of the contract, or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first.

(c) *Basis for computation.*—The Government's royalty shall be a percentage of the gross proceeds (including any bonuses, premiums, allowances, or other benefits) from the production sold, in the form sold (ore, concentrates, metal, or equivalent), at the point of delivery (the f. o. b. point); *except,* that charges of *the buyer* arising in the regular course of business, and shown as deductions on the buyer's settlement sheets, on account of the cost of treatment processes performed by *the buyer,* sampling and assaying to determine the value of the production sold, and freight paid by *the buyer* to a carrier (not the Operator), shall be allowed as deductions in arriving at the "gross proceeds" as that term is used herein. Any costs of treatment processes, sampling or assaying, or transportation, performed or paid by the Operator or by anyone other than the buyer, are not deductible in arriving at the "gross proceeds" as that term is here used. The term "treatment processes," as here used, means those processes (such as milling, concentrating, smelting, refining, or equivalent) applied to the crude ore or other production after it is extracted from the ground, to put it into a commercially marketable form; excluding fabricating or manufacturing.

(d) *Unsold production.*—If any production (ore, concentrates, metal, or equivalent), after the lapse of six months from the date the ore was extracted from the ground, remains neither sold nor used by the Operator in integrated manufacturing or fabricating operations (for instance, if it is stockpiled), the Government, at its option, as long as it so remains, may require the computation and payment of its royalty on the value of such production in the form (ore, concentrates, metal, or equivalent) it is in when the Government elects to require computation and payment. If any production is used by the Operator in integrated manufacturing or fabricating operations before the Government makes its election, the Government's royalty on such production shall be computed on the value therof in the form in which and at the time when it is so used. "Value" as here used means what is or would be gross income from mining operations for percentage depletion purposes in Federal income tax determination, or the market value, whichever is greater.

(e) *Percentages of royalty.*—The percentages of the Government's royalty shall be as follows:

One and one-half (1½) percent of amounts ("gross proceeds" or "value") not in excess of eight dollars ($8.00) per ton of production in the form in which sold, held, or used, plus one-half (½)

percent for each additional full fifty cents ($0.50) by which such amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) percent of such amounts.

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

(f) *Time for computation and payment.*—The Government's royalty shall be computed and paid currently upon each lot sold, held, or used in integrated operations, as the case may be, as above provided in this article.

(g) *Lien for payment.*—To secure the payment of its percentage royalty, there is hereby granted to the Government a lien upon the land or the Operator's interest in the land and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(h) *Notice to purchasers.*—The Operator shall give notice of the Government's claim for royalty to any purchaser of the production, and shall authorize and direct such purchaser to pay the royalty directly to the Government and to furnish the Government with copies of the settlement sheets. If the records of any production and sales or other disposition of production, whether the production is by the Operator or by others, are not made available to the Government, the amount of the royalty may be estimated by the Administrator, Defense Minerals Exploration Administration, or his successor, and his estimate thereof shall be final and binding upon the Operator.

(i) *No obligation to produce.*—Nothing in this contract is to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any production operations.

(j) *Government not obligated to buy.*—Nothing in this contract shall be construed as imposing any obligation on the Government to purchase any minerals mined or produced from the land.

ARTICLE 9. *Interests in purchased property.*—(a) *Title and ownership.*—All costs under this contract shall be incurred by the Operator in the Operator's own name and for the Operator's own account; but any property acquired to the cost of which the Government contributes shall belong to the Operator and the Government jointly in proportion to their respective contributions, although title thereto shall be taken in the name of the Operator.

(b) *Preservation of property.*—Until the final disposal of any property in which the Government has an interest the Operator shall preserve and protect same for the best interest of the Government, any reasonable and necessary costs thereof to be treated as an allowable cost of the project. After the completion of the work or termination of the Government's obligation to contribute, or when such property is not in use for or needed for the work, the Operator shall neither use it without the written consent of the Government nor without paying a reasonable rental to be fixed by the Government for its interest.

(c) *Disposal of property.*—Upon the completion of the work or termination of the Government's obligation to contribute to costs, or when the property is no longer needed for the work, the Operator shall promptly dispose of salable or salvageable property in which the Government has an interest 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 or the Government at a price at least as high as could be obtained from others, unless the Government in writing waives its interest in any such property. Without advance approval of the sales price by the Government the Operator shall not sell at any price any item of property the cost of which was more than $500, and shall not sell at less than 25 percent of the purchase price any item of property which cost $500 or less. The Government, in lieu of approving the sales price for any such item, may itself purchase the item at the best price which the Operator is able to obtain or himself cares to give. Property remaining upon any termination of the work shall be considered in groups or categories (such as drill steel, or explosives, or pipe, or rails), and if the original cost of the remaining unexpended portion of any such group or category is less than $50, the Government waives its interest therein. If necessary to accomplish the disposal of any item the Operator shall dismantle and sever it from the land, the cost thereof to be treated as a cost of the project.

(d) *Default of the Operator re disposal.*—If within 90 days after the completion of the work or termination of the Government's obligation to contribute to costs, or after the property is no longer needed for the work, or after such further time as the Government may in writing allow, the Operator has failed to sell or otherwise liquidate or dispose of any property in which the Government has an interest, the Government, at any time prior to final settlement under the contract, may pursue one of the following two courses: (1) the Government, by written notice to the Operator, may place upon such property what in its opinion is a fair valuation thereof, not in excess of the cost less 1.66 percent per month from the

date such property was purchased under this contract to the termination of said 90-day period; and such property shall thereupon be considered and accounted for as having been purchased by the Operator at the valuation so fixed by the Government; or (2) the Government may enter and take possession of such property wherever it may be found, and remove and dispose of it for the joint account of the parties.

ARTICLE 10. *Termination of the Government's obligations.*—(a) If in the opinion of the Government operations at any time have failed to achieve anticipated results that indicate the probability of making a worthwhile discovery, and in the opinion of the Government further operations are not justified, the Government may give the Operator written notice thereof, and thereupon: (1) the Government shall be free of all obligation to contribute to costs not then incurred other than such as may be allowable under the provisions of the contract as necessary and incidental to winding up, reporting, and accounting; and (2) the Operator shall be free of all obligation to prosecute the work other than such as may be necessary and incidental to winding up, reporting, and accounting.

(b) If in the opinion of the Government the Operator is in any manner in default under the terms of the contract, the Government may give the Operator written notice of such default with a specification of reasonable time within which the default must be cured; and if the Operator fails to cure such default as required, thereupon: (1) the Government shall be relieved of all obligation to contribute to costs not incurred when the notice was given, other than such as may be allowable by the provisions of the contract as necessary and incidental to winding up, reporting, and accounting; and (2) the Operator shall be free of all obligation to prosecute the work other than such as may be necessary and incidental to winding up, reporting, and accounting. The remedy provided for the Government in this paragraph "(b)" is in addition to any other remedy provided in this contract, and in addition to any other remedy the law may provide for breach of contract.

(c) The giving of any notice by the Government under the provisions of this Article 10 shall not affect the Government's rights as provided for in the contract with respect to a percentage royalty, and such rights shall be fully preserved.

ARTICLE 11. *Notices to be given by the Government* may be delivered to the Operator, or may be sent by registered mail addressed to the Operator at his mailing address stated in this contract. If mailed, notices are deemed to have been delivered five days after the date of mailing.

ARTICLE 12. *Officials not to benefit.*—No member of or delegate to Congress or resident commissioner shall be admitted to any share or part of this contract or to any benefit that may arise therefrom; but this provision shall not be construed to extend to this contract if made with a corporation for its general benefit.

ARTICLE 13. *Changes and added provisions.*—

See Annex II.

App'd. Sol. Off.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By C Mitteendorf
Administrator, Defense Minerals
Exploration Administration

VIKING MINES, INC
(Operator)

By Verne L. McGowan

Title PRESIDENT

I, D. G. McGOWAN, certify that I am the PRESENT EXECUTIVE secretary of the corporation named as Operator herein; that VERNE L. McGOWAN who signed this contract on behalf of the Operator, was then PRESIDENT 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.

D. G. McGowan

[CORPORATE SEAL]

U. S. GOVERNMENT PRINTING OFFICE 16—70617-1

RECEIVED

EXPLORATION PROJECT CONTRACT
VIKING MINES, INC.
DOCKET NO. DMEA-4870

ANNEX I

The land referred to in Article 2 consists of two patented lode mining claims, the Eagle Bird and the John A. Logan, described in U. S. Consolidated Survey No. 1404, said description being incorporated herein by reference, and situate in Sections 26 and 35, T. 4 N., R. 21 E. in Little Wood River Mining District, Blaine County, Idaho.

The Operator is the lessee with option to purchase and in possession of the land by virtue of the following agreements:

1. (a) A lease and option to purchase agreement, dated March 13, 1956, between L. F. Heagle and wife, Julia Heagle (lessors), and Fred Shirts and Arne Friestad (lessees), for the said Eagle Bird and the John A. Logan patented lode claims. The lease is for a period of ten years.

(b) An agreement, dated November 28, 1956, grants to lessee an option to extend the period of the lease in (a) for an additional ten years.

The Consent to Lien and Subordination Agreement of L. F. and Julia Heagle is attached.

2. An Assignment, dated December 13, 1956, by Arne C. Friestad and Frances Friestad, and Fred Shirts and Opal Shirts, assignors, to Verne L. McGowan, assignee, of the agreements under 1 above. The Assignment reserves a 2½ percent royalty. The Consent to Lien and Subordination Agreement of Arne C. and Frances Friestad and Fred and Opal Shirts is attached.

3. An Assignment, dated February 4, 1958, by Verne L. McGowan, to the Operator. The Consent to Lien and Subordination Agreement of Verne L. McGowan is attached.

The land is shown on the attached map entitled "Property Map of Viking Mines, Inc. . . . Figure 2."

MF-205
(Combines and supercedes MF-201 and [illegible]-203)
June 1956

For Government's Use Only
EXPLORATION [illegible]OJECT CONTRACT
Operator
Docket No. DMEA-
Contract No. Idm-E 1193
Contract Date 16 MAY 1958

RECEIVED FEB 10 1958 D.M.E.A.

CONSENT TO LIEN
and
SUBORDINATION AGREEMENT 1/

To the United States of America:

Referring to that certain land in the County of Blaine, State of Idaho, described as follows: 2/

Eagle Bird and John A. Logan, Patented Lode Mining Claims, U. S. Consolidated Survey No. 1404, -- Located in Secs. 26 and 35, Twp. 4 N. R. 21 E., -- Little Wood River Mining District.

which is the subject of a proposed exploration project contract, hereinafter called the "contract," with the United States of America, hereinafter called the "Government;" in consideration of the contract and as an inducement to the Government to enter into it, the undersigned hereby--

1. Undertakes and agrees that property in which the Government may acquire an interest or equity under the contract may be dismantled, severed from the land, and removed, as may be provided in the contract; and the Government's interest and equity in such property shall be prior and superior to any adverse right or claim of the undersigned;

2. Grants to the Government a lien upon all of the undersigned's right, title, and interest in the land and upon any production of minerals therefrom, to secure the payment to the Government of a percentage royalty on production as may be provided for by the Contract;

3. Subordinates the undersigned's right, title, claim, or interest in or against the land and in any production therefrom to the rights of the Government under the contract with respect to royalty on production and liens to secure same;

4. Represents and undertakes that there is no claim, lien, or encumbrance upon the undersigned's right, title, claim, or interest in or against the land other than the following: (If "none" insert the word "none." Do not leave lines blank.)

None

1/ Mining or production from the land is not required, and in the absence of production there is no obligation to pay royalty to the Government.

2/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated _____, and recorded in Book _____, Page _____, official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

5. Undertakes and agrees (a) neither to commit any act nor assert any claim in conflict with the provisions of this Agreement; and (b) to give advance notice of the Government's rights under this Agreement to any subsequent transferee, mortgagee, encumbrancer, or lessee of any of the undersigned's right, title, claim, or interest in or against the land, or any production therefrom furnishing the Government with two copies of such notice; and

6. Consents to all amendments (including an agreement of termination) and assignments of the contract without notice thereof, and undertakes and agrees that this Agreement shall extend and apply thereto.

7. Added provision: None (State "None" or "See Annex No.____")

Dated this 27 day of January, 1958.

L. F. Heagle L. F. Heagle	[Seal]	Hailey, Idaho	[Address]
	[Seal]		[Address]
Julia Heagle Julia Heagle	[Seal]	Hailey, Idaho	[Address]
	[Seal]		[Address]
	[Seal]		[Address]
	[Seal]		[Address]

I, _____ certify that I am the _____ _____ (Secretary, etc.) of the corporation named herein; that _____ _____ who signed this agreement was then _____ (President or Vice-President, etc.) of said corporation; that said agreement was duly signed for and in behalf of said corporation by authority of its governing body, and was within the scope of its corporate powers.

Olive E. Fitzmillers
[~~Corporate Seal~~]
Notary Public

MF-205
(Combines and supercedes MF-201 and [illegible]-203)
June 1956

For Government's Use Only
EXPLORATION PROJECT CONTRACT
Operator
Docket No. DMEA-
Contract No. Idm-E 1193
Contract Date 16 MAY 1958

RECEIVED MAY 20 1958 D.M.E.A.

CONSENT TO LIEN
and
SUBORDINATION AGREEMENT 1/

To the United States of America:

Referring to that certain land in the County of Blaine, State of Idaho, described as follows: 2/

Eagle Bird and John A. Logan, Patented Lode Mining Claims, U. S. Consolidated Survey No. 1404, -- Located in Secs. 26 and 35, Twp. 4 N. R. 21 E., -- Little Wood River Mining District.

which is the subject of a proposed exploration project contract, hereinafter called the "contract," with the United States of America, hereinafter called the "Government;" in consideration of the contract and as an inducement to the Government to enter into it, the undersigned hereby--

1. Undertakes and agrees that property in which the Government may acquire an interest or equity under the contract may be dismantled, severed from the land, and removed, as may be provided in the contract; and the Government's interest and equity in such property shall be prior and superior to any adverse right or claim of the undersigned;

2. Grants to the Government a lien upon all of the undersigned's right, title, and interest in the land and upon any production of minerals therefrom, to secure the payment to the Government of a percentage royalty on production as may be provided for by the Contract;

3. Subordinates the undersigned's right, title, claim, or interest in or against the land and in any production therefrom to the rights of the Government under the contract with respect to royalty on production and liens to secure same;

4. Represents and undertakes that there is no claim, lien, or encumbrance upon the undersigned's right, title, claim, or interest in or against the land other than the following: (If "none" insert the word "none." Do not leave lines blank.)

None

1/ Mining or production from the land is not required, and in the absence of production there is no obligation to pay royalty to the Government.

2/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated _____, and recorded in Book _____, Page _____, official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

5. Undertakes and agrees (a) neither to commit any act nor assert any claim in conflict with the provisions of this Agreement; and (b) to give advance notice of the Government's rights under this Agreement to any subsequent transferee, mortgagee, encumbrancer, or lessee of any of the undersigned's right, title, claim, or interest in or against the land, or any production therefrom furnishing the Government with two copies of such notice; and

6. Consents to all amendments (including an agreement of termination) and assignments of the contract without notice thereof, and undertakes and agrees that this Agreement shall extend and apply thereto.

7. Added provision: None (State "None" or "See Annex No.____")

Dated this 3rd day of JANUARY, 1958.

Arne C. Friestad Arne C. Friestad	[Seal]	Hailey, Idaho	[Address]
	[Seal]		[Address]
Frances Friestad Frances Friestad	[Seal]	Hailey, Idaho	[Address]
	[Seal]		[Address]
Fred Shirts Fred Shirts	[Seal]	Hailey, Idaho	[Address]
Opal Shirts OPal Shirts	[Seal]	Hailey, Idaho	[Address]

I, _____ certify that I am the _____ _____ (Secretary, etc.) of the corporation named herein; that _____ _____ who signed this agreement was then _____ (President or Vice-President, etc.) of said corporation; that said agreement was duly signed for and in behalf of said corporation by authority of its governing body, and was within the scope of its corporate powers.

_____

[Corporate Seal]

MF-205
(Combines and supercedes MF-201 and [redacted]203)
June 1956

For Government's Use Only
EXPLORATION [redacted]JECT CONTRACT
Operator
Docket No. DMEA-
Contract No. Idm-E 1193
Contract Date 16 MAY 1958

RECEIVED JAN. 20 1953 D.M.E.A.

CONSENT TO LIEN
and
SUBORDINATION AGREEMENT 1/

To the United States of America:

Referring to that certain land in the County of Blaine, State of Idaho, described as follows: 2/

Eagle Bird and John A. Logan, Patented Lode Mining Claims, U. S. Consolidated Survey No. 1404, -- Located in Secs. 26 and 35, Twp. 4 N. R. 21 E. -- Little Wood River Mining District.

, which is the subject of a proposed exploration project contract, hereinafter called the "contract," with the United States of America, hereinafter called the "Government;" in consideration of the contract and as an inducement to the Government to enter into it, the undersigned hereby--

1. Undertakes and agrees that property in which the Government may acquire an interest or equity under the contract may be dismantled, severed from the land, and removed, as may be provided in the contract; and the Government's interest and equity in such property shall be prior and superior to any adverse right or claim of the undersigned;

2. Grants to the Government a lien upon all of the undersigned's right, title, and interest in the land and upon any production of minerals therefrom, to secure the payment to the Government of a percentage royalty on production as may be provided for by the Contract;

3. Subordinates the undersigned's right, title, claim, or interest in or against the land and in any production therefrom to the rights of the Government under the contract with respect to royalty on production and liens to secure same;

4. Represents and undertakes that there is no claim, lien, or encumbrance upon the undersigned's right, title, claim, or interest in or against the land other than the following: (If "none" insert the word "none." Do not leave lines blank.)

None

1/ Mining or production from the land is not required, and in the absence of production there is no obligation to pay royalty to the Government.

2/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated _____, and recorded in Book _____, Page _____, official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

5. Undertakes and agrees (a) neither to commit any act nor assert any claim in conflict with the provisions of this Agreement; and (b) to give advance notice of the Government's rights under this Agreement to any subsequent transferee, mortgagee, encumbrancer, or lessee of any of the undersigned's right, title, claim, or interest in or against the land, or any production therefrom furnishing the Government with two copies of such notice; and

6. Consents to all amendments (including an agreement of termination) and assignments of the contract without notice thereof, and undertakes and agrees that this Agreement shall extend and apply thereto.

7. Added provision: None (State "None" or "See Annex No.____")

Dated this 10th day of January, 1958.

Verne L. McGowan Verne L. McGowan	[Seal]	Box 325 Grand Forks, North Dakota	[Address]
	[Seal]		[Address]
	[Seal]		[Address]
	[Seal]		[Address]
	[Seal]		[Address]
	[Seal]		[Address]

I, _____ certify that I am the _____ _____ (Secretary, etc.) of the corporation named herein; that _____ _____ who signed this agreement was then _____ (President or Vice-President, etc.) of said corporation; that said agreement was duly signed for and in behalf of said corporation by authority of its governing body, and was within the scope of its corporate powers.

_____

[Corporate Seal]

EXPLORATION PROJECT CONTRACT
VIKING MINES, INC.
DOCKET NO. DMEA-4870

ANNEX II

Article 13. Changes and added provisions.--

(a) In Article 3, the words following the reference to Article 10 are deleted, and the following words are substituted: "shall have completed the work except as otherwise provided in Exhibit "A" with respect to stages of work."

(b) In Article 6(a), that part of the last sentence in the first paragraph beginning after the semicolon is deleted.

(c) In Article 6(c), the words "Article 9" are changed to "Article 8."

(d) Notwithstanding any other provision of the Contract, the allowable unit cost of a work item is the average unit cost per work item computed on the basis of all the actual allowable costs of said work item incurred by the Operator: Provided, that the Government will not contribute to any portion of the average unit cost of a work item that exceeds the estimated (maximum) unit cost of said item; and provided further, that the Government, during the performance of work, may contribute to actual costs of the work item to the extent that, in its opinion, the maximum unit cost will not be exceeded upon completion or termination of that work item.

(e) Subcategories (a) and (b) of Category (4) and Categories (5) and (6) are deleted from Article 6.

EXPLORATION PROJECT CONTRACT
VIKING MINES, INC.
DOCKET NO. DMEA-4870

EXHIBIT "A"

Description of the Work

The purpose of the project is to explore for lead-zinc ores by means of sinking, drifting, crosscutting, and long-hole drilling.

The work is divided into two stages, set forth below. The Operator shall perform Stage I, and shall perform as much of the Stage II work as the Government approves in advance considering the results obtained by the long-hole drilling in Stage I, in the XCNE on the 9100 level.

The locations, directions, attitudes, and extent of all work performed under the contract are subject to the prior approval of the Government. The exploration work is indicated, in part, on the attached maps entitled "Plan Map of the Garfield Mine Workings, Blaine County, Idaho--Plate I" and "Section A-A' of Plate I, Viking Mines, Inc.--Plate 3."

Drifts and crosscuts shall be timbered as necessary with timber sets consisting of 8-inch by 8-inch timber or the equivalent in round timber, and shall be 5 feet wide by 7 feet high in the clear of the timber.

All drill holes shall be logged; and all significantly mineralized sludge samples taken in the long-hole drilling shall be assayed for lead, zinc, and silver.

All assays shall be reported monthly to the Government, together with drill logs and hole locations, and proper plan maps and sections showing the progress of the work and sample locations.

Stage I

1. Rehabilitate the existing inclined shaft to an estimated depth of 100 feet, including pumping, cleaning out, installing timber sets as necessary, laying skip track, and installing hoist and skip dump.

2. Extend the incline (item 1) approximately 110 feet, for an overall length of 170 feet on the incline below the 9100 sill level, timbering as necessary.

The inclined shaft shall be 5 feet wide by 8 feet high in the clear of the timber. Timber shall consist of sills to carry the track and the ladders, and lagged sets, if necessary, consisting of 8-inch by 8-inch timber or the equivalent in round timber.

3. Excavate approximately 812 cu. feet for an 8940 level station, leaving the bottom 10 feet of the shaft for a sump.

The station on the 8940 level shall be timbered as necessary with 8-inch by 8-inch timber or the equivalent in round timber. The dimensions of the station shall be not less than 9 feet wide by 7 feet high by 29 feet long, in the clear.

4. Drift and crosscut from the 8940 station approximately 125 feet northwesterly and 125 feet southeasterly along and near the favorable zone of bedding plane slips.

5. To test the "D" bed ore shoot on the 9100 level, drill five long holes from locations in the XCNE on bearings and inclinations approximately as tentatively shown on plates I and 3.

The total amount of long-hole drilling under Stage I shall not exceed 600 feet, of which amount approximately 250 feet shall be used during the drifting on the 8940 level to guide the work and to test the drift walls for undisclosed ore.

6. Approximately forty hours of D-6, or equivalent, bulldozer work shall be performed for road work and snow removal.

7. The total number of samples assayed for lead, zinc, and silver (including sludge samples from drilling) shall not exceed 50.

Stage II

1. From the north end of the 9100 XCNE, drift and crosscut a maximum of 300 feet to explore the "D" bed ore zone.

2. Test the walls of the drifts and crosscuts for undisclosed ore by not to exceed 200 feet of long-hole drilling.

3. The total number of samples to be assayed for lead, zinc, and silver (including sludge samples from long-hole drilling) shall not exceed 20.

Estimated Costs of the Project

(In addition to the maximums fixed in the contract form, an asterisk indicates maximum.)

Stage I

Actual Costs

Category (1) Independent Contracts

Bulldozing (D-6 or equivalent), 40 hours @ $12.00/hr.	$ 480.00

Category (2) Personal Services

Schedules for subcategories (a) (b) and (c) are waived.

Category (3) Operating Materials and Supplies

Schedule is waived. 1/

Category (4) (c) Operating Equipment ((4)(a) & (b) None)

Depreciation	
Air Compressor, 365 cfm, 7 months @ $104.00/mo.	$728.00
2 sinker drills, 7 months @ $18.00/mo.	126.00

2 mine cars, 7 months @ $6.67/mo.	$ 46.69
Fan (TM-5), 7 months @ $5.00/mo.	35.00
1 Truck, used, 7 months @ $20.00/mo.	140.00
Air receiver, 7 months @ $5.00/mo.	35.00
Portable grinder - LSR-6, 7 months @ $3.08/mo.	21.56
2 Air pumps, IR-35, 7 months @ $18.17/mo.	127.19
Skip, used, 7 months @ $5.00/mo.	35.00
Hoist - 3,000# capacity, 7 months @ $26.33/mo.	184.31
Total	$1,478.75

Categories (5) and (6) None

Category (7) Miscellaneous

Schedule waived, except as to

Assaying 50 samples @ $4.00/each sample	$ 200.00

WORK ITEMS

The Government will contribute to the costs of the work items estimated below in terms of maximum unit costs that properly fall within Categories (2) and (3), Subcategory (4)(c), and Category (7), exclusive of assays, that do not exceed the maximum unit costs estimated below, computed as set forth in Annex II(d). The costs of assays and Category (1) are additional allowable costs.

Rehabilitation of winze, 100 feet @ $25.00/ft.*	$2,500.00
Sinking winze - 110 feet @ $81.00/ft.*	8,910.00
Timbering winze - 30 feet @ $14.80/ft.*	444.00

Drifting and crosscutting, 250 feet @ $42.60/ft.*		$10,650.00	
Drift and crosscut timbering 50 feet @ $7.80/ft.*		390.00	
8940 Level Station, 812 cu. ft. of excavation @ $1.00/cu.ft.*	$812.00		
29 feet of timbering @ $11.70/ft.*	339.30	1,151.30	
Installation of 325 feet of air and water pipe on 9100 level @ $0.60/ft.*		195.00	
Long-hole drilling, 600 feet @ $1.25/ft.*		750.00	$24,990.30
Estimated Total Cost of Stage I			$25,670.30*

Stage II

Actual Costs

Category (1) Independent Contracts. None

Category (2) Personal Services

Schedules for subcategories (a), (b) and (c) are waived.

Category (3) Operating Materials and Supplies

Schedule waived. 1/

Categories (4)(a) and (b) None

Category (4)(c) Operating Equipment

Depreciation	
Air Compressor, 365 cfm, 4 months @ $104.00/mo.	$ 416.00
2 sinker drills, 4 months @ $18.00/mo.	72.00

2 mine cars, 4 months @ $6.67/mo.	$ 26.68
Fan (TM-5), 4 months @ $5.00/mo.	20.00
1 Truck, used, 4 months @ $20.00/mo.	80.00
Air receiver, 4 months, @ $5.00/mo.	20.00
Portable grinder, LSR-6, 4 months @ $3.08/mo.	12.32
	$ 647.00

Categories (5) and (6) None

Category (7) Miscellaneous

Schedule waived, except as to

Assaying 20 samples @ $4.00/each sample	$ 80.00

WORK ITEMS

The Government will contribute to the costs of the work items estimated below in terms of maximum unit costs that properly fall within Categories (2), (3) and (7), exclusive of assays, and subcategory (4)(c), that do not exceed the maximum unit costs estimated below, computed as set forth in Annex II(d). The cost of assays is an additional allowable cost.

Drifting and crosscutting 300 feet @ 34.40/ft*	$10,320.00	
Drift and crosscut timbering 75 feet @ $7.00/ft.*	525.00	
Long-hole drilling, 200 feet @ $1.25/ft.*	250.00	$11,095.00
Estimated Total Cost of Stage II		$11,175.00*

S U M M A R Y

Estimated Total Cost of Stage I	$25,670.30
Estimated Total Cost of Stage II	11,175.00
Estimated Total Cost of the Project (rounded	$36,846.00
Government Participation @ 50%	$18,423.00

1/ However, the allowable costs for pipe, track (including fittings and accessories for each), and ventilation tubing are limited to 50 per cent of the Operator's actual costs of such items. In consideration of this reduction in allowable costs, the provisions of Article 9 are waived and the Government will acquire no interest in these materials.

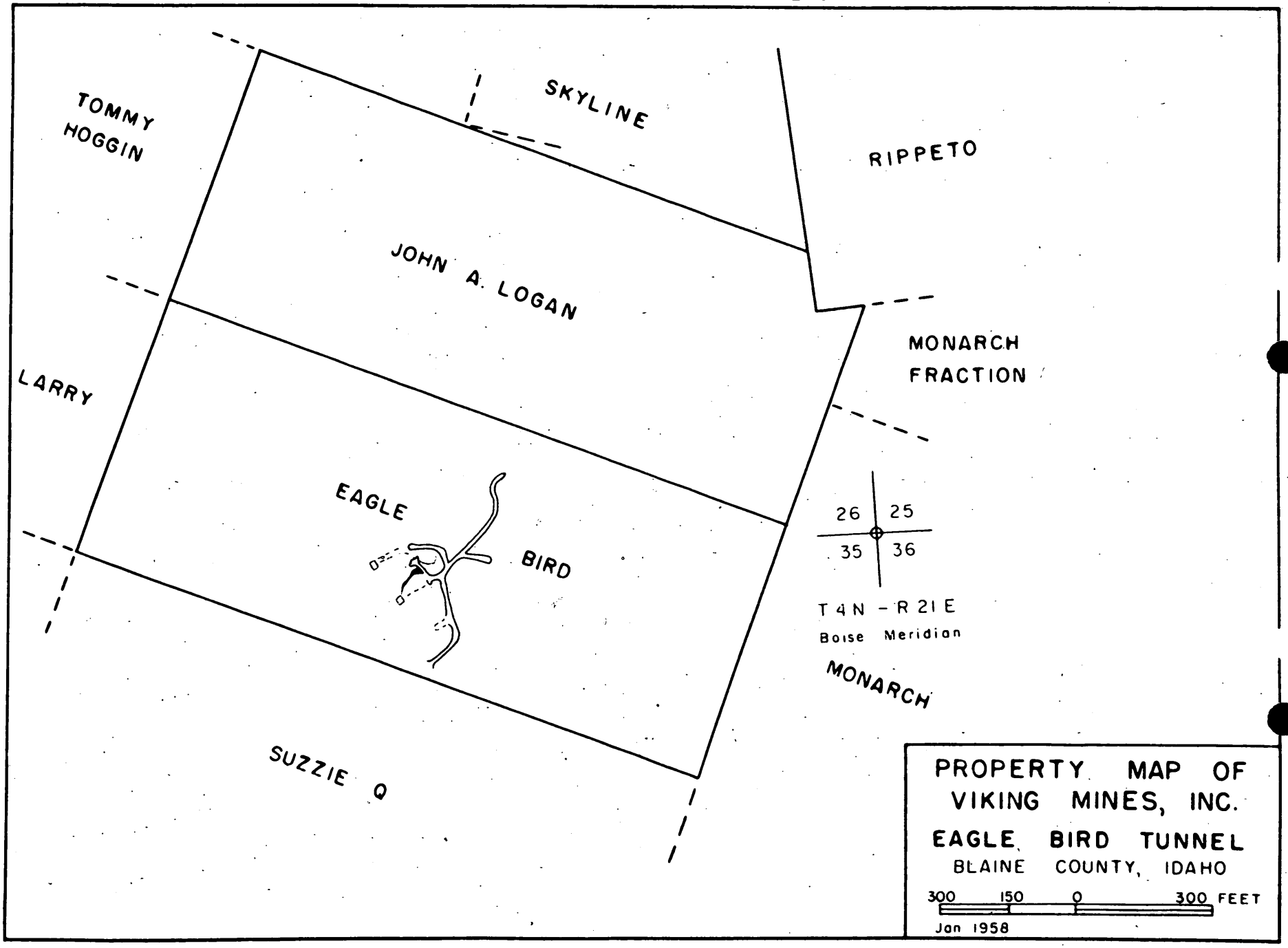
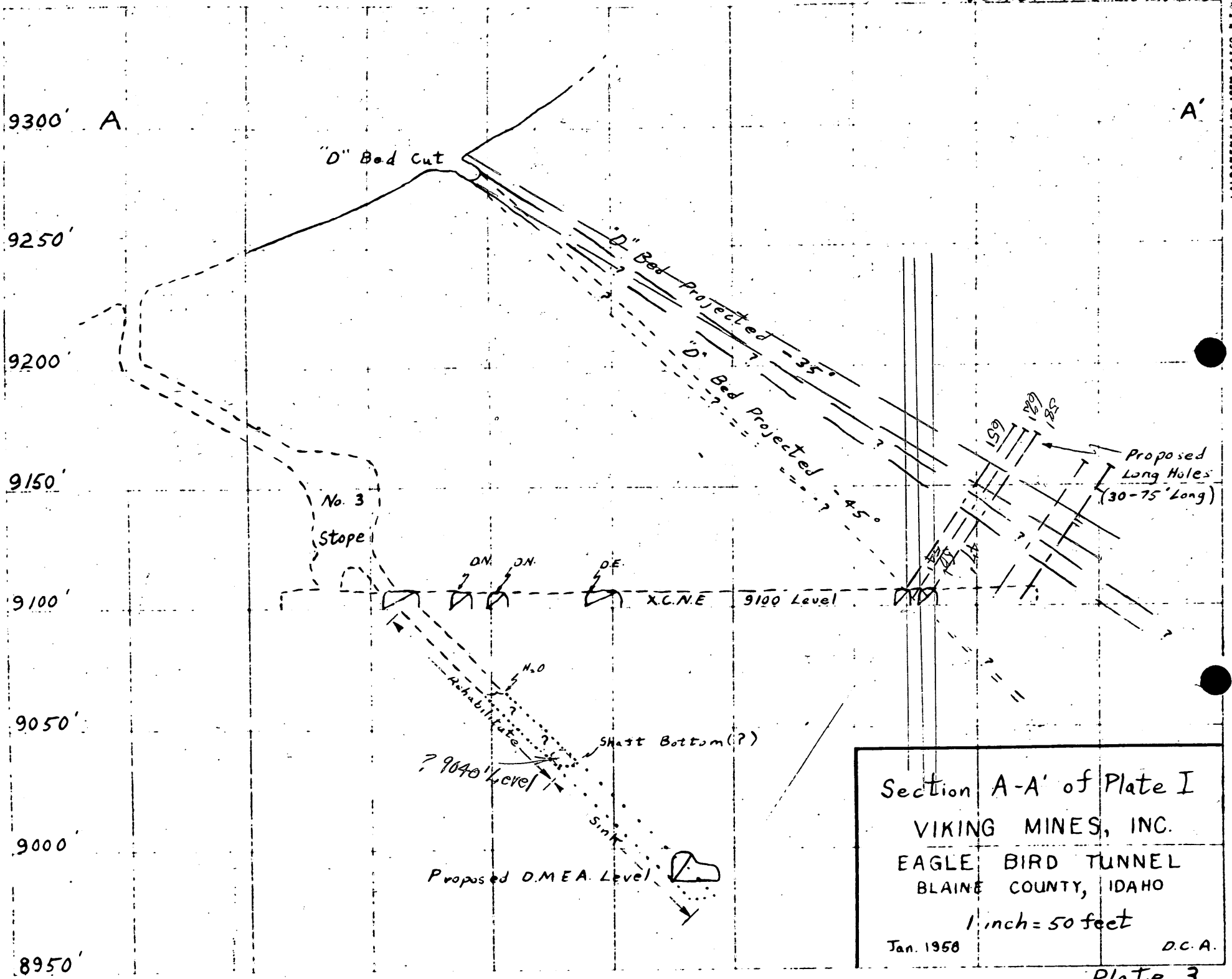

TOMMY HOGGIN
SKYLINE
RIPPETO
JOHN A. LOGAN
MONARCH FRACTION
LARRY
EAGLE
BIRD
26
25
35
36
T 4 N - R 21 E
Boise Meridian
MONARCH
SUZZIE Q
PROPERTY MAP OF
VIKING MINES, INC.
EAGLE BIRD TUNNEL
BLAINE COUNTY, IDAHO
300 150 0 300 FEET
Jan 1958

Figure 2


9300'
9250'
9200'
9150'
9100'
9050'
9000'
8950'
A
A'
"D" Bed Cut
"D" Bed Projected -35°
"D" Bed Projected -45°
No. 3 Stope
D.N.
D.N.
D.E.
X.C.N.E
9100 Level
Rehabilitate
H2O
Shaft Bottom (?)
? 9040' Level
Sink
Proposed D.M.E.A. Level
159
158
157
156
Proposed Long Holes (30-75' Long)
Section A-A' of Plate I
VIKING MINES, INC.
EAGLE BIRD TUNNEL
BLAINE COUNTY, IDAHO
1 inch = 50 feet
Jan. 1958
D.C.A.
Plate 3
J. A. Gendron Co. Spokane

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
So. 157 Howard Street
Spokane 4, Washington

November 8, 1957

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

Re: Transmittal of new application (Pb-Zn)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho

Dear Mr. Selfridge:

Enclosed are the original and two copies of an application received from Mr. Verne L. McGowan, President, Viking Mines, Inc., of Grand Forks, North Dakota.

Representatives of the field team will be in the vicinity of the mine next week so, weather permitting, will examine the property ahead of a referral. For this reason, we have retained a Preliminary Report by Arthur Lakes dated June 17, 1946 (typewritten and bound) and a Progress Report by the same author dated August 14, 1946 (dittoed, 3 pages). We shall send these to you when the examiners return and get their report under way. Both are to be returned to the applicant. We have made Thermofax copies of assay data which they wished returned and have attached copies to the application. We will return the originals directly to the applicant.

Sincerely yours,

Donald R. MacLaren

Donald R. MacLaren
For: Wing G. Agnew
Acting Executive Officer
DMEA Field Team Region I

Enclosures

cc: USBM (2)
Alvord

Form MF–103
Revised Feb. 1957

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42–R1035.3
Approval expires June 30, 1958

APPLICATION FOR AID IN AN EXPLORATION PROJECT

PURSUANT TO DMEA ORDER I, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

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

VIKING MINES INC.
24 N. 4th Street
Box 325
Grand Forks, North Dakota

RECEIVED NOV 12 1957 D.M.E.A.

RECEIVED NOV 4 1957 U. S. G. S. SPOKANE, WASH.

