MME Form 9
Rev. Mar. 59

UNITED STATES
DEPARTMENT OF THE INTERIOR
Office of Minerals Exploration

OFFICIAL DOCKET FILE

Contract No. 14-23- 2205 Docket No. MME-6427

Application
- [ ] Denied
- [ ] Withdrawn

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

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

Folder No. 1:

Left Side

- [ ] Royalty Audits
- [ ] Certification of Discovery
- [ ] Closing Letter
- [X] Cost Audits
- [X] Termination Notice or Agreement
- [ ] Recision Notice
- [ ] Assignment of Contract
- [ ] Contract Amendments
- [X] Contract with all exhibits and annexes
- [ ] Owner's Consent to Lien and Subordination Agreement
- [✓] Application and Attachments Amended Application dated 4/9/65

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)
- [X] Operator's Final Report (Tab)
- [ ] Interim Field Team Reports
- [X] Operator's monthly reports and all attachments
- [X] On-site Exam. Report (Tab)
- [ ] Settlement Sheets
- [ ] Drill Logs

Additional Folders:

Left Side

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

Right Side

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

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

Folders No._____: Settlement Sheets

Folders No._____: Drill Logs

Folders No._____: Royalty Material

52615

United States
Department of the Interior

GEOLOGICAL SURVEY

OFFICE OF THE CHIEF AUDITOR

GEOLOGIC DIVISION

OFFICE OF MINERALS EXPLORATION

WASHINGTON, D.C.

Report of Cost Review - Contract 2205
Docket No. OME-6427 (Silver)
Mountain Copper Company of California
Moco Claims
Eureka County, Nevada

Report Issued: June 1966

United States
Department of the Interior

GEOLOGICAL SURVEY

OFFICE OF THE CHIEF AUDITOR

GEOLOGIC DIVISION

OFFICE OF MINERALS EXPLORATION

WASHINGTON, D.C.

Report of Cost Review - Contract 2205
Docket No. OME-6427 (Silver)
Mountain Copper Company of California
Moco Claims
Eureka County, Nevada

Report Issued: June 1966

Auditor-in-Charge: Clarence E. Fisher

Report Approved: William T. McClelland, Chief Auditor

Audit Performed During Period: May 11 to 13, 1966

IN REPLY REFER TO:

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

OFFICE OF THE DIRECTOR

June 2, 1966

Memorandum

To: Director

From: Chief Auditor

Subject: Internal Audit of Contract 2205
Docket No. OME-6427 (Silver)
Mountain Copper Company of California
Moco Claims
Eureka County, Nevada

We have made a cost review of Contract 2205, examining the contract and accounting records and files of the Office of Minerals Exploration and the Branch of Budget and Finance.

We find that the settlement made with the Operator, based on 75 percent of accepted costs, and the withholding of $200 from payment pending receipt of a final report to be valid and proper under the contract provisions.

William T. McClelland

William T. McClelland

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REPORT OF COST REVIEW - CONTRACT 2205
DOCKET NO. OME-6427 (SILVER)
MOUNTAIN COPPER COMPANY OF CALIFORNIA
MOCO CLAIMS
EUREKA COUNTY, NEVADA

INTRODUCTION

On May 2, 1966, the Chief, Office of Minerals Exploration (OME), Geologic Division, requested a report of review in lieu of a final cost audit of Contract 2205. The examination was authorized by the Chief Auditor on May 10, 1966, under Audit Assignment No. 72. A review of the OME contract files and an examination of the Bureau's disbursement records in the Branch of Budget and Finance, Administrative Division at Washington, D.C., was performed during the period May 11 to 13, 1966.

The purpose of the project was to explore by core drilling from prepared surface drill sites for silver-bearing ore bodies in or along the Roberts Mountain Thrust Fault and in the Devonian carbonate rocks west of and below the Fault in the area of Mineral Hill and Cave Hill where sub-surface mineralization was indicated by surface electrical (self-potential) or geochemical (zinc) anomalies. The contract was dated July 27, 1965, and was terminated prior to completion by termination agreement effective March 1, 1966. The contract contemplated a maximum of 8,000 feet of core drilling of which 2,998 feet were completed.

SCOPE OF THE AUDIT

Our examination included a review of the official accounting records and contract files, and a detailed examination of the Operator's vouchers and supporting documents.

The principal objective of our examination was to ascertain whether or not the Operator had complied with the provisions of the contract, and to determine the effectiveness of contract administration and supervision by OME as well as the degree of compliance with the laws, policy determinations, and administrative regulations and procedures governing the Geological Survey and its predecessor mineral exploration agencies.

AUDIT FINDINGS

We find that the total costs, aggregating $32,002.33, claimed by the Operator for Government participation are in conformity with the terms of the contract and are fully supported by copies of invoices from sub-contractors or by other satisfactory evidence of their propriety. Also, we find that the Field Officer, Region II, San Francisco, California, the Government's representative on this exploration project, has accepted the completed work as conforming to contract specifications. We further find that the Government's 75 percent participation in accepted costs amounts to $24,001.75 of which $23,801.75 has been paid to the Operator. The unpaid balance of $200 is being withheld from settlement pending receipt of the Operator's final report provided for in Article 5(c) of the contract.

Government's Copy

EXPLORATION CONTRACT
MOUNTAIN COPPER COMPANY OF CALIFORNIA
OME-6427

TERMINATION AGREEMENT

It is agreed this 22nd day of March, 1966, between the United States of America, acting through the Department of the Interior, U. S. Geological Survey, hereinafter called the "Government," and Mountain Copper Company of California, hereinafter called the "Operator," parties to that certain Exploration Contract No. 2205 (OME-6427), dated July 27, 1965, as amended, hereinafter called the "Contract," that:

1. Effective March 1, 1966, the Contract and all obligations of the parties thereunder, except as otherwise herein expressly provided, shall be and are hereby terminated.

2. The Government shall contribute only to the allowable costs incurred prior to said effective date.

3. The Operator shall promptly perform all winding-up and settlement actions provided for in the Contract, including furnishing to the Government three copies of a final report (in addition to the final monthly report) which 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 the related costs thereof.

4. All rights of the Government respecting certification of possible production, percentage royalty and liens to secure the payment thereof, reports (including preservation of the Operator's records), accounts, audits, and the right to recover any overpayment are hereby preserved.

5. The Operator hereby releases and agrees to save the Government harmless from all claims or demands under or arising out of said Contract except as otherwise provided in this termination agreement.

IN WITNESS WHEREOF, these parties have executed this agreement as of the day and year first above written.

THE UNITED STATES OF AMERICA

By Francis E. Johnson
Chief, Office of Minerals Exploration
U. S. Geological Survey

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Johnson
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Kupper

MOUNTAIN COPPER COMPANY OF CALIFORNIA

By A. M. McClay

Title PRESIDENT

Government's Copy

EXPLORATION CONTRACT
MOUNTAIN COPPER COMPANY OF CALIFORNIA
OME-6427

AMENDMENT NO. 1

It is agreed this 30th day of December, 1965, between the United States of America, acting through the Department of the Interior, U.S. Geological Survey, hereinafter called the "Government," and Mountain Copper Company of California, hereinafter called the "Operator," that Exploration Contract 2205 (OME-6427), dated July 27, 1965, is amended effective the date of the contract as follows:

In Exhibit A, under the heading Description of the Work:

1. The second paragraph is amended to read as follows:

"The drill sites shall be located on the hanging wall side of the Roberts Mountain Thrust Fault. One hole shall be drilled from each site; and depending upon the results of the first hole, a second hole may be drilled before proceeding to the next site. Should drilling so indicate, subsequent drill sites and holes may be moved to other locations suggested by the results of the prior drilling with Government approval."

2. The third paragraph is revised to read as follows:

"The drill holes shall be inclined so as to cut the Fault at depths of not less than 200 or more than 1,000 feet below the surface of the land, but no hole shall be drilled deeper than 1,000 feet without prior approval of the Government confirmed in writing."

This amendment shall not be construed to increase the estimated total cost of the contract, the aggregate amount which the Government may be required to contribute, the amount of any item designated as maximum, nor 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 Frank E. Johnson
Chief, Office of Minerals Exploration
U.S. Geological Survey

MOUNTAIN COPPER COMPANY OF CALIFORNIA

By A. W. McClung

Title PRESIDENT

Long
Selfridge
Johnson
Kilgeard
Jones
Chapin

Government's Copy

MME Form 50
June 1963

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR *
~~BUREAU OF MINES~~

EXPLORATION CONTRACT
(Long Form)

Docket No.	Commodity	Contract No.	County	State
OME -6427	Silver	14-23-090-2205	Eureka	Nevada

It is agreed JUL 2 7 1965 (Date), between the United States of America, acting through the Department of the Interior, Office of Minerals Exploration, hereinafter called the "Government," and

Mountain Copper Company of California, a California corporation,

whose mailing address is 100 Mococo Road, Martinez, California 94553, hereinafter called the "Operator," as follows:

ARTICLE 1. Authority and scope.--(a) This contract, entered into under the authority of Public Law 701, 85th Cong., 2d sess. (72 Stat. 700; 30 U.S.C. § 641 - 646), consists of this form, the attached Annex I (land description), Exhibit A (work and costs), and the maps and documents listed. The work is a search for new or unexplored deposits of the commodity designated above. The Operator shall begin the work on or before September 1, 1965 (Date), and, subject to the provisions of Article 9 and Exhibit A, shall either have completed the work within 12 months from the date of the contract or shall have incurred allowable costs (see Article 6) in a sum not less than the total cost set forth in Exhibit A.

(b) The total allowable cost of the work set forth in Exhibit A is $86,860.00. The Government will contribute ~~XX~~ 75 percent of the allowable costs as they are incurred, in a total sum not in excess of $65,145.00 in accordance with the provisions of Articles 3, 4, 5, and 6. "Costs incurred" means costs that have been paid or have become due and payable, or that the Government determines have become obligations.

(c) Interest computation.--Simple interest at the rate of 6 - ¼ percent shall accrue from the dates Federal funds are made available until the period specified for payment of royalty expires, or until the amount of Federal funds contributed is fully repaid with interest.

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

ARTICLE 2. Operator's rights in land.--(a) The Operator represents and undertakes that Annex I correctly describes the land which is the subject of this contract and the nature of the Operator's right of property and possession therein (whether as owner, lessee, or otherwise), and that such right, title, or interest is subject only to the following claims, liens, or encumbrances:

See Annex I

(b) 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 lien agreement of any holder of the legal title of the land (lessor, seller, optionor, etc.) are attached as follows:

See Annex I

* U. S. Geological Survey

(c) The Operator shall preserve and maintain his right, title, or 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. 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 royalty on production and liens for the payment thereof. Two true copies of such instrument shall be furnished to the Government. If the Government's rights to royalty as provided in Article 7 have been terminated, the provisions of this paragraph (c) shall become inapplicable.

ARTICLE 3. Performance of the work.--(a) Operator's responsibility.--The work shall be performed diligently, efficiently, in a workmanlike manner in accordance with good mining standards, and in compliance with State laws governing health, safety, and liability insurance covering employment. The Operator shall provide suitable and adequate equipment, facilities, materials, supplies, and labor to complete the work as specified in Article 1(a).

(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 (see Article 6(a), Category (1)). 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, the Government will participate in payments to the independent contractor only as to work performed in accordance with the provisions of this exploration 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 production operations during the period that royalty is payable to the Government. The Operator shall provide the Government with all reasonable means of access for such inspections.

ARTICLE 4. Contribution by the Government.-- The Government will make its contribution on the basis of the monthly vouchers referred to in Article 5(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 and the Operator's final report has been received, the Government may withhold such sums as are necessary to protect its interests. The Government may make payments for the account of the Operator directly to independent contractors and suppliers rather than to the Operator.

ARTICLE 5. 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. 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 all pertinent books, documents, papers, and records of the Operator. 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) Monthly reports.--The Operator shall provide the Government with four copies of monthly reports in three sections as follows:

(1) Operator's Monthly Voucher claiming costs for work performed;

(2) Operator's Progress Report showing the number of units of the various types of work performed; 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; however, the original of the Operator's Monthly Voucher shall be supported by documentary evidence, such as certified copies or transcripts of payrolls and invoices, for all costs claimed under Article 6 (a) (1).)

(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 three copies of a final report (in addition to the final monthly report). 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 the related costs.

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

(e) Compliance with requirements.--If the Government determines that 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 preparation or completion of the same 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 6. Costs.--(a) Allowable costs.--The allowable costs of the work to which the Government will contribute are limited to:

(1) the necessary, reasonable, and direct actual costs that are estimated in Exhibit A by categories as specified in this article; and

(2) fixed costs for units of work to be performed (per foot, per hour, etc.) agreed upon in lieu of actual costs and set forth in Exhibit A.

The Government will not contribute to costs under any category or subcategory omitted from the estimate of costs in Exhibit A. Any excess over any estimate which is indicated as the maximum of any category, subcategory, or item, either as to requirement or related cost; any excess over a fixed unit cost; and any excess over the total allowable cost of the work are not allowable. The Operator shall incur such excesses for his own account without contribution by the Government, but the Operator is not obligated to incur more than his agreed percentage of the total allowable cost of the work.

Any category or subcategory or element thereof not designated as a maximum in this article or in Exhibit A may be exceeded, provided that the total allowable cost of the work, which is a maximum, is not exceeded.

CATEGORY (1)--INDEPENDENT CONTRACTS.--(See Article 3(b)). The total of this category and the average unit cost estimated for each type of work to be performed under an independent contract are maximums.

CATEGORY (2)--PERSONAL SERVICES.

Subcategory (a)--Supervision and Technical Services--All elements of this subcategory (number of supervisors, technicians, outside consultants, periods of employment, rates of pay, and total) are maximums.

Subcategory (b)--Labor.

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

CATEGORY (4)--OPERATING EQUIPMENT.

Subcategory (a)--Rental.--The number of each rented item [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 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.--Costs of items listed under this category include all requirements, 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 total of this category is a maximum.

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

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

CATEGORY (6)--NEW BUILDINGS, FIXTURES, AND INSTALLATIONS (EXCLUSIVE OF MINE WORKINGS).--Costs of items listed under this category include all requirements, 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 total of this category is a maximum.

CATEGORY (7)--MISCELLANEOUS.--Includes requirements and costs that do not fall within any of the first six categories, such as repairs other than initial and maintenance of operating equipment, analytical work, prints and other reproductions, accounting, Operator's share of payroll taxes, liability insurance covering employment, travel, and communications.

(b) Nonallowable costs.--In addition to the limitations imposed by paragraph (a) of this Article 6 the Government will not contribute to the following costs:

(1) Costs of the land, such as rental, depreciation, depletion, or other costs 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 total cost. The provision does not apply to receipts from production which are subject to the Government's royalty under the provisions of Article 7.

ARTICLE 7. Repayment by Operator.--(a) Certification.-- If the Government considers that mineral or metal production from the land covered by the contract may be possible as a result of the exploration work, it shall so certify in writing to the Operator at any time not later than six months after a sufficient final report and final accounting (see Article 5) have been furnished.

(b) Royalty on production.--The Operator, whether or not the producer (for example, if the Operator either transfers or does not retains his interest in the land), shall pay to the Government a royalty on all minerals and metals mined or produced from the land as follows:

(1) irrespective of any certicifation of possible production--from the date of the contract until the lapse of the time within which the government may issue such certification or until the total net amount contributed by the Government is fully repaid with interest, whichever occurs first; or

(2) if the Government issues a certification of possible production--for a period of ten years from the date of the contract, or until the total net amount contributed by the Government is fully repaid with interest, whichever occurs first.

(c) Payment of royalty.--(1) The Government's royalty shall be five percent of the gross proceeds (including any bonuses, premiums, allowances, or other benefits) from the production sold, in the form sold (ore, concentrate, 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 (such as treatment processes performed by the buyer, sampling and assaying to determine the value of the production sold, and freight payable by the buyer to a carrier (not the Operator or producer)), shall be allowed as deductions in arriving at the "gross proceeds" as that term is used herein. No costs of the Operator or Producer are deductible in arriving at the "gross proceeds" as that term is here used.

The term "treatment processes" means those processes (such as milling, concentrating, smelting, refining, or equivalent, but excluding fabricating or manufacturing) applied to the crude ore or other production after it is extracted from the ground to put it into a commercially marketable form.

(2) 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.

(d) Unsold production.--If any production (ore, concentrate, metal, or equivalent), after the lapse of six months from the date the ore was extracted from the ground, remains neither sold nor used 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, concentrate, metal, or equivalent) it is in when the Government elects to require computation and payment. If any production is used 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 thereof in the form in which and at the time 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) Lien for payment.--To secure the payment of royalty (see Article 7(b)), the Operator hereby grants to the Government a lien upon his interest in the land and upon any production of minerals and metals therefrom until the royalty claim is extinguished by lapse of time or is fully paid.

(f) Notice to purchasers.--The Operator or producer 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 Government, and this estimate shall be final and binding upon the Operator or producer.

(g) No obligation to produce.--Nothing in this contract shall be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any production operations.

(h) Government not obligated to buy.--Nothing in this contract shall be contrued as imposing any obligation on the Government to purchase any minerals and metals mined or produced from the land.

ARTICLE 8. 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, and any reasonable and necessary cost thereof will be treated as an allowable cost of the exploration. After the completion of the work, termination of the Government's obligation to contribute, or when such property is not being used for the work, the Operator shall not use it elsewhere without the written consent of the Government and without paying a reasonable rental to be fixed by the Government for its proportionate interest.

(c) Disposal of property.--Upon the completion of the work, 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, sale to others, purchase by the Operator, or sale or transfer to 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 that cost more than $500, and shall not sell at less than 25 percent of the purchase price any item of property that 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 offers. Property remaining upon any termination of the work shall be considered in groups or categories (such as drill steel, explosives, pipe, or rail), 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 exploration.

(d) Default of the Operator re disposal.--If within 90 days after the completion of the work, termination of the Government's obligation to contribute to costs, or after the property is no longer needed for the work, 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:

(1) in writing extend the time within which the Operator must dispose of or liquidate the property;

(2) by written notice to the Operator, place upon such property what it determines to be 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; and

(3) 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 9. Termination of the Government's obligations.--(a) If the Government determines that operations at any time have failed to achieve anticipated results and further work is 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 final accounting and reporting; and

(2) the Operator shall be free of all obligation to prosecute the work other than such as may be necessary and incidental to final accounting and reporting.

(b) If the Government determines that the Operator is 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 final accounting and reporting; and

(2) the Operator shall be free of all obligation to prosecute the work other than such as may be necessary and incidental to final accounting and reporting.

The Government may also avail itself of any other remedy the law may provide for breach of contract, including the right to rescind the contract and to demand repayment of all moneys contributed by the Government under the contract.

(c) The giving of any notice by the Government under the provisions of this Article 9 shall not affect the Government's rights as provided for in the contract with respect to royalty and liens to secure the payment thereof, and such rights shall be fully preserved.

(d) The determinations of the Government are subject to appeal under Article 13.

ARTICLE 10. Notices to be given by the Government may be delivered to the Operator, or may be sent by certified 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 11. 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 12. Nondiscrimination in Employment. The provisions respecting nondiscrimination in employment which are required by section 301 of Executive Order 10925, dated March 6, 1961 as amended and supplemented are attached hereto as Exhibit B and are hereby incorporated in and made a part of this contract.

ARTICLE 13. Disputes.--Any dispute arising under this contract which is not disposed of by agreement shall be decided by the Director, [redacted]*, who shall reduce his decision to writing and mail or otherwise furnish a copy thereof to the Operator. The decision of the Director, [redacted], shall be final and conclusive unless, within 30 days from the date of receipt of such copy, the Operator mails or otherwise furnishes to the Director, [redacted]*, a written appeal addressed to the Secretary of the Interior. The decision of the Secretary or his duly authorized representative for the determination of such appeals shall be final and conclusive unless determined by a court of competent jurisdiction to have been fraudulent, or capricious, or arbitrary, or so grossly erroneous as necessarily to imply bad faith, or not supported by substantial evidence.

The term "Director, [redacted]*," as used herein includes his duly authorized representative.

ARTICLE 14. Work Hours Act of 1962 - Overtime Compensation.--This contract, to the extent that it is of a character specified in the Work Hours Act of 1962 (Public Law 87-581, 76 Stat. 357-360) and is not covered by the Walsh-Healey Public Contracts Act (41 U.S.C. 35-45), is subject to the following provisions and to all other provisions and exceptions of said Work Hours Act of 1962.

(a) Overtime requirements.--No Operator or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any laborer or mechanic to be employed on such work in excess of eight hours in any calendar day or in excess of forty hours in any workweek unless such laborer or mechanic receives compensation at a rate of not less than one and one-half times his basic rate of pay for all hours worked in excess of eight hours in any such calendar day or in excess of forty hours in any such workweek, as the case may be.

(b) Violations; liability for unpaid wages; liquidated damages.--In the event of any violation of the clause set forth in subparagraph (a) of this paragraph, the Operator and any subcontractor responsible therefor shall be liable to any affected employee for his unpaid wages. In addition, such Operator and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for

* U. S. Geological Survey

liquidated damages. Such liquidated damages shall be computed, with respect to each individual laborer or mechanic employed in violation of the clause set forth in subparagraph (a) of this paragraph, in the sum of $10 for each calendar day on which such employee was required or permitted to work in excess of eight hours or in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in subparagraph (a) of this paragraph.

(c) Withholding for unpaid wages and liquidated damages.--The Office of Minerals Exploration may withhold or cause to be withheld, from any moneys payable on account of work performed by the Operator or subcontractor, such sums as may administratively be determined to be necessary to satisfy any liabilities of such Operator or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in subparagraph (b) of this paragraph.

ARTICLE 15. Copeland (Anti-Kickback) Act--Nonrebate of wages.--The regulations of the Secretary of Labor applicable to contractors and subcontractors (29 CFR, Part 3), made pursuant to the Copeland Act, as amended (40 U. S. C. 276c) and to aid in the enforcement of the Anti-Kickback Act (18 U. S. C. 874) are made a part of this contract by reference. The Operator will comply with these regulations and any amendments or modifications thereof and will be responsible for the submission of affidavits required of independent contractors thereunder. The foregoing shall apply except as the Secretary of Labor may specifically provide for reasonable limitations, variations, tolerances, and exemptions.

ARTICLE 16. Changes and added provisions.--

Executed in quintuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

(Operator)
MOUNTAIN COPPER COMPANY OF CALIFORNIA

By C. W. McClung

Title PRESIDENT

By Arthur A. Baker
Acting Director
U. S. Geological Survey

App'd. Long
R.M. Smith
Selfridge
Johnson
Weeks for THK.
Pecora

I, John W. Takow (Name), certify that I am the Secretary-Treasurer secretary of the corporation named as Operator herein; that C. W. McCLUNG (Name), who signed this contract on behalf of the Operator, was then PRESIDENT (Title) of said corporation; that said contract was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

[CORPORATE SEAL]

EXPLORATION CONTRACT
MOUNTAIN COPPER COMPANY OF CALIFORNIA
OME-6427

ANNEX I

The land, including all rights pertaining thereto, referred to in Article 2 of the contract consists of twenty (20) unpatented lode mining claims in secs. 10, 14, and 15, T. 26 N., R. 52 E., MDB&M, Mineral Hill mining district, Eureka County, Nevada.

The outer boundary of the claims is outlined in green on Exhibit 1, entitled "Geologic Map, Mineral Hill Dist. . . .," attached hereto and made part hereof.

The claims are recorded in the Office of the County Clerk and Recorder, Eureka, Nevada, as follows:

Unpatented Claims	Book	Page
Moco No. 5	6	408
" No. 6	6	409
" No. 7	6	410
" No. 8	6	411
" No. 9	6	412
" No. 10	6	413
" No. 11	6	414
" No. 12	6	415
" No. 13	6	416
" No. 14	6	417
" No. 15	6	418
" No. 16	6	419
" No. 17	6	420
" No. 18	6	421
" No. 19	6	422
" No. 20	6	423
" No. 21	6	424
" No. 22	6	425
" No. 23	6	426
" No. 24	6	427

The Operator is the owner of the unpatented claims listed above under the terms of a quitclaim instrument executed June 15, 1965, by the locator of the claims, Richard L. Coppage, 126 Homewood Drive, Concord, California.

EXPLORATION CONTRACT
MOUNTAIN COPPER COMPANY OF CALIFORNIA
OME-6427

EXHIBIT A

The purpose of this project is to explore by core drilling from prepared surface drill sites for silver-bearing ore bodies in or along the Roberts Mountain Thrust Fault and in the Devonian carbonate rocks west of and below the Fault in the area of Mineral Hill and Cave Hill where sub-surface mineralization is indicated by surface electrical (self-potential) or geochemical (zinc) anomalies.

General Provisions

All core drill holes shall be started not less than NX wire-line size (1-23/32" diameter) and may be reduced as hole conditions require to standard BX or BX wireline size, and shall be completed not less than standard AX core size (approximately 1-1/8") or equivalent wireline size.

Facilities shall be provided for recovering drill sludge, and such sludge shall be retained when drilling in significantly mineralized ground.

The drill core shall be stored in boxes identified as to hole number with markers in the core sections indicating the depths represented.

Significantly mineralized core shall be split and one split assayed for silver and for base metals as warranted. Whenever the core recovery is found to be less than 60 percent, a split of the corresponding retained sludge and a split of such core as may*been recovered shall be assayed separately and the assay results combined according to standard practice to represent a single sample. The remaining core shall be stored in proper sequence with the unsampled core, and the remaining sludge shall be stored in suitable containers properly identified as to source and location. The stored core and the sludge samples shall be made available for Government inspection and possible use. With prior Government approval, the Operator may dispose of the stored core and samples.

All drill holes shall be logged, and copies of the logs of completed holes together with plans and sections showing assays shall be furnished monthly to the Government.

*have

No drilling shall be done within 200 feet of the exterior boundaries of the land outlined on the maps previously referred to.

The Operator shall provide such supervision, labor, and technical services as may be required to complete the work in a satisfactory manner.

The location, direction, and extent of each work item shall be subject to Government approval.

Description of the Work

The work shall consist of bulldozing access roads to four drill sites, of leveling the sites, and of drilling not less than four and not more than eight holes aggregating not more than 8,000 feet of core drilling.