APPLICANT NOT TO USE THIS BLOCK

Docket Number	4870
Date Received	11-12-57
Government Participation %	
Region	I
Division Code	500

BUSINESS ORGANIZATION (Check one)

- Individual [ ]
- Corporation [X]
- Partnership [ ]
- Other (Specify) [ ]

State in which firm is organized: North Dakota

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

Name	Address	Title
Verne L. McGowan	Box 325, Grand Forks, N.D.	President
Howard L. Waldron	223 N. 23rd, Grand Forks, N.D.	Vice-President
Dorothy G. McGowan	Box 325, Grand Forks, N.D.	Secretary
Harry Schwenke	24 N. 4th, Grand Forks, N.D.	Treasurer

Mineral(s) for which you wish to explore: Lead - Zinc

Estimated Cost of Project: $

LOCATION OF PROPERTY

Name	County	State
Garfield Mine	Blaine	Idaho

GENERAL INSTRUCTIONS

Before filling out this application, please read DMEA Order–I, Amended, "Government Aid in Defense Exploration Projects." To assure prompt action, your application must provide all applicable material and information specified on the back of this application form. Avoid unnecessary correspondence and delays by submitting complete and accurate information. *Please submit four copies of this application and all accompanying papers* except as otherwise noted. Place your name and address on each sheet. Each item of information, maps, and reports required as a part of this application is described on the back of this form. Identify each attached statement by the item number to which it applies. If an item does not apply to your application, show the item number on your statement and after it write "not applicable." Maps or sketches should be used to supplement narrative descriptions of the property location and boundaries in item 1, existing mine workings and geology in item 2, and the proposed exploration project in item 4. When this information is not too complex, all of it may be shown on one map or sketch. All documents and other attachments submitted as a part of this application, except those in item 2(g) which you mark to be returned, become the property of the Government and will not be returned to the applicant. Send true copies, *not originals*, of leases, contracts, and other documents which are an essential part of your business records. *File this application with the Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest DMEA Field Office.*

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

November 1, 1957
Dated

Verne L. McGowan
BY *(Signature)*

VIKING MINES INC. -- President
Title

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

INFORMATION REQUIRED WITH THIS APPLICATION

1. *Applicant's Property Rights:*

(a) State the legal description (section, township, and range; metes and bounds; patent number of claims) of the land upon which you wish to explore and all land adjacent to the proposed project area which you own or control. Describe any part of the project land or workings which should not be subject to Government lien for royalty payments. If the land consists of unpatented claims, state the book and page number for each recorded location notice, including amended locations, and the place where recorded (courthouse, recorder's office, county, and state).

(b) State all the names by which you know the property.

(c) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise. If you are not the owner, submit with this application one exact copy of the lease, contract, or other document (with address of owner) under which you control the property.

(d) Describe all liens, mortgages, or other encumbrances on the property.

2. *Physical Description:*

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

(b) State your interest, if any, in operations stated in 2*(a)*.

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

(d) Describe known ore reserves on the property giving quantities and grades and sampling methods used, supporting your statement with copies of assay certificates and assay maps if available.

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

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

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

3. *Accessibility of Project:*

(a) To aid DMEA representatives who may be required to examine the property, state the name and address of the person who will meet the DMEA representative; give directions for reaching the property; and describe accessibility of the property including the mine workings.

(b) Name the shipping and supply points and places where employees reside and state the distances between them and the property.

4. *The Exploration Project:*

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

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

(c) In the event that an exploration contract with DMEA is executed, how soon will the work start and how many months will be required to complete it? State your anticipated average daily or monthly rate of progress for each type of work.

5. *Experience:*

State your operating experience and background with relation to your ability to carry out this exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of Costs:*

Furnish detailed estimates of the costs *for each item of the work proposed in 4(a)* under the headings listed below with a total for each heading and the estimated total cost of the project. Costs for any work to be performed by an independent contractor should be shown separately under category *(a)* below. Costs for any work that is not to be performed by an independent contractor should be given in detail under categories *(b)* through *(g)*.

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

(b) Personal services. For necessary supervision, engineering and geological services, and labor, include an itemized schedule of numbers, classes, rates of wages, salaries or fees, and periods of employment. State whether these technicians and employees are available.

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

(d) Operating equipment. List items of operating equipment to be used giving specifications and indicating how each item is to be acquired – i.e., rented, purchased, or provided by the applicant. If it is rented or purchased, state the estimated rental or purchase price. If it is to be furnished by the applicant, give its present fair market value.

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

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

(g) Miscellaneous. For the operating equipment listed in 6*(d)*, describe the type and estimate the cost of repairs and maintenance expected during project operations. Do not repeat initial repairs listed in 6*(e)*. Show also the costs of analytical work, accounting, workmen's compensation and employees' liability insurance, payroll taxes, and other required costs that do not fall within the previous categories.

Note – 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 the contract, should be included in the estimate of costs.

7. *(a)* State whether you are prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation stated in Sec. 7 of DMEA Order–I, Amended.

(b) Explain to what extent you propose to furnish your share of the costs by providing money, by use of equipment owned by you, or otherwise.

* * * * *

INT.-DUP. SEC., WASH., D.C. 15539

DMEA
RECEIVED NOV 12 1957

APPLICATION FOR DMEA AID

By
VIKING MINES INC.

1. Applicant's Property Rights:

   (a) Legal description of the property is:

   Eagle Bird and John A. Logan, patented Lode mining claims, U. S. Consolidated Survey No. 1404. Located in Secs. 26 and 35, Twp. 4 N. R. 21 E., Blaine County, Idaho.

   (b) Property is known as Garfield Mine, Eagle Bird and John A. Logan claims, Eagle Bird tunnel and Muldoon Mine.

   (c) Lessee, by assignment with option to purchase. Copies of lease and assignment are being reproduced and will follow application shortly.

   (d) None.

2. Physical Description:

   (a) Past mining exploration has consisted of mining to the surface one small and two medium sized bedded replacement type ore bodies. This has been accomplished with approximately 415' of drifting from portal. The exploration work has been approximately 310' of crosscutting to the Northeast and 70' of drifting East on a crush vein structure. Accompanying maps show and explain all existing workings. Production facilities include water and air lines, water pump, track, two mine cars, ore bin, compressor shed and air hoist.

   (b) None in the past.

   (c) Past production from existing records in our possession:

   1947-1953 - 3,325 dry tons of ore with 11.1 oz. of Ag, 7.94% Pb, and 5.36% Zn - average smelter and mill settlement returns.

   (d) No ore could be technically considered blocked, but evidence would suggest from stope showings, winzes, etc., perhaps 500-1000 tons of marginal ore (8 oz. Ag - 6-8% Pb) is available. Assay map and some Assay certificates enclosed.

2. (Cont.)

(e) The geologic formation is the Hyndman and East Fork Limestone bordered by a Granodiorite instrusion 2000 ft. to the East. The ore minerals are Galena (Pbs) and Sphalerite (ZnS) in bedded Limestone replacement type deposits. Geologic features include at least two Northeast (30 - 40°) shear zones that cut the bedding (strike N. 20° E. - Dip 30 - 40° E.) and appear to be feeders for mineralizing solutions in ore favorable lime bedding. Also a major (S. 80° E.) mineralized crushed vein structure cuts the bedding and has some structural control of mineralization. Maps and sketches accompany application.

(f) Ore is going down on bedding below track level on all known stopes and indications are that they should persist to a reasonable extent with depth.

(g) *Engineering report, assay maps, etc. enclosed and in process of obtaining additional material.

3. Accessibility of Project:

(a) Fred Shirts, Hailey, Idaho.

Mine is 30 miles by graded road Northeast of Bellevue. To Muldoon, hence North to Garfield Creek and up Garfield Creek road to mine. All mine workings are open and accessible.

(b) The shipping and supply points are Bellevue and Hailey, Idaho respectively - 30 miles from Bellevue to mine and 34 miles from Hailey to mine.

4. The Exploration Project:

(a) The proposed exploration project consists of:

(1) Forty (40) hours of bulldozer operation for road rehabilitation and snow removal on last 3 miles of mine road.

(2) Rehabilitation of existing winze (extension of Stope No. 2) prior to sinking. This includes support as needed, laying track, drainage (dewatering), installing haulage system with station, etc. Note: Winze is reported to be 60' - 90' down. It is flooded below 50' so exact length will not be known until dewatered.

(3) Sinking an inclined winze (extension of existing one) to a depth of 160', plus 10' for sump, making 170' total stope distance from tunnel level. Winze to be on footwall of mineralized bedding and 5' x 9' in rock cross section.

4. (a) (Cont.)

(4) 150' of crosscutting and drifting Northeast on bedding on the 160' level to intercept extension of Big Stope ore body. Drift to be 5' x 7' in rock cross section.

(5) Diamond drilling on surface above "D" bed to intercept ore at various depths and determine rake of ore shoot prior to interception at tunnel level. Three holes (if necessary) for total of 600' of diamond drill hole.
*See sketch map.

(6) Cutting and assaying of 50 samples (Pb, Ag, Zn, As) only As, over exploration project as work progresses.

(7) Timbering of drifts and/or crosscuts if needed in project.

(8) 200' of longhole drilling in project workings as needed.

(9) Rehabilitate haulage adit (due to an adverse grade) by lifting track and pulling down back for fill to halfway point and cutting other half (cut and fill) to achieve 1/2% (.5%) grade for hand tramming efficiency.

OR

Alternate Plan: Rehabilitating the second stope (winze stope) and installing haulage system for hauling straight through to the surface.

(b) None.

(c) Work would start on or before July 15, 1958. Approximately 5 to 6 months required for project. Rate of progress:

Rehabilitation of winze - 15 days
Diamond drilling - 30 days
Sinking winze - 3 months
Drifting - 1 month
Bulldozing - 5 days

5. Experience:

Supervision of this proposed mining project will be by Company Geologist, Verne L. McGowan, and Company Mining Engineer, Howard L. Waldron.

6. Estimate of Costs:

A detailed Estimate of all Costs will follow in Supplementary Report.

7. (a) We are prepared to furnish our share of cost of proposed project.

(b) By a combination of use of equipment, labor, providing money, etc.

* Page 2 - Engineer's reports to be returned to applicant.

* Page 3 - Sketch map enclosed.

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DATE | INITIALS | CODE

APPLICATION FOR DMEA AID
By
VIKING MINES, INC.

6. Estimate of Costs:

(1)	40 hours of Bulldozer Operation for road rehabilitation and snow removal @ D-8?	$12.00 pr. hr.	$ 480.00
(2)	Rehabilitation of winze prior to sinking - 60' @	25.00 pr. ft.	1500.00
(3)	Sinking 110' of inclined winze (5' x 9' in rock cross section) @	85.00 pr. ft.	9450.00
(4)	Crosscutting and drifting on 160' level - 150' @	42.50 pr. ft.	6375.00
(5)	Diamond drilling on surface to intercept "D" bed - 600' @	7.75 pr. ft.	4650.00
(6)	Samples for assay - 50 @	6.00 pr. smple	300.00
(7)	Timbered drifts and/or crosscuts as needed - 100' @	7.50 pr. ft.	750.00
(8)	Longhole drilling as needed - 200' @	4.00 pr. ft.	800.00
(9)	Adit rehabilitation of track grade to facilitate hand tramming - 255' @	12.50 pr. ft.	3187.50
		Total Cost,	$27,492.50

(This copy replaces last page of original application).

Encl. 5

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DMEA
RECEIVED NOV 12 195
DATE | INITIALS | CODE

SUPPLEMENT

to

APPLICATION FOR DMEA AID
By
VIKING MINES INC.

6. Estimate of Costs:

(1)	40 hours of Bulldozer Operation for road rehabilitation and snow removal @	$12.00 pr.hr.	$ 480.00
(2)	Rehabilitation of winze prior to sinking - 60' @	25.00 pr.ft.	1500.00
(3)	Sinking 110' of inclined winze (5' x 9' in rock cross section) @	85.00 pr.ft.	9450.00
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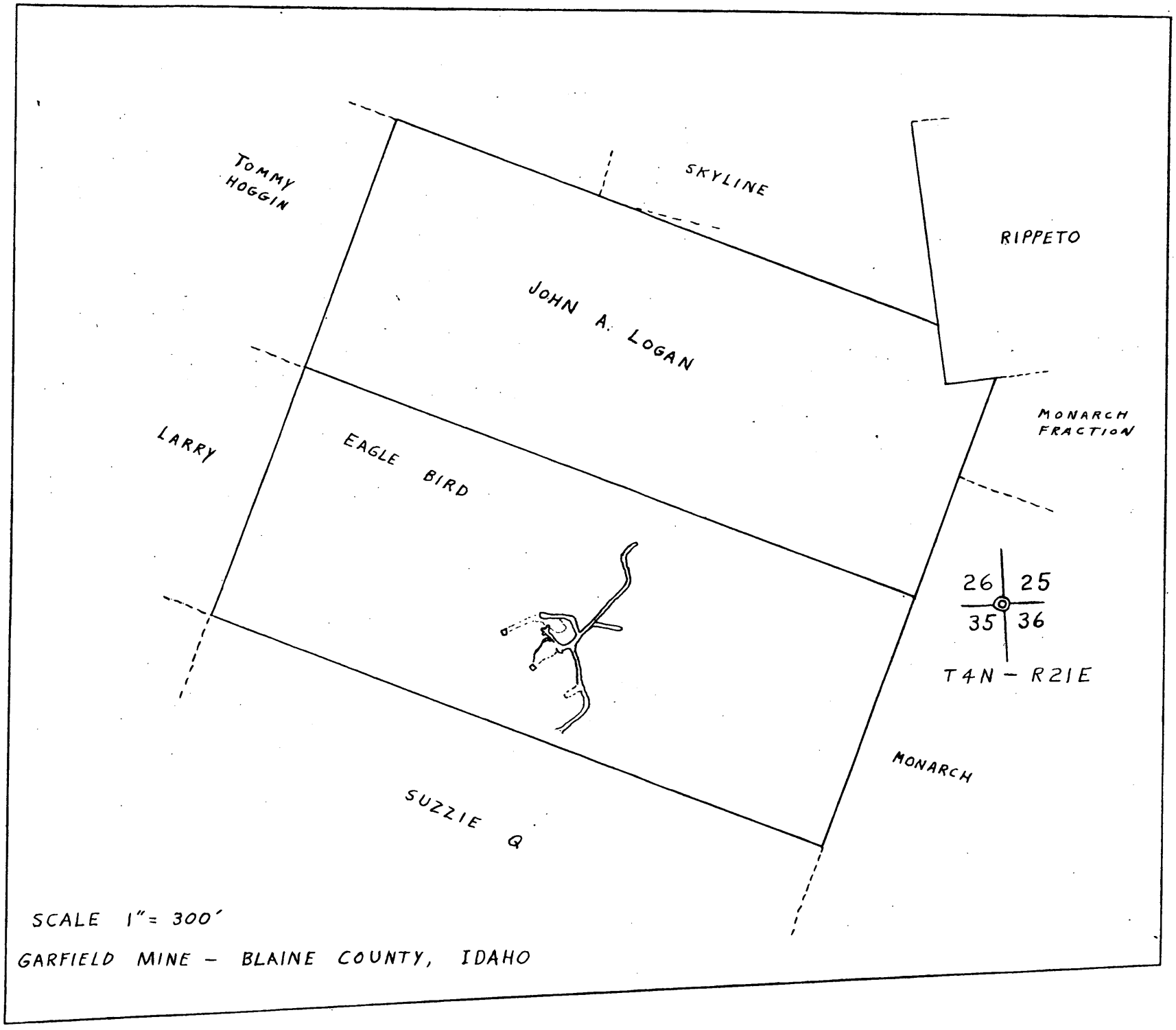
(5)	Diamond drilling on surface to intercept "D" bed - 600' @	7.75 pr.ft.	4650.00
(6)	Samples for Assay - 50 @ assay As?	6.00 pr.sple.	300.00
(7)	Timbered drifts and/or crosscuts as needed - 100' @	7.50 pr.ft.	750.00
* (8)	Longhole drilling as needed - 200' @	pr.ft.	
* (9)	Adit rehabilitation of track grade to facilitate hand tramming - 255' @	pr.ft.	

Ag, Pb, Zn 3.00
As. 3.00
6.00

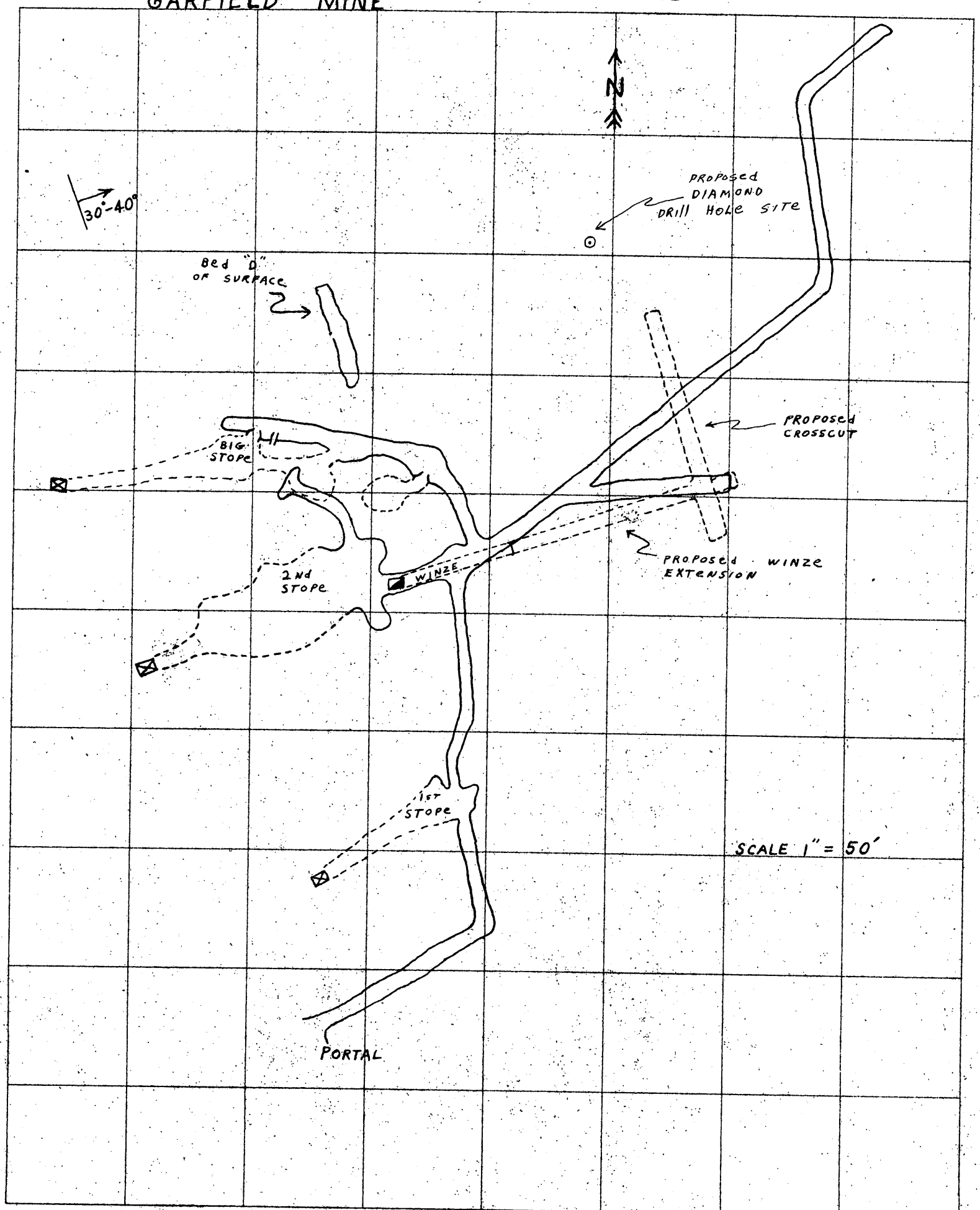
OR

Alternate Plan: Rehabilitate the second stope (winze stope) and installing haulage system for hoisting straight through to surface - _____ @ pr.ft.

* - Estimate for (8) and (9) above to follow in supplementary report.


TOMMY HOGGIN
SKYLINE
RIPPETO
JOHN A. LOGAN
MONARCH FRACTION
LARRY
EAGLE BIRD
26
25
35
36
T4N - R21E
MONARCH
SUZZIE Q
SCALE 1" = 300'
GARFIELD MINE - BLAINE COUNTY, IDAHO

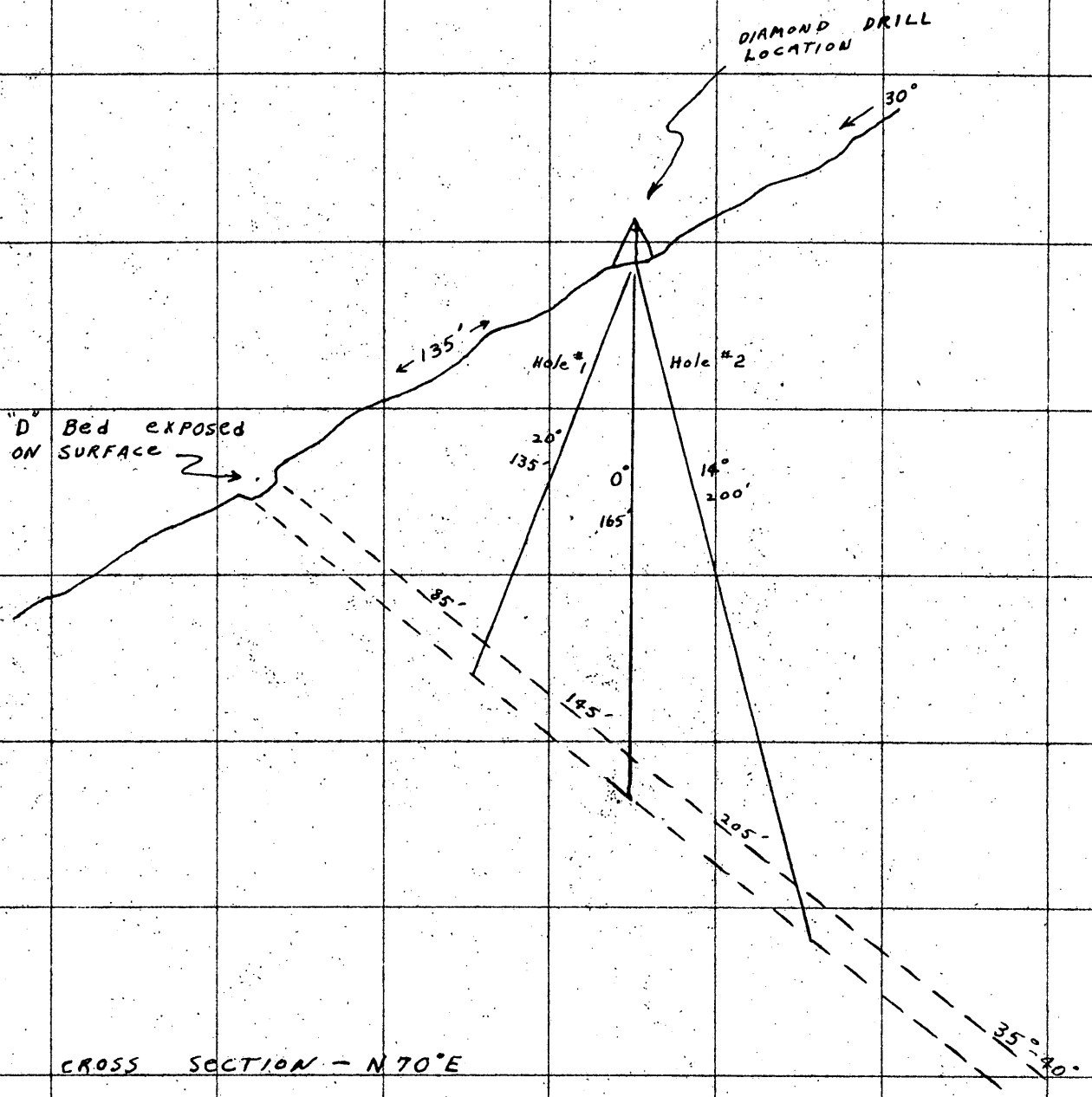
GARFIELD MINE



J. A. Gendron Co., Spokane

"ALBANENE" No. 188M K&E CO., N.Y.
REG. U.S. PAT. OFF.

DIAMOND DRILL PLAN - 600' OF HOLE



CROSS SECTION - N 70°E

SCALE 1" = 50'

GARFIELD MINE
BLAINE COUNTY, IDAHO

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 20 1958

DATE	INITIALS	CODE

822 North 23rd Street
Grand Forks, North Dakota
October 28, 1957

Mr. Verne McGowan, President
Viking Mines, Inc.
General Delivery
Hailey, Idaho

Dear Mr. McGowan:

This letter is to recommend a plan of exploration for the Garfield prospect near Hailey, Idaho. It follows my inspection of this property during the week ending October 26, 1957. Please feel free to use the letter in your application to DMEA for a 50-50 exploration loan. I am enclosing five dittoed copied for your use; each page is stamped in the lower-right corner with my seal as proof of authenticity.

Also, if you wish to send a copy to each of your shareholders, a copy will be available for each.

The Overall Prospect for Exploration Success: With a carefully planned exploration program, I believe there is an excellent chance you can block out enough ore for a successful small mine. The program outlined later should yield results according to this table of expectations:

1. Probable results (with perhaps an 80% probability) will be proof of 14,000 tons of ore in zones II and III. This would come from an indicated 30 tons or more per slope-foot in zone II; and 40 tons or more per slope-foot in zone III. The total for both zones would then be at least 70 tons per slope-foot along 200 slope-feet of development, or 14,000 tons.

2. It seems quite likely (with perhaps a 50% probability) that you will prove 20,000 to 50,000 tons in ore zones II, III, and IV (zone IV has also been referred to as zone D in some mapping and discussion). Zone IV is exposed only on the surface but has a possibility of being greater than zone III and II combined. The tonnage from zone IV would all be above the present Zero level (the adit). The above proven tonnage (20,000 to 50,000 tons) should make possible and also economically attractive the building of a gravity concentrator of 50 tons capacity per 24 hours. This would make a bulk sulphide concentrate and should more than pay for itself in the first 20,000 tons.

FRED L. WALDRON
REGISTERED
PROFESSIONAL
ENGINEER
NORTH DAKOTA

Encl 1

Mr. Verne McGowan, October 28, 1957, Contd.

The Overall Prospect for Exploration Success, Contd.

3. It is possible (with perhaps a 10 or 20% probability) that you will prove up in excess of 50,000 tons of ore. This should make financially attractive the building of a selective flotation concentrator of 30 tons or more capacity per 24 hours.

Re-evaluation on Completion of This DMEA Program. If at the conclusion of the first DMEA program to limited depth (200 feet below the present Zero level), you have achieved 1 or 2 above and it seems likely you can achieve 3 by further exploration, I recommend that you do such further exploration without mining or in any way depleting your proven ore bodies. The raising of capital for such further exploration could be through a second modest DMEA loan.

Source of Ore. The source of ore mineralization seems to be without question the granitic intrusives which lie southeast of the Garfield.

Passageways which brought the ore to the Garfield are likely zones of weakness identical or similar to the ore reservoirs described now.

Ore Reservoirs now in sight are determined by intersections of

a) Favorable limestone bedding planes with either or both of these:

b) Fissure-shear zones of modest width and vertical dip. Four separate, parallel zones at the Garfield strike approximately N 70° E. These have resulted in zones I (barren and tight -- with hanging wall and footwall close together), and ore zones II, III, and IV.

c) A tension-shear zone of greater width (and there may be more of these) strikes southeast-northwest. This intersected a zone of a) and one from b) to form the number III ore zone, which was the big one struck to date by workers at the Garfield.

These are the Exploration Possibilities--the main things exploration can or might accomplish:

1. Proof of ore in zones II and III between a new 200 level and the existing Zero level.

2. Proof of ore between the surface outcrop of zone I and the Zero level. It may also be possible in this area to prove this ore to a point 100 feet below the Zero level.

HOWARD L. WALDRON
REGISTERED
PROFESSIONAL
461
ENGINEER
NORTH DAKOTA

Mr. Verne McGowan, October 28, 1957, Contd.

These are the Exploration Possibilities, Contd.

3. Discovery of a new intersection of the tension-shear zone with a favorable limestone bedding plane. This could make a large orebody.

4. Discovery of new shear zones.

I recommend that we confine our activities to 1, 2 and 3 with reasonable amounts of each in an attempt to prove at least 14,000 tons of ore in zones II and III.

Recommended Program. The existing winze in zone II is reported to be 60 feet below the Zero level. That gives us some start on a sinking program. I recommend that we dewater and repair the 60 feet of winze and sink 140 feet more in ore to give a total development of 200 slope-feet below the Zero adit.

From the base of the zone II winze, we should crosscut approximately 100 feet to the footwall-center of ore zone III. We should raise on the footwall in ore to the Zero level. This will prove 200 slope-feet of ore in zone III if such ore exists, and I believe it does.

To locate ore in zone IV, I recommend we diamond drill three holes from the surface to locate the likely position of zone IV ore on the Zero level. Then, knowing that likely zone, we should drill from a station in the Zero level to intersect the ore. Following that we should crosscut from the east extension of the Zero level to the ore.

Finally, I recommend that we drift on the southeast-striking tension-shear zone on the Zero level for a distance of 200 feet or so. Either direction, northerly or southerly from zone III, seems to hold promise. Take your choice.

Estimated Cost of Recommended Program:

1. Hire of bulldozer. Rehabilitate road up mountain; dozer branch road to surface drill site; expose surface of zone IV. D-8 dozer, 8 days @ approximately $100 per day	$800.00
2. Rehabilitation of sections of Zero level. 300 feet @ $15 per foot	$4,500.00
3. Rehabilitation of existing winze below Zero level in zone II. 60 feet @ $25.00 per foot	$1,500.00

HOWARD L. WALDRON REGISTERED PROFESSIONAL 461 ENGINEER NORTH DAKOTA

Mr. Verne McKeown, Letter [illegible]

Estimated Cost of Recommended Improvements [illegible]

4. Sink winze in zone II. Size: 5-feet-high x [illegible]-feet-wide. Two compartments separated by [illegible] Ladder and [illegible] in one compartment, [illegible] in second [illegible].
140 feet @ $[illegible] per foot [illegible]

5. Crosscut from bottom of [illegible] winze to footwall-center of zone [illegible] of 6-feet x 7½-feet. Timber [illegible] through loose ground.
100 feet @ $12.50 [illegible]

6. Raise on zone III from [illegible] level to Zero level. 7-feet x 7 feet raise (which can [illegible] reconnoitre [illegible] Denver SFM#9, 4-inch [illegible] crusher with 48-inch steel chute) [illegible]
200 feet @ $12.50 [illegible]

7. Drift along Zero level [illegible] establishing [illegible] 6-feet x 7½-feet. Timber [illegible]
200 feet @ $12.50 [illegible]

8. Surface diamond drilling [illegible] to establish downward continuity of [illegible]
500 feet @ $4.00 [illegible]

9. Underground diamond drilling [illegible] to establish zone IV on [illegible] below.
700 feet @ $4.00 [illegible]

10. Underground diamond drilling [illegible] cross section of zone IV
200 feet @ $4.00 per foot [illegible]

11. Underground diamond drilling [illegible] cross section of zone III
300 feet @ $4.00 [illegible]

12. Underground diamond drilling [illegible] base of zone III from base of [illegible]
200 feet @ $4.00 per foot [illegible]

TOTAL RECOMMENDED PROGRAM [illegible]

HOWARD L. WALDRON
REGISTERED
PROFESSIONAL
ENGINEER
NORTH DAKOTA

Mr. Verne McGowan, October 26, 1977, Contd.

Estimated Cost of Alternate Program:

1.	Same.	$800.00
2.	Same.	$4,500.00
3.	Same.	$1,500.00
4.	Same, but sink 100 feet @ $90.00	$9,000.00
5.	Same.	$4,250.00
6.	Same, but raise 160 feet @ $42.50	$6,800.00
7.	Eliminate.	----------
8.	Same.	$2,000.00
9.	Same.	$2,800.00
10.	Same.	$800.00
11.	Same.	$1,200.00
12.	Same.	$800.00
	TOTAL COST OF ALTERNATE PROGRAM, APPROXIMATELY	$3,450.00

Equipment: I will submit separately to you later a list of recommended equipment and costs. I understand you will purchase these for Viking Mines, Inc., as sole owner, or rent them. The total cost of necessary equipment if purchased new will be approximately $18,000; the compressor will account for about $11,000 of that, so I suggest you begin to look carefully for a good buy in a used 315-cfm compressor; you can save several thousand dollars by buying that item at the right time and place.

Please let me know if I have omitted anything that is important to you in your immediate planning.

Good exploring to you.

Respectfully Submitted

Howard L. Waldron

Howard L. Waldron
Mine Engineering Consultant,
North Dakota Registered
Professional Engineer # 461

HOWARD L. WALDRON REGISTERED PROFESSIONAL ENGINEER 461 NORTH DAKOTA

A S S I G N M E N T

* * * *

THIS ASSIGNMENT, made and entered into this 4th day of February, 1958, by and between Verne L. McGowan of Grand Forks, North Dakota hereinafter referred to as ASSIGNOR, and Viking Mines Incorporated, a North Dakota Corporation, hereinafter referred to as ASSIGNEE,

WITNESSETH:

THAT WHEREAS the assignor holds one certain lease executed by L. F. Heagle and Julia Heagle, his wife, of Hailey, Idaho, to the following described patented mining claims, to wit:

> EAGLE BIRD and JOHN A. LOGAN, patented
> Lode Mining Claims, U. S. Consolidated
> Survey No. 1404,

situated in Little Wood River Mining District, Blaine County, Idaho, together with an assignment to the above mentioned lease executed by and between Arne C. Friestad and Frances Friestad, husband and wife, of Hailey, Idaho, and Fred Shirts and Opal Shirts, husband and wife, of Hailey, Idaho, Assignors, and Verne L. McGowan, Assignee.

NOW THEREFORE, In consideration of the payment of One Dollar ($1.00) said Assignor does hereby sell, assign, convey, and grant unto Assignee all right, title, and interest of Assignor in and to said mining rights and lease and above mentioned assignment.

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands and affixed their seals as of the day and year first above written.

Verne L. McGowan

Verne L. McGowan, Assignor.

VIKING MINES INCORPORATED

Howard L. Waldron

Viking Mines Incorporated
By: Howard L. Waldron, Vice Pres;

A C K N O W L E D G M E N T S

STATE OF NORTH DAKOTA)
(ss
County of Grand Forks)

On this 4th day of February, 1958, before me, the undersigned, a Notary Public, in and for said State, personally appeared:

VERNE L. MCGOWAN and HOWARD L. WALDRON

known to me to be the persons whose names are subscribed to the within instrument, and acknowledged to me that they executed the same.

IN TESTIMONY WHEREOF, I have hereunto set my hand and official seal on the day and year in this certificate above written.

Gordon Caldis GORDON CALDIS
Notary Public, residing at

Grand Forks County, N.D.
My Commission Expires May 12, 1963

Resolution

Resolved: that Howard L. Waldron, Vice President of Viking Mines Incorporated, is authorized to sign for the corporation an assignment between Verne L. McGowan, Assignor, and Viking Mines Incorporated, Assignee to the following described property:

> EAGLE BIRD and JOHN A. LOGAN, patented Lode Mining Claims, U. S. Consolidated Survey No. 1404, situated in Little Wood River Mining District, Blaine County, Idaho.

Certificate

I have compared the foregoing with a resolution passed by the Board of Directors of Viking Mines Incorporated at a special meeting of the Board of Directors held in Grand Forks, North Dakota on January 30, 1958.

Seal

D. G. McGowan
Secretary, Viking Mines Inc.

ASSIGNMENT

THIS AGREEMENT, made and entered into [illegible] day of December, 1956, by and between ANNE C. FRIEST[illegible] FRANCES FRIESTAD, husband and wife, of Hailey, Blaine [illegible] Idaho, and FRED [illegible], husband and [illegible] Hailey, Blaine County, Idaho, parties of the first part [illegible] hereinafter referred to as ASSIGNORS, and [illegible] of the second part, hereinafter referred to as ASSIGN[illegible]

WITNESSETH:

THAT WHEREAS Assignors hold one certain L[illegible] executed by Lawrence F. Keagle and Julia Keagle, his w[illegible] the following described Patented Mining Claims, to-wit:

> EAGLE BIRD and JOHN A. LOGAN, patented Lode Mining Claims, U. S. Consolidated Survey No. 1404,

situate in Little Wood River Mining District, Blaine [illegible] Idaho, together with an agreement extending term of sa[illegible] lease and agreement, which agreement of extension was [illegible] 28th day of November, 1956, and which said agreement ext[illegible] term for an additional ten year period, subject to the [illegible] and conditions therein provided; and

WHEREAS, Assignors and Assignee have agreed [illegible] assignment of said lease and extension agreement,

NOW THEREFORE, In consideration of the payment [illegible] Thousand ($1,000.00) Dollars, and payments of royalties [illegible] inafter provided, said Assignors, do hereby sell, assign, [illegible] and grant unto Assignee, and to his heirs, executors, admin[illegible] ors and assigns, all right, title and interest of Assignors [illegible] and to said mining rights and lease and extension agreement above mentioned upon the following terms and condit[illegible]

That upon execution of this agreement and delivery to said Assignee, said Assignee shall pay to said Assignors the sum of One Thousand ($1,000.00) Dollars; That assignee shall pay assignors the sum of Nine Thousand ($9,000.00) Dollars shall be paid (without interest), by royalties from sales of ores, concentrates and other products of operations on mining claims at the rate of two and one-half (2½%) percent of the net smelter returns from said ores, concentrates and products of operation; by the term "net Smelter Returns" used herein is defined and means the amount by lot said smelter or other purchaser after all deductions for cartage and/or treatment charges, sampling, assaying, R. R. freight, truck haulage costs. An additional royalty at rate of two and one-half (2½%) percent shall be paid on any premium or bonus payments made to said Assignee by or on behalf of any governmental agency under any premium or bonus price plan on lead, zinc, copper, and other metal products produced from premises, to the extent that the law or regulations applicable to such premium or bonus payments permit. All royalties paid shall apply on the above mentioned balance of Nine Thousand ($9,000.00) Dollars above provided. This provision for royalties to assignors shall be in addition to royalties to be paid to the said Lawrence F. Beagle and Julia Beagle.

And in further consideration of said assignment, said Assignee does hereby covenant and agree that he will at all times fully comply with all terms, conditions, covenants and agreements mentioned in said Original Lease and Extension agreement; that said Assignee will not surrender said lease or extension agreement to said Lessors without the express consent of said Assignees.

It is agreed that time is of the essence of this agreement and that should Assignee fail to keep, observe

perform each and all of the terms and conditions of [illegible]

lease and extension agreement, as and when required [illegible]

[illegible]

Assignment agreement [illegible]

It is further agreed that upon payment of the said [illegible]
($10,000.00) D[illegible] above pre[illegible]
settlement shall be [illegible]

ACKNOWLEDGMENT

STATE OF IDAHO,)
(ss
County of Blaine)

On this 13th day of December, 1956, before me, the undersigned, a Notary Public, in and for said State, personally appeared:

ARNE C. FRIESTAD and FRANCES FRIESTAD, husband and wife,

known to me to be the persons whose names are subscribed to the within instrument, and acknowledged to me that they executed the same.

IN TESTIMONY WHEREOF, I have hereunto set my hand and official seal on the day and year in this certificate above written.