The drill sites shall be located on the hanging wall side of the Roberts Mountain Thrust Fault. One hole shall be drilled from each site; and depending upon the results of the first hole, a second hole may be drilled before proceeding to the next site.

The drill holes shall be inclined so as to cut the Fault at depths of not less than 300 or more than 1,000 feet below the surface of the land, but no hole shall be drilled deeper than 1,000 feet without prior approval of the Government confirmed in writing.

The approximate locations of the four drill sites, A, B, C, and D, and the approximate directions of the drill holes are indicated in red on Figure 2, entitled ". . . Mountain Copper Co. of California, Moco, et al., Claims, Mineral Hill District . . .,"

Estimated Costs of the Work

* Indicates a maximum

Actual Costs

Category (1) Independent Contracts

Mobilization and demobilization, one surface drill unit	$ 350.00*	
Core drilling, 8,000 feet	60,500.00	

Depth	Size	Carbonate rock	Siliceous rock
0 - 500'	NX	$5.75/ft.	$7.75/ft.
	BX	5.25	7.25
	AX	4.90	6.90
500'- 750'	NX	6.50	8.50
	BX	6.00	8.00
	AX	5.65	7.65
750'-1,000'	NX	7.25	9.25
	BX	6.75	8.75
	AX	6.40	8.40

Bit cost in excess of $1.00/ft., 2,000 feet @ $0.15/ft.	300.00	
Moving between and setting up drill at drill sites, 25 hours @ $12.00/hr.	300.00	
Cementing and redrilling, 300 hours @ $12.00/hr.	3,600.00	
Cement or cement substitutes, 300 sacks @ $7.50/sk.	2,250.00	
Water haulage, 4,000 miles @ $0.12/mi.	480.00	
Truck rental, 10 months @ $225.00/mo.	2,250.00	
Casing, 160 feet @ $3.00/ft. 1/	480.00	$70,510.00

Category (2) Personal Services

None except:

Subcategory (a) Supervision and Technical Services

1 Supervisor-geologist-engineer 10 months @ $840.00/mo.	$ 8,400.00	
1 Outside consultant, 2 days/mo. 20 days @ $65.00/day	1,300.00	$ 9,700.00

Subcategory (b) Labor

1 Laborer, 400 hours @ $2.50/hr.	$ 1,000.00	$ 1,000.00
		$10,700.00

Category (3) Operating Materials and Supplies

None except:

Core boxes, 800 @ $0.55/each	$ 440.00	
Sample sacks, 1,000 @ $0.035/each	35.00	
Core splitter, one @ 50% of purchase price ($70.00) 2/	35.00	$ 510.00

Category (7) Miscellaneous

None except:

Payroll taxes, F.I.C.A. Insurance, etc. @ 13% of payroll (rounded)	$ 1,220.00	
Travel expense, outside consultant		
Per Diem, 2 days/mo., 20 days @ $10.00/day	200.00	
San Francisco, Calif., to Elko, Nev., and return by air, 10 months @ $71.72/mo. (rounded)	720.00	
Transportation of samples, 250 samples @ $0.08/each	20.00	
Assays for gold and silver, 250 @ $3.00/assay	750.00	
Assays for base metals, 120 @ $1.75/assay	210.00	$ 3,120.00
Total Estimated Actual Costs		$84,840.00

Fixed Unit Costs

Mobilization and demobilization, one Caterpillar D-8 or equivalent size bulldozer 3/	$ 400.00	
Bulldozing access roads and drill sites, 40 hours @ $18.00/hr.	720.00	
Office expenses, 10 months @ $90.00/mo. 4/	900.00	
Total Estimated Fixed Unit Costs		$ 2,020.00
Total Estimated Costs of the Work		$86,860.00
Government Participation @ 75%		$65,145.00

1/ The Government will not contribute to the cost of casing left in a drill hole at the request of the Operator.

2/ Notwithstanding the provisions of Article 8, the Government retains no interest in the salvage value of this item after completion of the work.

3/ The completed job is the unit of work.

4/ Includes all costs whatsoever that would otherwise be allowable costs under Categories (2) through (7).

EXHIBIT B

NONDISCRIMINATION IN EMPLOYMENT

(Section 301, Executive Order 10925, March 6, 1961, as amended)

'During the performance of this contract, the contractor agrees as follows:

'(1) The contractor will not discriminate against any employee or applicant for employment because of race, creed, color, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, creed, color, or national origin. Such action shall include, but not be limited, to the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of this non-discrimination clause.

'(2) The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, creed, color, or national origin.

'(3) The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided by the agency contracting officer, advising the said labor union or workers' representative of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

'(4) The contractor will comply with all provisions of Executive Order No. 10925 of March 6, 1961, as amended, and of the rules, regulations, and relevant orders of the President's Committee on Equal Employment Opportunity created thereby.

'(5) The contractor will furnish all information and reports required by Executive Order No. 10925 of March 6, 1961, as amended, and by the rules, regulations, and orders of the said Committee, or pursuant thereto, and will permit access to his books, records, and accounts by the contracting agency and the Committee for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

'(6) In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be cancelled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts in accordance with procedures authorized in Executive Order No. 10925 of March 6, 1961, as amended, and such other sanctions may be imposed and remedies invoked as provided in the said Executive Order or by rule, regulation, or order of the President's Committee on Equal Employment Opportunity, or as otherwise provided by law.

'(7) The contractor will include the provisions of paragraphs (1) through (7) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the President's Committee on Equal Employment Opportunity issued pursuant to section 303 of Executive Order No. 10925 of March 6, 1961, as amended, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the contracting agency may direct as a means of enforcing such provisions, including sanctions for noncompliance: Provided, however, that in the event the contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the contracting agency, the contractor may request the United States to enter into such litigation to protect the interests of the United States.'"

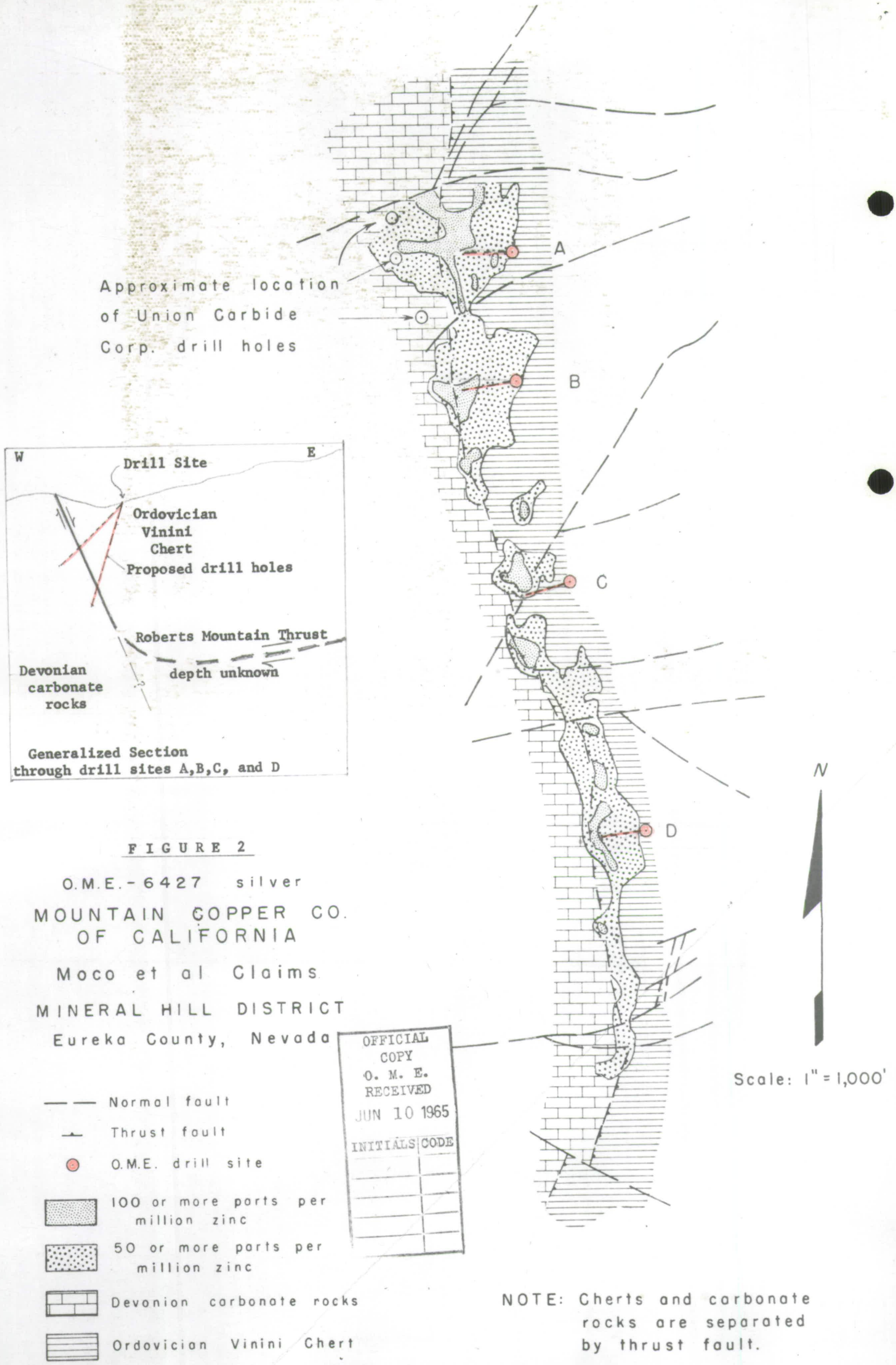


FIGURE 2

O.M.E.-6427 silver

MOUNTAIN COPPER CO.
OF CALIFORNIA

Moco et al Claims

MINERAL HILL DISTRICT

Eureka County, Nevada

OFFICIAL
COPY
O. M. E.
RECEIVED
JUN 10 1965
INITIALS | CODE

OFFICIAL
COPY
O. M. E.
RECEIVED
APR 19 1965
INITIALS | CODE

AMENDED

APPLICATION FOR FINANCIAL ASSISTANCE IN MINERALS EXPLORATION

OME Docket Number 6427

Mineral Hill District
Eureka County, Nevada

AMENDED
APPLICATION

MOUNTAIN COPPER COMPANY OF CALIFORNIA
100 Mococo Road
MARTINEZ, CALIFORNIA 94553

April 9, 1965

MOUNTAIN COPPER COMPANY
of California

100 MOCOCO ROAD
MARTINEZ, CALIFORNIA
PHONE: 228-5530
AREA CODE: 415

APR 1965
BUREAU OF MINES
OFFICE OF
DEPARTMENT OF INTERIOR
REGION II

April 8, 1965

Mr. Paul Fillo
Acting Field Officer
U.S. Department of the Interior
Office of Minerals Exploration
450 Golden Gate Avenue
Box 36012
San Francisco, California 94102

Ref: Docket Number
OME 6427

Dear Mr. Fillo:

I am herewith submitting for your approval two copies of amendments pertaining to our OME loan application for our Mineral Hill Project, Docket No. OME 6427. These amendments incorporate program modifications which were discussed during our meeting with you on March 31.

The amendments are based on the premise that penetration of the Roberts Mountain thrust fault should be done by drilling from the hanging wall side, instead of the footwall side of the fault as was originally planned.

The revised portions are as follows:

1. Section V, Exploration Work - Parts (a) and (c).

2. Section VII, Estimate of Costs - entire section revised.

The above amendments contain references to new exhibits of revised maps and geological cross sections which are also herein enclosed.

We trust these amendments will meet with your approval. If you have questions regarding any phase of this project, please contact us at your convenience.

Yours truly,

V. P. Bluege

V. P. Bluege
Director of Exploration

VPB:ea

Amendment to "Application for Financial Assistance in Minerals Exploration--Mineral Hill District, Eureka County, Nev."

April 7, 1965

Mountain Copper Company of California
Martinez, California

V. Exploration Work (Revised)

Introductory Statement

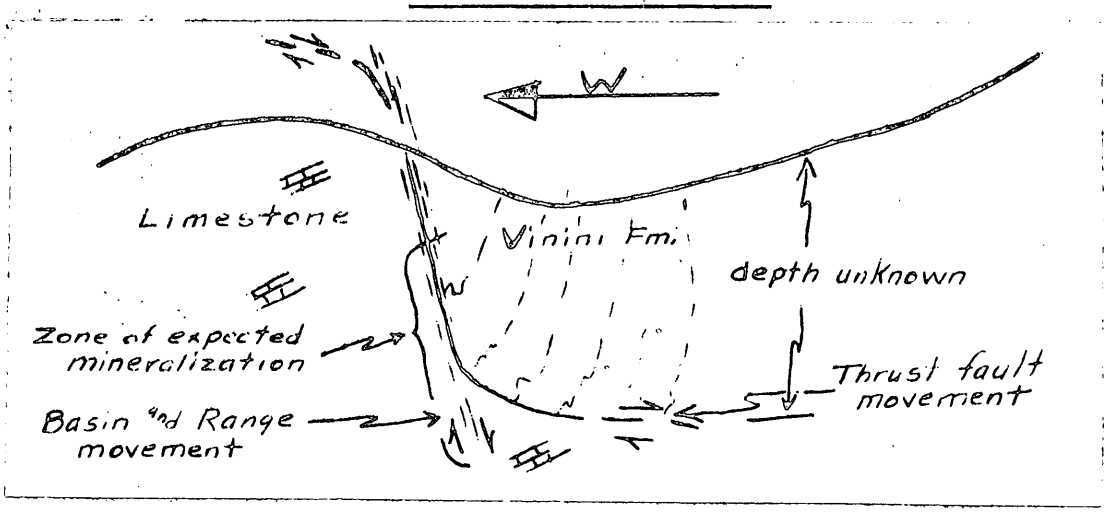
To thoroughly explore the Roberts Mountain Thrust Fault in the vicinity of Mineral Hill, a three-phase program is planned. Phase I, geological, geochemical and geophysical investigations, have been largely completed. Phase II includes diamond drilling, a minimum of four drill holes from two surface sites to test the most encouraging surface showings indicated in Phase I. Phase III includes the drilling of four additional drill holes from two surface stations to further test encouraging surface showings, but is dependent upon the success of Phase II drilling.