Joseph McFadden
Notary Public, residing at
Hailey, Idaho

* * * * * * * * * *

STATE OF IDAHO,)
(ss
County of Blaine)

On this 13th day of December, 1956, before me, the undersigned, a Notary Public, in and for said State, personally appeared:

FRED SHIRTS and OPAL SHIRTS, husband and wife,

known to me to be the persons whose names are subscribed to the within instrument, and acknowledged to me that they executed the same.

IN TESTIMONY WHEREOF, I have hereunto set my hand and official seal on the day and year in this certificate above written.

Joseph McFadden
Notary Public, residing at
Hailey, Idaho

* * * * * * * * * *

STATE OF North Dakota)
(ss
County of Grand Forks)

On this 20th day of December, 1956, before me, the undersigned, a Notary Public, in and for said State, personally appeared:

VERNE L. McGOWAN,

known to me to be the person whose name is subscribed to the within instrument, and acknowledged to me that they executed the same.

IN TESTIMONY WHEREOF, I have hereunto set my hand and official seal on the day and year in this certificate above written.

John Ingwalson
Notary Public, residing at

EXTRA COPY
DMEA
RECEIVED JAN 20 1958
DATE | INITIALS | CODE

AGREEMENT

* * *

THIS INDENTURE, Made and entered into this [illegible] day of November, 1956, by and between Lawrence I. [illegible] and Julia Heagle, husband and wife, of Hailey, Blaine County, Idaho, parties of the first part, hereinafter referred to as Lessors, and Arne C. Friestad and Fred Shirts, both of Hailey, Blaine County, Idaho, parties of the second part, hereinafter referred to as Lessees, WITNESSETH:

THAT WHEREAS, the said Lessors, hereinafter named, did on the 13 day of March, 1956, enter into one certain mine lease with the said Lessees, said mine lease pertains to the following described mining claims, situate in the Little Wood River Mining District, Blaine County, Idaho, to-wit:

Eagle Bird, and John A. Logan, patented Lode Mining Claims, U. S. Corporation No. [illegible] and

WHEREAS, the said parties of the first part, in consideration of the payment of Ten ($10.00) Dollars, [illegible] paid by the said second parties, have agreed to extend the term of said lease and agreement,

NOW THEREFORE, in consideration of the payment as above provided, the said Lessors do hereby extend the term of the said mine lease, upon the following terms and conditions: if the said Lessees or their assigns, should during the term of said lease and agreement and while they are in full compliance with said lease and agreement, desire to have [illegible] extended for an additional five year period, the said Lessees shall serve written notice upon the said Lessors of their desire to extend the lease for such period, and provided, that there shall be a mill operating on or in the vicinity of said mining

Encl. 4

claims, constructed for the purpose of processing all ores removed from said mining claims; that unless such mill is so constructed and is operating, and shall remain in operation during such extended period, then such extension of time shall not be effective. That by this provision, it is made a condition to the extension of time, that such a mill of adequate capacity to handle the ores being produced from said mine be constructed and in operation, and if such is so accomplished during the initial term of this lease, upon written notice being given, then the said mine lease shall be extended for a term of ten (10) additional years from the expiration date thereof. And in further consideration of the payment of the said sum above mentioned, and in consideration of the work accomplished by the said parties of the second part, Lessees, it is further understood and agreed that the term of the said Mine Lease shall be fixed, as on a fiscal year, that is to say, as of January 1, 1956 to December 31, 1956, and thereafter from the 1st day of January of each succeeding year to the 31st day of December of the following year; That for the year terminating as of December 31, 1956, it is agreed that the work already accomplished by the said Lessees shall be considered as in full compliance with the terms and conditions of the said Mine Lease.

It is further understood and agreed between the parties hereto, that the Lease and this Supplemental Agreement made, may be assigned by the Lessees upon giving executed copy of any Articles of Assignment to the said Lessors, which said Articles of Assignment shall require any assignee to fully comply at all times, with all terms and conditions of the said initial Mine Lease and Agreement, and this Extension.

IN WITNESS WHEREOF, the parties hereto, have hereunto

set their hands as of the day and year first above written.

Lawrence F. Heagle

Julia Heagle

Parties of the First part,
Lessors.

Arne C. Fivestad

Fred H. Shortt

Parties of the Second part,
Lessees

A C K N O W L E D G M E N T S

STATE OF IDAHO,)
(ss.
COUNTY OF BLAINE)

On this 28th day of November, 1956, before me, the undersigned, a Notary Public, in and for said State, personally appeared:

LAWRENCE HEAGLE and JULIA HEAGLE, his wife,

known to me to be the persons whose names are subscribed to the within instrument, as the Parties of the first part, the Lessors, and acknowledged to me that they executed the same.

IN TESTIMONY WHEREOF, I have hereunto set my hand and official seal on the day and year in this certificate above written.

Joseph McFadden

Notary Public, residing at
Hailey, Idaho

A C K N O W L E D G M E N T S

STATE OF IDAHO,)
(SS
COUNTY OF BLAINE)

On this 13th day of November, 1956, before me, the undersigned, a Notary Public in and for said State, personally appeared

ARNE C. FRIESTAD,

known to me to be the person whose name is subscribed to the within instrument, as party of the second part, the Lessee, and acknowledged to me that he executed the same.

IN TESTIMONY WHEREOF, I have hereunto set my hand and official seal on the day and year in this certificate above written.

Joseph M Darlek
Notary Public for Idaho,
Residing at Hailey, Idaho

* * * * * * *

STATE OF Idaho)
COUNTY OF Blaine) ss

On this 13th day of November, 1956, before me, the undersigned, a Notary Public in and for said State, personally appeared

FRED SHIRTS,

known to me to be the person whose name is subscribed to the within instrument, as party of the second part, the Lessee, and acknowledged to me that he executed the same.

IN TESTIMONY WHEREOF, I have hereunto set my hand and official seal on the day and year in this certificate above written.

Joseph M Darlek
Notary Public for Idaho
Residing at Hailey, Idaho

DMEA
RECEIVED JAN 20 1958
DATE | INITIALS | CODE

MINE LEASE

* * * * * * * * * * * *

THIS LEASE AND OPTION, made this 13th day of March 1956, Between L. F. HEAGLE and Julia Heagle, husband and wife, of Hailey, Blaine County, Idaho, hereinafter referred to as lessors, and Fred Shirts and Arne C. Friestad

Lessees, WITNESSETH:

That the said Lessors, for and in consideration of the sum of One Dollar ($1.00), lawful money of the United States, and other valuable considerations, the receipt whereof is hereby acknowledged, and in further consideration of the royalties, covenants and agreements hereinafter reserved, and by said Lessees to be paid, kept and performed, do grant, demise and let, and by these present, have granted, demised and let unto said Lessees all of their right, title and interest in and to the following described property and patented mining claims situate in the Little Wood River Mining District, Blaine County, Idaho, known and recorded as:

> Eagle Bird, and John A. Logan, patented Lode mining claims, U. S. Consolidated Survey No. 1404,

together with all the tenements and hereditaments belonging to or in any wise appertaining in and to the real property hereinabove described, including the apexes, dips, spurs, angles and variations of all veins, workings, lodes and mineral deposits contained within and belonging to each and all of said lode mining claims;

TO HAVE AND TO HOLD SAID DEMISED PREMISES and property unto said Lessees for the purposes of mining and removing ores and metals therefrom, for the term of ten (10) years from the date hereof, unless at any time sooner terminated as herein-

after provided.

AND IN CONSIDERATION of said demise, the Lessees do hereby covenant and agree with the Lessors as follows, to-wit:

1. That Lessees herein are independent contractors and there shall be no privity of contract between Lessors and the employees of Lessees; Lessees shall have exclusive dominion and control over the leased property and the operations thereof during the term hereof.

2. Lessees will enter upon said premises and take possession thereof and will commence exploration, development and mining operations upon said property before the 1st day of July 1956, and will continue such operations with reasonable continuity, and do not less than three hundred (300) man shifts per year; the year being considered with the execution hereof, or the equivalent of three hundred (300) man-shifts, computed at the rate of Twenty ($20.00) Dollars, per shift, or a total of Six thousand ($6,000.00) Dollars, and such equivalent work to be in such work, as drilling, building, road work, tunnelling, and other work that is necessary and proper, or done in conjunction with said mining claims; and such expenditures shall be made annually, with the year commencing as of the date hereof, during the term of this lease, and shall continue for the said period of this lease, and thereafter as long as this agreement shall be in force. In full compliance with this provision, Lessees may elect to pay to Lessors, an advance royalty equal to One Thousand ($1,000.00) Dollars per year, as rental payments, in lieu of doing the above mentioned work.

3. Lessees will perform all work in said demised premises in a safe and minerlike fashion in accordance with the mining laws and such rules and regulations as may have been issued by any Officers, Board or Commissions of the State of

Idaho; and all active working places shall be maintained in accordance with the standards established by such rules and regulations.

4. Lessees, at their own expense, will carry workmen's compensation insurance and liability insurance covering their their operations hereunder and also any other insurance required by the laws of the State of Idaho covering them and all their employees; Lessees will pay all taxes and contributions and make all deductions required under the Federal Social Security Act and Idaho State Employment Security Law, and for which Lessees may become obligated; and Lessees will comply with all other rules and regulations of any governmental authority affecting Lessees' operations upon said premises and shall furnish Lessors with supporting evidence of such compliance upon request.

5. There is reserved to Lessors the right of entry in and upon said property for the purposes of inspection, surveying and sampling of the workings and for checking upon compliance by Lessees with the terms and conditions hereof, all at the sole expense and risk of Lessors, and without interference with the Lessees' operation hereunder.

6. Lessees will immediately post and record, according to law, statutory notices to material men and laborers to indemnify Lessors and said property against obligations and liability incurred by Lessees in their operations hereunder.

7. Lessees will hold Lessors harmless and fully indemnify Lessors against all claims and demands of every kind and nature which may be made upon Lessors, or against the above described premises for or on account of any debts or expenses contracted or incurred by Lessees, as well as for and against all acts, transactions or omissions by Lessees, their agents and servants, including claims, demands, causes of action, costs

and expenses to any person. Lessors will hold Lessees harmless and indemnify Lessees against all claims and demands of every kind and nature arising from reasons of any conditions of said premises as of the date hereof or operations prior to Lessees taking possession.

8. This Lease and Option may be assigned by Lessees in whole or in part at any time upon Lessees submitting to Lessors a copy of such article of assignment showing that such assignees or sub-lessees accept all terms and conditions of this Indenture.

9. Lessees shall surrender to Lessors the said premises with the appurtenances and improvements thereto without demand or further notice on the last day of the term, or any extension of the term hereof, or by any time previous thereto upon demand after forfeiture; and upon termination in any manner other than by purchase of said premises, any sums of money theretofore and thereafter paid to the Lessors under the provisions hereof shall be retained by the Lessors as liquidated damages and rental in full; provided, that Lessees shall have thirty (30) days from and after date of any such termination in which to remove all broken ore from the property for shipment under the terms of this agreement, and Lessees shall have the right during such interim, to remove from said premises, all tools, equipment and supplies owned by Lessees.

10. All ores shall be sampled by Lessees; the ore buyer shall make such divisions of the proceeds as is agreed herein and pursuant to instructions to be submitted by the parties hereto. Lessees shall not be liable for upsilost by theft, accident or financial difficulties of the ore buyer not arising from their own negligence.

11. Lessors shall have access to all original reports of Lessees concerning ore production to enable Lessors to

to ascertain compliance herewith; such examinations shall be conducted by Lessors at no cost to Lessees and not more often than once each calendar month and within normal business hours. Lessors shall have the right to be present or be represented at the sampling of any ores should they so desire. Lessors shall pay the cost of assaying mine samples and of any control assays and also the cost of any surveys desired by Lessors.

12. Lessees shall pay the Lessors royalties upon all ore, concentrates, and other products of operations hereunder, as follows:

> Upon Concentrates, that is to say upon all ores that are milled locally, and by the term locally, means within a radius of sixty (60) miles from the mine, net smelter returns
>
> Eight per cent (8%) of the net smelter returns.
>
> On Crude Ores: (a) Ten percent (10%) of the net smelter returns.

The term "net smelter returns" as used herein is defined and means the amount by lot paid by the smelter or other purchaser after all deductions for smelting and/or treatment charges, sampling, assaying, R. R. Freight, and truck haulage costs, (except truck haulage charges from mine to railroad) whether by Lessees or independent contractors. An additional royalty of ten percent (10%) shall be paid on any premium or bonus payments made to Lessees by or on behalf of any governmental agency under any premium or bonus price plan for lead, zinc, copper, and other metal products produced from said premises, to the extent that the law or regulations applicable to such premium or bonus payments permit. All

royalties paid shall be credited as payments upon the purchase price hereinafter stipulated.

13. During the life of this contract the Lessees shall pay all state and county taxes lawfully assessed or levied against said claims, improvements, equipment and other property placed upon said mining claims by them, or upon any operations carried on hereunder. Lessors, however, shall pay there pro rata share of any production or severance taxes assessed against the products of such operations.

14. In the event the Lessees shall fail to keep, observe and perform each and all of the terms and conditions hereof on their part, as and when required by this contract, the Lessors may give the Lessees sixty (60) days written notice of their intention to declare a forfeiture hereof, stating in such notice the alleged grounds of forfeiture; and if the Lessees shall fail to cure and correct any defaults of which they may then be guilty, within sixty (60) days after service of such notice, then this Option and Lease shall become null and void at the expiration of said period; but if they shall remedy all such defaults within said time, then this contract shall continue in full force and effect as though such notice had not been given.

15. The Lessees may surrender this Option and Lease at any time upon thirty (30) days written notice to the Lessors.

16. In consideration of the execution and delivery of the foregoing lease, Lessors hereby given, and grant unto Lessees the exclusive right and option to purchase all the right, title and interest of Lessors in and to said demised premises and property for the sum of forty thousand ($40,000.00) Dollars, and agree that all royalties, or rental payments, received by Lessors hereunder shall be applied toward the payment of said purchase price. Lessees shall have the right

to make such other and further payments upon said purchase price as they may at any time desire, and upon the payment of the balance of said purchase price in full Lessors will execute and deliver to Lessees a good and valid conveyance of said property.

17. Written notices hereunder shall be sent by registered mail and addressed to Lessees at _____ Hailey, Idaho _____ and to Lessors, at Hailey, Idaho. Such notices shall be deemed complete upon deposit in the Post Office.

18. This agreement shall be binding upon the heirs, personal representatives, executors, administrators and assignees of all parties hereto.

IN WITNESS WHEREOF, Lessors and Lessees have hereunto set their hands and seals in triplicate as of the 13th day of March 1956.

Fred Shutt
Anne C. Friestad

L. F. Heagle
Julia Heagle
Lessors

Lessees

* * * * * * * *

ACKNOWLEDGMENT

STATE OF IDAHO,)
) ss
County of Blaine)

On this 13th day of March 1956, before me, the undersigned, a Notary Public in and for said State, personally appeared L. F. HEAGLE and JULIA HEAGLE, husband and wife, of Hailey, Blaine County, Idaho, and known to me to be the persons whose names are subscribed to the within instrument and acknowledged to me that they executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year above written.

Joseph M. Faulkner
Notary Public for Idaho,
Residing at Hailey, Idaho
My Com. exp. April 12 1959

STATE OF IDAHO, }
County of Blaine } ss

[illegible] 1956, before me, the undersigned, a Notary Public in and for the said State, personally appeared

Fred Shirts and Arne Friestad

of _____ and known to me to be the persons whose names are subscribed to the within instrument and acknowledged to me that they executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year above written.

Joseph M. Dadbury
Notary Public for Idaho,
Residing at Hailey, Idaho
My Com. Exp. [illegible]

[illegible]

. . . . . .

STATE OF IDAHO, }
County of Blaine } ss

On this _____ day of _____ 195[illegible], before me, the undersigned, a Notary Public in and for the said State, personally appeared

_____

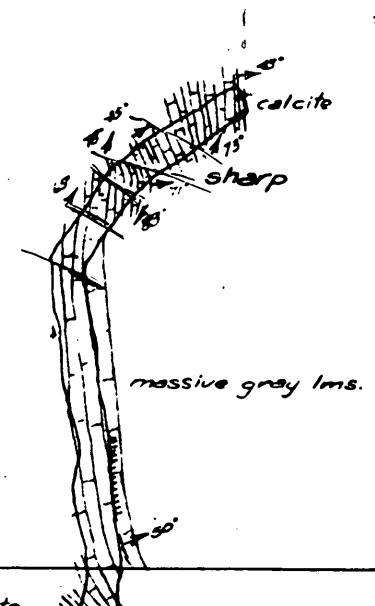
of _____
known to me to be the persons whose names are subscribed to the within instrument and acknowledged to me that they executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year above written.

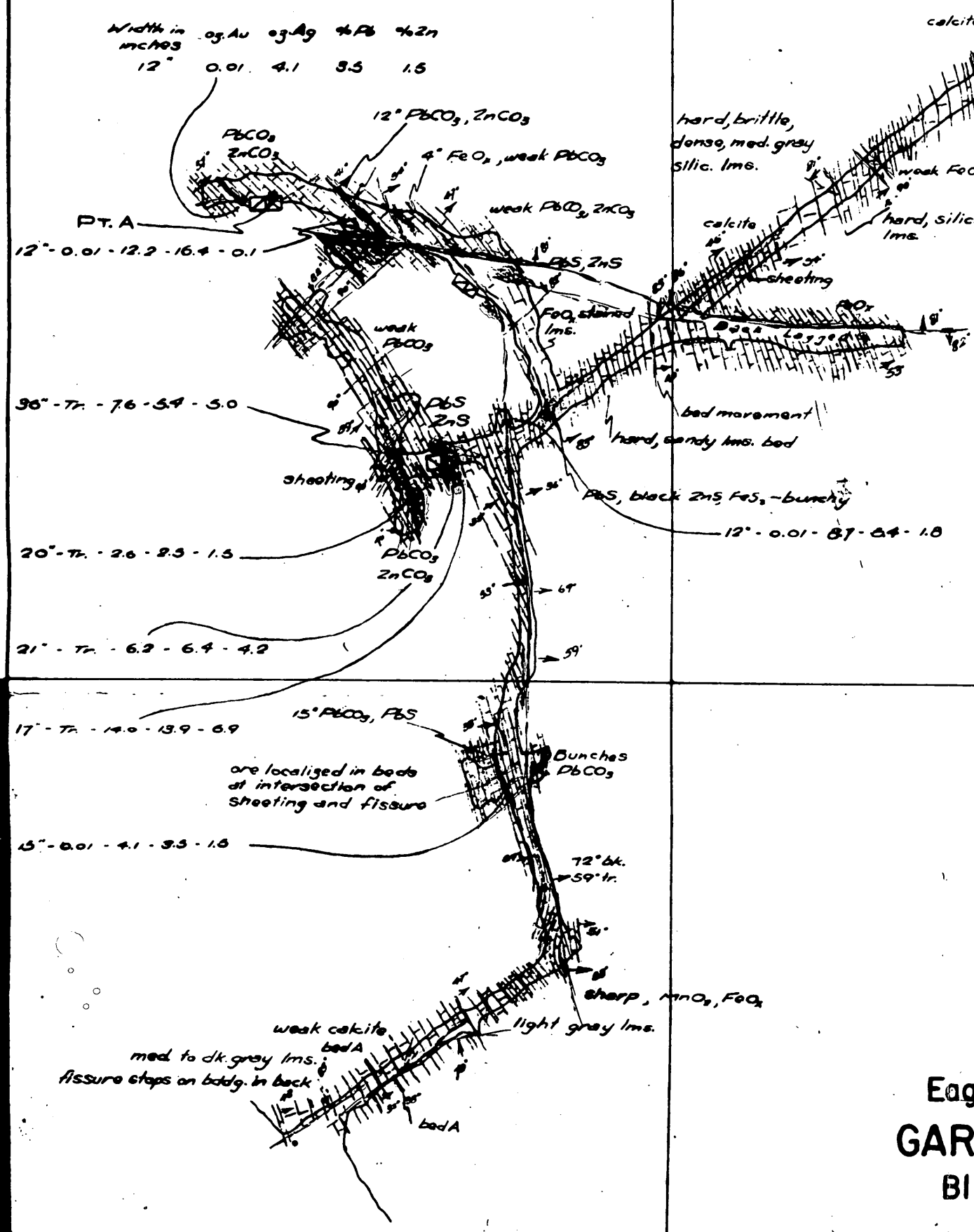
_____
Notary Public for Idaho,
Residing at _____
My Com. exp. _____

Assay Order as Follows: Width, oz. Au, oz. Ag, % Pb, % Zn

STOPE ABOVE
EAGLE BIRD TUNNEL
34½' above track



Width in inches	oz. Au	oz. Ag	% Pb	% Zn
12"	0.01	4.1	3.5	1.5



Eagle Bird Tunnel

GARFIELD MINE

Blaine Co., Ida.

Aug. 30, 1950 QFT, JKJ

1 in. = 40 ft.

To Be Re

OFFICIAL FILE COPY

Date	Pulp Wood Logging			
10/13/53	[illegible]	[illegible]	[illegible]	[illegible]
10/20/53	[illegible]	[illegible]	[illegible]	[illegible]
9/26/53	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Southern				
10/27/52	[illegible]	[illegible]	[illegible]	[illegible]
10/24/52	[illegible]	[illegible]	[illegible]	7.07
10/6/52	[illegible]	[illegible]	[illegible]	6.35
10/20/52	[illegible]	6.98	6.35	5.57
	45.21	36.94	[illegible]	28.11
International				
10/17/52	56.48	9.77	[illegible]	2.7
9/30/52	49.99	11.09	12.6	3.2
9/19/52	50.48	11.04	12.4	3.0
	156.97	32.52	33.6	8.9
W. S. Smelting				
8/19/52	44/48	54/48		
	48	12.7	9.40	2.35	2.9
8/12/52	42.8	11.2	9.45	2.85	2.0
	94.2	24.4	18.10	5.20	
Combined Metals					
10/24/51	58	9.45	[illegible]	6.0	
W. S. • Smelting					
10/18/51	50.82	9.0	6.66	5.11	5.5
9/13/51					
Combined Metals					
10/13/51	57.66	9.30	5.40	6.3	
10/3/51	50.35	9.56	5.0	6.57	
9/26/51	54.45	9.00	6.0	5.27	
8/29/51	45.27	8.15	6.2	4.62	
	216.01	30.39	24.43	22.76	

Southern Company
Assets

Combined Metals

Date	Tons Dry Weight	Ag	[illegible]	[illegible]	[illegible]
12/7/49	56.96	8.74	7.55	6.62	
11/2/49	139.65	[illegible]	[illegible]	6.97	
10/25/49	128.80	[illegible]	[illegible]	7.27	
	325.41	45.76	[illegible]	20.16	
[illegible]					
10/5/49	40	11.60	[illegible]	3.05	3.9
9/24/49	[illegible]	14.3	12.9	3.0	6.0
8/23/49	30.77	16.2	[illegible]	1.9	12.0
	134.94	42.31	37.[illegible]	6.25	
Combined Metals					
8/18/49	30.72	[illegible]	[illegible]	3.47	
11/22/48	[illegible]	[illegible]	[illegible]	3.07	
10/27/48	[illegible]	[illegible]	[illegible]	2.76	
10/29/48	30.49	10.49	[illegible]	6.15	
10/25/48	33.26	[illegible]	[illegible]	8.25	
10/22/48	52.06	12.26	7.0	9.35	
	302.90	65.21	[illegible]	37.33	
U. S. Smelting					
9/30/48	[illegible]	[illegible]	[illegible]	7.05	2.5
9/[illegible]/48	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9/[illegible]/48	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	2.6	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	622.[illegible]	12.9[illegible]	[illegible]	[illegible]	

[illegible]

Date	Lot No.	Tons Dry Weight	Gen. As.	Gen. Al.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12/2/50	6944	57.079	.0075	5.85	7.45	6.000	.33	.6	.175
11/27/50	6886	55.502	.0075	5.04	7.20	6.075	.15	.75	.225
11/21/50	6885	56.160	.0075	7.00	6.075	6.7	.03	.000	.60
11/14/50	6868	49.324	.0075	10.35	8.720	6.70	.05	.075	.30
11/4/50	6850	50.000	.0075	6.50	7.275	6.075	.03	.225	.175
10/31/50	6846	54.000	.005	6.70	8.5	6.64	.10	.6	.16
9/21/50	6144	50.002	.005	5.40	6.4	5.01	.15	1.00	.15
9/14/50	6128	70.000	.005	5.45	5.025	6.075	.000	0.025	.025
9/8/50	6100	50.102	.0075	5.30	6.05	5.000	.175	1.25	.000
8/22/50	6001	50.075	.0075	5.37	6.70	5.175	.5	1.00	.400
8/14/50	6005 & 6000	[illegible]	.005	5.35	5.85	5.00	.5	1.0	.25
Total and Average		[illegible]	.0050	5.70	6.35	6.15	.100	.975	.300

[illegible]

Date	Lot No.	Tons Dry Weight	Gen. As.	Gen. Al.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10/19/50	80	55.100	.05	16.00	14.40	1.75	.00	35.00	15.00	5.00	.70	5.70
10/2/50	81	[illegible]	.0075	16.00	16.35	1.00	.02	35.00	15.75	1.00	.02	1.02
Total and Average		[illegible]	.0075	16.00	15.35	1.00	.02	35.00	15.00	3.00	.20	3.00

OFFICIAL FILE COPY
DMEA
RECEIVED NOV 12 1957

DATE	INITIALS	CODE

8/14/m

ASSAY CERTIFICATE

To Be

UNITED STATES SMELTING REFINING AND MINING COMPANY

Name [illegible] Mine

[illegible], Idaho

Midvale, Utah, June 18, 1966

No.	Ounces Gold	Ounces Silver	Pounds Lead	Pounds Copper	Pounds Zinc	Pounds Tin	Per Cent Iron	Per Cent Sulphur	Per Cent Antimony	Per Cent Bismuth	Per Cent Arsenic	Per Cent Cadmium	Name	Per Cent
#1	[illegible]	0.0	[illegible]	0.0			1.0	9.4				12.0	White	
2	[illegible]	[illegible]	[illegible]	[illegible]			0.0	35.0				16.0	[illegible]	Chip
3	[illegible]	[illegible]	[illegible]	[illegible]			0.7	[illegible]				1.5	[illegible]	Hand
4	[illegible]	0.0	[illegible]	0.0			0.7	14.0				1.1	[illegible]	Chip
5	[illegible]	[illegible]	[illegible]				[illegible]	[illegible]	"D"	[illegible]		[illegible]	[illegible]	Sample

[illegible]

[illegible]

RECEIVED NOV 12 1957

[illegible]

RECEIVED NOV 12 1957

DATE	INITIALS	CODE

Telephone Elgin 2-[illegible] Mined Sample Serial 8119-10

Mine [illegible]

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

[illegible]

Salt Lake City 10, Utah

Sample net wt. of ore pounds Dec. 11, 1956

NO.	GOLD Ounces Per Ton	SILVER Ounces Per Ton	[illegible]	[illegible] Per Cent	[illegible] Per Cent	ZINC Per Cent	SULPHUR Per Cent	LEAD Per Cent	[illegible]	[illegible] Per Cent	[illegible] Per Cent	VALUE GOLD
1	0.005	1.0	7.0			3.0		2nd	Stope			
2	Trace	0.6	8.0			4.6		B16	Stope			

Remarks

Charges $ [illegible]

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
12/16	Selfridge	120
12/16	Faldwin	800
	Fivamel	500
12/11	Johnson	110
	Seller	140
		~~150~~
		~~160~~
12/29	cae	220
		225

INTERIOR DEPT.
DEC 19 1960
SOLICITOR

DEC 29 1960

Viking Mines, Inc.
c/o Mr. Verne L. McGowan
General Manager
P. O. Box 372
Winters, California

Re: DMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho
Contract Idm-E1193

Gentlemen:

The date has now passed by which the work under the subject contract should have been completed. That work which was done was only preparatory in nature. In addition, possession of the land was relinquished more than a year ago.

Under the circumstances, I regret that we find it necessary to rescind the DMEA contract between your corporation and the Government and, consequently, cannot reimburse you for the Government's share for any expenditures made under the contract.

A formal notice of rescission of the DMEA contract is enclosed.

Sincerely yours,

(S) George C. Selfridge

(SGC)

Acting Director

Enclosure

GCSelfridge/fw-12/15/60

cc: Docket
Director's read. file
Reg. I (2)
CA&A Division
F.E.Johnson
G.C.Selfridge
Chron (500)
H.Kirkemo, USGS

43683

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF THE SOLICITOR
WASHINGTON 25, D. C.

DEC 27 1961

Memorandum

To: Acting Director, Office of Minerals Exploration

From: Assistant Solicitor, Branch of Mineral Defense Activities

Subject: DMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho
Contract Idm-E1193

A unilateral Notice of Rescission of the subject contract has been prepared as requested in your memorandum of December 16, 1960, and is enclosed for your consideration. Also attached are your files relating to this contract, the files for Capital-Seaboard Corporation, Docket No. DMEA-4906, and the proposed letter to Mr. Verne L. McGowan, General Manager of Viking Mines, Inc.

Charles M. Soller
Charles M. Soller
Assistant Solicitor
Branch of Mineral Defense Activities

Attachments

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
12/15	Selfridge	120
12/16	Talbert	800
	Franzel	500
12/15	Johnson	110
		220

DEC 16 1960

Memorandum

To: Associate Solicitor, Division of Mineral Resources

From: Acting Director, Office of Minerals Exploration

Subject: DMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho
Contract Idm-K1193

If you now find it appropriate, will you please prepare a unilateral rescission notice for the subject DMEA contract along the lines suggested in the attached draft. The docket contains a summary of the high-light events that have taken place since the signing of the contract. Your memorandum of April 6, 1960, contains your last recommendation regarding the contract.

A similar case, Capital-Seaboard Corporation, Docket No. DMEA-4906, was closed in the manner suggested. That docket accompanies this memorandum.

(signed) FRANK E. JOHNSON
Acting Director

Attachments

GCSelfridge/hb (12/15/60)
Copy to: Docket, DMEA4870
Director's reading file
F. E. Johnson
G. C. Selfridge
E. Dallas Talbert
Chron (500)

43683

DRAFT
GCSelfridge/hb (12/14/60)

NOTICE OF RESCISSION OF EXPLORATION PROJECT CONTRACT

To: Mr. Verne L. McGowan
General Manager
Viking Mines, Inc.
P. O. Box 372
Winters, California

Operator Under Exploration
Project Contract Idm-E1193, dated May 16, 1958
Docket No. DMEA-4870 (Lead-Zinc)

The United States of America, acting through the Department of the Interior, Office of Minerals Exploration, ~~(successor to Defense Minerals Exploration Administration)~~, hereby rescinds the subject contract, as of the date thereof, on the following grounds:

1. You failed to preserve and maintain your right, title, and interest in the land and your right of possession thereof, for the purposes of the contract, as required by Article 2(d).

2. You failed to perform the work with reasonable diligence, efficiently, expertly, in a workman-like manner . . . and with suitable and adequate equipment, facilities, materials, supplies, and labor, to bring it to completion within the time fixed by the contract, all as required by the provisions of Article 4(a) of the contract.

The United States of America repudiates and denies any liability under the contract, and will make no contribution to costs incurred thereunder.

Dated this _____ day of _____, 1960.

THE UNITED STATES OF AMERICA

By _____
Acting Director, Office of
Minerals Exploration

OFFICIAL FILE COPY

Date	Surname	Code
12/15	GCS	120

December 15, 1960

Memorandum to the File

From: Chief, Division of Field Operations

Subject: DMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho
Contract Idm-E1193

The subject actual cost contract dated May 16, 1958, was amended December 12, 1958, to allow for a winter recess period which was to end not later than July 1, 1959. The date fixed for completion of the work was extended one year to November 15, 1960, and the maximum period for royalty payments was also extended from 10 to 11 years from the date of the contract. The amendment also contained a pseudo-certification based only on non-completion of the work within the period heretofore mentioned.

The contract provided for two stages of work, Stage II being dependent upon part of Stage I. Stage I comprised bulldozing for road work and snow removal, rehabilitation of an inclined shaft, further sinking of the shaft, the excavation of a station at a new lower level, and long-hole drilling from both the old level above and the new level.

The Operator started work in mid-July and stopped in mid-September. It submitted a voucher for the first month's work which was unacceptable as explained in the Field Team's memorandum of September 16, 1958. On submittal of vouchers covering the two months of work, the Field Team again wrote the Operator on October 28, 1958, explaining what costs could be approved. At that time the Field could approve only $200.00 for bulldozing and with proper support could approve an additional $130.00 for long-hole drilling and $116.40 for air and water pipe, a total of $446.40.

On June 15, 1959, the Field Team reminded the Operator that the recess ended not later than July 1, 1959, and that the project would be terminated if not completed by November 15, 1960. On June 29, 1959, the Operator informed the Field Team that the contract work had been started on June 15 with rehabilitation of the winze being continued. On July 10, 1959, the Operator requested another recess for the

remainder of the year, stating that the Company had suspended work pending approval of the recess and possibly a revision of the project. This decision was [redacted] apparently upon the finding of a drift in the winze which was uncovered as rehabilitation proceeded. (A study of the docket and field reports was made to see if it could be determined if the work actually was reactivated on June 15, 1959, using the drift, which had not been reported the year before, in the winze as a guide. Nothing definite could be learned and the meager information available seemingly suggests that its presence was noted in 1959 rather than 1958.) About this time it was the Field Team's impression that the Company was having financial difficulties. On August 12, 1959, the Operator requested termination of the contract, largely for economic reasons (See W. P. Klugescheid's memorandum of September 2, 1959, to the files for details).

Up to the date that the Operator requested termination of the contract, it had claimed $240.00 for bulldozing, $975.00 for winze rehabilitation, $174.60 for pipe, and $247.50 for long-hole drilling, in all a total of $1,637.10. The only item that had been properly supported was the $200.00 for bulldozing.

As all of the costs claimed, except the $247.50 item for long-hole drilling, pertained to preparation work prior to actual sinking and drifting and the Operator had not submitted acceptable vouchers, it was felt that it would be better to rescind the contract in lieu of becoming involved with a pseudo-certification covering a period of 11 years or the Government demanding its money back because of the Operator's default. On September 21, 1959, the Field Team submitted a mutual rescission agreement to the Operator, explaining the reasons therefor. On December 7, 1959, the Operator returned the rescission agreement to the Field Team unsigned. It also stated that the Company had thought that the contract was a on a unit [redacted]s and not an actual cost one, and that it would resubmit th[redacted]ers. On December 17, 1959, the Field Team provided the Operator with additional information concerning an actual cost contract. On January 7, 1960, the Operator was again requested to submit properly documented vouchers.

As it seemed apparent that the Operator would not be able to support the costs claimed and because of the largely preparatory nature of the work done, it was decided that a unilateral notice of termination was the best way to terminate the contract, and the preparation of such a notice was requested of the Associate Solicitor, Division of Mineral Resources, on January 12, 1960. The Notice was prepared but not sent because it seemed premature. On February 1, 1960, the Field Team was requested to learn, if it could, the status of the lease covering the land in the contract, as it was thought that a unilaterial agreement

could be strengthened should the Operator have relinquished its rights in the land. It was learned later that the property had been returned to the original owner some time during the fall of 1959.

In its memorandum of February 3, 1960, the Field Team informed the Washington Office that they had just received the Operator's vouchers for contract work completed during July, August, and September 1958, which were only partly filled out and partly supported. Washington was to receive copies when the vouchers were in shape.

When it was learned that the Operator had given up possession of the land, the Associate Solicitor on March 16, 1960, was again requested to prepare a unilateral termination notice. After further discussion, it was decided to hold the termination of the contract in abeyance until after November 15, 1960, the date by which the work should have been completed (See Associate Solicitor's April 6, 1960, memorandum).

Recent search for whatever vouchers and supporting evidence the Operator submitted, as mentioned in the Field Team's memorandum of February 3, 1960, has been unsuccessful. Seemingly all was lost during the transition of field operations from the Bureau and the Survey to OME. As the Government has made no payments under the contract and the period for completing the work has lapsed, it is believed that the contract should now be terminated unilaterally by the Government as was done in a similar case, Capital-Seaboard Corporation, Docket No. DMEA-4906.

George C. Selfridge.

GCSelfridge/hb (12/15/60)
Copy to: Docket DMEA-4870
Director's reading file
G. C. Selfridge

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
So. 157 Howard Street
Spokane 4, Washington
November 29, 1960

OFFICIAL FILE COPY
O. M. E
RECEIVED 1960

DATE		VOUCHER
12/2	Cal	210
12/5	[illegible]	~~120~~
"	Act	~~800~~
		500

Memorandum

To: Chief, Division of Field Operations

From: Acting Field Officer, Region I

Subject: DMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho
Contract Idm-E1193

This is in reference to your memorandum of November 21, 1960, regarding vouchers pertinent to the subject contract.

In a letter dated February 1, 1960, copies of which were sent you, the Operator submitted, partially completed and signed, five copies of MF-104's and 104-A's, along with relevant invoices. All this material was forwarded to the Chief, Fiscal Section, Division of Administrative Services, Office of the Secretary, Washington, D. C., by the Certifying Officer, Region I, with her memorandum of March 3, 1960. I have checked with Mrs. Dorothy Long and after searching her records, she cannot find any documents pertaining to this contract.

D R MacLaren
D. R. MacLaren

cc: CA&ADiv., OME
CPF
Director
Econ. Geol.
B&FM

Fiscal Section's files were rechecked this date. No MF-104 or MF-104A is in the file.
Talbert
12/5/60

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
11/21	GCS	120
11/21	Jackson	800
11/21	Johnson	110
		JHB
11-21	gad	220

NOV 21 1960

Memorandum

To: Acting Field Officer, Region I

From: Chief, Division of Field Operations

Subject: DMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho
Contract Idm-E1193

On February 3, 1960, Mr. Weissenborn informed us that they had just received vouchers for contract work completed under the subject contract during July, August, and September of 1958. He stated that just as soon as they had them in shape, they would send us copies.

On April 19, 1960, Mr. Verne L. McCowan, general manager, inquired concerning the status of the vouchers and on April 21, 1960, you informed him that all of the fiscal records were in Washington.

We have been unable to find the vouchers previously mentioned. Ordinarily only Field-approved vouchers are submitted to Washington. Will you please check your file to see if the vouchers are still in Spokane.

/s/ George C. Selfridge (JHB)

GCSelfridge/hb (11/21/60)
Copy to: Docket DMEA-4870
Director's Reading File
CA & A Div.
G.C.Selfridge
Chron (500)

43683

OMO(3)

OFFICIAL FILE COPY
O. M. E.
RECEIVED APR 25 1960

DATE	INITIALS	CODE
4-25	gad	VVO
4/25	[illegible]	800
4/26	aet	500

So. 157 Howard Street
Spokane 4, Washington
April 21, 1960

Mr. Verne L. McGowan
General Manager
Viking Mines, Inc.
P. O. Box 372
Winters, California

Re: Docket No. DMEA-4870 (Lead-Zinc)
Garfield Mine
Blaine County, Idaho
Contract No. Idm-E1195

Dear Mr. McGowan:

All our fiscal records including the vouchers and other information you sent us in February are now kept in Washington. Accordingly, your letter of April 19, 1960, has been forwarded to that office for reply.

Sincerely yours,

D. R. MacLaren
Acting Field Officer
Region I

cc: OME(3) w/cys incoming
USBM w/cy incoming
DRF

[illegible] Vouchers are not in the [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]

Mr.

Mr.

South

Spokan

Dear Mr.

In February we sent

participants receiv

DMEA

progr

con

Please

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF THE SOLICITOR
WASHINGTON 25, D. C.

APR 6 1960

Memorandum

To: Acting Director
Office of Minerals Exploration

From: Associate Solicitor
Division of Mineral Resources

Subject: Docket No. DMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho
Contract No. Idm-E1193

Your memorandum of March 16 to the Associate Solicitor, Division of Mineral Resources, requests us to prepare a unilateral notice of termination on two grounds: (1) Failure to perform pursuant to the requirements of 4(a) of the contract form; and (2) "loss of the land by the Operator."

Your memorandum states that the notice of termination should not rely on failure "to achieve anticipated results that indicate the probability of making a worthwhile discovery" under the provisions of article 10(a) of the contract form.

It is our opinion that unless the provision cited from article 10(a) of the contract form is to be relied upon, this contract should not be terminated by any unilateral notice but should simply be allowed to expire on November 15, 1960, under the provisions of Amendment No. 1, dated December 12, 1958.

This amendment extends the time for the completion of the work to November 15, 1960; and then states that if it is not so completed, the contract shall be terminated "effective November 15, 1960, if the work is resumed on or before July 1, 1959, but is not completed on or before November 15, 1960". This amendment also contains a pseudo-certification which becomes effective if the work is not completed within the time limited.

We think that this amendment must be construed as giving the Operator until November 15, 1960 to complete the work regardless of whether he resumed the work on or before July 1, 1959. At any rate, if we should now give the unilateral notice of termination, it certainly would destroy the effectiveness of the pseudocertification which, we presume, it is your desire to retain.

Under the circumstances, we think that any unilateral termination by the Government might subject the Government to liability to the Operator, and that it is preferable to let the contract terminate by lapse of time.

Charles M. Soller
Associate Solicitor
Division of Mineral Resources

April 8, 1960

In absence of Mr. Soller, discussed with Mr. Hafland who on reconsideration had decided Government contend under the circumstances, although the Operator contended that the land became it became until Nov. 15, 1960, to do the work. Mr. Hafland was again told the Government had made no forfeiture under the contract and seemingly it seemed to do so as the Operator was in default and the Government could have the demand seemingly forfeit. Mr. Hafland stated that no forfeiture of finding would should be made under any circumstances and advised first field doubt would Nov. 15, 1960

2

4/11/60 - W. Griswold said to forfeit ~~[illegible]~~ until Nov. 15, 1960.

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
So. 157 Howard Street
Spokane 4, Washington
March 14, 1960

OFFICIAL FILE COPY
O. M. E.
RECEIVED MAR 17 1960

DATE	INITIALS	CODE
3-17	gad	VVO
3/17	[illegible]	800
3/18	aft	500

Memorandum

To: Chairman, Operating Committee, OME

From: Executive Officer, OME Field Team, Region I

Subject: Docket No. DMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho
Contract No. Idm-E1193

All our fiscal records for the subject contract have been sent to the Fiscal Section, Division of Administration Services, Office of the Secretary, Department of the Interior. However, if we receive any 104's or 104A's from that office, we will not certify them for payment until further notice from you in accordance with your teletype of March 11, 1960.

A. E. Weissenborn

A. E. Weissenborn

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
3/16	WLF	500
		500
		140

INTERIOR DEPT.
MAR 16 1960
SOLICITOR

Memorandum

To: Associate Solicitor, Division of Mineral Resources

From: Chief, Division of Minerals, OME

Subject: Docket No. DMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho
Contract No. Idm-E1193

Will you please prepare a unilateral termination notice for the cited contract.

Since our memorandum to you dated January 12, 1960, we have been informed that the Operator has not been in possession of the land since last fall. Please refer to the memorandum of March 4, 1960, from A. E. Weissenborn and to copy of the letter from Fred Shirts dated March 1.

The stipulated reasons for terminating the contract should be Item 1 of your previous termination notice and the loss of the land by the Operator. Item 2 and the last paragraph of your previous termination notice should be omitted from the requested unilateral termination notice.

W. R. Griswold

JWAlt/fw-3/16/60

cc: Docket
Dir.Read.File
Chron.

43683

OFFICIAL FILE COPY

Date	Surname	Code
3/11	[illegible]	500
	[illegible]	500
3/11	[illegible]	800
3/11	[illegible]	130
3/11	[illegible]	130
3/11	[illegible]	130
"	[illegible]	110
3/11	gad	220
3/11	Mr. Alt	500

MAR 11 1960

Department of the Interior

OME

[illegible]
Office of [illegible]
Interior

T E L E T Y P E

A. E. WEISSENBORN, EXECUTIVE OFFICER
OME FIELD TEAM, REGION I
SOUTH 157 HOWARD STREET
SPOKANE 4, WASHINGTON

RE DOCKET IMEA-4870, CONTRACT IDM-E1193, WITHHOLD ANY PAYMENTS UNTIL FURTHER NOTICE ON ANY VOUCHERS SUBMITTED FOR THIS CONTRACT.

/s/ George C. Selfridge

(248)

CHAIRMAN, OPERATING COMMITTEE

JWAlt/gla 3-11-60
cc to: Director's Reading File
Operating Committee
H. M. Callaway, USBM
Harold Kirkemo, USGS
Docket
Chron
Confirmation to OME Field Team, Region I
Contract Division
Dale E. Rothrock, Rm. 7354

Sent by order of Selfridge

43683

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
So. 157 Howard Street
Spokane 4, Washington
March 4, 1960

OFFICIAL FILE COPY
O. M. E.
RECEIVED MAR 7 1960

DATE	INIT.	CODE
3-7	gad	220
3/8	[illegible]	800
"	Alt	500

Memorandum

To: Chairman, Operating Committee, OME

From: Executive Officer, OME Field Team, Region I

Subject: Docket No. DMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho
Contract No. Idm-E1193

This is in further reference to your memorandum of February 1, 1960, in which you suggest that we contact the lessors of the subject property regarding the status of the lease.

We wrote to Mr. and Mrs. L. F. Heagle on February 10, 1960, and when we did not receive a reply from them, we also wrote to Mr. and Mrs. Fred Shirts and Mr. and Mrs. Arne C. Friestad on February 25, 1960.

Enclosed are two copies of a reply from the Shirts. Apparently, the Operator has not been in possession of the property since last fall. We doubt if we can get an exact date the claims reverted to the owners, but as the contract does not expire until November 15, 1960, perhaps this is not too important. We have not received any reply from the Friestads or the Heagles.

A. E. Weissenborn

A. E. Weissenborn

Enclosures

One (2)

Hailey Idaho
March. 1. 1960

United States Dept of Interior

Dear Sir Last fall Wm McGowan on Uhking Mine. turned back to Me and Annie Thiestad. the assignment which he had from us said he was quitting it. and went to California.

So I and Thiestad turned the Lease back to L.F. Heagle the Owner

Respe Fred Smith

RECEIVED
BUREAU OF MINES
MAR 2 - 1960
SPOKANE, WASH.

OFFICIAL FILE COPY
O. M. E.
RECEIVED MAR 7 1960

DATE	INITIALS	
3-7	gad	VVO
		800
		500

RECEIVED
MAR 2 1960
U.S.S.B.
SPOKANE, WASH.

OFFICIAL FILE COPY
O. M. E.
RECEIVED FEB 29 1960

DATE	INITIALS	CODE
2-29	gad	220
2/26	[illegible]	800
3/2	aet	500

1201 N. Division St.
Spokane 2, Washington

February 25, 1960

CERTIFIED MAIL

Mr. and Mrs. Fred Shirts
Hailey, Idaho

Re: Docket No. DMEA-4879 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho

Dear Mr. and Mrs. Shirts:

This is in reference to a lease you have from Mr. and Mrs. L. F. Heagle, Hailey, Idaho, on the Eagle Bird and John A. Logan patented lode claims. This lease was assigned by you to Mr. Verne L. McGowan who, in turn, assigned it to Viking Mines, Inc., Operator under the cited contract.

We would appreciate knowing the present legal status of the lease and assignment; that is, is the lease from the owners to you and also the assignment from you to Mr. McGowan still in good standing.

Your early reply to this letter will be greatly appreciated.

Sincerely yours,

D. R. MacLaren
Acting Alternate Executive
Officer, OME
Field Team, Region I

cc: OME (2)
USGS (2)
USBM (AD)
Docket

Orac 12

OFFICIAL FILE COPY
O. M. E.
RECEIVE FEB 29 1960

DATE	INITIALS	CODE
2-29	gad	220
2/29	[illegible]	800
3/7	Gett	500

1201 N. Division St.
Spokane 2, Washington

February 25, 1960

CERTIFIED MAIL

Mr. and Mrs. Arne C. Friestad
Hailey, Idaho

Re: Docket No. EMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho

Dear Mr. and Mrs. Friestad:

This is in reference to a lease you have from Mr. and Mrs. L. F. Heagle, Hailey, Idaho, on the Eagle Bird and John A. Logan patented lode claims. This lease was assigned by you to Mr. Verne L. McGowan who, in turn, assigned it to Viking Mines, Inc., Operator under the cited contract.

We would appreciate knowing the present legal status of the lease and assignment; that is, is the lease from the owners to you and also the assignment from you to Mr. McGowan still in good standing.

Your early reply to this letter will be greatly appreciated.

Sincerely yours,

D. R. MacLaren
Acting Alternate Executive
Officer, OME
Field Team, Region I

cc: Mr. & Mrs. L. F. Heagle
Hailey, Idaho
OME (2)
USGS (2)
USBM (AD)
Docket

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
So. 157 Howard Street
Spokane 4, Washington
February 10, 1960

OFFICIAL FILE COPY
O. M. E.
RECEIVED FEB 15 1960

DATE	INITIALS	CODE
2-15	gad	200
2/15		800
"	alt	500

Memorandum

To: Chairman, Operating Committee, OME

From: Executive Officer, OME Field Team, Region I

Subject: Docket No. DMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho
Contract No. Idm-E1193

This refers to your letter of February 1, 1960, regarding the depth of the winze and crosscut and the termination of the subject contract.

Unfortunately, Romischer is no longer with the Bureau of Mines and has left Spokane so we cannot determine why he did not mention in his report of October 31, 1958, the existence of the crosscut at the bottom of the winze. We can only surmise that he did not go farther down the winze than the 39 feet to which he reported rehabilitation as completed. As he does not mention the crosscut in his report, we have no way of knowing whether or not the Operator told him of its existence. Again we can only surmise, but apparently the Operator first became aware of the existence of the crosscut some time between June 29, 1959, the date of his letter, and June 13, 1959, when Romischer made the inspection he describes in his memorandum of July 10, 1959. During his inspection of July 17, 1959, Sample could not go more than 40 feet down the winze as he states in his report of July 20, 1959.

We are writing to the Heagles as you suggest in an attempt to learn the status of the lease.

A. E. Weissenborn

A. E. Weissenborn

Mc(2)

OFFICIAL FILE COPY
O. M. E.
RECEIVED FEB 15 1960

DATE	INITIALS	CODE
2-15	gad	2.V.O
2/15	[illegible]	800
		500

No. 157 Bennett Street
Spokane 4, Washington
February 10, 1960

Mr. and Mrs. L. F. Hagle
Shelley, Idaho

Re: Docket No. [illegible] (Lead-Zinc)
Viking Mines, Inc.
Gambles Mine
Bonner County, Idaho
Contract No. [illegible]

Dear Mr. and Mrs. Hagle:

With reference to the Consent to Lease and Subordination Agreement concerning the Eagle Bird and John A. Logan claims, we would appreciate having the present status of the lease between the claim owners and Viking Mines, Inc.

Sincerely yours,

A. F. Weisenburn
Executive Officer, OME
Field Team, Region I

cc: OME(2)
UCRM(2)
UCRM(AD)
Director's Reading File

DEPARTMENT OF [illegible]

Mr. and Mrs. L. F. Meagle

Ketchikan, Alaska

Re: [illegible]

Dear Mr. and Mrs. Meagle:

With reference to the Consent to Lease and Subordination [illegible] concerning the Eagle Bird and John A. Logan claims, we would appreciate knowing the present status of the lease between the claim owners and Viking Mines, Inc.

Sincerely yours,

A. E. Weissenborn
Executive Officer, [illegible]
Field Team, Region 7

Gentlemen: Sorry was away for some time hence the delay in answering. The Viking Mines Inc. have turned the property back to us the orig[illegible]

Very Truly Yours.

L.F. Meagle

RECEIVED
MAR [illegible]

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
So. 157 Howard Street
Spokane 4, Washington
February 3, 1960

OFFICIAL FILE COPY
O. M. E.
RECEIVED FEB 8 1960

DATE	INITIALS	CODE
2-8	gad	220
2/8	[illegible]	800
2/9	alt	500

Memorandum

To: Chairman, Operating Committee, OME

From: Executive Officer, OME Field Team, Region I

Subject: Docket No. DMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho
Contract No. Idm-E1193

This is in reference to our memorandum of December 17, 1959, with which we forwarded two copies each of a letter dated December 7, 1959, from the referenced Operator and our reply, and the original and three unsigned copies of the proposed Recission Agreement.

We have just received the Operator's vouchers for contract work completed during July, August, and September of 1958, and the Operator's copy of the unsigned Recission Agreement. The Operator's Copy of the Recission Agreement is enclosed. The vouchers comprise signed but only partially filled out 104's and receipted bills and invoices. As soon as we have them in shape, we will send you copies.

A. E. Weissenborn

A. E. Weissenborn

Enclosure

Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
1/29	[illegible]	20
	[illegible]	500
	[illegible]	500
2/1	[illegible]	800
		~~130~~
2/1	[illegible]	~~110~~
		~~210~~
2-2	gad	220
		500

FEB 1 1960

Memorandum

To: Executive Officer, OME Field Team, Region I

From: Chairman, Operating Committee, OME

Subject: Docket No. DMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho
Contract No. Idm-E1193

We are having some difficulty in determining the best method for terminating the subject contract because of certain wording in Amendment No. 1.

In Mr. William M. Romischer's interim report of October 31, 1958, mention is made that the property was visited on October 22, that the water had been lowered in the winze to 61 feet below the 9100 level sill, and that one wall of the winze had been sideswiped to 39 feet below the sill.

In Mr. R. D. Sample's interim report dated July 20, 1959, he states that the property was visited July 17, 1959, and that work on rehabilitation of the old incline shaft had been resumed during the last week of June 1959. The work consisted mainly of unwatering the shaft and the water was lowered approximately 60 feet below the collar. At this point Mr. McGowan reported that an old cross[illegible]akes off from the incline and he wished to drill a few long holes from its face. Mr. Sample was not able to examine the crosscut as the water had again risen to within 40 feet of the collar.

Mr. Romischer made no mention of the crosscut in his report. Can it be ascertained that the water level in the winze was actually lowered a greater distance in 1959 than it had been in 1958? If the water had been lowered to the same level in 1959 as in 1958 and mucking out of the winze bottom had exposed the crosscut, we would be interested in so knowing.

It is suggested that you contact the lessors, the Heagles, and learn if you can the status of the subject lease. We are interested in

8623

knowing whether or not the lease is in good standing and that the operator is still in possession of the property.

As you have requested the operator several times to submit properly documented vouchers, we believe that the matter should now be left up to the company.

/s/ George C. Selfridge

(hb)

APPROVED:

P. F. Yopes (hb)

Member, Bureau of Mines

Harold Kirkemo (hb)

Member, Geological Survey

JWAlt/gla 1-28-60
Rewritten by GCSelfridge/hb (1/29/60)
Copy to: Director's Reading File
Operating Committee
H. M. Callaway, USBM
Harold Kirkemo, USGS
G. C. Selfridge
Docket
Chron

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
1/28/60	Alt	500
	Drainel	500
		800
		130
		110
		220
		500

Memorandum

To: Executive Officer, OME Field Team, Region I

From: Chairman, Operating Committee, OME

Subject: Docket No. MMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho
Contract No. Idm-E1193

This is with reference to your memorandum of December 17, 1959, in which you recommend that a Termination Agreement, including a pseudo-certification, be presented to the Operator. It has been decided not to prepare a Termination Agreement as the Operator has returned, unsigned, the Rescission Agreement and we now consider Amendment No. 1 to be still in effect because we believe that the limited work completed did not conclusively prove that a discovery could not be made. Therefore, the project will be automatically terminated on November 15, 1960. This agreement contains a pseudo-certification. Please notify the Operator of this action. No!

As you have requested the Operator several times to submit properly documented vouchers, it will not be necessary for you to write it again regarding this matter.

APPROVED:

Member, Bureau of Mines

Member, Geological Survey

JWAlt/gla 1-28-60
cc to: Director's Reading File
Operating Committee
H. M. Callaway, USBM
Harold Kirkemo, USGS
Docket
Chron

43683

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
1/26/60	[illegible]	500
	Marsden	500
1/27	Talbot	800
		130
		110
		220
		500

Memorandum

To: Executive Officer, OME Field Team, Region I

From: Chairman, Operating Committee, OME

Subject: Docket No. D MRA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho
Contract No. Idm-E1193

We are enclosing the original and four copies of a unilateral termination notice to the cited contract, signed by the Acting Director for the Government. Also enclosed are two extra copies for the use of the Field Team.

If, upon receipt of this notice, you have not received the properly-documented vouchers from the Operator, please send the notice to the Operator and distribute the copies in the usual manner. If you have received the vouchers, please furnish full information with your recommendations regarding the closing of this contract, and return all copies of the unilateral termination notice to this office.

Enclosures

APPROVED:

Member, Bureau of Mines

Member, Geological Survey

JWAlt/gla 1-26-60
cc to: Director's Reading File
Operating Committee
H. M. Callaway, USBM
Harold Kirkemo, USGS
Code 500
Docket
Chron

43683

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
1/25/60	WR	500
	Griswold	500
		800
		130
		110
		220
		500

January 25, 1960

Memorandum

To: Acting Director, Office of Minerals Exploration

Through: Chairman, Operating Committee, OME

From: W. R. Griswold, Division of Minerals

Subject: Docket No. DMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho
Contract No. Idm-E1193

Attached for your signature, if you approve, is a unilateral notice of termination for the cited contract.

Our reasons for requesting preparation of this termination notice are set forth in our memorandum of January 12, 1960, to the Associate Solicitor, Division of Mineral Resources.

JWAlt/gla
cc to: Docket
Chron

43683

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF THE SOLICITOR
WASHINGTON 25, D. C.

To: Viking Mines, Incorporated
24 N. 4th Street
P.O. Box 325
Grand Forks, North Dakota

Operation under Exploration
Project Contract Idm-E1193
Docket No. DMEA-4870 (Lead-Zinc)
Dated May 16, 1958

The United States of America, acting through the Department of the Interior, Office of Minerals Exploration, hereby terminates the subject contract for the following reasons:

1. You have not performed and are not performing the work with reasonable diligence, efficiently, expertly, in a workmanship-like manner, as required by the provisions of Article 4(a); and

2. In the opinion of the Government, operations have failed to achieve anticipated results that indicate the probability of making a worthwhile discovery, and in the opinion of the Government further operations are not justified.

In the absence of the submission by you of suitable vouchers for contribution by the Government to actual allowable costs incurred to date, our file will be closed.

Dated this _____ day of _____, 1960.

THE UNITED STATES OF AMERICA

By _____
Acting Director, Office of
Minerals Exploration

January 12, 1960

Docket No. DMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho
Contract No. Idm-E1103

JUSTIFICATION OF UNILATERAL NOTICE OF TERMINATION

The cited contract was discussed with Mr. John Hofflund on January 11 and it was decided that the best way to terminate this project was with a Unilateral Notice of Termination.

By letter of August 12, 1959, the Operator had requested that the contract be terminated. The reasons are cited in the memorandum by W. P. Klugescheid, dated September 2, 1959. As the expenditures for work completed were small and as the Operator had not submitted properly documented vouchers for this work, it was decided that the contract should be rescinded.

A rescission agreement was sent to the Operator on September 21, 1959, and on December 7 the copies of this agreement were returned, unsigned, to the Field Team. The Operator has not returned its copy to date.

The property will not be certified as a discovery was not made.

J. W. Alt

OFFICIAL FILE COPY

Date	Surname	Code
1/12/60		500
		500
		140

SOLICITOR

JAN 12 1960

INTERIOR DEPT.

SOLICITOR

JAN 14 1960

INTERIOR DEPT.

FROM SOLICITOR

JAN 14 1960

FOR SIGNATURE

RECEIVED

JAN 1960

ASSOC. SOLICITOR

MINERAL RESOURCES

January 12, 1960

Memorandum

To: Associate Solicitor
Division of Mineral Resources

From: W. R. Griswold, Chief
Division of Minerals

Subject: Docket No. DMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho
Contract No. Idm-E1193

Will you please prepare a Unilateral Notice of Termination for the cited contract. This was discussed with Mr. John Hofflundon January 12 and it was decided that this was the best way to terminate this contract.

On September 21, 1959, the original and four copies of Rescission of Exploration Project Contract were sent to the Operator. On December 7, the copies of this rescission agreement were returned, unsigned, and the Operator has retained its copy of it.

To date, the Operator has not submitted properly documented vouchers for the work which was completed; consequently, no payments have been made for this work which had been approved by the Field Team.

JWAlt/gla
cc to: Docket
Chron

43683

OFFICIAL FILE COPY O. M. E. RECEIVED JAN 11 1960		
DATE	INITIALS	CODE
1-11	gad	VVO
1/11	" mmj	800
1/18	aet	500

No. 157 Howard Street
Spokane 4, Washington

January 7, 1960

Mr. Verne L. McGowan
Viking Mines, Inc.
P. O. Box 325
Grand Forks, North Dakota

Re: Docket No. DMEA 4870 (Lead-Zinc)
Garfield Mine
Blaine County, Idaho
Contract No. Idm-81193

Dear Mr. McGowan:

In your letter of December 7, 1959, with which you returned all but the Operator's copy of the proposed Recission Agreement you stated that you intended to re-submit vouchers for the completed contract work "within the week." In theevent that you have forwarded the vouchers as you planned, we wish to inform you that they have not been received.

We would appreciate receiving the vouchers and the Operator's copy of the Recission Agreement so that we can proceed with the termination of this contract.

Sincerely yours,

A. S. Weissenborn
Executive Officer, OME
Field Team, Region I

cc: OME (3)
USBM (2)
USBM(AD)
Geologist
Director's Reading File

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
So. 157 Howard Street
Spokane 4, Washington
December 17, 1959

OFFICIAL FILE COPY
O. M. E.
RECEIVED DEC 22 1959

DATE	INITIALS	CODE
12/22	RCW	225
"	EEF	800
12/23	GLF	500

Memorandum

To: Chairman, Operating Committee, OME

From: Executive Officer, OME Field Team, Region I

Subject: Docket No. DMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho
Contract No. Idm-E1193

Enclosed are two copies each of a self-explanatory letter dated December 7, 1959, from the referenced Operator, and our reply. As soon as we receive the promised vouchers we will send you copies.

The Operator submitted vouchers for the period July 15-August 15, 1958, but as they were not supported by proper documentation they were returned with our letter of September 16, 1958. We wrote to him again on this subject on October 28, 1958, at which time we advised him that we could at that time approve payment of $200 for bulldozing and that with proper support, we could also approve payment of $130 for long-hole drilling and $116.40 for air and water pipe. His delay in submitting properly documented vouchers is annoying, but if he can properly document his claims his refusal to sign the rescission agreement is certainly understandable.

We are enclosing the unsigned copies of the Rescission Agreement which the Operator returned. When he returns the Operator's copy we will forward it to you.

We recommend that a Termination Agreement be presented to the Operator. As Stage I work was not completed, we also recommend inclusion of a "pseudo-certification" and payment of the Operator's claims if his vouchers are properly documented.

An interim inspection report dated October 31, 1958, by William M. Romischer, Bureau of Mines, gives the following work items as having been completed:

Stage I

Bulldozing	20 hrs.
Winze rehabilitation	39 ft.
Installation of air and water line, 9100 level	291 ft.
Long-hole drilling - 9100 level	198 ft.

Stage II

NONE

Sincerely,

A. E. Weissenborn

A. E. Weissenborn

Enclosures

Government's copy

J. Lynch
Hoffman
App'd. Sol. Off.

RESCISSION OF EXPLORATION PROJECT CONTRACT

It is agreed this 11th day of September, 1959, between the United States of America, acting through the Department of the Interior, Office of Minerals Exploration, and Viking Mines, Inc., parties to that certain Exploration Project Contract Idm-E1193 (Docket No. DMEA-4870), dated May 16, 1958, hereinafter called the "Contract," that the Contract is hereby revoked, cancelled, and rescinded as of May 16, 1958, before any work has been performed or any costs have been incurred thereunder, without obligation whatever one party to the other, the same as if the Contract had never been entered into.

Executed in quintuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By George C. Selfridge
Acting Director, Office of
Minerals Exploration

VIKING MINES, INC.

By_____

Title_____

(see memo 2/3/60)
All copies ~~except~~ including Opr. -
(see Weissenborn memo 12/17/59)
destroyed.

EXTRA COPY O. M. E. RECEIVED DEC 22 1959		
DATE	INITIALS	CODE

So. 157 Howard Street
Spokane 4, Washington

December 17, 1959

Mr. Verne L. McGowan
Viking Mines, Inc.
24 N. 4th St.
P. O. Box 325
Grand Forks, North Dakota

Re: Docket No. DMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho
Contract No. Idm-E1193

Dear Mr. McGowan:

We have received your letter of December 7, 1959, with which you returned unsigned all but the Operator's copy of the proposed Rescission Agreement. Will you please return the Operator's copy as we must return all unsigned copies to our Washington office.

The Rescission Agreement was not presented because of your failure to complete Stage I. All our stage-type contracts state in Exhibit "A" under Description of Work, paragraph 2, that "The Operator shall perform Stage I - - - -." In every case where payment has been made to the Operator and Stage I has not been completed, a Termination Agreement must include a pseudo-certification. In the case of Viking Mines, Inc. this would make your company liable for the payment of royalty on any production sold, whether by your company or any other operator, until May 16, 1969, or until the loan was repaid, whichever occurs first. As we had not received a properly documented voucher within a year or more and it appeared unlikely that we would receive one, it was considered to be to your advantage to rescind the contract rather than to hold your company accountable for royalty for such a long period of time.

We will be glad to receive your vouchers for the completed work regarding which we wrote you on September 16, 1958, and again, explaining more fully what was required, on October 28, 1958.

We are sorry that you were under the impression that the contract was on a fixed unit cost basis. We call your attention to page 3 of Exhibit "A", Estimated Costs of the Project, where the first heading under Stage I is "Actual Costs". Your attention is also called to footnote 1 on page 7 of Exhibit "A" referring to Operating Materials and Supplies and to paragraph (d) Annex II, which defines the allowable cost of a work unit. We hope these items will be helpful.

Sincerely,

A. E. Weissenborn
Executive Officer
OME Field Team, Region I

cc: OME (2)✓
USBM (2)
USBM (AD)

Viking Mines, Inc.

GRAND FORKS, N. DAK.

OFFICIAL FILE COPY
O. M. E.
RECEIVED DEC 2

DATE	INITIALS	

December 7, 1959

FIELD OFFICE:
P.O. Box 872
Winters, Calif.

U.S. Department of the Interior
Office of Minerals Exploration
So. 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA-4870
Contract No. Idm-E1193

Dear Sir:

We are returning four unsigned copies of a rescission agreement as proposed by the government. We have taken the liberty of retaining the operators copy.

Our only comment on this matter at this time is that we entered into the DMEA contract in good faith and with full responsibility to all phases of this agreement. These conditions should be reciprocal.

We filed the necessary forms for the DMEA work in 1958, but unfortunately there was misunderstanding as to the data involved. This has highly confused my associates and myself. We were under the impression it was a fixed unit type contract. Whereby, once the actual work was seen and certified monthly by the government inspecting personnel the 50% contract payment agreement would be authorized. This is what we had asked for, but evidently this is not the case. When our forms were returned in 1958 all the information that was needed was dispersed in several directions and took some time to re-collect into one assemblage.
This has now been accomplished so we are re-submitting the forms within the week.

If again they do not meet with your approval please inform us of the correct procedure.

Sincerely,

Verne L. McGowan
For: Viking Mines Inc.

Official file

~~EXTRA COPY~~

O. M. E.

RECEIVED JAN 11 1960

DATE	INITIALS	CODE
1/11/60	ale	800

So. 157 Howard Street
Spokane 4, Washington

January 7, 1960

Mr. Verne L. McGowan
Viking Mines, Inc.
P. O. Box 325
Grand Forks, North Dakota

Re: Docket No. IMEA 4870 (Lead-Zinc)
Garfield Mine
Blaine County, Idaho
Contract No. I[illegible]-21193

Dear Mr. McGowan:

In your letter of December 7, 1959, with which you returned all but the Operator's copy of the proposed Recission Agreement you stated that you intended to re-submit vouchers for the completed contract work "within the week." In the event that you have forwarded the vouchers as you planned, we wish to inform you that they have not been received.

We would appreciate receiving the vouchers and the Operator's copy of the Recission Agreement so that we can proceed with the termination of this contract.

Sincerely yours,

A. E. Weissenborn
Executive Officer, OMX
Field Team, Region I

cc: OMX (3)
USBM (2)
USBM(AD)
Geologist
Director's Reading File

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
11/16	[illegible]	500
	[illegible]	500
11/17	[illegible]	800
11/17	[illegible]	130
11/17	[illegible]	110
11-17	[illegible]	220
		500

NOV 17 1959

Memorandum

To: Executive Officer, OSM Field Team, Region I

From: Chairman, Operating Committee, OSM

Subject: Docket No. D MEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho
Contract No. Idm-H1193

A rescission agreement for the cited contract was mailed to you on September 11, 1959. The last correspondence we have received relating to this agreement is your letter to the Operator, dated September 21, enclosing the rescission agreement for its signature. If you have not already done so, will you please contact the Operator and ascertain why this agreement has not been signed and returned to you.

/s/ George C. Selfridge (SAB)

APPROVED:

Frank D. Lamb (SAB)
Member, Bureau of Mines

Harold Kirkemo (SAB)
Member, Geological Survey

JWAlt/gla 11-16-59
cc to: Director's Reading File
Operating Committee
O. M. Bishop, USBM
Harold Kirkemo, USGS
Docket
Chron

43683

Dec 12

OFFICIAL FILE COPY O. M. E. RECEIVED NOV 19 1959		
DATE	INITIALS	CODE
11-19	gad	VVO
11-20	[illegible]	800
"	~~[illegible]~~	~~[illegible]~~

[illegible] N. 337 Second Street
Spokane 1, Washington
November 16, 1959

Mr. Verne L. Mahoney
Viking Mines, Inc.
P. O. Box 385
Grand Forks, North Dakota

Re: Contract No. [illegible]-4870 (Lead-Silver)
Garfield Mine
Blaine County, Idaho
Contract No. [illegible]-[illegible]

Dear Mr. Mahoney:

With our letter of September 21, 1959, we sent you the original and four copies of "Termination of Exploration Project Contract," signed by the Acting Director for the Government, requesting that, if it meets with your approval, you sign all copies, retain that copy marked for the Operator, and return the others to this office. If it does not meet with your approval, please return all copies unsigned, with your remarks.

We would appreciate your prompt attention to this matter.

Sincerely yours,

A. K. Vatsonhava
Executive Officer, OME
Field Team, Region I

cc: Addressee
Box 696
Shelley, Idaho

OME(2)
UEMM(2)
UEMM(AD)
Geologist
Director's Reading File

OFFICIAL FILE COPY
O. M. E.
RECEIVED SEP 25 1959

DATE	INITIALS	CODE
9-25	gad	220
9/25	[illegible]	800
9/25	[illegible]	[illegible]

So. 157 Howard Street
Spokane 4, Washington

September [illegible], 1959

Mr. Verne L. McGowan
General Manager
Viking Mines, Inc.
Box 696
Hailey, Idaho

Re: Docket No. DMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho
Contract No. Idm-E1193

Dear Mr. McGowan:

We forwarded to OME your letter of August 12, 1959, in which you requested that your DMEA contract be terminated by mutual agreement. However, as you have not submitted an acceptable voucher nor the supporting data requested in our letter of October 28, 1958, OME believes that a recission of the contract is the best way to dispose of the matter. As the work under Stage I has not been completed as required by paragraph 2 in Exhibit "A", a termination agreement would have included a pseudo-certification which would have made you responsible for the payment of royalty on any production until May 16, 1969, regardless of who might be the producer.

file with base. ltr.

Enclosed are the original and four copies of "Recission of Exploration Project Contract", signed by the Acting Director for the Government. If it meets with your approval, please sign all copies, retain that copy marked for the Operator, and return the others to this office. If it does not meet with your approval, please return all copies unsigned with your comments.

Sincerely yours,

A. E. Weissenborn
Executive Officer, OME
Field Team, Region I

Enclosure
cc: OME (2)
USBM (2)
USBM(AD)

A Form 7
2-56)

OFFICIAL FILE COPY

Date	Surname	Code
	Griswold	500
	Kluegescheid	500
9/9	Talbert	800
		130
9/11	Selfridge	100
9-11	gad	220
		500

SEP 1 1959

Memorandum

To: Executive Officer, OME Field Team, Region I

From: ACTING Chairman, Operating Committee, OME

Subject: Docket No. DMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho
Contract No. Idm-E1193

We are enclosing the original and four copies of a "Rescission of Exploration Project Contract" to the cited contract, signed by the Acting Director for the Government. We are also enclosing two extra copies for the use of the Field Team.

Please present the rescission agreement to the Operator for approval and signature and, when completed, distribute the copies in the usual manner.

As no payments have been made to the Operator, this is the best way of disposing of the matter. The amount of money involved is small and a pseudo certification in a termination agreement would always encumber the property to some extent.

Enclosures

W. R. Griswold

APPROVED:

Frank D. Lamb
Member, Bureau of Mines

Harold Kirkemo
Member, Geological Survey

cc: Docket
Director's Read. File
Operating Committee
O. M. Bishop, USBM
Harold Kirkemo, USGS
Chron.

WPKluegescheid/GMcC
September 9, 1959

8623

Form 7
(6)

OFFICIAL FILE COPY

Date	Surname	Code
9/3	Klugescheid	500
	Griswold	500
	Talbot	800
		~~130~~
9/4	Lamb	130
9/4	Kirkemo	130
	Selfridge	100
9-4	Gladd	220
		500

Ringer

SEP 4 1959

Department of the Interior

OME

14X0108, Salaries and Expenses,
Office of Minerals Exploration,
Interior

TELETYPE

A. E. WEISSENBORN, EXECUTIVE OFFICER
OME FIELD TEAM, REGION I
SOUTH 157 HOWARD STREET
SPOKANE 4, WASHINGTON

REURTWX SEPTEMBER 2, DOCKET IMEA-4870, VIKING MINES, INC.,

AS NO CLAIMS HAVE BEEN PAID WE WILL SUBMIT RESCISSION AGREEMENT TO

THE OPERATOR THROUGH YOU.

W. R. Griswold
ACTING CHAIRMAN, OPERATING COMMITTEE

WPKlugescheid/gla 9-3-59
cy to Director's Reading File
Operating Committee
Mr. Bishop, USBM
Mr. Kirkemo, USGS
Docket
Chron

8623

OFFICIAL FILE COPY
O. M. E.
RECEIVED SEP 2 1959

DATE	INITIALS	CODE
9-2	gad	220
		120
9-2	Kluge	500

Copy to 800

VV

WCC041

YWB036-WBK SP 7 I-GS-G

SPOKANE WASH 9-2-59 1015U

MR. W. R. GRISWOLD

ACTING CHAIRMAN OPERATING COMMITTEE

OFFICE OF MINERAL EXPLORATION

WASHN., D.C.

REURTT SEPT. 1 DOCKET DMEA4870 VIKING MINE INC. VOUCHER WAS RECEIVED IN OCTOBER 1958 BUT WAS RETURNED WITH OUR LETTER OF OCTOBER 28 COPIES OF WHICH WERE SENT YOU FOR BETTER DOCUMENTATION AND HAS NOT BEEN RESUBMITTED. OPERATOR HAS SINCE DONE A SMALL AMOUNT OF LONG HOLE DRILLING WHICH COULD BE REIMBURSABLE. CLAIMS WILL AMOUNT TO ABOUT $250.00. WILL THIS EFFECT RESCISSION?

A. E. WEISSENBORN, EXECUTIVE OFFICER

REGION 1

1 DMEA4870 1958 28 $250.00

VA 1017U

OFFICIAL FILE COPY

Date	Surname	Code
	Klugescheid	500
		500
9/3	J. Lynch	140
	Hoffman	
		220
	(Lead-Zinc)	500

Memorandum:

To: Associate Solicitor, Division of Minerals Resources

From: W. R. Griswold, Chief, Division of Minerals, OME

Subject: Preparation of Rescission for Docket No. DMEA-4870
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho
Contract No. Idm-E1193

FROM SOLICITOR
Sep 2 1959
FOR SIGNATURE

Will you kindly prepare a RESCISSION OF EXPLORATION PROJECT CONTRACT for the cited contract in accordance with the following draft. This Rescission is in accordance with the type used during the DMEA program and should there be some reason for making a change in the form kindly do so.

SOLICITOR'S OFFICE RECEIVED
SEP 3 1959
SEP 2 1959
ASSOC. SOLICITOR
MINERAL RESOURCES
INTERIOR DEPT.

EXPLORATION ~~PROJECT~~ CONTRACT
VIKING MINES, INC.
DOCKET NO. DMEA-4870

It is agreed this _____ day of _____ 1959, between the United States of America, acting through the Department of the Interior, Office of Minerals Exploration, and Viking Mines, Inc., parties to that certain Exploration Project Contract Idm-E1193 (Docket No. DMEA-4870), dated May 16, 1958, hereinafter called the "Contract", that the Contract is hereby revoked, cancelled, and rescinded as of May 16, 1958, before any work has been performed or any costs have been incurred thereunder, without any obligation whatever one party to the other, the same as if the Contract had never been entered into.