Dozer trenching and hand trenching, completed since this application was first submitted, indicates the dip on the Roberts Mountain Thrust Fault may be somewhat steeper than originally anticipated, ranging from perhaps 48 degrees in the vicinity of Trench "A" to perhaps 80 degrees in the vicinity of Trench "B". Wall rock alteration is now better defined owing to this subsequent trenching and appears to be the development of clay minerals usually accompanied by maroon iron oxide in the shaley portion of the Vinini formation, flanking the fault, and the development of silicification and clay minerals in the limestone next to the fault. Clay altered zones in the Vinini formation are 8 to 10 feet wide, randomly distributed for 50 to 75 feet out into the hanging wall and are semi-parallel to the fault. At trenches "A" and "B" there is also an apple-green clay developed which may be jarosite or nontronite. At Trench "B" the limestone immediately adjacent to the fault has been clay altered and contains spots of a blcak, earthy material thought to be psilomelane.

The steeper dip on the Roberts Mountain thrust fault suggests the possibility of rejuvenation of movement during the period of Basin and Range faulting. Basin and Range faulting commenced probably in early Miocene and was largely completed by early to mid-Pleistocene. The Great Basin precious metals deposits are thought to range in age from mid-Miocene to mid-Pliocene. It is therefore reasonable to expect that at Mineral Hill there has been some post mineral movement elevating the western block and lowering the eastern block. If the foregoing sequence of fault movements did occur, then a configuration such as shown below is suggested.

POSSIBLE FAULT CONFIGURATION

Mineral Hill District



All of the drill holes are inclined so as to pass through the mid-point of the possible fault zone at a depth of 600 to 1000 feet, or 6300 feet elevation and 6900 feet elevation, except at station "C" where the penetration is at 6100 feet and 7100 feet elevation (see exhibits 2,3,4,5). Judging from Emmons' (op. cit.) description, Mineral Hill ores are mesothermal type and penetrations at the above elevations are based on the general habitat of epithermal-mesothermal deposits. In most epithermal-mesothermal deposits, ores top out at between 1000 and 2000 feet below the pre-erosion surface. Generally speaking, in most of the precious metal camps, post-ore erosion has either failed to expose the ore or has exposed it only sparingly in one or two places. Ore zones in most epithermal-mesothermal deposits are between 500 and 2000 feet in vertical dimension.

Wallrock alteration and gangue material usually climb some hundreds of feet above the top of ore. At Mineral Hill, wallrock alteration is present in the dozer trenches and in hand trenches. There may be minor gangue present in the form of quartz, vein calcite and manganese minerals. It is therefore assumed that the top of ore is about 500 feet below present land surface and the 600-foot deep holes should intercept just below the top of ore, and the 1000-foot deep hole should intercept at mid-point to near the bottom of ore. If the above assumption concerning depths to ore is wrong, and ore tops out just below the present land surface, the 600-foot deep holes will intercept ore at about the mid-point and the 1000-foot deep hole, if drilled, would intercept ore at the bottom or pass below ore. If wallrock alteration is just barely exposed at its top, the 600-foot deep hole may pass over the top of ore, but the 1000-foot deep hole should intercept the top of ore.

8-ball in the side pocket! [illegible]

a. Exploration Program

Phase I

Phase I, now almost completed, will require an additional 5 days of geophysical work to extend the self-potential survey to the southerly claim boundary. (see exhibits I, H). An additional two days of bulldozer trenching, using a D-8 sized tractor and ripper, will be required to complete the trenches at A, B-1, B and C, for geologic observations (see exhibit 1). No funds are applied for to complete this work.

Phase II

Phase II comprises drilling four diamond drill holes from two surface sites as shown in exhibits 1, 2, 3. Total aggregate footage is 4450 feet, allocated as follows:

Hole A-1	900 feet
Hole A-2	1260 "
Hole B-1	975 "
Hole B-2	1310 "

As presently planned, holes are to be drilled in sequence: A-1, A-2, B-1 and B-2.

As stated above, present geologic data indicates an easterly dip on the fault zone of 48 degrees to 80 degrees. Bulldozer trenching to be completed prior to start of hole A-1 may aid in narrowing the range of possible fault dips. In the early stage of Phase II, it is planned to penetrate from the hanging wall to at least 100 feet into the footwall. As drilling progresses, this plan may be modified. At sites A and B, the flatter hole will be drilled first in order to establish as quickly as possible the overall dip of the fault and the width and orientation of mineralized zones. On the basis of this information, the longer steeper holes, A-2 and B-2 may have to be realigned. If holes A-1 and B-1 show the fault to be much steeper than expected, or to dip westerly, the longer holes, A-2 and B-2 may have to be relocated on the limestone of the fault contact.

Diamond drill holes are to be collared NX and finished AX = EX? size (wire line). Provisions for catching the sludges are to be provided, if mineralized zones do not core well. All zones suspected of being mineralized are to be split for assaying in no greater than 5-foot lengths. It is expected that perhaps 120 samples will have to be assayed during Phase II.

PhaseIII

Phase III comprises drilling four diamond drill holes from two surface sites, as shown on exhibits 4,5. Total aggregate footage is 4445 feet, allocated as follows:

Hole C-1	925 feet
Hole C-2	1200 "
Hole D-1	1000 "
Hole D-2	1320 "

As presently planned, these holes are to be drilled in the sequence: C-1, C-2, D-1 and D-2.

Comments regarding changes in the alignment and surface sites made under Phase II above apply here also. The undertaking of Phase III is dependent on intersection of encouraging silver values or encouraging alteration zones or patterns.

Diamond drill holes are to be collared NX and be finished AX size (wire line). Provision for catching sludges are to be provided, if mineralized zones do notcore well. Zones suspected of being mineralized are to be split for assaying in no greater than 5-foot lengths. It is expected that perhaps 120 samples will have to be assayed during Phase III.

b. Access Roads and Drill Sites

Approximately 5.1 miles of access road from Nevada Highway #20 to Mineral Hill will require rehabilitation before equipment can be moved in (see exhibit 6). Four days of D-8 size bulldozer time is allocated to this job. In Phase II, drill sites A and B are to be prepared, requiring $\frac{1}{2}$ day each of D-8 size bulldozer time.

In Phase III, two days of D-8 size bulldozer time will be required to extend the road up Cave Creek Canyon to drill site C and prepare a drill station. An additional four days will be required to build a road from Cave Creek Canyon, near drill site C, to drill site D and prepare a drill station.

c. Timing

Work is expected to start no more than 30 days after the OME contract is approved, weather permitting. It is planned to use one skid-mounted, wire line surface drill rig for Phase II drilling. Assuming a penetration rate of 15 feet per shift, on a 2-shift per day basis, total time required for Phase II drilling is about 6 months.

Using the same assumptions as above, Phase III drilling should also require about 6 months.

REVISED SUMMARY OF COSTS

STAGE I

(a) Independent Contracts

Holes to be collared and drilled NX size where possible.

DRILLING BID: $2.00/foot over bid price for drilling in chert. see exhibit K.

Drilling:	
4445' @ $8.257/ft.	$ 36,705
Mobilization:	350
Cement Time:	
300 hrs @ $12.00/hour	3,600
Cement:	
178 sacks @ $7.50/sack	1,335
Truck Rental:	
$225/mo. x 6 mos.	1,350
Water Haulage:	
20 mi/day x 150 days x $0.12/mi.	360
Drivers' Wages:	
(eliminated)	
Casing Lost:	
20'/hole @ $2.95/ft. x 4 holes	236
Move to Hole #2 :	
16 hours @ $12.00/hour	192
(a) TOTAL	$ 44,128.00

STAGE I (continued)

(b) Personal Services:

	Total		Subject to Payroll Tax and Insur.
Project Supervision:			
6 mos. @ $840	$ 5,040		$ 5,040
Travel of Supervisory Personnel:			
1000 mi./mo. @ $0.10/mi. x 6 mos.	600		
Subsistance of Supervisory Personnel:			
$9/day x 30 day/mo. x 6 mos.	1,620	out	
Consulting Geologist:			
7 day/mo. @ $105/day x 6 mos.	4,410	out	
Travel, Consulting Geologist:			
2000mi/mo. @ $0.10/mi. x 6 mos.	1,200	from [illegible]	
Subsistance of Consulting Geologist:			
7 days/mo. @ $10/day x 6 mos.	420		
(b) TOTAL	$ 13,290		$ 5,040

(c) Operating Supplies:

Core Boxes	
$0.55/box @ 10'/box x 4450'	$ 245
Core Splitter	
Purchase Price	70
Core Storage Facility	50
(c) TOTAL	$ 365

126
167
133
99
514
5

STAGE I (continued)

(d) Operating Equipment:

D-8 Cat and Blade for drill sites "A" and "B" where?
Preparation & road construction.
30 hrs. @ $25/hour $ 750

(e) Initial Rehabilitation: none

(f) New Buildings: none

(g) Miscellaneous (Core Analysis)

120 samples @ $3.00/sample for what 360

TOTAL STAGE I..... $ 58,893 $ 58,893

STAGE II

(a) Independent Contracts

Holes to be collared and drilled NX size where possible.

DRILLING BID: - $2.00/ft. over bid price for drilling in chert.
see exhibit _____.

Drilling:	
4445' @ $8.248/ft.	$ 36,665
Mobilization:	350
Cement Time:	
300 hrs. @ $12.00/hr.	3,600
Cement:	
178 sacks @ $7.50/sack	1,335
Truck Rental:	
$225/mo. x 6 mos.	1,350
Water Haulage:	
20 mi/day x 150 days x $0.12/mi.	360
Drivers' Wages:	
(eliminated)	
Casing Lost:	
20'/hole @ $2.95/ft. x 4 holes	236
Move to Location "D":	
16 hrs. @ $12/hour	192
(a) TOTAL	$ 44,088

STAGE II (continued)	Total	Subject to Payroll Tax and Insur.
(b) Personal Services		
Project Supervision:		
6 mos. @ $840	$ 5,040	$ 5,040
Travel of Supervisory Personnel:		
1000 mi./mo. @ $0.10/mi. x 6 mos.	600	
Subsistance of Supervisory Personnel:		
$9/day x 30 day/mo. x 6 mos.	1,620	
Consulting Geologist:		
7 day/ mo. @ $105/day x 6 mos.	4,410	
Travel, Consulting Geologist:		
2000 mi./mo. @ $0.10/mi. x 6 mos.	1,200	
Subsistance of Consulting Geologist:		
7 days/mo. @ $10/day x 6 mos.	420	
(b) TOTAL.....	$ 13,290	$ 5,040
(c) Operating Supplies:		
Core Boxes		
$0.55/box @ 10'bbox x 4450'	$ 245	
Core Splitter	delete	
Core Storage Facility	delete	
(c) TOTAL.....	$ 245	

STAGE II (continued)

(d) Operating Equipment:

D-8 Cat and Blade for drill sites "C" and "D"

20 hrs. @ $25/hour	$ 500

(e) Initial Rehabilitation: none

(f) New Buildings: none

(g) Miscellaneous (Core Analysis)

120 samples @ $3/sample	360
TOTAL STAGE II.....	$ 58,483

TOTAL STAGE I	$ 58,893
TOTAL STAGE II	58,483
TOTAL STAGES I & II.....	$ 117,376

EXHIBIT 6

ACCESS ROAD
Mineral Hill District
Eureka County, Nevada
1:62,500
C.I. = 50'