Executed in quintuplicate the day and year first above written.

FROM SOLICITOR
Sept. 4 1959
FOR SIGNATURE

VIKING MINES, INC.

By _____

Title _____

THE UNITED STATES OF AMERICA

By _____
Acting Director, Office of Minerals Exploration

WPKlugescheid/GMcC
September 2, 1959

cc: Docket
Chron

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
	[illegible]	500

Memorandum

To: OME Files

From: W. P. Klugescheid, Mining Engineer, Division of Minerals, OME

Subject: Justification for Rescission of Contract No. Idm-E1193
Docket No. DMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho

The Operator requested a termination of the Contract by a letter to the Field Team, dated August 12, 1959.

The reasons given for the request were:

1. Low prices for zinc and lead.
2. High arsenic content of the ore makes sale of the production difficult.
3. Great increase in cost of development, transportation, and processing.
4. High proportion of oxides and carbonates nearly rules out any on-site beneficiation.
5. Failure of long-hole drilling to locate the "D" bed ore horizon has eliminated a good part of the development program.

To date there have been no MF-104 vouchers received in this office and so the simplest method would be to terminate the project by a Rescission of Exploration Project Contract.

The (maximum allowable cost total amount of money expended) to date on the project is approximately $1,640.00.

Bulldozing - 20 hours @ $12.00/hr.	$ 240.00
Rehabilitation of Winze - 39' @ $25/ft.	975.00
Air and Water Pipe - 291' @ $0.60/ft.	174.60
Long-hole Drilling - 198' @ $1.25/ft.	247.50
Total	$1,637.10

The Field Team recommended Termination with a pseudo certification. The amount of money involved is small and rescission is better.

WPKlugescheid/GMcC
September 2, 1959

WPKlugescheid

cc: Docket
Chron.

8623

MEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
	Klugescheid	500
	[illegible]	500
9/1	Talbot	800
		130
9/1	Selfridge	100
9-1	gad	220
9-1	gad	225

500

SEP 1 1959

Department of the Interior

OME

14X0108, Salaries & Expenses, Office of Minerals Exploration, Interior

9/1 Kirkemo (130)
9/1 Lamb (130)

T E L E T Y P E

A. E. WEISSENBORN, EXECUTIVE OFFICER
OME FIELD TEAM, REGION I
SOUTH 157 HOWARD STREET
SPOKANE, WASHINGTON

REURMEMO AUGUST 20, DOCKET NO. DMRA-4870, VIKING MINES, INC., CONTRACT NO. IDM-E1193. AS NO MF-104 VOUCHERS HAVE BEEN RECEIVED, WE WILL RESCIND THIS CONTRACT.

W. R. Griswold

ACTING CHAIRMAN, OPERATING COMMITTEE (WB)

WPKlugescheid/GMcC
September 1, 1959

cc: Docket
Director's Reading File
Operating Committee
O. M. Bishop, USBM
Harold Kirkemo, USGS
Contract Adm. & Audit Div.
Copy for Code 500
Confirmation to OME Field Team, Region I
Chron.

8623

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
So. 157 Howard Street
Spokane 4, Washington
August 20, 1959

OFFICIAL FILE COPY
O. M. E.
RECEIVED AUG 24 1959

DATE	INITIALS	CODE
8-24	gad	220
		130

Memorandum

To: Chairman, Operating Committee, OME

From: OME Field Team, Region I

Subject: Docket No. DMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho
Contract No. Idm-E1193

Enclosed are two copies of a self-explanatory letter dated August 12, 1959, from this Operator requesting that the contract be terminated.

The weighted average of 6 assays of samples taken during the application examination indicated an ore grade of 13.26 percent lead and 8.23 percent arsenic. Under present foreseeable market conditions it is doubtful if ore containing this much arsenic would be sellable and offers little inducement for the financial backers of this project to put up any more cash.

We therefore recommend that the contract be terminated and that a pseudo-certification be incorporated in the Termination Agreement.

A E Weissenborn

A. E. Weissenborn, Executive Officer
U. S, Geological Survey

Stephen A. Zoldok
for Wing G. Agnew, Member
U. S. Bureau of Mines

Enclosures
cc: USBM(2)
USBM(AD)
Sample

Viking Mines, Inc

[redacted]

[redacted] P. O. [redacted]

GRAND FORKS, N. DAK.

Field Office
Box 696
Hailey, Idaho
August 1[illegible], 1[illegible]

U.S. Department of the Interior
Office of Minerals Exploration
Field Team Region I
South 157 Howard Street
Spokane 9, Washington

Re: Docket No. [illegible]
Garfield Mine
Blaine County, Idaho
Contract No. [illegible]

Attention: Mr. [illegible]

Dear Sir:

This is to inform you that this organization respectfully [illegible] termination of our D.M.E.A. contract. The primary reasons [illegible] termination request are:

1. The present low price of lead and zinc metals and over[illegible] with no favorable indication of a change in the future.
2. The relatively high arsenic content of this property's [illegible] lization now lowers its potential due to the fact that [illegible] smelters and mills now do not want to accept any type [illegible] contains arsenic. This situation could eliminate any [illegible] future marketing of ore from this property.
3. All costs of development (and/or production), transport[illegible] (truck and rail), and processing (mill or smelter) have [illegible] steadily increasing while the grade of any ore that may [illegible] developed, we assume, would remain about the same as [illegible] viously mined.
4. The high amount of oxides and carbonates nearly rules [illegible] possibility of any on-site beneficiation.
5. The failure of the long hole drilling to locate the "p[illegible] horizon has eliminated a good part of the development pr[illegible] the remainder which is in the winze does not now look [illegible] as indicated above.

RECEIVED
AUG 1[illegible]

feel that the above conditions justify the discontinuation of this development program, by all parties concerned, as being economically unfeasible at this time.

If there is any further information desired in regard to this request, we shall be happy to oblige.

Yours truly,

Verne L. McGowan
General Manager

VLMc

RECEIVED
AUG 11 7 13 AM '59
GENERAL SERVICES ADMIN
PUBLIC BLDGS. SERVICE
HQ - COMMUNICATIONS

AXXXXXXXB185K

AXXXXXXXB186K

XDXXXXXXB187K

YWB174-WAF SP 23 I-GS-G

SPOKANE WASH 8-10-59 1530U

GEORGE C. SELFRIDGE, OPERATING COMMITTEE CHAIRMAN

OME, DEPT OF INERIOR,WA

RE DOCKET NO. 4870 VIKING MINES INCORPORATED, BLAIME COUNTY IDAHO CONTRACT IDM-E1193. IF NOT ALREADY MAILED, PLEASE HOLD AMENDMENT REQUESTED IN FIELD TEAM LETTER OF JULY 22 1959. OPERATOR JUST ADVISED US BY TELEPHONE THAT HE WILL REQUEST TERMINATION.

A E WEISSENBORN, EXECUTIVE OFFICER

FIELD TEAM REGION I

4870 IDM-E1193 22 1959

EKC 1533U

OFFICIAL FILE COPY
O. M. E.
RECEIVED AUG 11 1959

DATE	INITIALS	CODE
8-11	gad	VVO
"	R	500

EIGHT WD LI 1 SHD RD BLAINE

TELETYPE.

V EBWCB172-

YWA256 WBK SP 26 SVC

ROM WBK 25 I-GS-G

TO GEORGE C. SELFRIDGE SGD DR. R. MAC AREN OME.

3RD LN SHD READ "SHOULD HAVE BEEN 9040 LEVEL" ALSO SIG SHD BE

D. R. MACLAREN INSTD OF DR.

SP 8-4

VA 1710U

Correction to Under Sheet.

Rm. 4457 Int. Bldg

M EBWCB170-

YWA252 WBK SP 25 I-GS-G

SPOKANE WASH 8-4-59 1659U

GEORGE C. SELFRIDGE, CHAIRMAN OPERATING COMMITTEE

OFFICE OF MINERALS EXPLORATION

WASHN., D. C.

REURTT AUGUST 4, DOCKET DMEA 4870, VIKING MINES INC.

OUR MEMO JULY 22 WITH REFERENCE TO LEVEL 6040 IS INCORRECT IT SHOULD HAVE BEEN OPRP LEVEL, WHICH IS ABOUT 60 FEET BELOW THE 9100 LEVEL.

Corrections made

DR. R. MACLAREN OME

REGION 1

DMEA 4870 22 6040 9040 60 9100

VA 1700U

IN 3RD LN SHD BE 9040

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
8-4	Klugescheid	500
	Gliswold	500
8/4	Selfridge	130
"	Johnson	110
		~~100~~
		~~110~~
8/4	gat	220
		~~500~~

AUG 4 1959

W. R. Griswold/er Rm 1457, Ext. 2971

OME - Division of Minerals

14X0108 - Salaries and Expenses, Office of Minerals Exploration, Interior, 1960

T E L E T Y P E

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

Date:

To: Mr. A. E. Weissenborn, Executive Officer, OME Field Team, Region I South 157 Howard Street, Spokane, Washington

Reurmemo July 22, Docket No. DMEA-4870, Viking Mines, Inc., Contract Idm-E1193. Where is level 6040, do you not mean level 9040?

George C. Selfridge (for)

Chairman, Operating Committee

WPKlugescheid/er 8-4-59
Copy to: Docket
Dir Read File
Op. Committee
Mr. Bishop, USBM
Mr. Kirkemo, USGS
Confirmation Copy
Chron.

8623

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
So. 157 Howard Street
Spokane 4, Washington

July 22, 1959

OFFICIAL FILE COPY
O. M. E.
RECEIVED JUL 27 1959

DATE	INITIALS	CODE
7/27	RCW	225
7-27	K	130

Memorandum

To: Chairman, Operating Committee, OME

From: OME Field Team, Region I

Subject: Docket No. DMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho
Contract No. Idm-E1193

Enclosed are two copies each of a letter from the Operator dated July 10, our reply dated July 13, and 4 copies of an interim inspection report by R. D. Sample dated July 20, 1959.

Referring to plates 1 and 2 accompanying the application examination report, the operator believes that mineralizing solutions came up along the easterly trending shear zone to form the ore shoots mined in the 1, 2, and 3 stopes, all on the so-called "C" bed. From the 20-foot north crosscut at the present bottom of the winze, the operator wishes to drill some long holes to test the ground between the shaft and the easterly trending fissure. Mr. McGowan has orally withdrawn his request for the recess and has requested instead that the contract be amended to authorize the use of the remaining 152 feet of long-hole drilling assigned to the 9100 level for this purpose.

Our estimate of the situation, after talking to Mr. McGowan, is that he is having difficulties convincing his partners to spend any more money on this project because of the present condition and future outlook for the lead market. If the long holes show that good ore continues below the 9100 level, he believes that his partners will be more willing to put up the necessary funds.

In any event, we believe that it might be prudent to put in two or three long holes from the 6040 level and therefore we recommend that the contract be amended to allow 198 feet of long holing on the 9100 level to test the "D" bed, 152 feet of long holing from the face of the crosscut north on the 6040 level and 250 feet of long holing from the 8940 level to test the "C" bed.

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

Wing G. Agnew
Wing G. Agnew, Member
U. S. Bureau of Mines

OFFICIAL FILE COPY O. M. E. RECEIVED JUL 27 1959		
DATE	INITIALS	CODE
7/27	DCW	225
7/28	[illegible]	800
		500

No. 157 Howard Street
Spokane 4, Washington

July 13, 1959

Mr. Wayne L. McEowen
General Manager
Viking Mines, Inc.
Box 696
Hailey, Idaho

Re: Docket No. [illegible]-4870 (Lead-Zinc)
Garfield Mine
Blaine County, Idaho
Contract No. [illegible]-21193

Dear Mr. McEowen:

Dewey Sample, one of our geologists, expects to reach Hailey late Thursday afternoon, July 23. If you will leave word at the Hiawatha Hotel where he can find you, he will visit the Garfield mine and discuss the changes you believe should be made in the contract work.

The termination date of November 15, 1960 is set in Item 4(a)(1) of Amendment No. 1 even though the work is not completed by that date. There is very little chance that OME will extend it further. There is also little chance that any increase in the total cost of the project will be approved.

Sincerely yours,

A. E. Weissenborn
Executive Officer, OME
Field Team Region I

cc: OME (2)
USBM (2)
USEDM (AD)
Sample

Viking Mines, Inc.

24 N 4TH ST. P. O.

GRAND FORKS, N. DAK.

OFFICIAL FILE COPY
O. M. E.
RECEIVED JUL 2 1959

DATE	INITIALS

Field Office
Box [illegible]
Hailey, Idaho
July 10, 1959

Mgt
ASBM cc
AD cc
Dewey cc 7/13/59

Geo. L. McGowan 7/13/59.

Wing C. Agnew, Acting Executive Officer
U. S. Department of the Interior
Office of Minerals Exploration
South 117 Howard Street
Spokane 4, Washington

Re: Doc et No. DMEA-4870
Garfield Mine
Blaine County, Idaho
Contract No. Idm-[illegible]

Dear Mr. Agnew:

As I informed you in a previous letter, this company ope[illegible] the mine to the Garfield Mine prior to July 1, and comm[illegible] pumping out the winze which fills with water from spring [illegible] thaw. During the first week of July, we completed the [illegible] pumping down to the 45 foot level and then enlarged the [illegible] to the forty foot level by slabbing the sides.

At this point some new geological evidence was introduc[illegible] We now believe that continuation of this contract work [illegible] not entirely satisfactory for best results in the development of this property.

We wish to apply for a recess of our DMEA contract for this year, 1959, in order that we may have time to formally apply for a work amendment to the contract.

We have suspended development [illegible] approval of this recess. We feel that this new geological evidence will fu[illegible] support a revision of the procedure to the satisfac[illegible] and mutual benefit of all parties concerned with this project.

Yours truly,

Verne L. McGowan
General Manager

24 N. 4TH ST. P. O. BOX 969

GRAND FORKS, N. DAK.

Field Office
Box 696
Hailey, Idaho
June 29, 1950

U.S. Dept of the Interior
Office of Minerals Exploration
[illegible] 17 Howard Street
Spokane 4, Washington

Re: Docket No. DA[illegible]
(I[illegible]

Garfield Mine
Blaine County, Id[illegible]
Contract No. Ida[illegible]

Dear Sir:

This is to inform you that we have commenced the contract work at the Garfield Mine as of June 15. We have begun working in the winze and shall continue rehabilitation work.

Due to recent mine developments, I shall contact you in the near future regarding a possible contract amendment.

Yours truly,

Verne L. McC[illegible]

RECEIVED
JUL 1 1950
U.S.B.
SPOKANE, WASH.

OFFICIAL FILE COPY
O. M. E.
RECEIVED JUN 19 1959

DATE	INITIALS	
6/22	a	220
6/22	[illegible]	800
[redacted]		

No. 157 Howard Street
Spokane 4, Washington
June 15, 1959

Mr. Terse D. McGowan
Viking Mines, Inc.
P. O. Box 325
Grand Forks, N. Dakota

Re: Docket No. DMEA-4870 (Lead-Zinc)
Garfield Mine
Blaine County, Idaho
Contract No. 3Dm-K1193

Dear Mr. McGowan:

This is to remind you that the recess of your DMEA contract, authorized in Amendment No. 1, ends not later than July 1, 1959.

We call your attention to Item 4(a) of Amendment No. 1 which stipulates that if contract work is not completed by November 15, 1960, the project will be terminated as of that date.

Should conditions beyond your control make it impossible to resume work on or before July 1, 1959, you should request an extension of the recess stating the reason why work could not be resumed and setting a date by which work will be resumed.

We would appreciate being advised of your plans.

Sincerely yours,

Donald R. MacLaren
For: Wing G. Agnew
Acting Executive Officer
OME Field Team, Region I

cc: DMR(r)
WGA(r)
AB
Files

OFFICIAL FILE
O. M. E.
RECEIVED JAN 9 1959

DATE	INITIALS
1-9	[illegible]
1-9	[illegible]

December 29, 1958

Office of Minerals Exploration
South 157 Howard Street
Spokane 4, Washington

Re: Docket No.DMEA -4870
Garfield Mine
Blaine County, Idaho

Dear Sirs:

Enclosed are four signed copies of a proved amendment No. 1 to our contract.

I wish also to inform you that I have just recently received the returned reports on our DMEA contract. I personally have been incommunicado from company mail for some times as I have been traveling around the western states and into some remote areas for extended trips. Sorry for this delay in returning these revised reports. I shall send them on as soon as the necessary material is gathered.

Sincerely,

Verne L. McGowan

OFFICIAL FILE COPY
O. M. E.
RECEIVED DEC 30 1958

DATE	INITIALS	CODE
12/30		235
"		800
12/31		500

So. 157 Howard Street
Spokane 4, Washington

December 18, 1958

Mr. Verne L. McGowan
Viking Mines, Inc.
P. O. Box 325
Grand Forks, N. Dakota

Re: Docket No. DMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho
Contract No. Idm-81193

Dear Mr. McGowan:

In response to your request of October 27, 1958, our Washington office has prepared a proposed Amendment No. 1 to your contract. This amendment provides for the suspension of work from October 15, 1958 to July 1, 1959, and extends the completion date to November 15, 1960.

Among other things, it also provides that if contract work is not completed by November 15, 1960, the project will be terminated as of that date.

If the amendment meets with your approval, will you kindly sign all copies (original and four enclosed), retain that copy marked for the Operator, and return the rest to this office. If it does not meet with your approval, please return all the copies, including the Operator's, to this office with your comments.

Sincerely yours,

/s/ Donald R. MacLaren
Wing S. Agnew
for Acting Executive Officer
OME Field Team Region I

cc: OME (2)
USBM (2)
USBM(AD)
Albee

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
12/11	Klugescheid	500
	Gleason	500
12/12	Chandler	800
12/12		130
"	Johnson	~~110~~
		~~200~~
		~~[illegible]~~
12/15		225
		500

500

12 DEC 1958

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

Re: Docket No. DMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho
Contract No. Idm-E1193

Dear Mr. Weissenborn:

In accordance with your recommendation, dated November 3, 1958, and the request of the Operator, dated October 27, 1958, we are enclosing the original and four copies of a proposed amendment No. 1 (3 pages) to the cited contract, signed by the Acting Director, for the Government. We are also enclosing two extra copies for the use of the Field Team.

If the amendment meets with your approval, kindly present it to the Operator for approval and signature and, when completed, distribute the copies in the usual manner. In the event that the amendment is not satisfactory and cannot be amended within your delegated authority, return all copies with your recommendations concerning any modifications.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

Enclosures

WPKlugescheid/er 12/11/58

Copy to: Docket
Dir Read File
Op. Committee
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Chron.

APPROVED:

G. V. BAROCH (GVB)
Member, Bureau of Mines

N. E. Nelson (NEN)
Member, Geological Survey

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
12/1	Klugescheid	570.

500

December 1, 1958

Memorandum

To: Associate Solicitor, Division of Mineral Resources

From: Chief, Division of Base Metals

Subject: Preparation of Amendment No. 1 for Viking Mines, Inc. Docket No. DMEA-4870, Garfield Mine, Blaine County, Idaho, Contract No. Idm-E1193, Lead-Zinc.

Will you kindly prepare an amendment for the cited contract as follows:

1. (a) Work under the contract shall be suspended during the period beginning October 15, 1958, and ending not later than July 1, 1959.

(b) The Government will not contribute to any costs incurred by the Operator during the period of suspension or to any costs of rehabilitation or repair which in its opinion would not have occurred if there had been no suspension of work.

(c) The Operator at its own cost and expense, without contribution by the Government, during the period of suspension shall preserve and protect the project work and any property in which the Government has an interest.

2. In Article 3 of the Contract, the period for completion is extended from November 15, 1959 to November 15, 1960.

3. In Article 8(b) of the Contract, the period 10 years is changed to 11 years.

8623

4. It is the essence of this contract that the work be completed before the termination of the period herein fixed for completion and if it is not so completed, in the manner required by the Contract, the following provisions shall be thereupon become effective:

(a) The Contract and all obligations of the parties thereunder, except as hereinafter otherwise provided shall be terminated, as follows:

(i) Effective November 15, 1960, if the work is resumed on or before July 1, 1959, but is not completed before November 15, 1960.

(b) The Government will contribute only to the allowable costs of any work performed prior to the relevant date as set forth under 4(a) above.

(c) The Operator shall promptly perform all winding-up and settlement actions provided for in the contract, including the rendering of the final report and final account.

(d) The Operator, as principal if the Operator is the producer, or as surety if the Operator is not the producer (for example, if the Operator either transfers or fails to retain its interest in the land), shall pay to the Government the royalty on production provided for in the contract, in the same manner and amount and for the full period provided for in the contract, as amended, as if certification of discovery or development had been made, such certification being hereby waived by the Operator. In addition, all rights of the Government provided for in the contract with respect to a certification of discovery or development, and all rights of the Government as to reports (including preservation of the Operator's records), audit, and recovery of any overpayments are preserved.

(e) The Operator hereby releases and agrees to save the Government harmless from all claims or demands under and arising out of the Contract, except as otherwise provided for in this Amendment No. 1.

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total amount which the Government may be required to contribute, the amount of any item designated as "maximum", or the fixed unit cost of any item of work.

Executed in quintuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By_____
Acting Director, Office of
Minerals Exploration

VIKING MINES, INCORPORATED

WPKlugescheid/er 12/1/58
Copy to: Docket
Dir Read File
Chron.

By_____

W. R. Griswold

Title_____

W. R. Griswold

OFFICIAL FILE COPY

Date	Surname	Code

December 1, 1958

Memorandum for the Files

From: W. P. Klugescheid, Mining Engineer
Division of Base Metals

Subject: Justification for Amendment No. 1, Docket No. DMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho
Contract No. Idm-E1193

The Operator has requested a recess of operations due to necessary stopping of the work due to winter conditions in the high country.

This should be given as it was an oversight on our part to not provide for this contingency. The completion date has also been advanced for one year for the same reason.

W. P. Klugescheid

W. P. Klugescheid

WPK/er
Copy to: Docket
Dir Read File
Chron.

8623

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

So. 157 Howard Street
Spokane 4, Washington

November 3, 1958

OFFICIAL FILE COPY
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RECEIVED 10 1958
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Mr. George C. Selfridge, Chairman
Operating Committee, OME
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho
Contract No. Idm-E1193

Dear Mr. Selfridge:

Enclosed are two copies of a letter dated October 27, 1958, from the referenced company, requesting a recess from October 15, 1958 to June 1959.

The property is at a high altitude and it is impossible to keep the access road open during the winter. We therefore recommend that an amendment be prepared to authorize a recess from October 15, 1958 to June 15, 1959.

By Field Team Region I

A. E. Weissenborn

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

Wing G. Agnew

Wing G. Agnew, Member
U. S. Bureau of Mines

16 encls.
8 [illegible]
8

cc: USBM (2)
USBM(AD)
Albee

Field Office:
Box 696
Hailey, Idaho
October 27, 1958

E 7193

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

Re: Docket No. DMEA [illegible]
(Lead-[illegible]
Garfield Mine
Blaine County, Id[illegible]

Dear Mr. Weissenborn:

This company respectfully requests a recess in our DMEA Exploration program through the winter months of 1958-1959. This recess to be effective as of October 15, 1958 and until such time that it is possible to reopen the Garfield Mine road in the spring. Plans are for reentering in June 1959.

Sincerely,

Verne L. McGowan

VLM:d

RECEIVE[illegible]
OCT 31 19[illegible]
U. S. G. S.
SPOKANE, WASH

OME

1201 N. Division St.
Spokane 2, Washington

October 28, 1958

OFFICIAL FILE COPY
O. M. E.
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10/31	C	220
10/31	[illegible]	80.0
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Mr. Verne L. McGowan
General Manager
Viking Mines, Inc.
Box 696
Hailey, Idaho

Re: Docket No. DMEA-4870 (lead-zinc)
Contract No. Idm-E1193
Monthly operating reports for
July 15-August 15, 1958
August 15-September 15, 1958

Dear Mr. McGowan:

It is felt our instructions in our letter of September 16, 1958, regarding the submitting of required documents to support your claims, were not clear nor were they complete. We will try to clarify these instructions.

On your MF-104 for July 15-August 15, 1958, you claimed 20 hrs. bulldozing and supported this claim by an invoice from Uhrig Construction Co. This is correct. In addition, you claimed 104 ft. of long-hole drilling at $1.25/ft. or $130; 194 ft. of air and water pipe at $0.60/ft. or $116.40; depreciation $129; labor $795; gas and oil $176.08; miscellaneous supplies, $9.89; repairs to equipment $124.97. Under the contract we could approve the following for payment:

Bulldozing		$200.00

With proper support we could approve:

Long-hole drilling	$130.00	
Air and water pipe	116.40	246.40
Total		$446.40

All of the other items claimed are included in the "Work Items" set out in Exhibit "A" of your contract. You should attach a form of work sheet showing the distribution of the various items that make up the work claimed.

In addition to the work sheet you should submit the receipts received for gas and oil purchases; invoices covering repairs to equipment; invoices for any purchases of supplies such as pipe, explosives, timber, etc.; assay certificates; payrolls, giving dates worked, names, type of work done and breakdown on taxes claimed.

We are attaching sample work sheets that may help you in making your distribution of charges, sample payroll and partially completed forms MF-104 and 104A for July 15-August 15 and August 15-September 15, 1958. We are returning the original forms. The narratives, depreciation statements, drill logs and maps are satisfactory and we are retaining them.

If the above information is not entirely clear to you perhaps you could come to Spokane. We would be happy to meet with you and give you any help we could.

Sincerely yours,

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

Wing G. Agnew, Member
U. S. Bureau of Mines

Attachments

cc: OME (3)
USGS (2)
USBM (AD)

FILE COPY
DMEA
RECEIVED SEP 22 1958

DATE	INITIALS	CODE
9-22	C	220
9/22	WW	800
~~9/24~~	~~WW~~	~~800~~

1201 N. Division St.
Spokane 2, Washington

September 16, 1958

L. McGowan
nager
ines, Inc.
ox 325
Forks, North Dakota

Re: Docket No. DMEA-4870 (Lead-Zinc)
Garfield Mine
Contract No. Idm-E1193
Monthly operating report for
July 15-August 15, 1958

Dear Mr. McGowan:

We received your Operator's Monthly Report and Voucher for the period July 15-August 15, 1958, with attachments. However, these were submitted in quadruplicate, whereas they should be submitted in quintuplicate. In the future will you please send five copies of MF-104 and 104A, with five copies of your narrative, assay certificates, maps, etc.

Inasmuch as your contract is an "Actual Cost" contract, it requires support for all costs claimed. For items under Category (1) Independent Contracts you should support your claim with an invoice from the Contractor, showing amount of time involved, cost, type of equipment used, etc. Category (4) (c) Depreciation - a list of items used and cost. This should state the period of time the equipment was in use and should be certified to this effect. Any assays claimed must be supported by assay certificates. Under "Work Items" invoices from the Vendor for materials and supplies used or a certified true copy must support each claim. Also, certified copies of your payrolls. We require just one copy of each invoice.

Before processing your July-August voucher we will need the above-mentioned items. We are returning the Depreciation Statement for certification.

By Field Team, Region I

Wing G. Agnew, Acting Exec. Officer
U. S. Bureau of Mines

D. R. MacLaren, Acting Member
U. S. Geological Survey

Enclosure
cc: DMEA (2) USBM (AD)
USBM (2) Romischer

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
7/1	Hugescheid	500
"	Johnson	110
"	Hillendahl	100
7/2	C	220
		500

JUL 1 1958

Mr. Verne L. McGowan, President
Viking Mines, Inc.
Post Office Box 325
Grand Forks, North Dakota

Re: Docket No. DMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho
Contract No. Idm-E1193

Dear Mr. McGowan:

We are enclosing the reports and the map which you have requested in your letter of June 4, 1958, addressed to Mr. A. E. Weissenborn, Executive Officer, DMEA Field Team, Region I.

Sincerely yours,

W. R. Griswold

W. R. Griswold, Director
Division of Base Metals

Enclosures

WRGugescheid/er 7/1/58
Copy to: Docket
Admr R File
Op. Committee
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Region I (2)
Chron.

8623

OFFICIAL FILE COPY
DMEA
RECEIVED JUL 16 1958

DATE		
6/16	C	220
6/16		800
6/17		500

So. 157 Howard Street
Spokane 4, Washington

June 11, 1958

Mr. Verne L. McGowan, General Manager
Viking Mines, Inc.
P. O. Box 325
Grand Forks, North Dakota

Re: Docket No. DMEA-4870 (Lead-Zinc)
Garfield Mine
Blaine County, Idaho
Contract No. Idm-E1193

Dear Mr. McGowan:

Thank you for your letter of June 4, 1958, returning the signed copies of the contract and requesting the return of Arthur Lakes report together with "a map or two". This material was mailed to our Washington office in support of your application. We have written our Washington office asking that they be returned to you.

Enclosed is an envelope containing a sheaf of mill and smelter returns. You asked that these be returned to you as soon as they had served their purpose.

Sincerely yours,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I

Enclosures

cc: DMEA (2)
USBM (2)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
So. 157 Howard Street
Spokane 4, Washington

OFFICIAL FILE COPY
DMEA
RECEIVED JUN 10 1958
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June 10, 1958

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

Re: Docket No. DMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho
Contract No. Idm-E1193

Dear Mr. Selfridge:

Enclosed are the Government and Audit copies of the above-referenced contract.

Also enclosed are two copies of a letter dated June 4, 1958 from Verne L. McGowan, General Manager of Viking Mines, Inc., which is self-explanatory. On March 14, 1958 when we sent our examination report to you, we also enclosed a Preliminary Report on the Garfield Mine by Arthur Lakes and a Progress Report by the same author. He also requests the return "of a map or two." We don't know whether the map or maps are part of Arthur Lakes' report or whether they were a part of the application. Perhaps your files will disclose these items. We have no extra maps in our files.

Sincerely yours,

A. E. Weissenborn

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I

Enclosures

cc: USBM (2)
USBM (AD)
Alvord

Joe Sleby - distribution, etc.

June 4, 1958

Mr. A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I

Re: Docket No. DMEA-4870
(Lead-Zinc)
Garfield Mine
Blaine County, Idaho

Dear Mr. Weissenborn:

Enclosed are the four copies of the DMEA contract which we have signed. As you requested, we shall inform you of the starting date in the near future, but expect it to be about July 1st.

We requested the return of a consultant's report (Arthur Lake) and a map or two. It would be appreciated if you could locate them for us.

nice check.

Sincerely,

Verne L. McGowan
General Manager

VLM:d
Encs.

26 1958

5/26 C 220
5/26 Klog ~~1500~~

So. 157 Howard Street
Spokane 4, Washington

Air Mail

May 21, 1958

Mr. Verne L. McGowan
General Manager
Viking Mines, Inc.
P. O. Box 325
Grand Forks, North Dakota

Re: Docket No. DMEA-4870 (Lead-Zinc)
Garfield Mine
Blaine County, Idaho

Dear Mr. McGowan:

Enclosed are the original and four copies of a proposed long-form contract for the cited project, signed by the Administrator, Defense Minerals Exploration Administration. It consists of the form (MF-200), Annex I (one page), Annex II (one page), Exhibit "A" (7 pages), three Consents to Lien and Subordination Agreements and three maps.

Article 3 provides that work is to begin on or before July 15, 1958. Please inform us the date when you expect to commence work.

Your attention is called particularly to Article 8(b) of the contract which deals with repayment by the operator from royalty on production. Any production from the land described in the contract is subject to the royalty provisions of the contract whether or not the ore was known to exist prior to the date of the contract or it is discovered or developed by the work under the contract. This applies to all production during the period in which the Government may certify or, if the project is certified, to all production during the repayment period specified in the contract.

If the contract meets with your approval, please sign all copies, retain the one marked for the Operator, and return the others to this office. If it does not meet with your approval, please return all copies of the contract with your comments.

Sincerely yours,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I

Enclosures

cc: DMEA (2)
USBM (2)
USBM (AD)
Alvord

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
5/12	Klugescheid	500
	Howard	500
5/12	Talbutt	800
5/16	Selfridge	130
5/14	Lamb	130
5/14	Williams	130
5/16	Johnson	110
*	Mittendorf	100
5/14	C	220

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B

MAY 16 1958

Hon. Milton R. Young
United States Senate
Washington, D. C.

Re: Docket No. DMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho

Dear Senator Young:

We refer to your letter, dated March 20, 1958, and our reply, dated March 24, 1958.

A proposed contract has been sent to the Field Team to-day for review and submission to the Applicant for execution.

Please feel free to call on us at any time when we can be of service.

Sincerely yours,

C. O. Mittendorf (Lw)

Administrator

WPKlugescheid/er 5/12/58
Copy to: Docket
Sec. Reading File
DCCO
MR
DL
Admr R File
Op. Committee
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Region I (2)
Chron.

8623

DMEA Form 7
(12-56)

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Date	Surname	Code
5/12	Klugescheid	500
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5/12	Talbert	800
5/16	[illegible]	130
"	Johnson	110
"	Rothenberg	100
		220
		500

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

Re: Docket No. DMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho

Dear Mr. Weissenborn:

Enclosed are the original and four copies of a proposed long-form contract for the cited project, signed by the Administrator, Defense Minerals Exploration Administration. It consists of the form (MF-200), Annex I (one page), Annex II (one page), Exhibit "A" (7 pages), three Consents to Lien and Subordination Agreements, and three maps. Two extra copies of Annex I, Annex II, Exhibit "A", and the maps are also enclosed for the use of the Field Team.

There have been a few adjustments made in the costs.

If the proposed contract meets with your approval, kindly present it to the Applicant for approval and signature and, when completed, distribute the copies in the usual manner. In the event that the contract is not satisfactory, and cannot be amended within your delegated authority, return all copies with your recommendation concerning any modification.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosures
APPROVED:

Frank D. Lamb

Member, Bureau of Mines

W. P. Williams

Member, Geological Survey

WPKlugescheid/er 5/12/58
Copy to: Docket
Admr R File
Op. Committee
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Chron.

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DMEA Form 20
March 1958

Proc 500 - Docket file

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
Washington 25, D. C.

MEMORANDUM OF CONGRESSIONAL CALL

TO: Director, Division of Legislation (DL)

FROM: Administrator, DMEA C. O. Mittendorf (Signature) 5/16/58 (Date)

Call from Mr. Sylvester of Senator Milton R. Young's office Date of call April 28, 1958. Time 11.30 A. M.

State below subject of call and conclusions or action taken.

Mr. Sylvester wished to know the present status of the following project. Docket No. DMEA-4870, Viking Mines, Inc., Garfield Mine, Blaine County, Idaho. Mr. Sylvester was informed by Mr. Klugescheid, Division of Base Metals, that a proposed contract was in process of being prepared and that the Senator would be advised when the contract was sent out.

Walter P. Klugescheid (Call received by) 4/28/58. (Date)

Prepare in duplicate when call is received. Send both copies to Administrator who will send original to DL and copy to DMEA Central Files. If call pertains to application or contract, copy will be recorded and filed in official docket.

34038

orm 7
56)

OFFICIAL FILE COPY

Date	Surname	Code

April 28, 1958

Memorandum for the Files

From: W. P. Klugescheid, Division of Base Metals

Subject: Phone conversation about Docket No. DMEA-4870, Viking Mines, Inc., Garfield Mine, Blaine County, Idaho, Lead-Zinc.

To day Mr. Sylvester of Senator Milton R. Young's office called on the telephone and requested the present status of the cited project.

The undersigned called Mr. Sylvester and informed him that a contract was in process of being prepared and assured him that the Senator would be advised when the contract was sent out.

W. P. Klugescheid

W. P. Klugescheid

WPK/er

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
	Klugescheid	

500

April 23, 1958

Memorandum

To: Associate Solicitor, Division of Minerals Resources

From: Director, Division of Base Metals

Subject: Preparation of a Contract for Docket No. DMEA-4870, Viking Mines, Inc., Garfield Mine, Blaine County, Idaho, Lead-Zinc.

Will you please prepare a contract for the cited project. A draft of the contract, Annex I, Annex II, Exhibit "A" and 3 maps are attached to this memorandum. Three sets of Consents to Lien and Subordination Agreements are also attached.

W. R. Griswold

WPKlugescheid/er
Copy to: Docket
Chron.

8623

Memorandum for the Files

From: W. P. Klugescheid, Division of Base Metals.

Subject: Changes made in the cost estimate of the Field Examiners.

Operating Equipment marked (A) was used throughout the Ist Stage.

REHABILITATION OF WINZE.

Under labor and Supervision: 18 days or 18/25 :: 0.7 month not 0.90
Also ladders @ $1.35 per foot is excessive, we will assume a ladder costs $5.00 per 12' length.

Labor & Supervision

1 Supervisor @ $600/mo. for).7 month.	$420.00
2 Miners @ $18/day--18 days	648.00
1 Helper @ $17/day--18 days	306.00
	$ 1,374.00

Operating Materials and Supplies (No Salvage)

Oil, gas , etc.	109.08
Timber	161.87
100 feet of ladders or 9-12' ladders @ $5.00/ea.	45.00
Other as shown	219.85
	$ 535.80
Operating Materials & Supplies (50% salvage)	259.04
Miscellaneous.	
$1,374 x 0.149	205.00
Operating Equipment furnished	
$177.52 x 7/9	138.10
Total for 100 feet assumed to be in clear.	$2,511.94

Gives $25.11/foot say $25.00/foot.

SINKING WINZE.

Assume estimated advance as 2 feet per shift instead of 1.5 feet. 110 feet of advance assumed then 110/2 :: 55 days say 60 days or 2.5 months.

Labor and Supervision

1-Supervisor @ $600/month for 2.5 months	$ 1,500.00
2-Miners @ $18.00/day for 60 days	2,160.00
1-Hoistman-Mechanic @ $18/day for 60 days	1,080.00
1-Helper @ $17.00/day for 60 days	1,020.00
	$ 5,760.00

Operating Materials & Supplies (No Salvage)

Diesel Oil--1,200 gallons @ $0.22/gallon	264.00
Truck--Gasoline--300 gallons @ $0.35/gal.	105.00
All other same as shown	1,159.65
	$ 1,528.65
Operating Materials & Supplies(50% salvage)	227.06
Equipment Furnished--$771.06 x 2.5/3.65	528.18
Miscellaneous $5,760 x 0.149	858.24
Total for 110 feet	$ 8,902.13

8,902.13/110 @: $80.92/foot

Say $81.00/foot

DRIFTING AND CROSSCUTTING

Assuming 72 days as shown this will be 3 months and not 3.5 months.

Labor & Supervision

1- Supervisor @ $600/month for 3 months	$ 1,800.00
2-Miners @ $18.00/day for 72 days	2,592.00
1-Hoistman-Mechanic-Timber Framer @ $18/day for 72 days	1,296.00
1-Trammer @ $17/day for 72 days	1,224.00
	$ 6,912.00
Operating Materials & Supplies(No Salvage)	1,709.43
Ditto (50% Salvage)	378.26
Operating Equipment $760.5 x 3/3.6	634.00
Miscellaneous--$6,912.00 x 0.149	1,030.00
Total for 250 feet	$ 10,663.69

10,662.69/250 @: $42.65

Say $42.60

STATION ON THE 160 LEVEL.

Station excavation as shown is 812 cu. ft.
Slash at basis of $44.80 the same as drifting is excessive.

812 cu. ft. @ $1.00/cu.ft.	$ 812.00
Timbering 7.80 x 1.5 :: $11.70/ft. x 29 @:	339.30
	$ 1,151.30

INSTALLATION OF WATER AND AIR LINE

325 feet on the 9100 level.

Total as given $194.85/325 :: 0.60/foot

325 feet of installation @ $0.60/ft. $ 195.00

Assaying of 50 samples for Lead, Zinc and Silver @ $6.00/sample is excessive we will give $4.00/sample.

Assaying for Arsenic and antimony not allowed.

EQUIPMENT DEPRECIATION

Stage I

Rehabilitation of Winze etc.

Compressor @ $104.00/month for 0.7 months	$ 72.80
Sinker drill with leg @ $9.00/month for 0.7 months	6.30
2- Mine Cars @ $6.67/month for).7 months	4.67
Truck @ $20.00/month for).7 month	14.00
Hoist @ $26.33/month for 0.7 months	18.45
2 air pumps @ $18.17/month for 0.7 months	12.72
Skip @ $5.00/month for 0.7 months	3.50
Air Receiver @ $5.00/month for 0.7 months	3.50
Portable Grinder @ $3.08/month for 0.7 months	2.16
Total	$ 138.10

Sinking of Winze.

Compressor @ $104.00/month	for 2.5 months	260.00
2-Sinker type drills @ 18.00/month	Ditto	45.00
2-mine cars @ $6.67/month	Ditto	16.68
Hoist @ $26.33/month	Ditto	65.83
2- Air Pumps @ $18.17/month	Ditto	45.43
Fan @ $5.00/month	Ditto	12.50
Skip @ $5.00/month	Ditto	12.50
Truck @ $20.00/month	Ditto	50.00
Air Receiver @ $5.00/month	Ditto	12.50
Portable Grinder @ $3.08/month	Ditto	7.70
Total		$ 528.14

Winze Timbering.

Compressor @ $104.00/month	for 0.125 months	13.00
Hoist @ $26.33/month	Ditto	3.29
Mine Car @ $3.33/month	Ditto	0.42
2- Air Pumps @ $18.17/month	Ditto	2.27
Fan @ $5.00/month	Ditto	0.63
Skip @ $5.00/month	Ditto	0.63
Truck @ $20.00/month	Ditto	2.50
Air Receiver @ $5.00/month	Ditto	0.63
Portable Grinder @ $3.08/month	Ditto	0.39
Total		$ 23.76

Drifting and Crosscutting

Compressor @ $104.00/month	for 3 months	312.00
2-Sinker Drills @ $18.00/month	Ditto	54.00

Drifting and Crosscutting Cont'd.

2-Mine Cars @ $6.67/month	for 3 months	$ 20.01
2-Air Pumps @ $18.17/month	Ditto	54.51
Fan @ $5.00/month	Ditto	15.00
Skip @ $5.00/month	Ditto	15.00
Truck @ $20.00/month	Ditto	60.00
Air Receiver @ $5.00/month	Ditto	15.00
Portable Grinder @ $3.08/month	Ditto	9.24
Hpist @ $26.33/month	Ditto	78.99
Total		$ 634.00

Timbering in Drifts and Crosscuts

Compressor @ $104.00/month	for 0.15 months	15.60
2-Sinker Drills @ $18.00/month	Ditto	2.70
2-Mine Cars @ $6.67/month	Ditto	1.00
Hoist @ $26.33/month	Ditto	3.95
2-Air Pumps @ $18.17/month	Ditto	2.73
Fan @ $5.00/month	Ditto	0.75
Portable Grinder @ $3.08/month	Ditto	0.46
Skip @ $5.00/month	Ditto	0.75
Air Receiver @ $5.00/month	Ditto	0.75
Truck @ $20.00/month	Ditto	3.00
Total		$ 31.69

Long Hole Drilling

Say 2 miners @ $18.00/day	$36.00
1 day :: 1/25 month for equipment	
Total Equipment cost per month :: $197.25/25 ::	$7.90/day
Assume Supervision @ $600/25 ::	24.00/day
Total per day	$ 67.90

@ $1.25 per foot :: 54' per day to cover.
600'/55 :: 11 days to do the work. 11/25 :: 0.44 months.

$7.90 x 11 days :: <u>$86.90 for equipment depreciation.</u>

Stage II

Drifting and Crosscutting

COmpressor @ $104.00/month	for 3.75 months	$ 390.00
2 Sinker Drills @ $18.00/month	Ditto	67.50
2-Mine Cars @ $6.67/month	Ditto	25.01
Fan @ $5.00/month	Ditto	18.75
Truck @ $20.00/month	Ditto	75.00
Air Receiver @ $5.00/month	Ditto	18.75
Portable Grinder @ $3.08/month	Ditto	11.55
Total		$ 606.56

Timbering of Drifts and Crosscuts

Compressor @ $104.00/month	for 0.2 months	$ 20.80
Mine Car @ $3.33/month	Ditto	0.67
Fan @ $5.00/month	Ditto	1.00
Truck @ $20.00/month	Ditto	4.00
Air Receiver @ $5.00/month	Ditto	1.00
Portable Grinder @ $3.08/month	Ditto	0.62
Total		$ 28.09

Long Hole Drilling

From Stage I

200/55 :: 4 days to complete 4/25 :: 0.160 months

7.90/day x 4 days :: $31.60 Equipment Depreciation

Total Time for Project

Stage I		Stage II	
Rehabilitation of winze	0.70 month	Drifting & Crosscutting	3.75 mo.
Sinking winze	2.50 "	Timbering Drs. & Xcs.	0.20 "
Timbering winze	0.125 "	Long hole drilling	0.16 "
Drifting and crosscutting	3.000 "		
Timbering Drifts & Xcs.	0.150 "	Total	4.11 mo.
Long Hole Drilling	0.440 "		
Total	6.915 months		

Stage I Equipment Costs.(Totals)

Compressor @ $104.00/month	for 6.915 months	$ 719.16
2-Sinker Drills @ $18.00/month	Ditto	124.47
2-Mine Cars @ $6.67/month	Ditto	46.12
Fan @ $5.00/month	Ditto	34.57
Truck @ $20.00/month	Ditto	138.30
Air Receiver @ $5.00/month	Ditto	34.57
Portable Grinder @ $3.08/month	Ditto	21.30
2-Air Pumps @ $18.17/month	Ditto	125.64
Skip @ $5.00/month	Ditto	34.57
Hoist @ $26.33/month	Ditto	182.07
$211.25/month Totals		$ 1,460.77

By Addition of Items.

Rehabilitation of Winze	$ 138.10	Drifts and Crosscuts	$ 634.00
Sinking Winze	528.14	Timbering Drs. & Xcs.	31.69
Winze Timbering	23.76	Long hole Drilling	86.90
		Total	$1,442.59

Stage II Equipment Costs.(Totals)

Compressor @ $104.00/month for 4.11 months		$ 427.44
2-Sinker Drills @ $18.00/month	for 4.11 months	73.98
2-Mine Cars @ $6.67/month	Ditto	27.41
Fan @ $5.00/month	Ditto	20.55
Truck @ $20.00/month	Ditto	82.20
Air Receiver @ $5.00/month	Ditto	20.55
Portable Grinder @ $3.08/month	Ditto	12.66
$ 161.75/month	Totals	$ 664.79

By Addition of Items

Drifting and Crosscutting	$ 606.56
Timbering Drifts and Crosscuts	28.09
Long Hole Drilling	31.60
Total	$ 666.25

RECAPITULATION OF EQUIPMENT DEPRECIATION

Equipment	Stage I	Total Charge
Compressor @ $104.00/month	assume 7 months	$ 728.00
2-Sinker Drills @ $18.00/month	Ditto	126.00
2-Mine Cars @ $6.67/month	Ditto	46.69
Fan @ $5.00/month	Ditto	35.00
Truck @ $20.00/month	Ditto	140.00
Air Receiver @ $5.00/month	Ditto	35.00
Portable Grinder @ $3.08/month	Ditto	21.56
2-Air Pumps @ $18.17/months	Ditto	127.19
Skip @ $5.00/month	Ditto	35.00
Hoist @ $26.33/month	Ditto	184.31
$ 211.25/month		$ 1,478.75

Stage II

Compressor @ $104.00/month	assume 4 months	$ 416.00
2-Sinker Drills @ $18.00/month	Ditto	72.00
2- Mine Cars @ $6.67/month	Ditto	26.68
Fan @ $5.00/month	Ditto	20.00
Truck @ $20.00/month	Ditto	80.00
Air Receiver @ $5.00/month	Ditto	20.00
Portable Grinder @ $3.08/month	Ditto	12.32
$ 161.75/month		$ 647.00

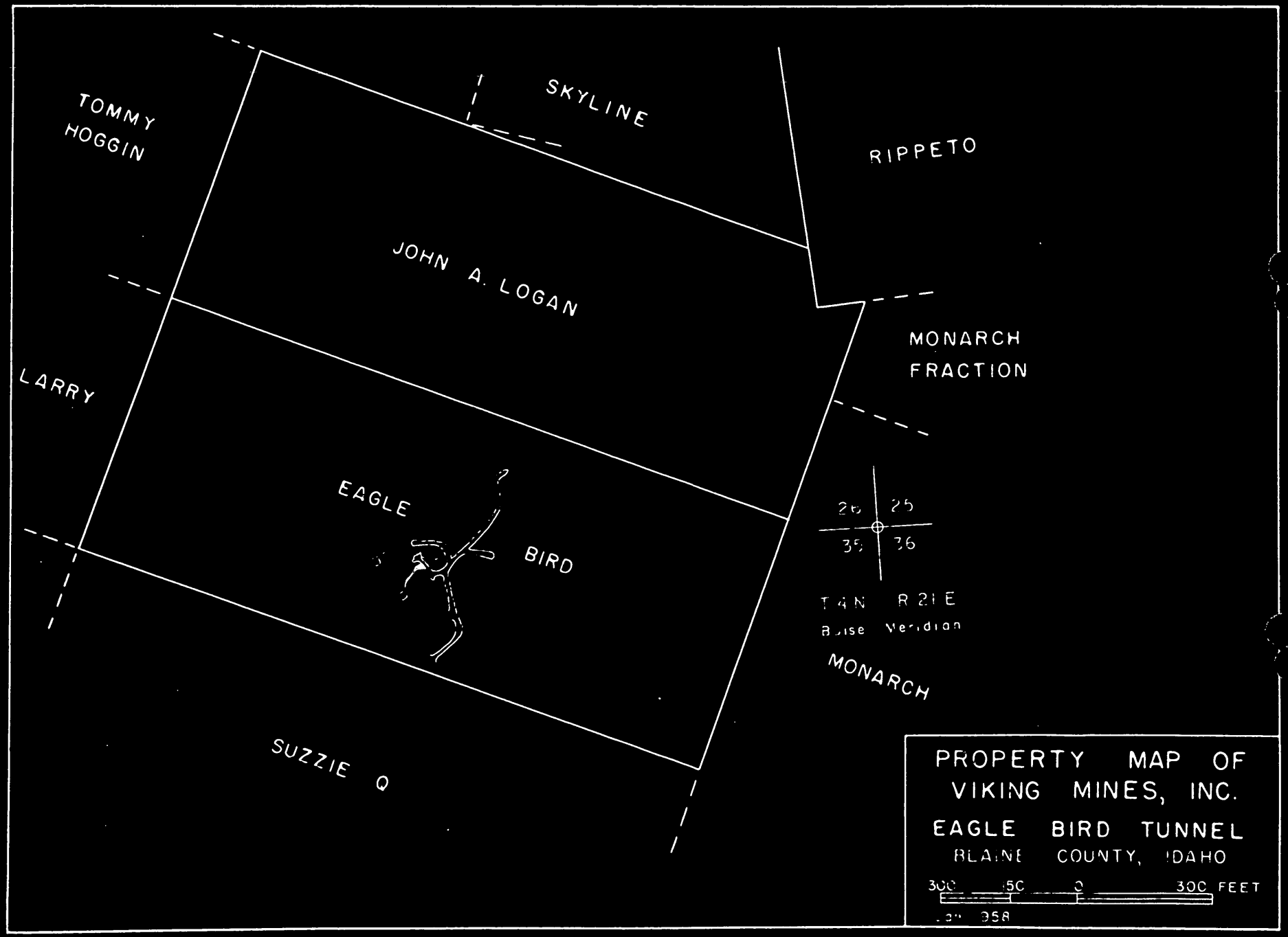
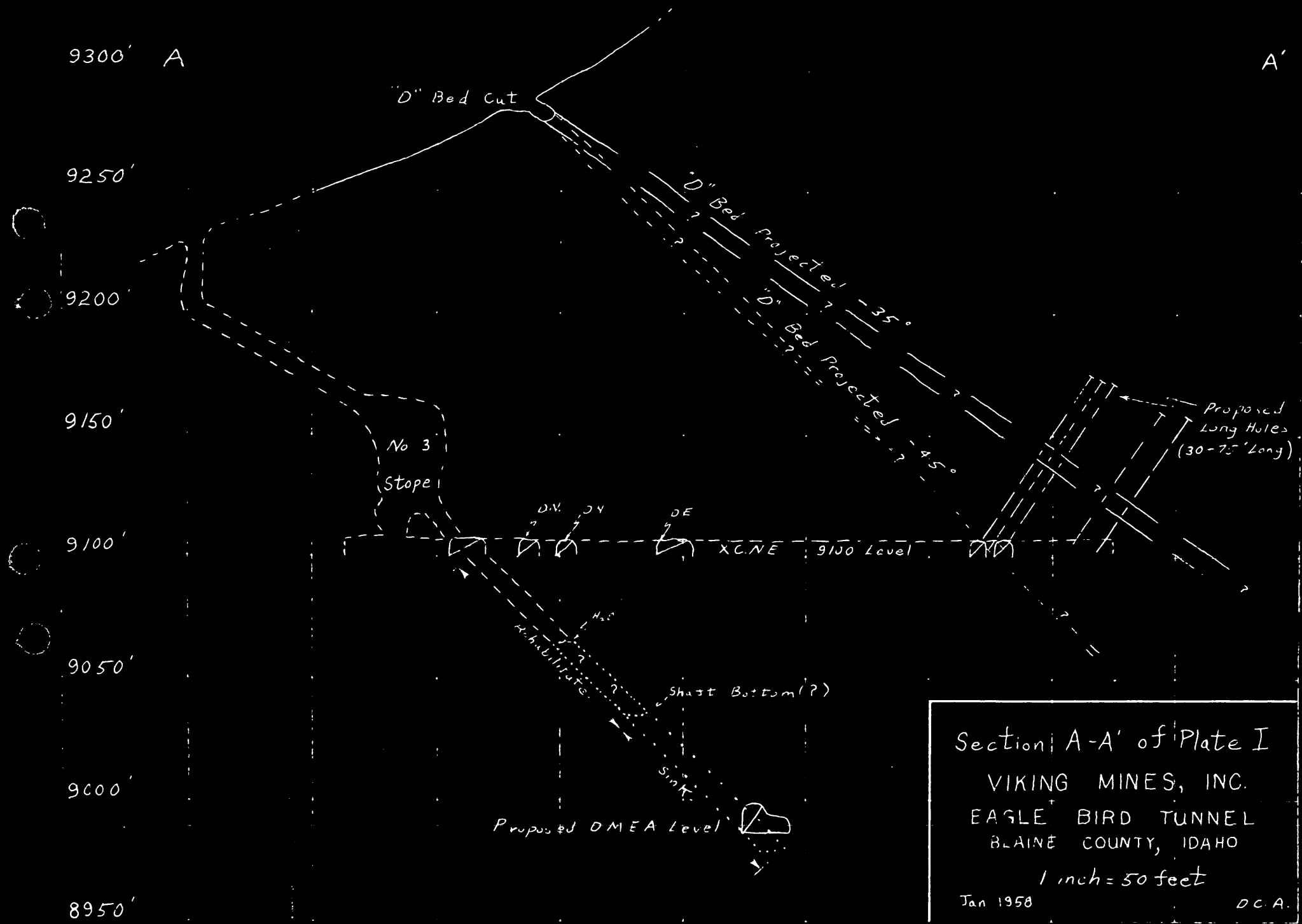

TOMMY HOGGIN
SKYLINE
RIPPETO
JOHN A. LOGAN
MONARCH FRACTION
LARRY
EAGLE
BIRD
26
25
35
36
T 4 N R 21 E
Boise Meridian
MONARCH
SUZZIE Q
PROPERTY MAP OF
VIKING MINES, INC.
EAGLE BIRD TUNNEL
BLAINE COUNTY, IDAHO
300 150 0 300 FEET

Figure 2



Section A-A' of Plate I

VIKING MINES, INC.

EAGLE BIRD TUNNEL

BLAINE COUNTY, IDAHO

1 inch = 50 feet

Jan 1958

D.C.A.

Plate 3

J. A. Gendron Co., Spokane

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

RECEIVED 24

3/25 C 220
3-25 Klag 502

March 24, 1958

Re: DMEA 4870; Lead-Zinc; $40,559
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho

Memorandum

To: W. R. Griswold, DMEA

From: O. M. Bishop, USBM

Subject: Review of Examination Report of March 4, 1958 and of Field Team recommendations thereon dated March 14, 1958

The applicant proposes certain road work, rehabilitation of an existing winze, 160 feet of winzing, 150 feet of crosscutting and drifting from a new level to be cut from the winze, 600 feet of diamond drilling, 200 feet of long hole drilling and miscellaneous sampling and trackwork. This work which the applicant estimates will cost about $27,492, will test the downward extension of the narrow but high grade silver-lead-zinc ore in the ore shoot developed by Stope No. 2, but in the opinion of the field examiners additional footage is necessary to explore the downward extensions of Stopes 3 and 1. The field examiners also state that the downdip exploration of the ore exposed by open cut on "D" bed could be more economically explored by long holes from the 9100 level XCNE than by diamond drilling.

On the basis of these observations the field examiners recommend a two-stage $40,559 project which provides road construction, winze rehabilitation, 110 feet of winzing, cutting of station and 250 feet of drifting and crosscutting on a new level plus 600 feet of long holing to explore "D" bed, with certain service work sampling and assaying.

Stage 2, which is predicated on Government and operator agreeing that results of long hole drilling on "D" bed were favorable, provides a maximum of 300 feet of crosscutting and drifting with additional long holing and assaying.

I concur with the examiners and Field Team that the potential of the exploration warrants the cost. I recommend that the application be approved as modified and that a contract be prepared as soon as it is understood the applicants concur in the modification.

O. M. Bishop

O. M. Bishop

cc: Division of Minerals
Mr. Kiilsgaard
Mr. Lamb
Mr. Bishop
F I L E S

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

March 21, 1958
Re: DMEA 4870
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho
Appl. Est. $27,492.50
Rec'd Est. $40,559.51
Lead-Zinc

Memorandum

To: W. R. Griswold, Defense Minerals Exploration Administration

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of application

The applicant requested assistance in exploring for the downward continuation of known bedded replacement deposits by bulldozing, rehabilitation, sinking, crosscutting, drifting and diamond and long hole drilling.

The principal mine opening is an adit above which are 3 stopes, two of which extend to the surface a distance on slope of perhaps 100 feet for No. 1 and 140 feet for No. 2. No. 3 stope is nearly vertical and about 70 feet high. The three chimney-like ore shoots are credited with a production of about 4,000 tons of ore assaying (est.):

Pb%	Zn%	Silver Oz.
8	5	10

Such material at present day prices (Pb 13¢, Zn 10¢, silver 90¢) would have been worth, gross, $50.00 per ton or $200,000.

The work proposed by the applicant and the examiners would open a level 160 feet down dip of the adit level by drifting from a 110-foot extension of an existing winze. The examiners' project includes 400 feet of drifting and crosscutting on the new level not proposed by the applicant.

The expenditure on part of the additional drifting which the applicant presumedly would have done without cost to the Government is considered a 'prudent investment' by the examiners.

Inasmuch as about twice as much ore of past average grade must be recovered as has been produced, in order to return the prospective royalty($20,279.75), the proposed expenditure should be

less than estimated by the applicant, rather than more.

With that exception, I concur with the recommendation of the examiners and Field Team.

N. E. Nelson

N. E. Nelson

So. 157 Howard Street
Spokane 4, Washington

March 20, 1958

3/24 Cy 226
~~3/25 Alvg. 506~~

Mr. Verne L. McGowan
General Manager
Viking Mines, Inc.
P. O. Box 325
Grand Forks, N. Dakota

Re: Docket No. DMEA-4870 (Lead-Zinc)
Garfield Mine
Blaine County, Idaho

Dear Mr. McGowan:

This is in reply to your letter of March 18, 1958, in which you ask about the progress in processing your application.

The report of examination has been sent to our Washington, D. C. office. We do not know what their decision will be but as soon as we hear we will advise you. Although we do not know exactly how long it will take, we would guess that we will hear in about three weeks.

Sincerely yours,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I

cc: DMEA (2) w/2 copies of incoming
USBM (2) " " " "
Alvord

Viking Mines, Inc.

24 N. 4TH ST. P. O. BOX 326

GRAND FORKS, N. DAK.

DMEA
RECEIVED 1958
MODE

March 18, 1958

Report to D.C.
3/14/58.

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

Re: Docket No. DMEA 4870
(lead-zinc)
Garfield Mine
Blaine County, Idaho

Dear Mr. Weissenborn:

About the first of February, we submitted the remaining required information and documents to the Spokane office so that it could be forwarded on to Washington.

Could you inform me if your office has received any information as to processing progress of this application. Would appreciate any results you may have.

Sincerely,

Verne L. McGowan
General Manager

Air Mail
MAR 1958
U.S.
SPOKANE WASH

VLM:d

OFFICIAL FILE COPY

Date	Surname	Code
3/26	[illegible]	500
	[illegible]	500
3/26	[illegible]	130
"	Johnson	110
"	Buttendorf	100
		~~HB~~
3/27	[illegible]	220
		500

DMEA Form 7
(12-56)

500

MAR 27 1958

. E. Weissenborn
utive Officer
A Field Team, Region I
outh 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho

Dear Mr. Weissenborn:

The cited project was examined on November 14, 1957, so as to forestall any delay that might be caused by snow making the area inaccessible. This procedure was very commendable and the examination was made some time before Washington was even able to refer the application to the field.

For the reporting period of December 15, 1957 to January 15, 1958, the field data indicated that the report was being prepared. However, the report of examination did not arrive until March 17, 1958, or two months after the report was stated to be in process of preparation and approximately three months after the field referral.

Apparently the Applicant became impatient and requested information regarding the status of the application from one of the Senators. Fortunately, the report arrived the same day that the request was received from the Senator and so it was not necessary to communicate with you about this matter.

8623

Sometimes considerable delay is caused by the fact that the examiners cannot agree as to a course of action to be taken. We do not mean to imply that such was the case in this instance, but we wish to point out that when such a disagreement takes place it is preferable to send two opinions concerning the project and thus allow the Washington office to act as the final authority as to what course to take, rather than hold the matter up while a compromise is being affected.

You will understand that, when long periods of time elapse between the time of the examination of a property and the submission of the field report thereon, congressional inquiries can become somewhat embarrassing.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

APPROVED:

P. F. Yopes (GCS)

Member, Bureau of Mines

Thor H. Kiilsgaard (GCS)

Member, Geological Survey

WRKlugescheid/er 3/26/58

Copy to: Docket
Admr R File
Op. Committee
Mr. Bishop, USBM
MR. Kiilsgaards, USGS
Chron.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
3/24	Klugescheid	500
	Thomas	500
"	Johnson	~~120~~
		110
	Hutchenson	100
3/25		220
		500

MAR 24 1958

Hon. Milton R. Young
United States Senate
Washington, D. C.

Re: Docket No. DMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho

Dear Senator Young:

We have your letter of March 20, 1958, regarding the cited application.

We have just received the field examination report on this property and final action should be taken within two or three weeks. We will advise you as soon as final disposition is made.

Please feel free to call on us at any time when we can be of service.

Sincerely yours,

K. O. Kiilsgaard

Administrator

WPKlugescheid/er 3/24/58
Copy to: Docket
Sec. Reading File
DCCO
MR
DL
Adm R File
~~Op. Committee~~
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Region I (2)
Chron.

PRS - 7814

8623

ALLEN J. ELLENDER, LA., CHAIRMAN
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ANDREW F. SCHOEPPEL, KANS.

COTYS M. MOUSER, CHIEF CLERK

United States Senate

COMMITTEE ON
AGRICULTURE AND FORESTRY

March 20, 1958

PRS
MAR 21 1958 7814

TO: MDM	
REPLY TO BE PREPARED BY:	MDM
FOR SIGNATURE OF:	MDM
COPY OF LETTER FURNISHED	
MR DL	
SEND REPLY COPY TO ABOVE	

Mr. C. O. Mittendorf, Administrator
Defense Minerals Exploration Administration
Department of the Interior
Interior Building
Washington, D. C.

Dear Mr. Mittendorf:

It has been called to my attention that Viking Mines, Incorporated of Grand Forks, North Dakota, has submitted an application to the Defense Minerals Exploration Administration for an exploration assistance loan on a lead-silver-zinc mining property in Idaho. This application has been assigned the docket number DMEA-4870.

It is my understanding that the Viking Mines, Incorporated, have submitted all the information requested of them. I would greatly appreciate it if you would look into this for me and advise me of the status of this application. Too, I would appreciate anything you could do to expedite a decision on it.

With warmest personal regards,

Sincerely yours,

MILTON R. YOUNG

DMEA
RECEIVED
DMRY: sg INITIALS CODE
3/21 C 220
~~3/21 Klug 500~~

United States Senate

COMMITTEE ON APPROPRIATIONS

FREE

Milton R. Young

U.S.S.

Mr. C. O. Mittendorf, Administrator
Defense Minerals Exploration Administration
Department of the Interior
Interior Building
Washington, D. C.

WASHINGTON 17 D.C.
MAR 15 1958
9:30PM

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
So. 157 Howard Street
Spokane 4, Washington

March 14, 1958

OFFICIAL FILE COPY
DMEA
RECEIVED MAR 17 1958

DATE		
3/17	C	220
3/21	JB	130
3/21	C	220
		500

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

Re: Docket No. DMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho

Dear Mr. Selfridge:

Enclosed are three copies of an examination report on the Garfield Mine by D. C. Alvord, Geologist, U. S. Geological Survey and E. W. Parsons, Mining Engineer, U. S. Bureau of Mines. Also enclosed is a Preliminary Report on the Garfield Mine by Arthur Lakes and a Progress Report by the same author. When you are finished with these two reports will you please return them to the applicant as he requests.

More or less chimneylike ore shoots containing silver, lead and zinc occur as replacements in limestone. The ore chimneys occur along zones of reverse-slip bedding plane faults and appear also to be partly controlled by vertical to steeply dipping strike-slip faults that intersect the bedding plane faults. Three such ore shoots have been stoped from the surface to or nearly to the adit level and a fourth is indicated by shallow surface workings.

Alvord and Parsons conclude that the chance of extending the known ore shoots and finding similar blind shoots is sufficiently good to warrant further work and recommend that a modified version of the applicant's proposal be approved.

The Field Team concurs with these conclusions and recommendations.

Reviewed by
DMEA OPERATING COMMITTEE
3-21-58
(date)

By Field Team Region I

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

Thomas E. Howard
Wing G. Agnew, Member
U. S. Bureau of Mines

Enclosures
cc: USBM (2)
Alvord

DMEA

OFFICIAL FILE COPY
DMEA
RECEIVED MAR 17 1958

DATE		CODE
3/21	2/3	130
		220

ON-SITE Report.

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
So. 157 Howard Street
Spokane 4, Washington

March 4, 1958

MEMORANDUM

To: DMEA Field Team, Region I

From: D. C. Alvord, Geologist, U. S. Geological Survey and E. W. Parsons, Mining Engineer, U. S. Bureau of Mines

Subject: Application Examination Report, Docket No. DMEA-4870 (Lead-Zinc), Viking Mines, Inc., Garfield Mine, Blaine County, Idaho

INTRODUCTION AND SUMMARY

An application for aid to explore the Garfield mine for lead-zinc ore was received on November 4, 1957. The applicant proposes to rehabilitate an inside incline shaft to its probable bottom at 90 feet, to extend the shaft to a total length of 170 feet, to establish a 160-level station and, from the shaft on the 160 level, to drift 150 feet northwestward to explore for the downward extension of ore shoots. Six hundred feet of diamond drilling from the surface is proposed to test the downward extension of a promising ore shoot that is presently exposed at only one small surface cut. The applicant has also requested aid in establishing favorable track grade from the portal of the workings to the collar of the incline shaft, a total distance of about 255 feet.

Although the application was not referred to the Field Team until December 11, 1957, the authors examined the property on November 14 in order to beat the winter snows. As it was, about a foot of newly fallen snow covered the area and a 4-wheel-drive vehicle with chains was needed to reach the property. Mr. Fred Shirts, a miner residing at Hailey, Idaho, accompanied the examiners as a representative of the applicant.

The Garfield mine (Eagle Bird workings) has been known and worked at various times from the 1880's to 1953. It contains deposits of silver, lead, and zinc minerals occurring as replacements along zones of bedding plane faulting in dark-gray limestone. The ground to be explored contains at least four distinct ore shoots estimated to have yielded around 4,000 tons of direct shipping ore.

Reviewed by
DMEA OPERATING COMMITTEE
3-21-58
(date)

Fair to good-looking ore remains in the walls of the stopes and in no case is the present development known to have disclosed the bottom of an ore shoot. It is concluded that exploration below the known ore shoots along the certain favorable zones of bedding plane faulting would stand an excellent chance of disclosing extensions of the ore shoots from above, as well as a fair chance of discovering blind ore shoots.

An exploration program similar to the applicant's entailing incline shaft work, crosscutting, drifting, and long-hole drilling, to be done in two stages at a total estimated cost of $40,559.51, is recommended.

RECOMMENDATION

It is recommended that the application be approved as modified herein.

LOCATION AND ACCESSIBILITY

The Garfield property is located in secs. 26 and 35, T. 4 N., R. 21 E., Boise meridian, Blaine County, Idaho (figs. 1 and 2). The principal adit-level workings, at the Eagle Bird tunnel, are at an altitude of 9,100 feet, near the head of Garfield Canyon, which drains southwestward out of the Pioneer Mountains. The mine may be reached by about 31 miles of County and Forest Service roads either northeastward from Bellevue, Idaho, or northward from Carey, Idaho. The road from Carey to its junction with the road from Bellevue at the Muldoon Ranch, a distance of about 15 miles, is kept open most of the winter but the road from Bellevue to Muldoon Junction and the road from Muldoon to the mine are ordinarily impassable following the first heavy snowfall.

COMPETENCY OF APPLICANT

Mr. Verne L. McGowan, president of the corporation, visited the office of the Geological Survey when he submitted the application. He impressed us as being capable of overseeing an exploration project. Mr. McGowan has a B.S. in geology but nothing is known of his mining experience. Howard L. Waldron, vice-president of the corporation, is a graduate mining engineer. The application states that both Mr. McGowan and Mr. Waldron will supervise the proposed work.

DESCRIPTION OF THE PROPERTY

The property lies on the steep southwestern slopes of the Pioneer Mountains, only about 750 feet below the crest of the range. The surface in the vicinity of the mine openings is generally

covered with talus and soil but the underlying limestone crops out in places. A steep, winding Jeep road, with many switchbacks, ascends from the Garfield Ranger Station, near the mouth of Garfield Canyon at an altitude of about 6,600 feet, to the mine at an altitude of 9,100 feet in a distance of 4 miles. The surface was covered with snow so that only the workings shown on plates 1, 2, and 3 were seen and examined. The main adit consists of approximately 780 feet of crosscutting and drifting from which three stoped areas extend upward and range in size from 20 to 50 feet in length, 2 to 20 feet in width, and 50 to 150 feet in height. An inside inclined shaft has been sunk to a reported depth of 90 feet but at the time of the examination was filled with water to within 48 feet of the collar. Facilities and equipment on the property consist of track in the adit workings, two mine cars, old air and water lines, compressor shed, and an old air hoist and water pump. According to Mr. McGowan, the air and water lines and track are in excellent condition but the grade of the track from the portal to the collar of the inside shaft is reported too steep for convenient tramming.

APPLICANT'S PROPERTY RIGHTS

Viking Mines, Inc., controls the John A. Logan and Eagle Bird patented claims by assignment from Verne L. McGowan, president of the corporation. Mr. McGowan has an assignment of lease with option to purchase from Fred and Opal Shirts, husband and wife, and Arne C. and Frances Friestad, husband and wife, all of Hailey, Idaho, who in turn jointly have a lease with option to purchase the property from Lawrence F. and Julia Heagle, husband and wife, of Hailey, Idaho, owners in fee simple.

These claims constitute only a small part of the Garfield claim group which includes a total of 21 claims and fractions of claims, and a millsite. The location of the claims is described in U. S. Consolidated Survey No. 1404. As can be seen on figure 2, traced from a sketch accompanying the application, the proposed work falls well within the limits of the ground controlled by the applicant.

GEOLOGY

The Garfield mine is in the Little Wood River mining district, a small district known mostly for silver-lead deposits. Mining activity was most intense in the 1880's during which period the principal producer, the Muldoon mine, yielded about $200,000 in silver-lead ore. The geology of the district and of its three better known mines--the Garfield, the Muldoon, and the Idaho-Muldoon--is described in the following publications:

Anderson, A. L., and Wagner, W. R., 1946, A geological reconnaissance in the Little Wood River (Muldoon) district, Blaine County, Idaho: Idaho Bureau of Mines and Geology Pamphlet 75, 22 p., 4 figs., 2 pts.

Umpleby, J. B., 1917, Geology and ore deposits of the Mackay region, Idaho: U. S. Geol. Survey Prof. Paper 97, 133 p., 20 pts., 14 figs. (p. 106-110 and fig. 14, by E. H. Finch, apply directly to the Muldoon district).

Anderson and Wagner devote about a page of text and one figure to the Eagle Bird tunnel of the Garfield mine; Umpleby does not discuss the Garfield. Background material concerning the history and geology of the Garfield mine, in addition to the cited publications, can be found in an unpublished report by Arthur Lakes, entitled, "Preliminary report on the Garfield mining group, Muldoon mining district, Blaine County, Idaho," a copy of which was submitted with the application. The following discussion is taken freely from the aforementioned papers but it should be pointed out that information regarding the district is actually quite meager and the generalities made in this report regarding the habits and localizing controls of the deposits are very tentative.

The part of the Little Wood River district containing lead-silver deposits is principally underlain by quartzite, shale, and limestone strata of the Paleozoic Wood River(?) formation. These strata, believed to form the northeast limb of a broad anticlinal structure, predominantly strike N. 5°-20° W. and dip 30°-60° E. with some local variation from these limits. Two quartz monzonite porphyry stocks, one about half a square mile and the other about an eighth of a square mile in areal extent, and a few small acidic dikes are exposed in the area. Most of the deposits are distributed along a belt about 4 miles long and a mile or less wide, that connects and extends beyond the two quartz monzonite stocks (Anderson and Wagner, 1946, fig. 2). The deposits are especially concentrated close to each stock. The mineral belt trends northwesterly more or less parallel to the beds of the Wood River(?) formation. The Garfield deposit occurs in limestone beds at the north end of the belt, about 2,000 feet northwest of the larger stock.

The lead-silver deposits of the district occur as sulfide replacements either along steeply dipping strike-slip faults or along bedding-plane reverse slip faults in either limy or siliceous members of the Wood River(?) formation. The vein minerals include

galena with subordinate sphalerite, arsenopyrite, complex antimonides, pyrite, and in places a little chalcopyrite. In some of the replacement deposits that occur along the bedding plane faults, arsenopyrite is locally the dominant sulfide. In their oxidized portions the deposits contain cerrusite, anglesite, various iron oxide minerals, and, where arsenopyrite was oxidized, scorodite. Other than the country rock, quartz and sericite are the only prominant gangue. Alteration of the rock in and near the deposits is expressed in places as a mere softening of the normally tough dark-gray to black limestone, in other places presumably more intense hydrothermal activity has both softened and bleached the limestone to a creamy white. Where mineralization was most intense, the rocks may be silicified and sericitized. Although deposition was largely by replacement, localization of the ore shoots according to wall-rock type does not seem to have been a dominant factor. The Garfield and Idaho-Muldoon deposits occur in limestone, apparently at the same stratigraphic horizon, whereas at the Muldoon mine, by far the most productive of the three, the ore occurs as replacement bodies in quartzite and slate, particularly along a contact of quartzite with quartz monzonite(?) porphyry. Anderson and Wagner (1946, bottom p. 15) conclude that structural relationships have been the most important factors in localizing the ore shoots:

> "The localization of ore bodies appears to show a marked dependence on variations in strike and dip of the guiding faults. In the replacements along the bedding plane faults the ore shoots are apparently confined to the less steeply dipping parts of the fault zones and they pinch horizontally and probably vertically wherever the angle of dip increases. Along the drifts the ore shoots are marked by a notable deviation of the line of strike, produced by local flattening of the dip, and the resulting change of strike may be as much as 15°. The ore shoot thus conforms to a 'roll' in the wall. Development has not yet extended to the bottom of the shoots now open to inspection and the effect of any change in dip with depth cannot be observed directly, but pinching or impoverishment with increase in dip may be expected.
>
> "In the strike-slip replacements the ore shoots appear to be controlled by changes in the direction of strike, a change from N. 70° E. to N. 30° E. apparently marking a zone especially favorable for the localization of ore. Changes in the angle of dip appear to have little influence on the formation of ore shoots, although the amount of ore is somewhat greater where the dip is steepest and changes its direction from northwest to southeast or vice versa. Replacement along subsidiary fractures increases the width of the ore body."

Arthur Lakes (1946, p. 10 and Map A) concludes that the ore shoots in the Eagle Bird tunnel area are localized where certain steeply dipping faults and zones of faults intersect the less steeply dipping portions or "flats" of the reverse-slip bedding plane faults.