OFFICIAL COPY
O. M.
REC
APR 1
INITIALS

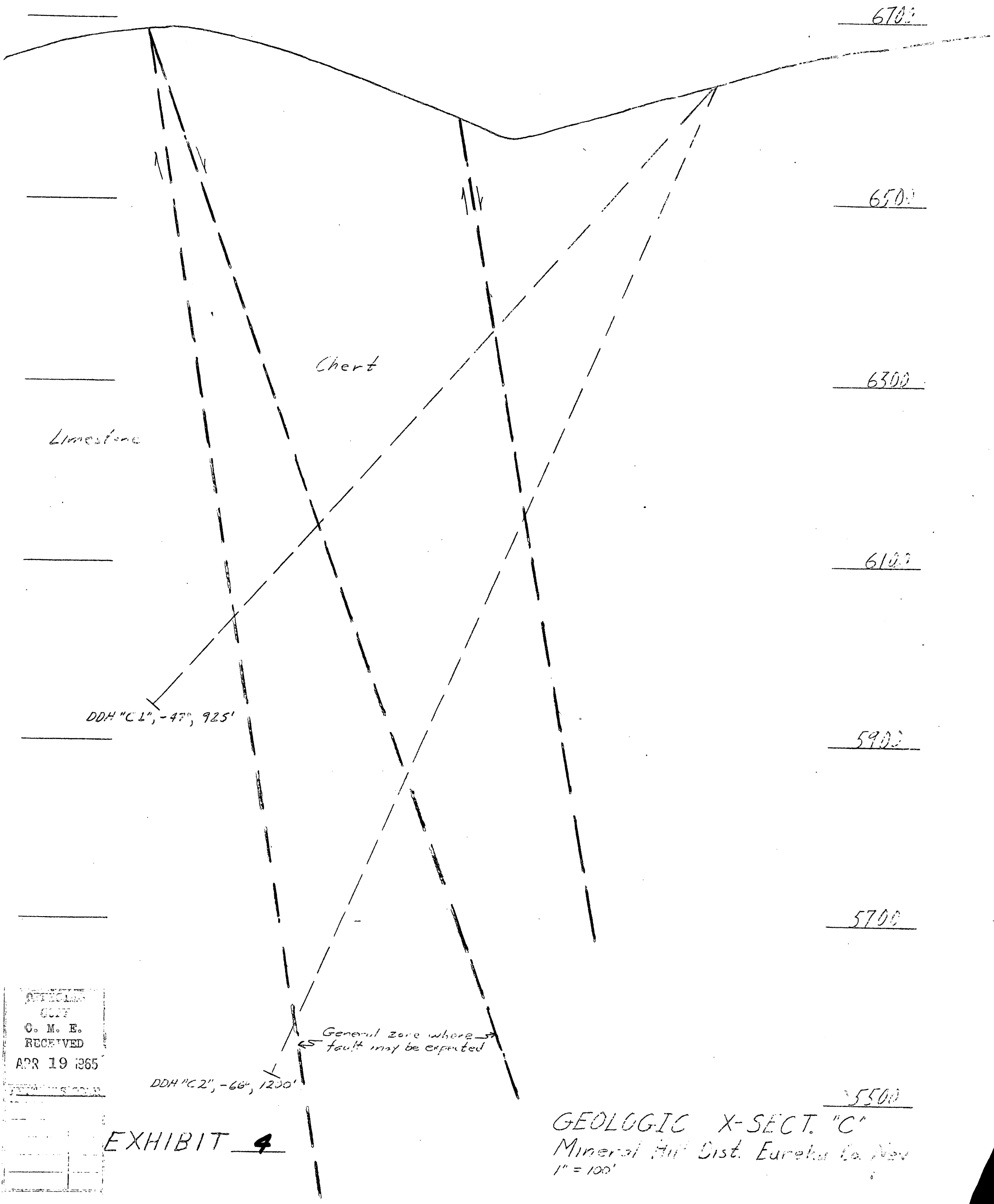


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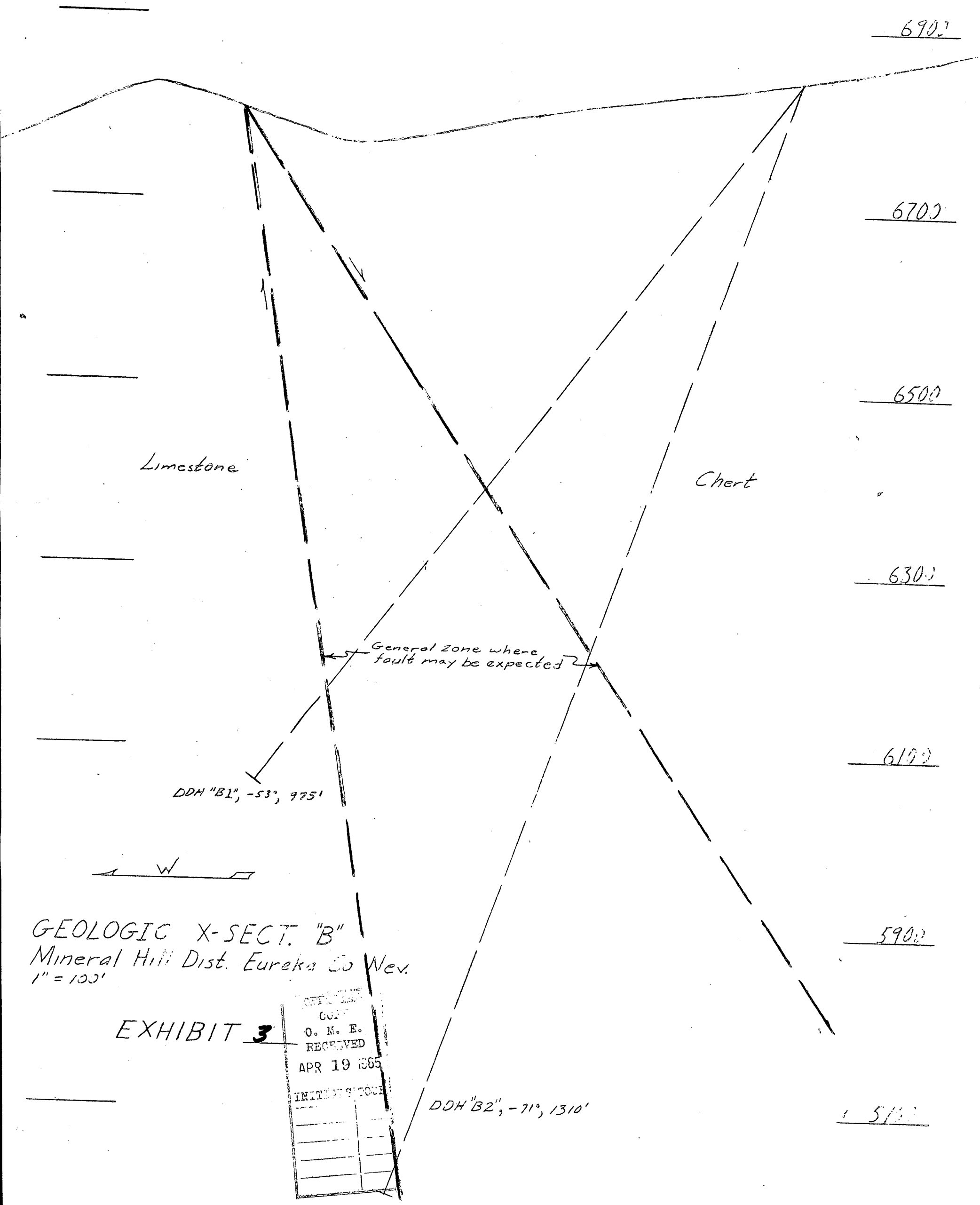
EXHIBIT 4

GEOLOGIC X-SECT. "C"
Mineral Hill Dist. Eureka Co. Nev
1" = 100'


6900
6700
6500
6300
6100
5900
5700
Limestone
Chert
General zone where fault may be expected
DDH "B1", -53°, 975'
DDH "B2", -71°, 1310'
W
GEOLOGIC X-SECT. "B"
Mineral Hill Dist. Eureka Co Nev.
1" = 100'
EXHIBIT 3
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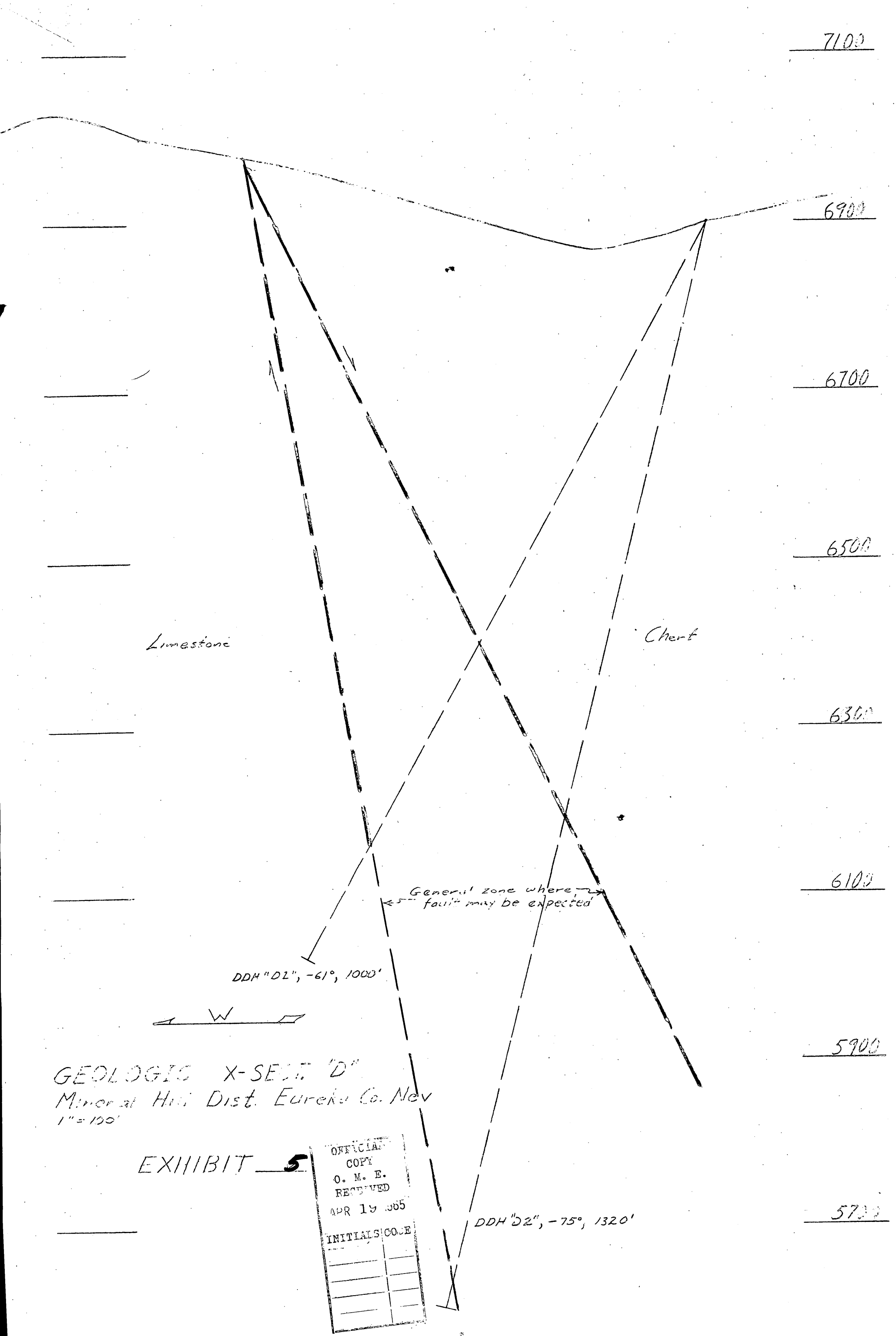

GEOLOGIC X-SECT. "D"
Mineral Hill Dist. Eureka Co. Nev
1" = 100'

EXHIBIT 5

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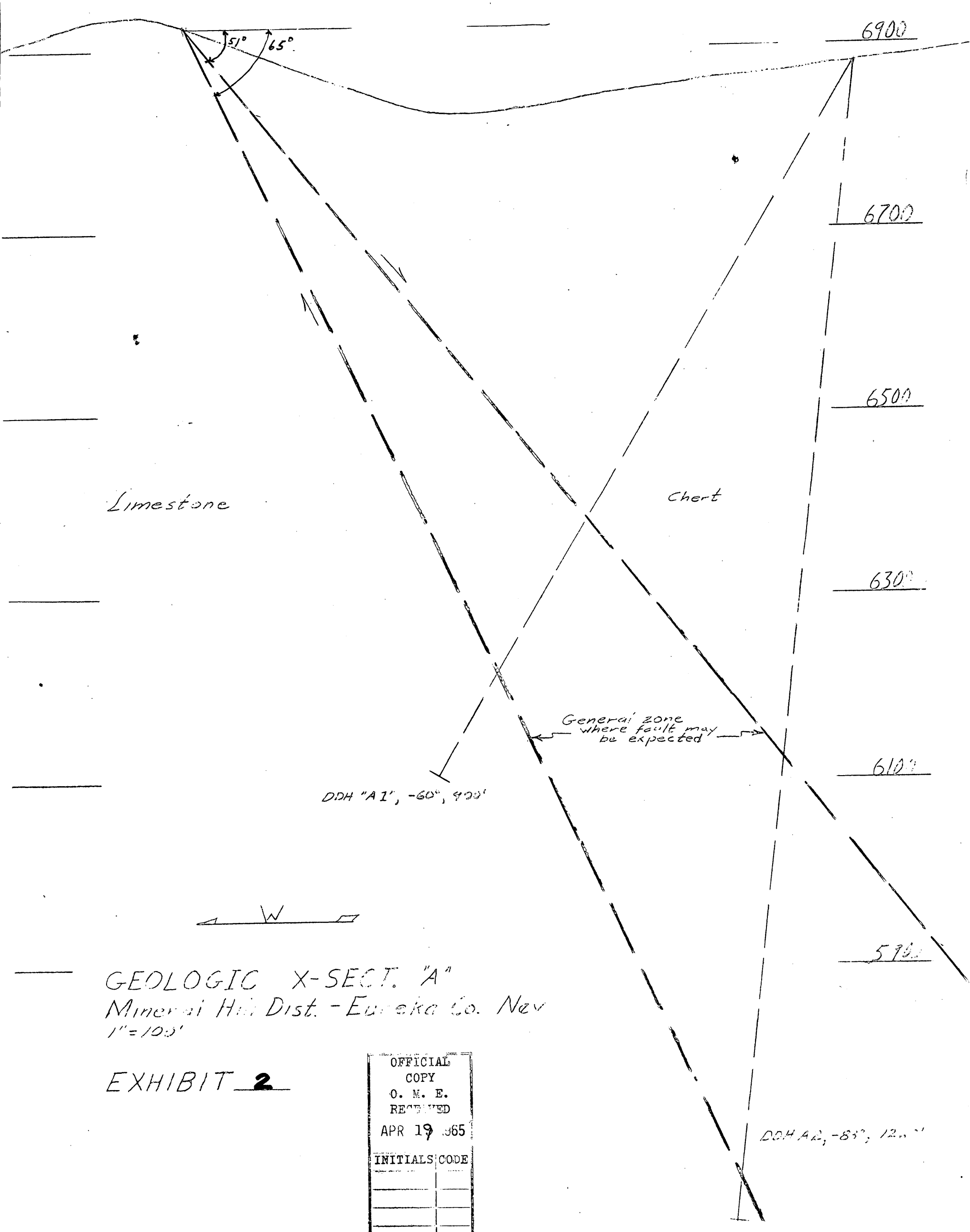

GEOLOGIC X-SECT. "A"
Mineral Hill Dist. - Eureka Co. Nev
1" = 100'

EXHIBIT 2

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UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

February 23, 1965

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FEB 25 1965

INITIALS	CODE

Air Mail

Memorandum

To : Chief, Division of Field Operations, OME, Washington, D. C.