The silver-lead ore shoots of the district apparently are tall almost chimneylike bodies, having known plunge lengths or heights measured in the hundreds of feet, widths that commonly range between 10 and 20 feet, and strike lengths that range between 20 and 50 feet. These elongate shoots are of the form that might be expected if the ore is controlled by fault intersections. Very little information concerning the grade of the ore shoots is available but probably much ore mined in the 1800's contained around 50 percent lead and 50 ounces of silver per ton and only 1 to 2 percent zinc. The average grade of one ore shoot as it would be mined today, however, would of course be considerably lower than this.

The depth to which ore may extend in the district is unknown. The Muldoon deposit has been explored underground with seven levels over a vertical interval of at least 500 feet. Much of the ore in the upper levels is reported to have contained 50-70 percent lead and 45 ounces silver per ton. However, exposures in the lowermost two levels, none of which are of ore grade, are reported to have consisted largely of disseminated grains of galena and pyrite in quartzite. Although it is possible that the bottom of the Muldoon ore body was reached in these lower levels, it is also possible that these workings merely explore a zone where structural conditions were not conducive to ore deposition. In any event, facts from one mine are not sufficient to draw generalizations regarding the entire district. Anderson and Wagner (1946, p. 17) found no vertical variation in texture or mineral composition in the deposits. The presence of considerable arsenopyrite in some of the deposits might indicate temperature zoning and signify that at greater depths the deposits will go over largely to pyrite and arsenopyrite with but little lead and silver. However, too little is known about the distribution of the arsenopyrite to draw any conclusion. Inasmuch as there is little evidence of mineral zoning or of wallrock control, and as there is good evidence that the ore shoots are controlled by structural features, there is no reason why shoots of silver-lead ore cannot occur at greater depths than are known to date. It is a practical certainty, however, that, individually, the known ore shoots will bottom where controlling structural features become unfavorable, but at the same time it is equally as certain that other ore shoots will occur at greater depths where the structural conditions again become favorable.

Plate 2 of this report is a tracing, with minor additions, of a photostat submitted with the application. This map gives an excellent and accurate picture of the geology of the Eagle Bird tunnel level. Reportedly it was made in 1950 by Q. F. Treceder and J. K. Jones who, at that time, were geologists for the International Smelting and Mining Company. Presumably the assay data shown on plate 2 are the returns on samples taken by Treceder and Jones. The results of the samples taken by the DMEA examiners are plotted on plate 1, which shows the approximate outlines of the stopes off the Eagle Bird level and the work recommended as a result of the examination.

The Eagle Bird tunnel and associated workings are in medium- to thick-bedded dark blue-gray to black, locally siliceous, limestones. The beds strike between N. 15°-45° W., averaging about N. 20° W., and dip between 32°-55° NE., averaging about 45° NE. Ore sulfides, chiefly galena, arsenopyrite, a little very dark sphalerite and chalcopyrite, occur along three sets of faults or fractures: (1) northwesterly reverse-slip bedding plane faults, (2) westerly to northwesterly strike-slip faults, and (3) northeasterly strike-slip faults (pl. 2). The bedding plane faults generally are parallel to the beds but locally cross the bedding planes either by change in strike or dip or both. Except where mineralized or crossing bedding planes, these faults usually are weakly expressed and nearly indiscernible. The westerly to northwesterly faults dip steeply in either direction, generally between 80°-90° and tend to be vertical. Because they cross the bedding and usually consist of zones of fractured and gouged rock that is locally bleached and/or stained with iron oxides, these faults are comparatively easy to observe. The northeasterly strike-slip faults are vertical or very steep-dipping. Where seen, they usually consisted of a series or zone of think, parallel, closely-spaced fault strands containing from a fraction to 3-4 inches of broken rock, gouge, and sulfides. The rock between the individual faults may or may not be broken and may or may not be mineralized.

Although all three sets of faults contain sulfides, the only known ore occurs along and near two distinct zones of bedding plane reverse-slip faults (pl. 1, 2, and 3). Stopes 1, 2, and 3 were developed on three distinct ore shoots occurring along one such zone and the "D" bed cut was made on an ore shoot occurring along another. Regarding the ore-bearing zone of bedding plane faults in the Eagle Bird workings, Anderson and Wagner (1946, bottom p. 17) flatly state, "It (i. e., the fault) is barren where the dip is relatively steep and contains ore where the dip drops to 35° or 40°." Although this relationship may exist, Treceder and Jones' mapping (pl. 2) shows that the ore shoots probably are controlled to an

equally great or greater extent by intersection of the reverse-slip bedding plane faults with vertical or steeply dipping strike-slip faults.

The shapes and potential sizes of the ore shoots are not completely known. Fair to good ore remains in the hanging wall and footwall, sides and backs of all the stopes and is also exposed in the walls and sills of the tunnels beneath the stopes. From examination of stopes 1 and 2 and the "D" bed cut, it can be concluded that these shoots are roughly tabular and are elongate in height or plunge length compared to strike length. The stopes range from 5 to 12 feet wide, averaging perhaps 8 feet, have strike lengths of from 10 to 45 feet, and known rake lengths of from 80 feet in the No. 1 stope to at least 200 feet in the No. 2 stope (measured from water level in the incline shaft to the surface). The rake of these ore shoots is approximately 90° and the shoots plunge more or less directly down the dip of the zone of bedding plane slips. This would be expected if the ore is localized by normal (right angle) intersections of the bedding plane slips with essentially vertical northeasterly trending strike slip faults.

The ore shoot at the No. 3 stope is more irregular in shape than those at stopes 1 and 2, and in general may be more chimney-shaped, particularly near the tunnel level. This might be due to the effect of the intersection of a prominent westerly trending fault with the favorable zone of bedding plane slips. Measurements on the tunnel level indicates that this cross fault ranges in dip between 80° N. and 80° S. and probably has an average dip nearly vertical.

If the zone of bedding plane slips have an average dip of 40° and the ore shoot is localized by the oblique intersection of this zone with the westerly trending vertical cross fault, then the trace of the long axis of the ore shoot should be westerly, the rake should be 45° to the southeast, and the plunge 27° east. Development to date, however, indicates an axial trace of S. 75° to 80° W., a rake of 65° and a plunge of 35°. Possibly the "vertical" cross fault dips moderately northward rather than vertically as the tunnel level measurements indicate.

Ore minerals occur in the walls of the stopes both as scattered grains and as irregular to tabular-shaped bodies of nearly pure sulfides (chiefly galena). The sulfide masses range in size from mere wisps up to lenticulate masses 2 or 3 feet wide that may extend for dozens of feet along strike and down plunge but which generally are of smaller dimensions. They are more or less parallel to the zone of bedding plane slips and show a tendency to be widest near the hanging wall and footwall of the zone. Although some of the rock within the zone of a shoot is no doubt barren or below ore grade, probably much more than half of the material taken from the stopes was of direct shipping grade.

Primarily because of time limitations, only 6 samples were taken by the examiners. These were cut from comparatively narrow portions of the stope walls, partly because of accessibility, but also because it was felt that the wider portions of the stopes speak for themselves. The results are tabulated below.

Sample No.	Width (ft.)	Ag (oz./ton)	% Pb	% Zn	% As	% Sb
EWP- 8B	1.5	15.2	18.6	1.6	4.46	3.8
EWP- 9B	3.8	13.2	17.2	0.7	3.92	3.35
EWP-10B	3.2	16.4	15.5	1.8	2.53	0.22
EWP-11B	4.2	27.7	14.7	0.5	0.14	0.25
EWP-12B	2.0	14.2	11.7	12.6	0.58	0.33
EWP-13B	3.2	1.3	1.4	0.0	36.2	0.88

Samples No. EWP-8B, -9B, -10B, and -11B (pl. 1) were taken from oxidized portions of the veins. These samples indicate commercial grades and widths of silver-lead ore. Actually, due to incomplete exposures, the sample widths shown are probably somewhat less than the width of the veins at these locations. The ore in the oxidized zones is generally made up of iron-stained limestone containing varying amounts of galena, cerussite, anglesite, and scorodite. At sample locality EWP-11B, the ore appeared to consist entirely of oxidized minerals and iron-stained limestone. Sample EWP-12B, cut below the zone of oxidation in a band of galena-sphalerite ore, was taken from one of the narrower portions of a small stope that averages about 5 feet in width. Sample EWP-13B, cut from the north wall of the inclined shaft in a band of grayish-white sulfide, proved to be principally arsenopyrite.

MERIT OF THE PROPERTY

The ground to be explored contains at least four distinct ore shoots from which the combined total production is estimated to have been in the order of 4,000 tons of material containing an average of 10 ounces silver per ton, 8 percent lead, and 5 percent zinc. Locally, within a given ore body, the grade probably far exceeded these figures. These ore shoots have been explored on plunge length to depths from as little as 8 or 10 feet at the "D" bed cut, to at least 200 feet at the No. 2 stope ore body. Although the lower portion of the inclined shaft on the No. 2 ore body is under water, in no case is the present development known to have disclosed the bottom of an ore shoot. Geologic information regarding the property or the district is insufficient to infer either improvement or impoverishment of the ore shoots at additional depths. Additional exploration below the known ore shoots by drifting along the favorable

zones of bedding plane slips would stand an excellent chance of disclosing extensions of the ore shoots from above, as well as a fair chance of discovering blind ore shoots. Because very little is known concerning the probable persistence of the favorable structures, it would not be prudent to explore them in plunge length increments of much more than 150-200 feet. For such exploration the Eagle Bird tunnel (9100 level), with its inclined shaft on the No. 2 ore body, provides an almost optimum approach. The favorable zones of bedding plane slips could be economically and thoroughly explored below the Nos. 1, 2, and 3 ore shoots by rehabilitating and extending the incline shaft to the desired depth and thence by crosscutting and drifting to the projections of the targets. The "D" bed ore shoot could be most economically tested by diamond drilling or long-hole drilling from the Eagle Bird crosscut northeast (XCNE) (pl. 3). Due to an incomplete knowledge of the rakes, especially of the No. 3 and "D" bed ore bodies, to splits in the zones of bedding plane slips, and to crossfaulting, it is probable that there will be some difficulty in correlating structures and ore shoots on one level with those on another.

PAST OPERATION

The Garfield mine was discovered in the 1880's and has been worked intermittently since, the latest work terminating in 1953. There is a record of 3,325 tons of ore having been produced and shipped from 1947 to 1953. It is estimated that possibly 700 tons were shipped prior to 1947 making a total of about 4,000 tons. This ore probably contained an average of 8 percent lead, 5 percent zinc, 10 ounces silver per ton, together with appreciable arsenic and antimony.

SUPPLIES AND EQUIPMENT

Materials, supplies, and equipment are available to some extent in Hailey, Idaho, in Salt Lake City, Utah, 342 miles southeast, and in Boise, Idaho, 235 miles west. Labor is available locally with wages starting at about $17 per day. The mine workings from the winze may make a small amount of water but domestic and drill water will probably have to be hauled from a lower elevation. Mining equipment will need to be powered by gasoline or diesel engines.

APPLICANT'S PROPOSAL

The applicant's proposal is cited herewith exactly as it was presented in the application:

"(1) Forty (40) hours of bulldozer operation for road rehabilitation and snow removal on last 3 miles of mine road.

"(2) Rehabilitation of existing winze (extension of Stope No. 2) prior to sinking. This includes support as needed, laying track, drainage (dewatering), installing haulage system with station, etc. Note: Winze is reported to be 60'-90' down. It is flooded below 50' so exact length will not be known until dewatered.

"(3) Sinking an inclined winze (extension of existing one) to a depth of 160', plus 10' for sump, making 170' total stope distance from tunnel level. Winze to be on footwall of mineralized bedding and 5' x 9' in rock cross section.

"(4) 150' of crosscutting and drifting Northeast on bedding on the 160' level to intercept extension of Big Stope ore body. Drift to be 5' x 7' in rock cross section.

"(5) Diamond drilling on surface above "D" bed to intercept ore at various depths and determine rake of ore shoot prior to interception at tunnel level. Three holes (if necessary) for total of 600' of diamond drill hole. *See sketch map.

"(6) Cutting and assaying of 50 samples (Pb, Ag, Zn, As) over exploration project as work progresses.

"(7) Timbering of drifts and/or crosscuts if needed in project.

"(8) 200' of longhole drilling in project workings as needed.

"(9) Rehabilitate haulage adit (due to an adverse grade) by lifting track and pulling down back for fill to halfway point and cutting other half (cut and fill) to achieve ½% (.5%) grade for hand tramming efficiency.

OR

"Alternate Plan: Rehabilitating the second stope (winze stope) and installing haulage system for hauling straight through to the surface."

APPLICANT'S ESTIMATED COSTS

The applicant's estimated costs for the proposed project are quoted below.

"(1)	40 hours of bulldozer operation for road rehabilitation and snow removal @	$12.00 pr. hr.	$ 480.00
"(2)	Rehabilitation of winze prior to sinking - 60' @	25.00 pr. ft.	1,500.00
"(3)	Sinking 110' of inclined winze (5' x 9' in rock cross section) @	85.00 per ft.	9,450.00
"(4)	Crosscutting and drifting on 160' level - 150' @	42.50 pr. ft.	6,375.00
"(5)	Diamond drilling on surface to intercept "D" bed - 600' @	7.75 pr. ft.	4,650.00
"(6)	Samples for assay - 50 @	6.00 pr. sample	300.00
"(7)	Timbered drifts and/or crosscuts as needed - 100' @	7.50 pr. ft.	750.00
"(8)	Longhole drilling as needed - 200' @	4.00 pr. ft.	800.00
"(9)	Adit rehabilitation of track grade to facilitate hand tramming - 255' @	12.50 pr. ft.	3,187.50
	Total cost		$27,492.50"

DISCUSSION OF THE APPLICANT'S PROPOSAL

The program proposed by the applicant is basically sound in that it will explore moderately promising structures at modest depths by acceptable methods at a cost commensurate with the potential of the targets. One hundred and fifty feet of crosscutting and drifting northwesterly from the bottom of the winze (8940 level) would be sufficient to test the ground beneath the No. 3 ore shoot. It might not, however, suffice to test adequately both the No. 3 ore shoot and the No. 2 ore shoot, for these ore bodies may not be in the same zone of bedding plane slips (pl. 2). As much as 40 or 50 feet of crosscutting may be needed to carry the exploration from the zone of the No. 2 ore body to the zone of the No. 3. Furthermore, once the 8940 level is attained, it would be desirable to explore the No. 2 ore shoot to its southeasterly limit and inasmuch as this work

would probably advance the drift heading to within 50 feet or less of the No. 1 ore shoot, it would be a prudent investment to continue the drift an additional 50 feet or so in order to catch the downward projection of the No. 1 ore shoot as well.

Diamond drilling from the surface to test the "D" bed ore shoot appears an unnecessarily expensive approach. The same intersections on the "D" bed could be more easily obtained with less footage by long-hole drilling from the 9100 level XCNE workings (pl. 1 and 3), saving not only in footage drilled but also in cost per foot for drilling underground. It should also be noted at this point that a good test of the "D" bed, though rather far down-plunge from the surface exposure, can be made cheaply from the face of the XCNE with a few long holes (pl. 1 and 3).

The rehabilitation of the Eagle Bird tunnel by reducing the track grade as the applicant proposes is probably not justified. Mr. McGowan admits that the track is in excellent condition throughout the mine. Apparently the only basis for his request is the report of local miners that tramming in the Eagle Bird was difficult due to the steep grade. This fact does not, however, seem to have prevented operations in the past and for the purposes of DMEA-supported exploration, the present grade should suffice.

As an alternate to reducing the track grade, the applicant has suggested installing a haulageway in the No. 2 stope for hoisting from the incline shaft straight through to the surface. In that the Eagle Bird tunnel provides tramming capacity adequate for the scope of the proposed DMEA project, there would be no purpose in this rather expensive alternative.

RECOMMENDED EXPLORATION PROJECT

The recommended project should be done in two stages, the first to include rehabilitation and extension of the incline shaft to a slope distance of 170 feet below the 9100 level, cutting an 8940 level station, 250 feet of drifting and crosscutting from the 8940 station, and 600 feet of long-hole drilling. Stage 2 would consist of 300 feet of crosscutting and drifting and 200 feet of long-hole drilling to be used in exploring the "D" bed ore shoot should the results of long-hole drilling under Stage 1 indicate the work is warranted.

Stage 1

1. Rehabilitate the incline shaft to a probable depth of 90 feet (includes pumping, mucking, installing necessary timber and skip track, as well as hoist and skip dump.

2. Extend the incline to a depth of 170 feet on the incline below the 9100 sill level. Timber as needed.

3. Cut an 8940 level station (allowing a 10-foot sump) and timber as needed.

4. Drift and crosscut from the 8940 station approximately 125 feet northwesterly and 125 feet southwesterly along and near the favorable zone of bedding plane slips. The No. 3 ore shoot may be encountered quite close to the toe of the winze as its rake, probably to the southeast, is uncertain. About 250 feet of Stage 1 long-hole drilling would be used during the 8940 level work to guide crosscutting and to test the drift walls for undisclosed ore.

5. To test for the "D" bed ore shoot at the 9100 level, drill 5 long holes from locations in the KCNE on bearings and inclinations approximately as shown on plates 1 and 3. If these holes indicate promising ground, enter into Stage 2 crosscutting and drifting.

6. Allowance for 50 assays (including core and sludge samples) for silver, lead, and zinc. Antimony and arsenic should be determined in 50 percent of the samples as these metals usually are penalty items at the smelters.

7. Forty hours of D-6 or its equivalent bulldozer work should be included for road work and snow removal.

Stage 2

1. A maximum of 300 feet of crosscutting and drifting from the north end of the 9100 KCNE to reach and explore the "D" bed ore zone. Timber where needed.

2. Two hundred feet of long-hole drilling.

3. Allowance for 20 assays for silver, lead, zinc, antimony, and arsenic.

Stage 2 work would be done only upon prior approval of and to the extent authorized by the Government, and would depend upon the results of long-hole drilling under Stage 1.

The work would start on or before July 15, 1958, and would be completed by November 15, 1959. This would include one winter recess.

ESTIMATED COSTS OF PROJECT

It will be noted that the footage for rehabilitation and sinking of the winze totals 210 feet, or more than the 170 feet which will be the final depth of the winze. This is because the present depth of the winze is not known so sufficient footage has been allowed to cover the maximum that might be necessary.

The applicant engineer's report with recommendations, attached to Mr. McGowan's letter dated January 13, 1958, was received after a cost analysis had been made on the project. The project recommended by the examining team was not altered due to the receipt of the above mentioned report. The following is a note on each item in the report:

1. Five days bulldozer operation is considered to be adequate as the road presently is in good condition and a winter recess was allowed for in case of severe winter weather.

2. No rehabilitation of the adit or 9100 level (zero level) is considered in this project. This work would be preparation for ore extraction.

3. Rehabilitation of the winze as proposed and as recommended is essentially the same.

4. Sinking the winze to a point 200 feet below the collar on dip slope is considered to be too much of an advance when so little is known of the characteristics of ore shoots in this deposit.

5. Drifting from the 160 level in the winze should advance both ways so as to explore shoot 1 as well as shoots 2 and 3.

6. Raising on narrow ore shoots such as are found on this property is considered to be mining and not exploration.

7. Drifting on the 9100 level (zero level) would be in Stage II and then only if indications of ore are found in long hole drilling and to the extent authorized by the Field Team.

8.-12. No diamond drilling would be done for the present as long hole drilling can provide the information.

OPERATING EQUIPMENT

The applicant owns or will secure the equipment to be used on the proposed exploration project. Equipment needed is listed below:

(A)

	Value	Monthly Depreciation
Air compressor, 365 cfm	$6,240.00	$104.00
2 sinker type drills w/legs	1,080.00	18.00
2 mine cars	400.00	6.67
Hoist, 3000# capacity	1,580.00	26.33
2 air pumps, IR-35	1,090.00	18.17
Fan TM-5	300.00	5.00
Skip - used	300.00	5.00
Portable grinder, LSR-6	185.00	3.08
Truck - used	1,200.00	20.00
Air receiver	300.00	5.00

REHABILITATION OF WINZE (5'X8') AND TOP INSTALLATION

Estimated depth of winze 100 feet.
Estimated advance 8 feet per day or 12.5 days, plus 5.5 days for top station and bin installation = 18 days or 0.9 month.
Timber in winze to consist of stulls to hold track and ladders.

1. Independent contracts — none

2. Labor and Supervision — 0.7 — 420.00
   - 1 supervisor @ $600.00/mo. - 0.9 mo. 9 — $ 540.00
   - 2 miners @ 18.00/day - 18 days — 648.00
   - 1 helper @ 17.00/day - 18 days — 306.00
   - Total (5 day week - no overtime) — $1,494.00

3. Operating Materials and Supplies (no salvage)
   - Diesel oil (compressor), 15 gal/day
     18 days @ $0.22/gal — 59.40
   - Gasoline (truck), 5 gal/day
     18 days @ 0.35/gal — 31.50
   - Grease, lub. and comp. oil, 20% of fuel cost — 18.18
   - Timber
     - Stulls - 40, 8"x8' @ $1.35/ea. — 54.00
     - 240' - 4"x6" 480 bf
     - 4 - 8"x8"x16' 341 bf
     - 30 - 2"x12"x12' 720 bf
     - 1541 bf @ $70/M — 107.87
     - 100' ladders @ $1.35/ft. — 135.00

45.00

3. Operating Materials and Supplies (continued)

Wire rope - 300 ft. @ $0.19/ft. (1/2")	57.00	
Nails - 20 lbs. @ $0.15/lb.	3.00	
Air hose - 1"x50' @ $44.00/ea.	44.00	
Water hose - 1/2"x50' @ $25.00/ea.	25.00	
Small tools	35.00	
Steel - set 2', 4' and 6' @ $21.85/set	21.85	
Bits (carbide) - 2 @ $15.00/ea.	30.00	
Explosives - 10 lb. dynamite plus caps and fuse	4.00	625.80

Operating Materials and Supplies (50% salvage)

Air line, 100 ft. 2" @ $0.43/ft.	43.00	
Water line, 100 ft. 1" @ $0.20/ft.	20.00	
Pump column, 100 ft. 2" @ $0.43/ft.	43.00	
Pipe fittings - 20% of pipe	21.20	
Track and accessories, 16#, 240 ft. = 1280 lb. @ $12/100 plus 20%	184.32	
Ventube - 125 ft. @ $1.08/ft.	135.00	
Sheave wheel - 16" @ $40.00 - used	40.00	
1 line oiler and hose @ $31.55	31.55	
	518.07	
Less 50% salvage	259.04	259.04
Total - Category 3		884.84

4. Operating Equipment to be Furnished - 0.9 mo.

Compressor @ $104.00/mo.	93.60	
Sinker type drill w/leg @ $9.00/mo.	8.10	
2 mine cars @ $6.67/mo.	6.00	
Truck @ $20.00/mo.	18.00	
Hoist @ $26.33/mo.	23.70	
2 air pumps @ $18.17/mo.	16.35	
Skip @ $5.00/mo.	4.50	
Air receiver @ $5/mo.	4.50	
Bit grinder @ $3.08/mo.	2.77	
		177.52

5. Rehabilitation - other — none

6. New buildings and improvements — none

7. Miscellaneous

Unemploy. comp., Indust. insur., etc. 14.9% of payroll ($1,494.00)	222.61

Total cost of rehabilitating 100 feet of shaft and making the level installation — $2,778.97

Cost per foot - $27.79 SAY - $27.80

WINZE

Sink to point 170 feet on incline below collar, including 10-ft. sump, for possible total of 110 feet of sinking; rock section to be 5'x8' in clear with stulls to hold track and ladders, and timbered with lagged sets if needed.
Estimated advance: 1½ feet per shift - 73 days or 3.65 months.

1. Independent contracts — none

2. Labor and Supervision

1 supervisor @ $600.00/mo. - 3.65 mo.	$2,190.	
2 miners @ 18.00/day - 73 days	2,628.	
1 hoistman-mechanic @ 18.00/day - 73 days	1,314.	
1 helper @ $17.00/day - 73 days	1,241.	
		$7,373.00

3. Operating Materials and Supplies (no salvage)

Drill bits - 7 @ $15.00/ea.	105.00	
Drill rods - 7 @ 9.10/ea.	63.70	
Powder - 1500 lbs. @ 23.00/100	345.00	
Electric blasting caps - 525 @ $0.35/ea.	183.75	4.93/ft.
Blasting wire - 1000 ft. @ $14/M	14.00	
Diesel oil (compressor) - 1460 gal. @ $0.22/gal.	321.20	@ 5 gals/day
Gasoline (truck) - 350 gal. @ $0.35/gal.	122.50	
Grease, lub. and comp. oil - 20% of fuel	88.74	
Timber - stulls, 44 - 8"x8' @ $1.35/ea.	59.40	
260' - 4"x6" 520 bf		
4 - 8"x8"x10' 213 bf		
10 - 2"x12"x10' 200 bf		
933 bf @ $70/M	65.31	
Nails - 25 lbs. @ $0.15/lb.	3.75	
Repair parts @ $0.75/ft.	82.50	
Ladders - 110 feet @ $1.35/ft.	148.50	
		1,603.35

1460/73 = 20 gals/day
20/5 = 4.5 hrs.
8 hrs. equivalent

Operating Materials and Supplies (50% salvage)

Air line, 100 ft. 2" @ $0.43/ft.	43.00	
Water line, 100 ft. 1" @ $0.20/ft.	20.00	
Pump column, 100 ft. 2" @ 0.43/ft.	43.00	
Pipe fittings - 20% of pipe	21.20	
Track - 220 ft. 16# - 1173 lbs. @ $12/100	140.76	
Fish plates, bolts, spikes - 20% of track	28.15	
Ventube - 100 ft. @ $1.08/ft.	108.00	
Water tank	50.00	
	454.11	
Less 50% salvage	227.06	227.06
Total - Category 3		1,830.41

4. Equipment to be Furnished - 3.65 mo.

Compressor	@ $104.00/mo.	379.60	
2 sinker type drills w/legs	@ 18.00/mo.	65.70	
2 mine cars	@ 6.67/mo.	24.35	
Hoist	@ 26.33/mo.	96.10	
2 air sump pumps	@ 18.17/mo.	66.32	
Fan	@ 5.00/mo.	18.25	
Skip	@ 5.00/mo.	18.25	
Truck	@ 20.00/mo.	73.00	
Air receiver	@ 5.00/mo.	18.25	
Bit grinder	@ 3.08/mo.	11.24	
			$ 771.06

5. Rehabilitation and repairs — none

6. New buildings and improvements — none

7. Miscellaneous
   Unemploy. comp., Indust. insur., etc.
   14.9% of payroll ($7,373.00) — 1,098.58

Total cost of sinking 110 feet — $11,073.05

Cost per foot - $100.66 SRY - $100.70

$81.00

Approved

WINZE TIMBERING

Timbering as needed in the winze.
Estimated 30 feet will require timber and will use 7 - 5-piece tight lagged sets spaced 5 feet center to center.
Advance: 3 sets per day or 2.5 days - 0.125 months.

1.	Independent contracts		none
2.	Labor and Supervision		
	2 miners @ $18.00/day - 2.5 days	$ 90.00	
	1 helper @ 17.00/day - 2.5 days	42.50	
	1 hoistman @ 18.00/day - 2.5 days	45.00	
			$ 177.50
3.	Operating Materials and Supplies		
	Diesel fuel (compressor) 20 gal/day - 2.5 days @ $0.22/gal.	$ 11.00	
	Gasoline (truck) 15 gal. @ $0.35/gal.	5.25	
	Grease, lub. and comp. oil - 10% of fuel	1.63	
	Timber - 240' - 8"x8" 1280 bf		
	Lagging - 110 - 2"x12"x5.5' 1210 bf		
	Blocks - 30 - 8"x8"x12" 160 bf		
	Spreaders - 24 - 4"x4"x4.5' 144 bf		
	2794 bf @ $70/M	195.58	
	Wedges - 70 @ $0.03/ea.	2.10	
			215.56
4.	Operating Equipment - to be Furnished - 0.125 mo.		
	Compressor @ $104/mo.	$ 13.00	
	Hoist @ 26.33/mo.	3.29	
	Mine car @ 3.33/mo.	.42	
	2 air pumps @ 18.17/mo.	2.27	
	Fan @ 5.00/mo.	.63	
	Skip @ 5.00/mo.	.63	
	Truck @ 20.00/mo.	2.50	
	Air receiver @ 5.00/mo.	.63	
	Bit grinder @ 3.08/mo.	.39	
			23.76
5.	Rehabilitation and repairs		none
6.	New buildings and improvements		none
7.	Miscellaneous		
	Unemploy. comp., Indust. insur., etc. 14.9% of payroll ($177.50)		26.45
	Total cost for 30 feet of timber in winze		$ 443.27

Cost per foot - $14.77 SAY - $14.80

ok

DRIFT AND CROSSCUT

Drift and crosscut from bottom of winze (160 level); drive approximately 125 feet northerly and 125 feet southerly along mineralized formation to explore area below stopes on 9100 level.
Rock section 5'x7' in clear.
Estimated advance: 3.5 feet per shift - 72 days - 3.6 months. ?
Timber as needed.

1. Independent contracts — none

2. Labor and Supervision

1 supervisor @ $ 6,00/mo. - 3.6 mo.	$2,160.00	
2 miners @ 18.00/day --72 days	2,592.00	
1 hoistman-mechanic-timber framer @ 18.00/day - 72 days	1,296.00	
1 trammer @ 17.00/day - 72 days	1,224.00	
Total (5 day work week - no overtime)		$7,272.00

3. Operating Materials and Supplies (no salvage)

Drill bits - 13 @ $15.00/ea.	$ 195.00	$1.25/ft.
Drill rods - 13 @ 9.10/ea.	118.30	
Powder - 2150 lbs. @ 23.00/100	494.50	$2.49/ft.
Caps - 950 @ 0.025/ea.	23.75	
Fuse - 7700 ft. @ 13.50/M	103.95	
Diesel fuel (comp.) 20 gal/day - 72 days @ $0.22/gal.	316.80	
Gasoline (truck) - 300 gal. @ $0.35/gal.	105.00	
Grease, lub. and comp. oil - 10% of fuel	42.18	
Air hose, 1"x50' @ $44.00/ea.	44.00	
Water hose, 1/2"x50' @ $20.00/ea.	20.00	
Repair parts - 250 ft. @ 0.75/ft.	187.50	
Ties - 167 @ 0.35/ea.	58.45	
		1,709.43

Operating Materials and Supplies (50% salvage)

Air line - 200 ft. 2" @ $0.43/ft.	$ 86.00	
Water line - 200 ft. 1" @ 0.20/ft.	40.00	
Pipe fittings - 20% of pipe	25.20	
Track, 500 ft. - 167 x 16 - 2672 @ $12/100	320.64	
Fishplates, bolts, spikes - 20% of track	64.13	too often
Line oiler and hose @ $31.55/ea.	31.55	
Ventube - 175 ft. @ $1.08/ft.	189.00	
	756.52	
Less 50% salvage	378.26	378.26
Total - Category 3		$2,087.69

4. Operating Equipment - to be Furnished - 3.6 mo.

Compressor	@ $104/mo.	$374.40	
2 sinker type drills w/legs	@ 18.00/mo.	64.80	
2 mine cars	@ 6.67/mo.	24.01	
Hoist	@ 26.33/mo.	94.79	
2 air pumps	@ 18.17/mo.	65.41	
Fan	@ 5.00/mo.	18.00	
Skip	@ 5.00/mo.	18.00	
Truck	@ 20.00/mo.	72.00	
Air receiver	@ 5.00/mo.	18.00	
Bit grinder	@ 3.08/mo.	11.09	
			$760.50

5. Rehabilitation and repairs — none

6. New buildings and improvements — none

7. Miscellaneous
   Unemploy. comp., Indust. insur., etc.
   14.9% of payroll ($7,272.00) — 1,083.53

Total cost of drifting and/or crosscutting 250' — $11,203.72

Cost per foot - $44.81 SAY - $44.80

$42.60 See memo

TIMBERING IN DRIFTS

Timbering as needed in drifts from winze. Estimated 50 feet needed or about 25 feet on either side of winze - 12 sets spaced 5 feet center to center and lagged as needed.
Advance: 4 sets per day - 3 days or 0.15 month. ? Probably not possible.

1.	Independent contracts		none
2.	Labor and Supervision		
	2 miners @ $18.00/day - 3 days	$108.00	
	1 hoistman-mechanic @ 18.00/day - 3 days	54.00	
			162.00
3.	Operating Materials and Supplies		
	Diesel fuel (compressor) 20 gal/day - 3 days @ $0.22/gal.	13.20	
	Gasoline (truck) 15 gal. @ $0.35/gal	5.25	
	Grease, lub. and comp. oil - 10% of fuel	1.85	
	Timber - 36, 8"x8' round posts @ $1.35/ea.	48.60	
	130 - 2"x12"x5.5' lagging - 1430 bf @ $70/M	100.10	
	130 wedges @ $0.03/ea.	3.90	
			172.90
4.	Operating Equipment - to be Furnished - 0.15 mo.		
	Compressor @ $104.00/mo.	$ 15.60	
	2 sinker type drills with legs @ 18.00/mo.	2.70	
	2 mine cars @ 6.67/mo.	1.00	
	Hoist @ 26.33/mo.	3.95	
	2 air pumps @ 18.17/mo.	2.73	
	Fan @ 5.00/mo.	0.75	
	Bit grinder @ 3.08/mo.	0.46	
	Skip @ 5.00/mo.	0.75	
	Air receiver @ 5.00/mo.	0.75	
	Truck @ 20.00/mo.	3.00	
			31.69
5.	Rehabilitation and repairs		none
6.	New buildings and improvements		none
7.	Miscellaneous		
	Unemploy. comp., Indust. insur., etc. 14.9% of payroll ($162.00)		24.14
	Total for timbering 50 feet		$390.73

Cost per foot - $7.81 SAY - $7.80

STATION ON 160 LEVEL

Station on 160 level on either side of winze for 10 feet and across back of winze by widening drift to 9 feet and place station platform and timber as needed.

Cut station by enlarging drift - 4'x7'x 29' = 812 cu.ft.

(@ $44.80/ft. for 5'x7' drift equals $1.28 per cubic foot)

812 x 1.28 = @ 1.00	$1,039.36	812.00
29 feet of timber @ $7.80/ft. plus 50% for wide sets =	339.30	339.30
Total cost of preparing station on 160 level	$1,378.66	1151.30

LAYING PIPE

Lay air and water line from winze to face of crosscut on 9100 level, a distance of 325 feet.

325 feet 2" pipe @ $0.43/ft.	139.75
325 feet 1" pipe @ 0.20/ft.	65.00
Fittings @ 20% of pipe	40.95
	245.70
Less 50% salvage	122.85
Installation - 2 miners 2 days @ $18/day each	72.00
Total cost of laying 325 feet of pipe	$194.85

LONG HOLE DRILLING

Drill total of not more than 600 feet of long hole to consist of up to 350 feet in face of crosscut on 9100 level and up to 250 feet in drifts on 160 level. Holes on 9100 level to be drilled up at from 20 to 30 degrees.

600 feet of long hole @ $1.25/ft.	$750.00

ASSAYS

50 samples to be assayed for lead, zinc and silver @ $6.00/sample @ 4.00	~~$300.00~~ 200.00
25 samples to be assayed for arsenic and antimony @ $10.00/sample	250.00
	$550.00

STAGE II

In case the samples from the long hole drilling on the 9100 level indicate the presence of the extension of the D bed ore shoot, a total of not more than 300 feet of crosscut and/or drift shall be driven to prospect the ground.

Estimated advance: 4 feet/day, 75 days, or 3.75 months.

1. Independent contracts — none

2. Labor and Supervision

1 supervisor @ $600/mo. - 3.75 mo. allow for add'l extra	$2,250.00	
2 miners @ 18.00/day each - 75 days	2,700.00	
1 trammer @ 17.00/day - 75 days	1,275.00	
Total (5 day week - no overtime)		$6,225.00

3. Operating Materials and Supplies (no salvage)

Drill bits, 15 @ $15.00/ea.	225.00	
Drill rods, 15 @ 9.10/ea.	136.50	
Powder, 2650 lbs. @ $23.00/100	609.50	2.50/ft
Caps, 1125 @ $0.025/ea.	28.13	
Fuse, 9000 feet @ $13.50/M	121.50	
Ties, 200 @ $0.35/ea.	70.00	
Diesel fuel (compressor) 20 gal/day - 75 days @ $0.22/gal.	330.00	
Gasoline (truck), 300 gal. @ $0.35/gal.	105.00	
Grease, lub. and comp. oil - 10% of fuel	43.50	
Repair parts @ $0.75/ft. - 300 feet	225.00	
		1,894.13

Operating Materials and Supplies (50% salvage)

Air line, 300 ft. 2" @ $0.43/ft.	129.00
Water line, 300 ft. 1" @ 0.20/ft.	60.00
Pipe fittings - 20% of pipe	37.80
Track, 600 ft. = 200 yd. x 16 = 3200 @ $12/100	384.00
Fishplates, bolts, spikes - 20% of track	76.80

3. Operating Materials and Supplies (50% salvage)(cont.)

Ventube, 600 ft. @ $1.08/ft.	648.00	
	1,335.60	
Less 50% salvage	667.80	
		667.80

4. Operating Equipment - to be Furnished - 3.75 mo.

Compressor @ $104/mo.	390.00	
2 sinker type drills w/legs @ $18.00/mo.	67.50	
2 mine cars @ $6.67/mo.	25.01	
Fan @ $5.00/mo.	18.75	
Truck @ $20.00/mo.	75.00	
Air receiver @ $5.00/mo.	18.75	
Bit grinder @ $3.08/mo.	11.55	
		606.56

5. Rehabilitation and repairs — none

6. New buildings and improvements — none

7. Miscellaneous
   Unemploy. comp., Indust. insur., etc.
   14.9% of payroll ($6,225.00) — 927.53

Total cost of drifting and/or crosscutting 300 ft. $10,321.02

Cost per foot - $34.40

TIMBERING

Timbering as needed. Estimated 75 feet using 16 sets.
Advance: 4 sets per day or 4 days Probably cannot do so.

1. Independent contracts		none
2. Labor and Supervision		
2 miners @ $18.00/day each		$ 144.00
3. Operating Materials and Supplies		
Diesel fuel (compressor) 20 gal/day - 4 days @ $0.22/gal.	17.60	
Gasoline (truck) 20 gal. @ $0.35/gal.	7.00	
Grease, lub. and comp. oil - 10% of fuel	2.46	
Timber, 48 - 8"x8' round posts @ $1.35/ea.	64.80	
216 - 2"x12"x5.5' 2376 bf		
32 - 4"x4"x4.5' 187 bf		
150 - 8"x8"x12" 795 bf		
3358 bf @ $70/M	235.06	
150 wedges @ $0.03/ea.	4.50	
		331.42
4. Operating equipment - to be Furnished - 0.2 mo.		
Compressor @ $104.00/mo.	20.80	
Mine car @ 3.33/mo.	0.67	
Fan @ 5.00/mo.	1.00	
Truck @ 20.00/mo.	4.00	
Air receiver @ 5.00/mo.	1.00	
Bit grinder @ 3.08/mo.	0.62	
		28.09
5. Rehabilitation and repairs		none
6. New buildings and improvements		none
7. Miscellaneous		
Unemploy. comp., Indust. insur., etc. 14.9% of payroll ($144.00)		21.46
Total cost of timbering 75 feet		$524.97

Cost per foot - $7.00

LONG HOLE DRILLING

Drill a total of not more than 200 feet of long hole to probe walls of drift driven in Stage II.