From : Acting Field Officer, OME, Region II

Subject: New Application (Silver)
Mountain Copper Company of California
100 Mococo Road
Martinez, California 94553

Enclosed herewith is an application for financial assistance submitted by C. W. McClung, President of Mountain Copper Company of California in the amount of $93,671.

The applicant's proposal consists of a two-stage drilling program, a total of 9000 feet. The property is located in the Mineral Hill Mining District, approximately 50 miles north of Eureka, Nevada. Their primary objective is to intersect the Roberts thrust fault at about 800 feet in hopes of encountering the lower plates (carbonates) of favorable mineraliaztion. A geochemical sampling program and geologic mapping was conducted by the applicant during the past year.

It is recommended that a field examination be made to determine to what extent the Government's participation is warranted.

Paul V. Fillo

Paul V. Fillo

Enclosure

cc:
Chief, Division of Field Operations, OME, Wash., D. C.

MOUNTAIN COPPER COMPANY
of California

100 MOCOCO ROAD
MARTINEZ, CALIFORNIA
PHONE: 228-5530
AREA CODE: 415

February 19, 1965

FEB 1965
BUREAU OF MINES
OFFICE OF
MINERALS EXPLORATION
REGION 11

Mr. Paul V. Fillo
Office of Minerals Exploration
U. S. Bureau of Mines
U. S. Department of Interior
450 Golden Gate Avenue
San Francisco, California

Dear Mr. Fillo:

I am herewith submitting for your approval two copies of application for an O.M.E. loan for our Mineral Hill project. We have discussed this project with you and have incorporated a two-stage drilling program as you suggested.

Trusting the application meets with your approval, we will have a man available to show you the property at your convenience. You may contact us by phone at (Area Code 415) 228-5530 or write to the following address:

Mountain Copper Company of California
100 Mococo Road
Martinez, California 94553

Very truly yours,

V. P. Bluege

V. P. Bluege
Director of Exploration

VPB:ea
encl.

OFFICIAL
COPY
O. M. E.
RECEIVED
FEB 25 1965
INITIALS CODE

APPLICATION FOR FINANCIAL ASSISTANCE IN MINERALS EXPLORATION

Mineral Hill District
Eureka County, Nevada

MOUNTAIN COPPER COMPANY OF CALIFORNIA
100 MOCOCO ROAD
MARTINEZ, CALIFORNIA 94553

February 19, 1965

MME Form 40
July 1962

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

Budget Bureau No. 42–R1368
Approval expires Dec. 31, 1963

APPLICATION FOR FINANCIAL ASSISTANCE IN MINERALS EXPLORATION

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

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

MOUNTAIN COPPER COMPANY OF CALIFORNIA
100 Mococo Road
Martinez, California 94553

APPLICANT DO NOT USE THIS BLOCK

DOCKET NUMBER 6427

DATE RECEIVED 2-25-65

REGION H

DIVISION CODE

BUSINESS ORGANIZATION *(Check one)*

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

STATE IN WHICH FIRM IS ORGANIZED California

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

NAME	ADDRESS	TITLE
C. W. McClung	100 Mococo Rd. Martinez, Calif.	President
D. H. Miller	400 Montgomery St. -San Francisco	V. Pres.
J. W. Rakow	100 Mococo Rd. -Martinez, Calif.	Sect'y-Treas.

MINERAL(S) FOR WHICH YOU WISH TO EXPLORE
Silver

ESTIMATED COST OF PROJECT
$ $93,671.00

PROPERTY NAME / LOCATION COUNTY / STATE
Mineral Hill-Eureka County - Nevada

GENERAL INSTRUCTIONS

Before filling out this application, please read the *OME Regulations for Obtaining Federal Assistance in Financing Explorations for Mineral Reserves* (30 CFR Chap. III). To assure prompt action, your application must provide all applicable material and information specified on the back of this application form. Avoid unnecessary correspondence and delays by submitting complete and accurate information. *Please submit two copies of this application and all accompanying papers* except as otherwise noted. Place your name and address on each sheet. Each item of information, maps, and reports required as a part of this application is described on the back of this form. Identify each attached statement by the item number to which it applies. If an item does not apply to your application, show the item number on your statement and after it write "not applicable." Maps or sketches should be used to supplement narrative descriptions of the property location and boundaries in item 2, existing mine workings and geology in item 3, and the proposed exploration work in item 5. When this information is not too complex, all of it may be shown on one map or sketch. All documents and other attachments submitted as a part of this application, except those in item 3(g) which you mark to be returned, become the property of the Government and will not be returned to the applicant. Send true copies, *not originals*, of leases, contracts, and other documents which are an essential part of your business records. *File this application with the Office of Minerals Exploration, Department of the Interior, Washington 25, D. C., or with the nearest OME Field Office.*

CERTIFICATION

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

February 19, 1965
DATED

C. W. McClung
BY *(Signature)*

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. Financial Eligibility:

(a) Submit evidence of efforts made within 90 days preceding the filing of this application to obtain credit from your bank of account and at least one other banking institution or other private source of credit. Such evidence shall include true copies of correspondence which show: (1) date of loan request, (2) amount and terms requested, (3) proposed use of loan funds, and (4) the replies from credit sources. If the loan was offered under terms which you consider unreasonable, state why you consider them so.

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

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

2. Applicant's Rights in Land:

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

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

(c) For all land or mineral rights encumbered or not owned, submit five copies of Lien and Subordination Agreements on MME Form 52. If the agreements cannot be obtained, state reasons and provide copies of letters of refusal.

3. Physical Description:

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

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

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

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

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

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

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

4. Accessibility of Property:

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

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

5. Exploration Work:

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

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

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

6. Experience:

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

7. Estimate of Costs:

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

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

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

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

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

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

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

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

.-DUP. SEC., WASH., D.C.11879

APPLICATION FOR FINANCIAL ASSISTANCE IN MINERALS EXPLORATION

INTRODUCTION

This application by Mountain Copper Company of California, applicant, a California Corporation, is for assistance in the exploration of the Moco mining claims, Mineral Hill District, Eureka County, Nevada, in which it is believed that commercial deposits of silver bearing ores may be found. Pursuant to the regulations of the Office of Minerals Exploration, Department of Interior, United States of America, these attachments to M.M.E. Form 40 answer, to the best of our knowledge, the information required.

It is proposed to further explore the geologic targets in the Mineral Hill window suggested in Ralph Robert's writing in the U.S.G.S. publication, Research--1960. This applicant believes that this undertaking has inherent in it, a degree of risk greater than that normally assumed by private exploration companies and, accordingly, Applicant would not normally undertake such exploration at its sole expense under current economic conditions.

I. Financial Eligibility

(a). Mountain Copper Company of California has approached its bank of account, the Bank of America, and also the Wells Fargo Bank regarding the availability of funds for this exploration program and discovered such funds were not available under terms which it considered reasonable, as evidenced by the attached letters. Exhibits A B C D E.

(b). The Mountain Copper Company, Limited, 100 Mococo Road, Martinez, California, is the parent company and owns 100% of the Mountain Copper Company of California.

(c). Mountain Copper Company of California will furnish sufficient funds from its own accounts to provide for the Applicant's share of the project.

II. Applicant's Rights in Land

(a). Mountain Copper Company of California owns the following mineral rights under Nevada Mining Claims procedure and Public Law 167, as having located and performed assessment work on the unpatented claims in the Mineral Hill District, Eureka County, Nevada.

(a). Continued.

Moco lode location numbers five (5) through twenty-four (24) inclusive.

(b). Legal description of the Applicant's property is recorded in the County Court House--Eureka County, Nevada--as shown in Exhibit F.

(c) Not applicable.

III. Physical Description

Introductory Statement

The area for which OME application is made comprises a segment of the Roberts Mountain thrust fault in and southward of the Mineral Hill Mining District, Eureka County, Nevada. R. J. Roberts, writing in U.S.G.S. Professional Paper 400, beginning at page B-17, describes the localization of mining districts and ore deposits of eastern Nevada in and near erosional windows in the Roberts Mountain thrust fault. These erosional windows are the result of post thrust doming along northwesterly trending belts, with subsequent erosion exposing the lower plate Paleozoic carbonate rocks in the windows surrounded by upper plate Paleozoic volcanics, cherts, shales and shaley limestones. Roberts states that doming is probably due to intermittent Tectonic activity along the northwesterly trending belts since the end of thrusting in the Mississippian period. And this Tectonic activity culminated in the implacement of igneous bodies and formation of ore deposits in the late Jurassic or early Tertiary time. Specifically at Mineral Hill, Roberts feels that the district is on a less distinct Tectonic belt.

A. To the best of our knowledge there is not now, nor has there ever been mining (i.e. extraction of ores in commercial quantities) on the property. Exploration work to date consists of a few test pits put down presumably during the earlier period of mining activity on Mineral Hill proper, and three diamond drill holes put down in 1962, by the Union Carbide Company. These Union Carbide holes collared between 300 and 500 feet in the footwall westerly of the surface trace of the Roberts Mountain thrust fault and did not explore the thrust fault or immediate vicinity (see Exhibit G, H).

Detailed structure of the district as shown in Exhibit G seems to indicate a steep easterly dip on the Roberts Mountain thrust fault. The thrust fault has been faulted and displaced by northeasterly trending faults. During the development of the late Basin and Range structures, the area appears to have been tilted downward to the east. Evidence of this can be seen in the tilting of the younger volcanics of Table Mountain located southwest of Mineral Hill. Removing this tilt from the dip of the Roberts Mountain thrust fault results in a flatter dip on the thrust fault.

The thrust fault zone proper appears to be composed of limestone variably silicified and in places massive calcite at the footwall, followed toward the hanging wall by a broken and jumbled zone of chert, limestone, silicified limestone and iron oxide. Within this broken and jumbled zone, shaley portions of the Vinini are bleached and argillized and occasional pieces of leached gossanous material are found. The broken and jumbled zone changes over a short distance towards the hanging wall to the normal undisturbed chert.

Since no penetration of the thrust fault or vicinity has ever been made in the district, we cannot predict with certainty the type deposit or minerals likely to be encountered. However, ores produced from the Mineral Hill proper described by Emmons (U.S.G.S. Bulletin #408, page 95) consisted of argentite, sphalerite, galena, copper sulfide and pyrite in a calcite quartz, barite and brecciated limestone gangue. These ores were mined from fissure veins in limestone. These fissures dip generally westerly, are 10 to 45 feet wide, and are rarely more than 150 feet deep. According to Emmons (op.cit.) gross production from these mines to 1910 was $6,000,000, almost all in silver. In the early days of the camp, ores with a value of $200 per ton were produced, but later ores ran $25 per ton. It is this type of deposit and mineral suite we expect to encounter in the limestones but, as stated by Roberts (op.cit.), the cherts next to the thrust fault should not be ignored in exploration.

In june of 1964, the Mountain Copper Company conducted reconnaissance geologic mapping and geochemical sampling in the Mineral Hill district. This reconnaissance work indicated anomalous concentrations of lead and zinc in soil along and near the Roberts Mountain thrust fault. Reconnaissance work was followed by detailed geologic mapping, geochemical sampling and some self-potential geophysical work. Detailed work defined a fairly persistent zone of anomalously high concentration of lead and zinc in the soil along and near the Roberts Mountain

thrust fault (see Exhibit I). Self-potential work shows a potential low of slightly more than 300 millivolts relief centered along and slightly east of the thrust fault on the hanging wall side (see Exhibit I).

B. Not Applicable (none)

C. Not Applicable (see A)

D. Not Applicable (none)

E. Lerner, Tagg, Bell and Roberts, in their preliminary geologic map of Eureka County, Nevada (U.S.G.S. map, MF-178) show a segment of the Roberts Mountain thrust fault trending southerly from just east of Mineral Hill proper to south of Cave Hill. This thrust segment brings the upper plate Ordivician Vinini chert up and over Devonian limestones. Vinini chert in the district is a black, finely crystalline, highly fractured rock with shale and shale limestone lenses and is typical of the Vinini elsewhere in eastern Nevada. The limestone of the district is blue-grey to white and massive, but shows vague bedding trending northerly and dipping westerly.

F. Reasons for expecting to find ore as stated in the foregoing are:

1. Prospect is along Roberts Mountain thrust fault in one of the domical windows which localize ore deposits elsewhere in eastern Nevada as described by R. J. Roberts (op.cit.)

2. Presence of geochemical and self-potential geophysical anomalies along and adjacent to the thrust fault.

3. Presence of silicification, iron oxide and occasional pieces of leached gossan material and argillaceous alteration in dozer trenches across the fault zone. ?

4. Production of commercial ores from the mines of Mineral Hill proper in the vicinity of the property. Exhibit M

1965 prices:
Pb $ 3,431,000
Ag 1,015,000
Cu 132,000
Zn 66,000
Au 55,000

Which mines?

G. We do not require return of the attached maps.

IV. Accessibility of Property

(a) The OME representative will be met and shown the property by either:

Mr. R. L. Coppage or Mr. V. P. Bluege
100 Mococo Road -- Martinez, California

The property is located approximately fifty (50) miles north of the town of Eureka, Nevada. The enclosed road map shows it can be reached by taking Highway 20 north from Eureka, Nevada for a distance of forty-five (45) miles, and then eastward over a passable truck road for five (5) miles to the property; or, by driving south on Highway 20 from the town of Carlin, Nevada for forty-five (45) miles and then eastward for five (5) miles, over the aforementioned truck road, to the property.

(b) The nearest railroad shipping point is located at Palisade, Nevada. This is served by the Southern Pacific Railroad and is forty-five (45) miles, by highway 20, north of the property. Any materials needed may be shipped to this point and then trucked to the property. Mining equipment may be purchased from stores located in either Ely or Elko, Nevada.

V. Exploration Work

Reference should be made to Exhibits G H I J as illustrations for the following proposed work.

(a) Mountain Copper Company of California proposes a two-stage, core drilling program based on the results of its geochemical and geophysical prospecting. The first stage would consist of drilling two holes of 1000 feet each to intersect the thrust fault at eight hundred feet of vertical depth, as shown in Exhibit H. These holes will determine if Mountain Copper Company of California continues to the second stage. Stage #II would consist of eight thousand (8000) feet of additional core drilling in eight or ten holes to evaluate the extent of the orebody. The locations of these additional holes will be dependent upon the information gathered from holes One and Two and cannot be plotted at this time.

Experience on other drill projects has been used as a basis for estimating costs in addition to the contract bids supplied by Boyles Brothers Drilling Company, and Joy Manfacturing Company, as shown in Exhibits K L.

(b) Access roads and drill sites for Stage I were prepared before application for an OME loan. Five hundred ($500) dollars is allocated in the cost estimate of Stage II preparation of drill sites. These sites are dependent on results of holes One and Two.

V. (c) Timing: Work is expected to start within thirty days after the OME contract is approved, weather permitting.

Drilling for the first stage of this project is to be done by one skid mounted wireline surface rig, working two shifts per day, six days per week. Twenty feet of drilling per shift is expected. After the initial 2000' of drilling is completed, another skid mounted wireline drill will be used to complete the additional 8000'.

Stage I	Individual Time	Cumulative Time
Drilling 2000' @ 20'/shift with one rig - 50 days @ 25 das./month.	2 months	
Stage II		
Drilling 8000' @ 20'/shift with two rigs - 100 days @ 25 das./month.	4 months	
Total project time - Stages I and II		6 months

VI. Experience

Mountain Copper Company of California is a wholly owned subsidiary of the parent company, The Mountain Copper Company, Limited, which operated its mine in Shasta County, California continuously for fifty-eight years. The project will be supervised by an engineer of Mountain Copper Company of California who supervised a similar project for them in Arizona.

VII. Estimate of Costs

Cost estimates are based on bids from two core drilling companies. Refer to Exhibits K, L.

EXHIBIT _____

SUMMARY OF COSTS

STAGE I

(a) Independent Contracts

Holes to be collared and drilled NX where possible.

Drilling Bid - (see letter of November 30, 1965.)

Drilling	
2000' @ $6.3125/ft.	$ 12,625
Mobilization	350
Cement Time	
135 hrs. @ $12/hr.	1,620
Cement	
80 sacks @ $7.50/sack	600
Truck Rental	
$225/mo. x 2 mos.	450
Water Haulage	
20 mi./day x 50 days x 12¢/mile	120
Drivers' Wages	
50 days @ $2.50/hr. x 8 hr./day	1,000
Casing Lost	
20'/hole @ $2.95/ft. x 2 holes	118
Move to Hole #2	
16 hrs. @ $12/hr.	192
(a)-Total	$ 17,075

EXHIBIT _____

STAGE I

(b) Personal Services

	Total	Subject to Payroll Tax and Insur.
Project Supervision (includes sampling) 2 mos. @ $840	$ 1,680	$ 1,680
Travel of Supervisory Personnel		
1000 mi/mo @ 10¢/Mi. x 2mo	200	none
Subsistance of Supervisory Personnel		
$9/da x 60 das. x 2 mos.	540	none
Consulting Geologist		
3 das/mo @ $105/da x 2 mos.	630	none
Travel of Con. Geologist		
1000mi/mo @ 10¢/mi x 2 mos.	200	none
Subsistance of Consulting Geologist		
3 das/mo. @ $10/day x 2 mo.	60	none
(b)-Total.....	$ 3,310	$ 1,680

(c) Operating Supplies

Core Boxes	
55¢/box @ 10'/box x 2000'	$ 110
Core Splitter	
2 mos @ $20/mo. (rent)	40

EXHIBIT _____

STAGE I

(c) Operating Supplies (continued)

Core Storage Facilities	$ 50.	
Total	$ 200	
(d) Operating Equipment	none	
(e) Initial Rehabilitation	none	
(f) New Buildings	none	
(g) Miscellaneous - (Core Analysis)	150	
Total - Stage I	$20,735	$ 20,735

***

STAGE II

(a) Independent Contracts

Holes to be collared and drilled NX where possible.

Drilling	
8000' @$6.3125/ft.	$ 50,500
Mobilization	350
Cement Time	
505 hrs. @ $12/hr.	6,060
Cement	
320 sacks @ $7.50/sack	2,400

EXHIBIT _____

STAGE II

(a) Independent Contracts (continued)

Truck Rental	
$225/mo. x 4 mos.	$ 900
Water Haulage	
40 mi/day x 100 days x 12¢/mi.	480
Drivers' Wages	
100 days @ $2.50/hr. x 8 hr./day	2,000
Casing Lost	
20'/hole @ $2.95/ft x 8 holes	472
Move to holes 1 - 8	
16 hrs. @ $12/hr. x 7 holes	1,344
(a) - Total	$ 64,506

(b) Personal Services

	Total	Subject to Payroll Tax & Insurance
Project Supervision (includes sampling) 4 mos. @ $840	$ 3,360	$ 3,360
Travel of Supervisory Personnel		
1000 mi/mo. @ 10¢/mi. x 4 mos	400	none
Subsistance of Supervisory Personnel		
$9/da. x 120 das. x 4 mos.	1,080	none

EXHIBIT _____

STAGE II

(b) Personal Services (continued)

	Total	Subject to Payroll Tax & Insurance
Consulting Geologist		
3 das/mo. @ $105/da. x 4 mos.	$ 1,260	none
Travel of Consulting Geologist		
1000 mi/mo. @ 10¢/mi x 4 mos.	400	none
Subsistance of Consulting Geologist		
3 das/mo. @ $10/day x 4 mo.	120	none
(b) Total	$ 6,620	$ 3,360

(c) Operating Supplies

Core Boxes	
55¢/box @ 10'/box x 8000'	$ 440
Core Splitter	70
Core Storage Facility	200
(c) Total	$ 710

(d) Operating Equipment

D8 Cat & Blade(drill site preparation) $20/hr x 25 hrs	$ 500

(e) Initial Rehabilitation none

EXHIBIT _____

STAGE II (continued)

(f) New Buildings — none

(g) Miscellaneous

Core Analysis	$ 600	
Total Stage II.....	$ 72,936	$ 72,936
Total Stages I and II.....		$ 93,671

February 2, 1968

A

Copies to: Walton Lawrence, Assistant Vice President
Wells Fargo Bank
464 California Street
San Francisco

Julius Saccone, Vice President
Bank of America
400 Montgomery Street
San Francisco, California

Mountain Copper Company of California recently evaluated the results of its geochemical and self potential geophysical prospecting for silver on its twenty-four claims in the Mineral Hill District of Nevada. It was concluded that further exploration by core drilling is indicated. This drill program will be carried forth in two stages. Two holes of one thousand feet each are planned for the initial work. These holes are to be drilled in the areas of the highest anomalies and are to intercept the thrust fault at about 800 feet of vertical depth. Results of these two holes will determine if Mountain Copper Company continues to the second stage--to find the extent of the orebody. It is not possible at this time to say how much core drilling is necessary to accomplish this, but 5000 additional feet in eight or ten holes appears to be a reasonable estimate. Costs are calculated as indicated on the attached summary sheet.

Mountain Copper Company of California would like to know the terms under which you would consider loaning money for the project. The amount requested is seventy thousand dollars ($70,000) which is approximately seventy-five percent (75%) of the total cost of the proposed two stage program.

Thank you for your kind attention to this matter.

Very truly yours,

V. P. Diego
Director of Exploration

VPD:oa

SUMMARY OF COSTS

STAGE I

DRILLING

a.	Independent Contracts (2000' of NX Drilling)	$ 17,075
b.	Personal Services (Engineering, etc.)	3,310
c.	Operating Supplies	200
d.	Operating Equipment	--
e.	Rehabilitations	--
f.	New Buildings	--
g.	Miscellaneous	150
	Total	$ 20,735

STAGE II

DRILLING

a.	Independent Contracts (8000' of NX Drilling)	$ 64,996
b.	Personal Services	6,620
c.	Operating Supplies	720
d.	Operating Equipment	--
e.	Rehabilitations	--
f.	New Buildings	--
g.	Miscellaneous	600
	Total	$ 72,936

STAGES I and II - Total Cost	$ 93,671

B

Copies also to: J. [illegible] Sacco
Vice President
Bank of America
400 Montgomery St.
San Francisco, Cal.
&
cc: to C. J. McFadden
Bank of America
485 California St.
San Francisco

February 10, 1965

Walton Lawrence,
Assistant Vice President
Wells Fargo Bank
464 California Street
San Francisco, California

Dear Mr. Lawrence:

On February 2, 1965, our Director of Exploration, V. F. Bisogno, wrote to you in connection with the possible financing of an exploration program we are contemplating in the Mineral Hill District of Nevada.

We would expect to use our unpatented mining claims, on which all current assessment work has been completed, as security for funds advanced and to make repayment from the sales of the claims or any metals or minerals recovered therefrom. We would not be willing to make any funds advanced a general obligation of the company, or use any assets other than those acquired for use on this project, as security for the loan.

Sincerely,

J. W. Rakow
Secretary-Treasurer

JWR:ca

C

Since 1852

WELLS FARGO BANK

February 11, 1963

HEAD OFFICE
464 CALIFORNIA STREET
SAN FRANCISCO 20, CALIFORNIA

Mountain Copper Company of California
100 Macece Road
Martinez, California

Attention: Mr. J. W. Baker, Secretary-Treasurer

Gentlemen:

We have reviewed your application for a $70,000 loan, the proceeds of which are to be used for geophysical exploration in the Mineral Hill District of Nevada. We understand that it is your intention to secure such a loan with unpatented mining claims and that we would place full reliance for repayment upon the sales of the claims of any metal or minerals recovered therefrom.

We regret to say that we are not interested in making a loan of this type at this time. We would be happy to discuss any further proposals at some future date. Please call me if there are any questions.

Sincerely yours,

Walton M. Lawrence
Assistant Vice President

WML:ral

Cable Address — BANKAMERICA

Bank of America
NATIONAL TRUST AND SAVINGS ASSOCIATION

SAN FRANCISCO MAIN OFFICE • 400 CALIFORNIA STREET • SAN FRANCISCO 6, CALIFORNIA

D

J. P. SACCONE
VICE PRESIDENT

February 12, 1955

Mr. J. W. Rakow, Secretary-Treasurer
Mountain Copper Company of California
100 Nevada Bank
Martinez, California

Dear Mr. Rakow:

This will acknowledge letter of February 8 from Mr. V. P. Bluege, Director of Exploration, requesting a $70,000 loan in connection with financing an exploration program of your company. We also acknowledge your letter of February 10 limiting repayment of the loan to sales of claims or any metals or minerals recovered therefrom.

Based on the terms expressed in your letter of February 10, this loan is not satisfactory to us and consequently unacceptable.

Sincerely,

J. P. Saccone
Vice President

JPS:la
cc: Mr. C. J. McPaddon

E

Copy sent to
W. Lawrence
Wells Fargo.