200 feet of long hole @ $1.25/ft. $250.00

ASSAYING

20 samples to be assayed for lead, zinc, and silver
@ $6.00/sample 4.00/sample $120.00 80.00

10 samples to be assayed for arsenic and antimony
@ $10.00/sample 100.00

Alt. $220.00

arsenic 5.00
antimony 4.00

SUMMARY OF ESTIMATED COSTS

Stage I

Rehabilitate 100 feet of winze and top station @ $27.80/ft.		$ 2,780.00
Sink winze 110 feet @ $100.70/ft.		11,077.00
Timber winze 30 feet @ $14.80/ft.		444.00
Drift and/or crosscut 250 feet on 160 level @ $44.80/ft.		11,200.00
Timber 160 level 50 feet @ $7.80/ft.		390.00
Cut station on 160 level:		
812 cu. ft. excavation @ $ 1.28	1,039.36	
Timber station - 29 ft.@ 11.70	339.30	1.378.66
Lay air and water line to face of 9100 crosscut		194.85
Drill 600 feet of long hole @ $1.25/ft.		750.00
Assay 50 samples for Pb, Zn and Ag @ $6.00/sample		300.00
Assay 25 samples for As and Sb @ 10.00/sample		250.00
Bulldozer work on road and cleaning snow - 40 hrs. @ $12.00/hr. (D-6 or equivalent)		480.00
Total - Stage I		$29,244.51

Stage II

Drift and/or crosscut 300 feet @ $34.40/ft.	$10,320.00
Timber 75 feet of drift @ $7.00/ft.	525.00
Drill 200 ft. long hole @ 1.25/ft.	250.00
Assay 20 samples for Pb, Zn and Ag @ $ 6.00/sample	120.00
Assay 10 samples for As and Sb @ 10.00/sample	100.00
Total - Stage II	$11,315.00

Total cost of project	$40,559.51
Government participation @ 50%	20,279.75

It is recommended that the work be done on a unit cost basis.

Attachments 5

Distribution:
- DMEA (3)
- USBM (5)
- USGS (SRO)
- Docket
- Alvord

UNITED STATES
DEPARTMENT OF THE INTERIOR

PREPARED FOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Docket No. DMEA-4870

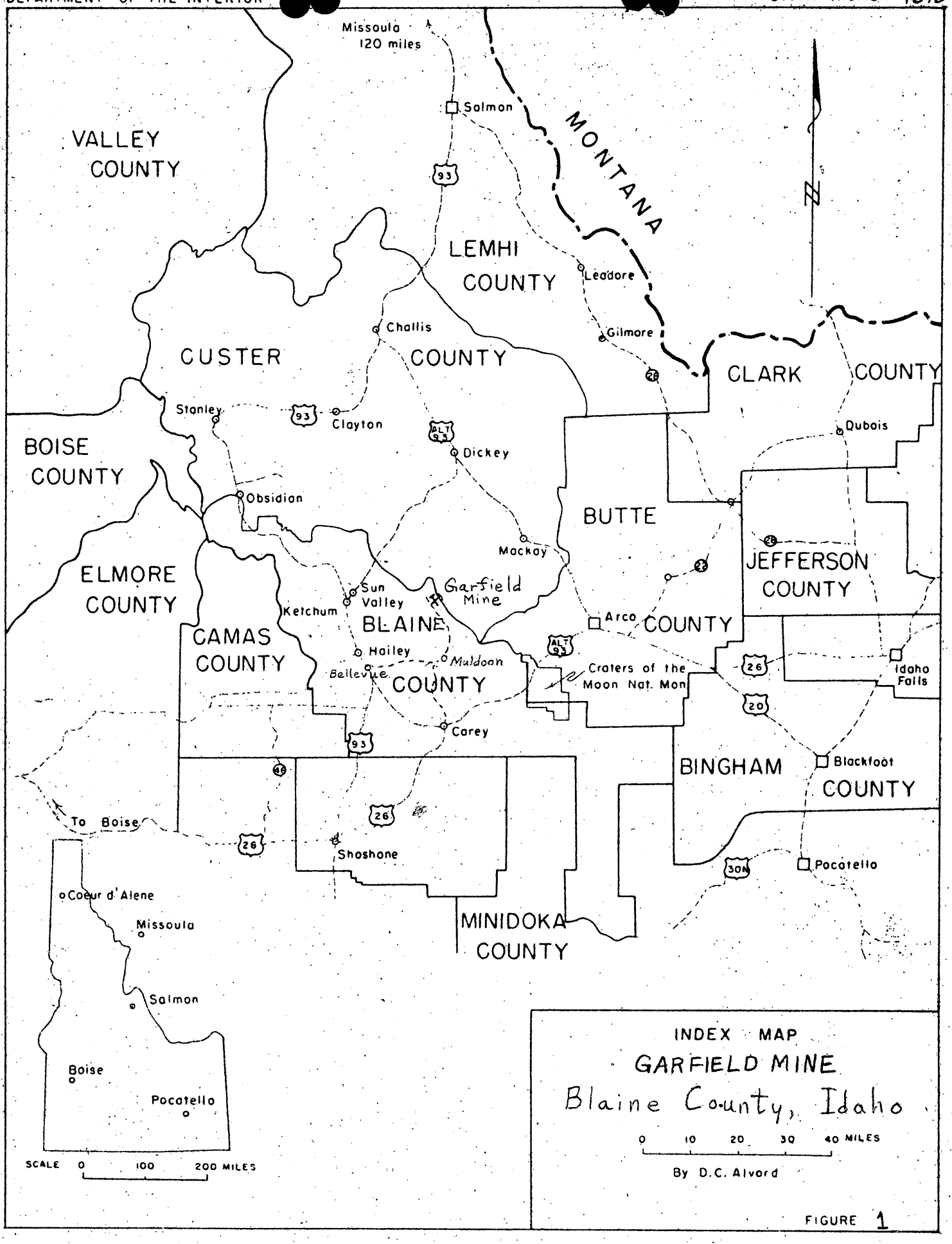


FIGURE 1

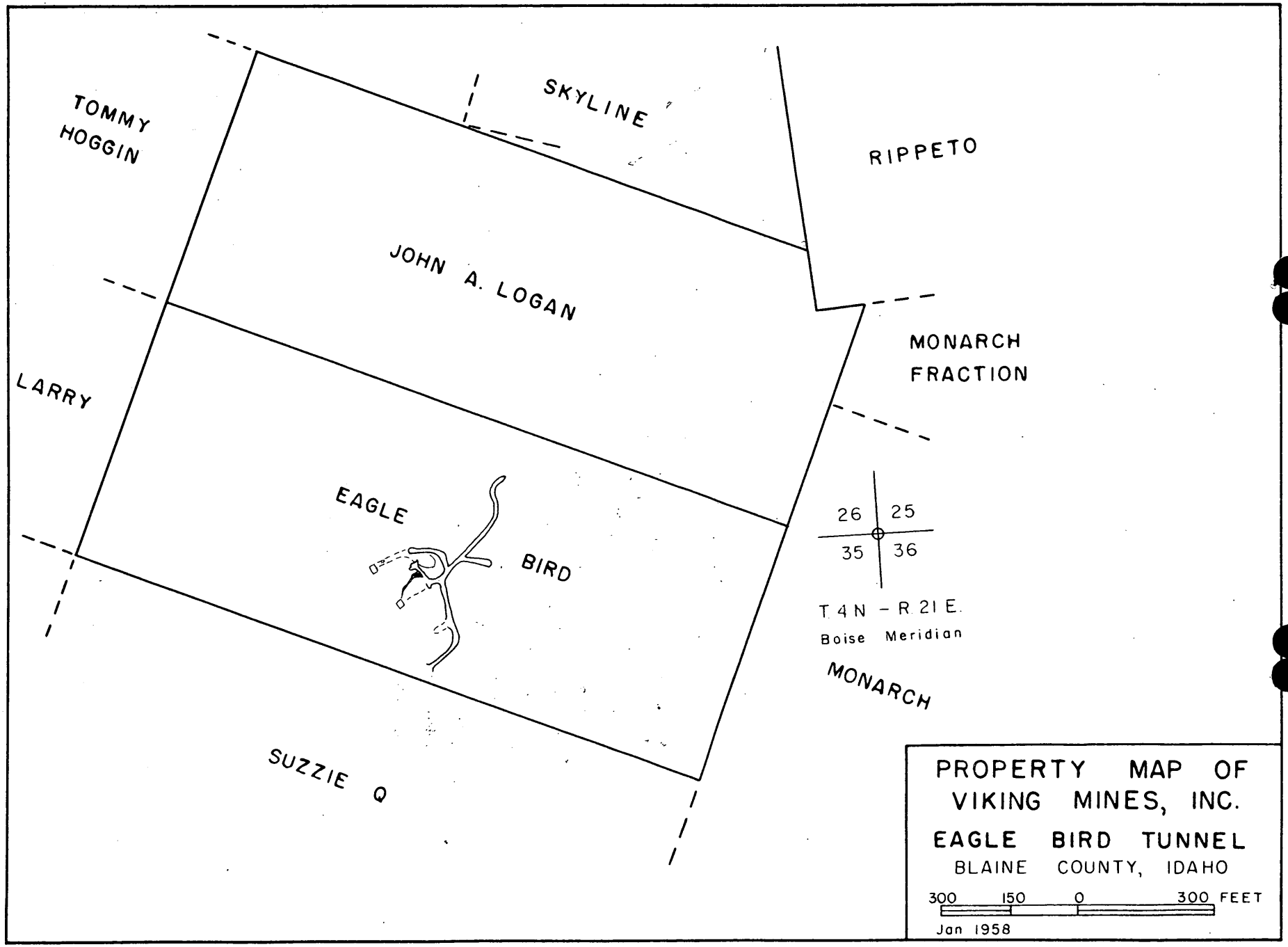
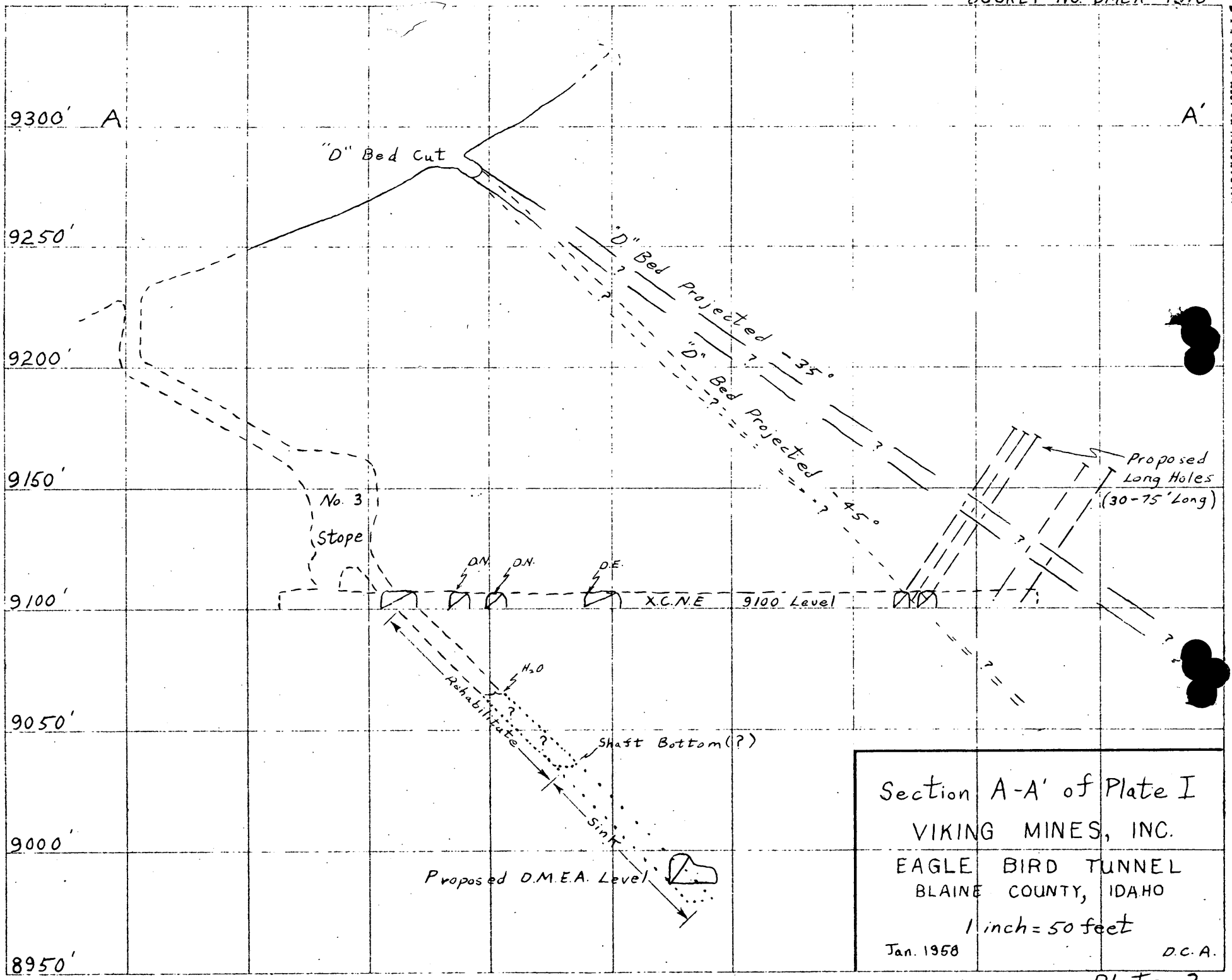

TOMMY HOGGIN
SKYLINE
RIPPETO
JOHN A. LOGAN
MONARCH FRACTION
LARRY
EAGLE BIRD
26
25
35
36
T 4 N - R 21 E
Boise Meridian
MONARCH
SUZZIE Q
PROPERTY MAP OF VIKING MINES, INC.
EAGLE BIRD TUNNEL
BLAINE COUNTY, IDAHO
300 150 0 300 FEET
Jan 1958

Figure 2



Section A-A' of Plate I
VIKING MINES, INC.
EAGLE BIRD TUNNEL
BLAINE COUNTY, IDAHO
1 inch = 50 feet
Jan. 1958 D.C.A.

Plate 3

"ALBANENE" NO. 1 DEM K&E CO., N.Y. REG. U.S. PAT. OFF.
J. A. Gendron Co., Spokane

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
So. 157 Howard Street
Spokane 4, Washington

February 7, 1958

2/10 C 220
2/11 (alt) 500

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

Re: Docket No. DMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho

Dear Mr. Selfridge:

Enclosed are two copies of a letter dated February 4, 1958 from Verne L. McGowan, General Manager of Viking Mines, Inc.

Also enclosed are the original and four copies of Consent to Lien and Subordination Agreement signed by L. F. and Julia Heagle and the original and one copy of Assignment dated February 4, 1958 between Verne L. McGowan and Viking Mines, Inc.

Sincerely yours,

A. E. Weissenborn

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I

Enclosures

cc: USBM
Alvord

Viking Mines, Inc.

DMEA
RECEIVED FEB 10 1958

DATE	INITIALS	COPY

N. 4TH ST.
P. O. BOX 325
GRAND FORKS, N. DAK.

REFER TO	ACTION	NOTED	DATE
			76
ANSWER			

February 4, 1958

Mr. Don Alvord
Defense Minerals Exploration Administration
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA - 4870 (Lead-Zinc
Viking Mines Inc.
Garfield Mine
Blaine County, Idaho

Dear Don,

Enclosed are four copies of the assignment to Viking Mines Incorporated and five copies of consent to lien signed by the owners of the property.

We received a letter from Mr. Weissenborn dated January 16, 1958 where he stated this was the only material that was delaying processing of the application so this should complete all the requirements of the application.

If there is any need for further information, please contact me.

Sincerely,

Verne L. McGowan
General Manager
Viking Mines Inc.

RECEIVED
original rec'd
FEB 6 1958
U. S. G. S.
SPOKANE, WASH.

VLM:d
Encs.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
1/21	Klugescheid	500
	Dibanner	500
1/22	Johnson	100
"	Gentry	100
		500
1/22	gb	220
		500

JAN 22 1958

Mr. Verne L. McGowan, President
Viking Mines, Inc.
Post Office Box 325
Grand Forks, North Dakota

Re: Docket No. DMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho

Dear Mr. McGowan:

We are returning the original document of the assignment of the Eagle Bird and John A. Logan claims by the Lessees, as you requested.

Sincerely yours,

W. R. Griswold

W. R. Griswold, Director
Division of Base Metals

Enclosure

WPKlugescheid/er 1/21/58
Copy to: Docket
Admr R File
Op. Committee
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Region I (2)
Chron.

8623

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
So. 157 Howard Street
Spokane 4, Washington

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 20 1958

DATE	INITIALS	CODE
1/20	C	220
1/21	WRB.	500

January 16, 1958

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

Re: Docket No. DMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho

Dear Mr. Selfridge:

Enclosed are the following documents received from Mr. Verne L. McGowan and two copies of his letter of transmittal:

1. Two copies of an engineer's recommendations and cost estimate.
2. Two copies of an assignment of lease and agreement to Verne McGowan (please note that the original copy is to be returned to the applicant). original returned.
3. Two copies of a lease.
4. Two copies of an agreement.
5. Two copies of revised costs to replace Item 6 of application.
6. Five copies of a Consent to Lien and Subordination Agreement signed by Mr. and Mrs. Friestad and Mr. and Mrs. Shirts.
7. Five copies of a Consent to Lien and Subordination Agreement signed by Verne McGowan.

We have attached the third copy of No. 1-5 enclosures to the "extra" copy of the application that was sent to the field with the referral letter of December 11, 1957.

As soon as we receive an assignment of lease and agreement from Verne McGowan to Viking Mines, Inc. and the consent to lien signed by the property owners, we will forward them.

Sincerely yours,

A. E. Weissenborn

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I

Enclosures

cc: USBM (2)
Alvord

EXTRA COPY
DMEA
RECEIVED JAN 20 1958

DATE	INITIALS	CODE

Mar
al
Alvord

Alvord has the
application.

Certified Mail
JAN 15

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 20 1958

DATE	INITIALS	CODE

So. 157 Howard Street
Spokane 4, Washington

January 16, 1958

Mr. Verne L. McGowan
24 N. 4th Street
Grand Forks, North Dakota

Re: Docket No. DMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho

Dear Mr. McGowan:

This will acknowledge receipt of your letter of January 13, 1958 addressed to Don Alvord, and the enclosures therein.

We have forwarded this material to our Washington, D. C. office. As noted in your letter, we still require four copies, one of which must show signatures, of a document assigning the lease and agreement to Viking Mines, Inc. and five copies of consent to lien signed by the owners of the property. Processing of your application will necessarily be delayed until these documents have been received.

Sincerely yours,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I

cc: DMEA (2)
USBM (2)
Alvord

7
56)

OFFICIAL FILE COPY

Date	Surname	Code
12/9	[illegible]	500
	[illegible]	500
12/11	[illegible]	130
"	Johnson	110
"	Rutherford	100
12/12	[illegible]	220
		500

DEC 11 1957

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

Re: Docket No. DMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho

Dear Mr. Weissenborn:

The cited application for exploration assistance is being referred to your office for consideration, a field examination of the property if warranted, and recommendations.

If the Field Team plan has been adhered to, the examination has probably already been made.

If the project is favorably considered by the Field Team, the following points should be taken into consideration.

1. Estimate of cost of rehabilitation of winze should be well itemized.

2. Be careful to state what size of core bits are to be used in the diamond drilling.

3. State size of bulldozer to be used.

4. Be sure that sufficient sinking is done so that any drifting and crosscutting on a lower level can truly be classified as exploration and not development.

5. Note the discrepancies which are mentioned in the review of the project by Mr. Bishop, Bureau of Mines.

8623

6. For what particular reason does the Applicant wish to assay for arsenic?

7. It might be well to study both plans for adit rehabilitation.

Copies of memoranda dated November 15 and December 4, 1957, by O. M. Bishop, Bureau of Mines, and N. E. Nelson, Geological Survey, respectively, relating to the project, are enclosed for your information. We are also enclosing a copy of the application for the use of the Field Team.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

Enclosures

APPROVED:

Frank D. Lamb (GCS)

Member, Bureau of Mines

N. E. Nelson (GCS)

Member, Geological Survey

WPKlugescheid/er 12/9/57
Copy to: Docket
Admr R File
Op. Committee
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Chron.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
12/10	Klugescheid	500
	Unassigned	500
12/11	Selfridge	130
12/11	Lamb	130
12/11	Nelson	130
"	Johnson	110
"	Mittendorf	100
		~~110~~
12/12	gb	220
		500

DEC 11 1957

Mr. Verne L. McGowan, President
Viking Mines, Inc.
Post Office Box 325
Grand Forks, North Dakota

Re: Docket No. DMEA-4870 (Lead-Zinc)
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho

Dear Mr. McGowan:

Your application for Government assistance to explore the cited property has been reviewed by the Division of Base Metals of the Defense Minerals Exploration Administration and has been referred to:

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

The Regional Office has probably already communicated its plans for making an examination of the property to you. If not, it will contact you at an early date as to when an examination is to be made. Any assistance that you may give the members of the Field Team during the examination will be appreciated.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

WPKlugescheid/er 12/9 &10/57
Copy to: Docket
Admr R File
Op. Committee
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Region I(2)
Chron.

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
12/9	Klugescheid	500
	Friswold	500
		130
		130
		130
		110
		100
		220
		500

Mr. Verne L. McGowan, President
Viking Mines, Inc.
Post Office Box 325
Grand Forks, North Dakota

Re: Docket No. DMEA-4870 (Lead-Zinc)
Vinking Mines, Inc.
Garfield Mine
Blaine County, Idaho

Dear Mr. McGowan:

Your application for Government assistance to explore the cited property has been reviewed by the Division of Base Metals of the Defense Minerals Exploration Administration and has been referred to:

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

If the Field Team requires additional information concerning your application, they will contact you at an early date.

Sincerely yours,

Administrator

WPKlugescheid/er 12/9/57
Copy to: Docket
Admr R File
Op. Committee
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Region I (2)
Chron.

8623

OFFICIAL FILE COPY
DMEA
RECEIVED DEC 5 1957

DATE	INITIALS	
12/5	C	220
12/6	Jwas	500

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

December 4, 1957
Re: DMEA 4870
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho
$23,505.00 - Lead-zinc

Memorandum

To: W. R. Griswold, Defense Minerals Exploration Administration

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of application

The applicant requests assistance in exploring for bedded replacement deposits in limestone, by bulldozing, rehabilitation, sinking, crosscutting-drifting, and diamond and long hole drilling.

The Field Team has arranged for an examination, weather permitting, but as a matter of form, I recommend referral of the application to the Field Team.

N. E. Nelson

N. E. Nelson

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

DMEA
RECEIVED NOV 18 1957

DATE	INITIALS	CODE
11/18	gb	220
11/18	Jbra	500

November 15, 1957

Re: DMEA 4870; ~~(Lead-Zinc)~~
Viking Mines, Inc.
Garfield Mine
Blaine County, Idaho

Memorandum

To: W. R. Griswold, DMEA

From: O. M. Bishop, USBM

Subject: Review of application dated November 1, 1957 and received November 12, 1957

The applicant requests DMEA assistance (total amount not stated) to reactivate and explore the Garfield Mine in a program that includes 800 feet of diamond drilling and longholing, 110 feet of winzing, and 150 feet of crosscutting. A large but unestimated footage of haulage rehabilitation is also proposed.

The proposal is designed to explore the downdip extension of two ore shoots that are assumed controlled by the intersection of favored limestone host beds with shear trends.

There is insufficient information transmitted with the application, but there are certain inconsistencies which should be called to the field team's attention prior to their investigation.

(1) The 1-to-50 scale map submitted with the application show the limestone strata striking N.20° W. and dipping east, whereas the text describes the beds as striking N.20° E. This apparent error is repeated in the text where the 150' proposed crosscut is described as being driven northeast, whereas the map shows it outlined northwest.

(2) A graphic section constructed from the included 1-to-50 scale map indicates the stopes plotted could not have been on "D" bed on which drilling is proposed but were necessarily from a lower stratigraphic horizon.

(3) The plans for establishing a favorable grade for haulage and drainage seem to be strictly a development project rather than exploration.

O. M. Bishop

O. M. Bishop

cc: Division of Minerals
Mr. Kiilsgaard
Mr. Callaway
Mr. Bishop
Mr. Lamb
F I L E S

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

November 13, 1957

Viking Mines Inc.
24 North 4th Street
Box 325
Grand Forks, North Dakota

Subject: DMEA-4870

Gentlemen:

Your application for exploration assistance, dated November 1, 1957 submitted to our office at Spokane, Washington has been assigned Docket Number DMEA-4870 and referred to the Base Metals Division in the Washington office. Kindly identify all future correspondence relating to your application by this Docket Number.

Sincerely yours,

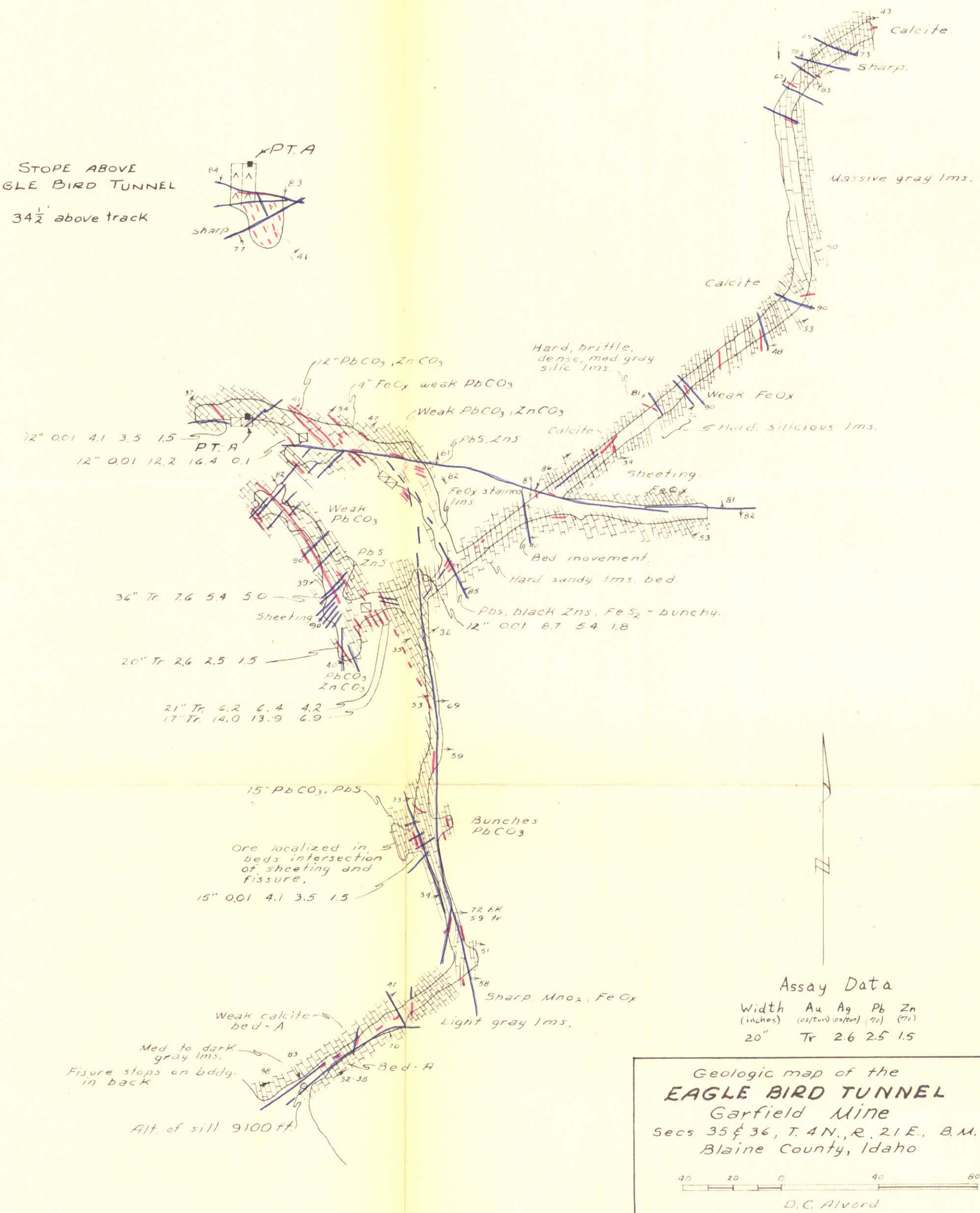
Allen S. Dakan, Director
Operations Control and
Statistics Division

Copy to: Region I

UNITED STA[illegible]
DEPARTMET OF THE INTERIOR

[illegible]ENSE PREPARED FO[illegible]
MINERALS EXPLOR[illegible]
APPLICATION REP[illegible]

DOCKET NO. DMEA 4870



Assay Data

Width (inches)	Au (oz/ton)	Ag (oz/ton)	Pb (%)	Zn (%)
20"	Tr	2.6	2.5	1.5

Geologic map of the
EAGLE BIRD TUNNEL
Garfield Mine
Secs 35 & 36, T. 4N., R. 21E., B.M.
Blaine County, Idaho

40 20 0 40 80 Feet

D.C. Alvord

December, 1957

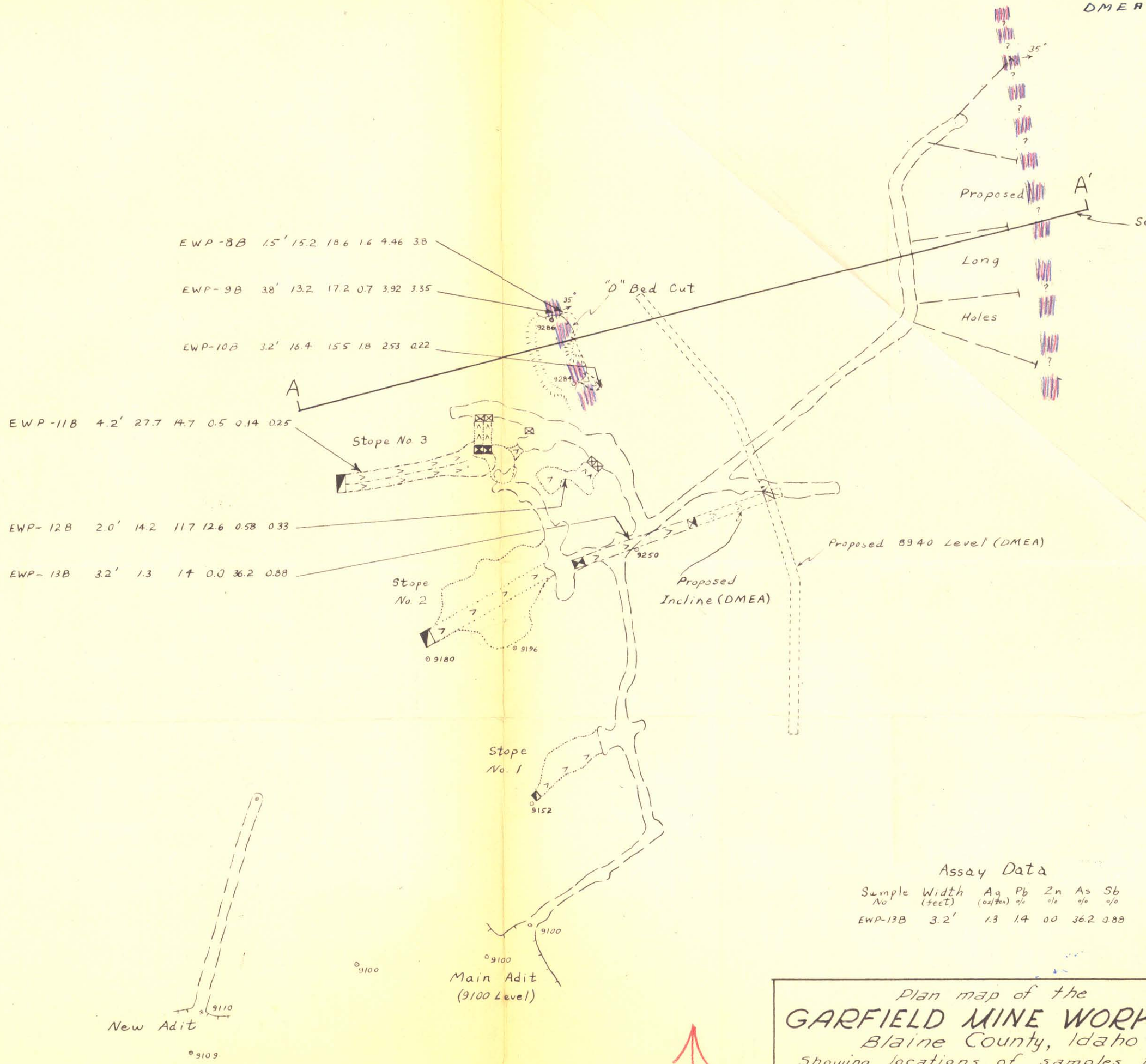
After map submitted by applicant credited to: Q.F.T. and J.K.J.
Dated: August 30, 1950

Plate 2

UNITED STATES
DEPARTMENT OF THE INTERIOR

PREPARE
DEFENSE MINERALS
APPLICATIO

Docke
DMEA



Assay Data

Sample No	Width (feet)	Ag (oz/ton)	Pb %	Zn %	As %	Sb %
EWP-13B	3.2'	1.3	1.4	0.0	36.2	0.88

Plan map of the
GARFIELD MINE WORK
Blaine County, Idaho
Showing locations of samples
by DMEA personnel and propo
DMEA exploration.

50 0 50 100

D.C. Alvord

December 1957

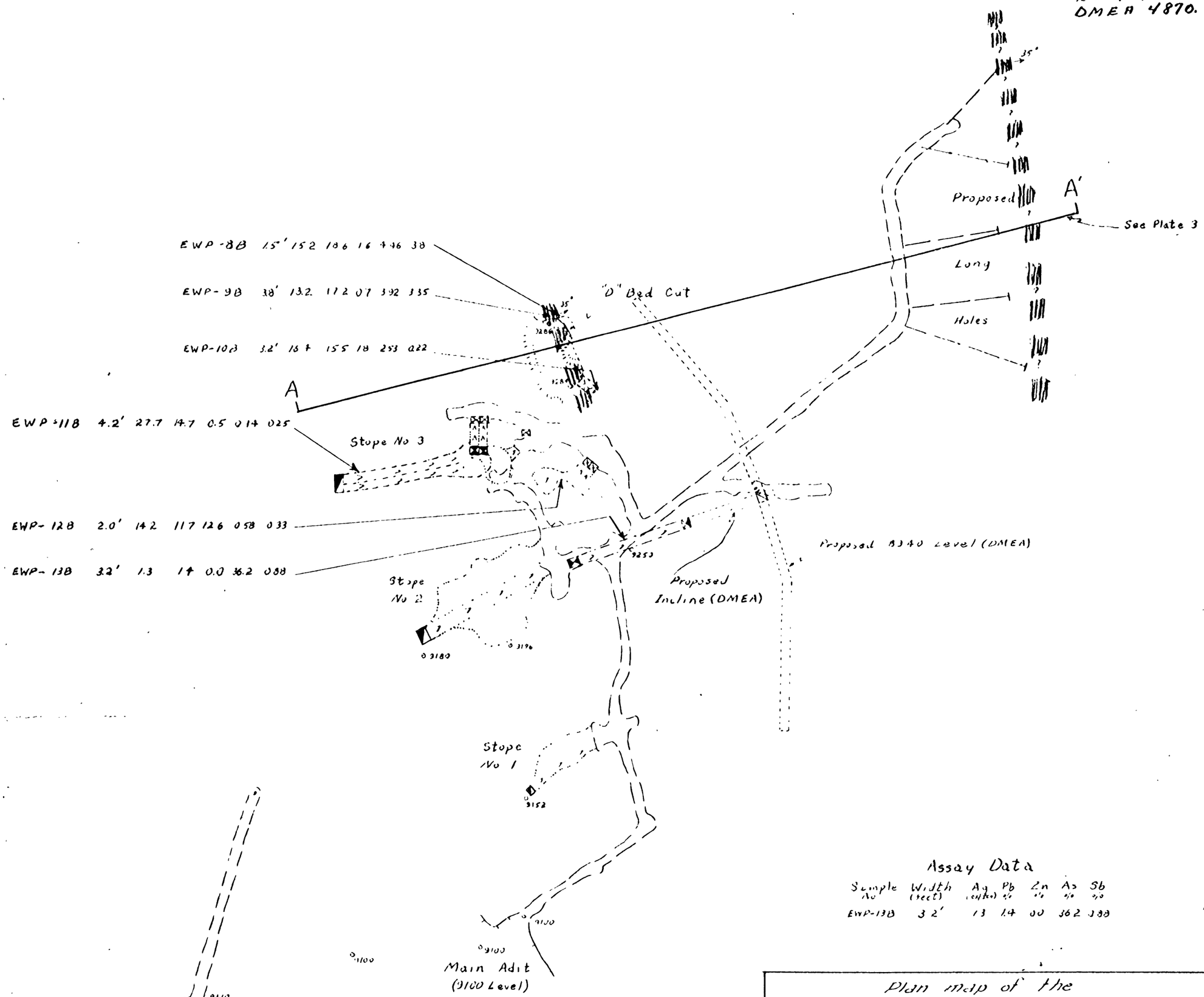
Compiled from maps submitted by the applicant and from Brunton and tape traverse by RCA. and EWR 1957

P

UNITED STATE.
DEPARTMENT OF THE INTERIOR

DEFENSE MINERA.
APPLICA

DOCKET No.
DMEA 4870.



Assay Data

Sample No	Width (feet)	Ag (oz/ton)	Pb %	Zn %	As %	Sb %
EWP-13B	3.2'	1.3	1.4	0.0	36.2	0.88

Plan map of the
GARFIELD MINE WORKINGS
Blaine County, Idaho
Showing locations of samples taken by DMEA personnel and proposed DMEA exploration.

50 0 50 100 Feet

D.C. Alvord

December 1957

Compiled from maps submitted by the applicant and from Brunton and tape traverse by BSA and EWP 1957

Plate I