February 15, 1965

Mr. J. F. Saccomo
Vice President
Bank of America
485 California Street
San Francisco 4, California

Dear Mr. Saccomo:

I wish to express my appreciation for your prompt consideration to our request for a loan in connection with the proposed exploration in the Mineral Hill District of Nevada.

Sincerely,

J. W. Rasow
Secretary-Treasurer

JWR:ca

cc: Mr. C. J. McFadden

EXHIBIT F

CERTIFICATES OF LOCATION

MOCO Claims Recorded Eureka County, Nevada

Claim No.	File No.	Book	Page	Recorded
Moco #5	40585	6	408	January 22, 1965
6	40586		409	
7	40587		410	
8	40588		411	
9	405869		412	
10	40589		413	
11	40590		414	
12	40591		415	
13	40592		416	
14	40593		417	
15	40594		418	
16	40595		419	
17	40596		420	
18	40597		421	
19	40598		422	
20	40599		423	
21	40600		424	
22	40601		425	
23	40602		426	
24	40603		427	

File No. 40585 BOOK 6 PAGE 408

Certificate of Location of Lode Claim

THIS IS TO CERTIFY that a Lode Mining Claim named the Moco #5

was located by R. L. Coppage

on the 20th day of November, 1964; that it is situated in Mineral Hill Mining District Eureka County, State of Nevada, and about 700' S.W. ~~35 ft~~ ~~ft~~ distant from ~~Eureka,~~ ~~Nevada~~ Crest of Mineral Hill - Moco #5 is contiguous with Moco #6 on E and Moco #12 on S.

, as near as known from present developments; and that he claim(s) 1500 linear feet along the course of the mineral bearing ledge, lode, vein or deposit extending 750 feet from the location monument in a Northerly direction, and 750 feet in a Southerly direction, together with Three Hundred feet in width on each side of the ledge for the entire length of the claim.

The discovery work consists of a bulldozer cut exposing the bed rock

situated about 20' feet in a Southerly direction from the location monument, and its dimensions are 10 feet wide 20 feet long and 3½ feet deep, exposing the ledge, vein or mineral deposit. Total cost of said work was $ 25.00.

This claim was monumented on the 20th day of November, 1964.

The NE corner is marked by a 4"x4" Post 4' feet high, inscribed NE corner Moco #5 mining claim; the SE corner is marked by a 4"x4" Post 4' feet high, inscribed SE corner Moco #5 mining claim; the SW corner is marked by a 4"x4" Wood Post 4 feet high, inscribed S.W. corner Moco #5 mining claim; the N.W. corner is marked by a 4"x4" 4 feet high, inscribed N.W. corner Moco #5 mining claim. There is also a 4"x 4" wood Post at the center of each side line. The discovery work has been done and the location completed January 21, 1965.

Richard L. Coppage
126 Homewood Dr.
Concord, Calif.

Locators Addresses

(Other Mining Forms Also Sold by Review-Miner, Lovelock, Nev.)

Recorder's Use Only

File No. 40585
RECORDED AT THE REQUEST OF
R. L. Coppage
January 22 A. D. 1965
At 02 minutes past 2 P. M.
In Book 6 of OFFICIAL RECORDS
Page 408 Records of
EUREKA COUNTY, NEVADA
Hilliss A. DePaoli Recorder
Fee $1.00

File No. 40586 BOOK 6 PAGE 409

Certificate of Location of Lode Claim

THIS IS TO CERTIFY that a Lode Mining Claim named the Moco #6

was located by R. L. Coppage

on the 20th day of November, 1964; that it is situated in Mineral Hill Mining District Eureka County, State of Nevada, and about 200' ~~[illegible]~~ ~~N~~ Due S distant from ~~Eureka, Nevada~~ Crest of Mineral Hill - Moco #6 is Contiguous with Moco #5 on W., Moco #7 on E, and Moco #11 on S, as near as known from present developments; and that he claim(s) 1500 linear feet along the course of the mineral bearing ledge, lode, vein or deposit extending 750 feet from the location monument in a Southerly direction, and 750 feet in a Northerly direction, together with Three Hundred feet in width on each side of the ledge for the entire length of the claim.

The discovery work consists of a bulldozer cut

situated about 2 feet in a Westerly direction from the location monument, and its dimensions are 12 feet wide 20 feet long and 2 feet deep, exposing the ledge, vein or mineral deposit. Total cost of said work was $ 25.00.

This claim was monumented on the 20th day of November, 1964

The NE corner is marked by a 4"x4" Wood Post 4 feet high, inscribed NE corner Moco #6 mining claim; the SE corner is marked by a 4"x4" Wood Post 4 feet high, inscribed SE corner Moco #6 mining claim; the SW corner is marked by a 4"x4" Wood Post 4 feet high, inscribed SW corner Moco #6 mining claim; the NW corner is marked by a 4"x4" Wood Post 4 feet high, inscribed NW corner Moco #6 mining claim. There is also a 4"x4" Wood Post at the center of each side line. The discovery work has been done and the location completed January 21, 1965.

Richard L. Coppage
126 Homewood Dr.
Concord, Calif.

Locators Addresses

(Other Mining Forms Also Sold by Review-Miner, Lovelock, Nev.)

Recorder's Use Only

File No. 40586
RECORDED AT THE REQUEST OF
R. L. Coppage
January 22 A. D. 1965
At 03 minutes past 2 P.M.
in Book 6 of OFFICIAL RECORDS
Page 409 Records of
EUREKA COUNTY, NEVADA
Nellie A. Deltard Recorder
Fee $ 1.00

File No. 40587 BOOK 6 PAGE 410

Certificate of Location of Lode Claim

THIS IS TO CERTIFY that a Lode Mining Claim named the Moco #7

was located by R. L. Coppage

on the 20th day of November, 1964; that it is situated in Mineral Hill Mining District Eureka County, State of Nevada, and about 700' S.E ~~50 miles~~ ~~N~~ distant from ~~Eureka~~, ~~Nevada~~ Crest of Mineral Hill - Moco #7 is Contiguous W/ Moco #6 on W, Moco #8 on E & Moco #10 on S, as near as known from present developments; and that he claim(s) 1500 linear feet along the course of the mineral bearing ledge, lode, vein or deposit extending 750 feet from the location monument in a Northerly direction, and 750 feet in a Southerly direction, together with Three Hundred feet in width on each side of the ledge for the entire length of the claim.

The discovery work consists of a bulldozer cut

situated about 2 feet in a Westerly direction from the location monument, and its dimensions are 12 feet wide 20 feet long and 2½ feet deep, exposing the ledge, vein or mineral deposit. Total cost of said work was $ 25.00.

This claim was monumented on the 20th day of November, 1964.

The NE corner is marked by a 4"x4" Wood Post 4 feet high, inscribed NE corner Moco #7 mining claim; the SE corner is marked by a 4"x4" Wood Post 4 feet high, inscribed SE corner Moco #7 mining claim; the SW corner is marked by a 4"x4" Wood Post 4 feet high, inscribed SW corner Moco #7 mining claim; the NW corner is marked by a 4"x4" Wood Post 4 feet high, inscribed NW corner Moco #7 mining claim. There is also a 4"x4" Wood Post at the center of each side line. The discovery work has been done and the location completed January 21, 1965.

Richard L. Coppage
126 Homewood Dr.
Concord, Calif.

Locators Addresses

(Other Mining Forms Also Sold by Review-Miner, Lovelock, Nev.)

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File No. 40587
RECORDED AT THE REQUEST OF
R. L. Coppage
January 22 A. D. 19 65
At 04 minutes past 2 P M.
in Book 6 of OFFICIAL RECORDS
Page 410 Records of
EUREKA COUNTY, NEVADA
Julia A. DeLash Recorder
Fee $1.00

File No. 40588 BOOK 6 PAGE 411

Certificate of Location of Lode Claim

THIS IS TO CERTIFY that a Lode Mining Claim named the Moco #8

was located by R. L. Coppage

on the 20th day of November, 1964; that it is situated in Mineral Hill Mining District Eureka County, State of Nevada, and about 1500' ~~[illegible]~~ S60°E distant from ~~[illegible]~~, ~~[illegible]~~ Crest of Mineral Hill - Moco #8 is contiguous with Moco #7 on W, & Moco #9 on S

, as near as known from present developments; and that he claim(s) 1500 linear feet along the course of the mineral bearing ledge, lode, vein or deposit extending 750 feet from the location monument in a Northerly direction, and 750 feet in a Southerly direction, together with Three Hundred feet in width on each side of the ledge for the entire length of the claim.

The discovery work consists of a bulldozer cut

situated about 2' feet in a Northerly direction from the location monument, and its dimensions are 12 feet wide 22' feet long and 3 feet deep, exposing the ledge, vein or mineral deposit. Total cost of said work was $25.00.

This claim was monumented on the 20th day of November, 1964

The NE corner is marked by a 4"x4" wood Post 4 feet high, inscribed NE corner Moco #8 mining claim; the SE corner is marked by a 4"x4" wood Post 4 feet high, inscribed SE corner Moco #8 mining claim; the SW corner is marked by a 4"x4" Wood Post 4 feet high, inscribed SW corner Moco #8 mining claim; the NW corner is marked by a 4"x4" wood Post 4 feet high, inscribed NW corner Moco #8 mining claim. There is also a 4"x4" wood Post at the center of each side line. The discovery work has been done and the location completed January 21, 1965.

Richard L. Coppage
126 Homewood Dr.
Concord, Calif.

Locators Addresses

(Other Mining Forms Also Sold by Review-Miner, Lovelock, Nev.)

Recorder's Use Only

File No. 40588

RECORDED AT THE REQUEST OF R. L. Coppage

January 22 A. D. 1965

At 05 minutes past 2 P.M.

in Book 6 of OFFICIAL RECORDS

Page 411 Records of EUREKA COUNTY, NEVADA

Helen A. Detail Recorder

Fee $ 1.00

File No. 405869 BOOK 6 PAGE 412

Certificate of Location of Lode Claim

THIS IS TO CERTIFY that a Lode Mining Claim named the Moco #9

was located by Richard L. Coppage

on the 20th day of November, 1964; that it is situated in Mineral Hill Mining District Eureka County, State of Nevada, and about 2600' 335° E ~~55 miles N.~~ distant from ~~Eureka,~~ ~~Nevada~~ Crest of Mineral Hill - Moco #9 is contiguous w/ Moco #8 on N, Moco #10 on W, Moco #16 on S.

, as near as known from present developments; and that he claim(s) 1500 linear feet along the course of the mineral bearing ledge, lode, vein or deposit extending 750 feet from the location monument in a Northerly direction, and 750 feet in a Southerly direction, together with Three Hundred feet in width on each side of the ledge for the entire length of the claim.

The discovery work consists of a bull dozer cut

situated about 2 feet in a westerly direction from the location monument, and its dimensions are 12 feet wide 20 feet long and 4' feet deep, exposing the ledge, vein or mineral deposit. Total cost of said work was $ 25.00.

This claim was monumented on the 20th day of November, 1964.

The NE corner is marked by a 4"x4" Wood Post 4 feet high, inscribed NE corner Moco #9 mining claim; the SE corner is marked by a 4"x4" Wood Post 4 feet high, inscribed SE corner Moco #9 mining claim; the SW corner is marked by a 4"x4" Wood Post 4 feet high, inscribed SW corner Moco #9 mining claim; the NW corner is marked by a 4"x4" Wood Post 4 feet high, inscribed NW corner Moco #9 mining claim. There is also a 4"x4" Wood Post at the center of each side line. The discovery work has been done and the location completed January 21, 1965.

Richard L. Coppage
126 Homewood Dr.
Concord, Calif.

Locators Addresses

(Other Mining Forms Also Sold by Review-Miner, Lovelock, Nev.)

Recorder's Use Only
File No. 40586
RECORDED AT THE REQUEST OF
R. L. Coppage
January 22 A. D. 1965
At 07 minutes past 2 P.M.
in Book 6 of OFFICIAL RECORDS
Page 412 Records of
EUREKA COUNTY, NEVADA
Nellie A. DeLong Recorder
Fee $1.00

File No. 40589 BOOK 6 PAGE 413

Certificate of Location of Lode Claim

THIS IS TO CERTIFY that a Lode Mining Claim named the Moco #10

was located by R. L. Coppage

on the 20th day of November, 1964; that it is situated in Mineral Hill Mining District Eureka County, State of Nevada, and about ~~[illegible]~~ 2300' S 20° E distant from Crest of Mineral Hill. Moco #10 is Contiguous w/ Moco #5 on N, Moco #9 on E, Moco #15 on S and Moco #11 on W.

, as near as known from present developments; and that he claim(s) 1500 linear feet along the course of the mineral bearing ledge, lode, vein or deposit extending 750 feet from the location monument in a Northerly direction, and 750 feet in a Southerly direction, together with Three Hundred feet in width on each side of the ledge for the entire length of the claim.

The discovery work consists of a bulldozer cut

situated about 3 1 feet in a Easterly direction from the location monument, and its dimensions are 11 feet wide 20 feet long and 2 feet deep, exposing the ledge, vein or mineral deposit. Total cost of said work was $ 25.00.

This claim was monumented on the 20th day of November, 1964.

The NE corner is marked by a 4"x4" Wood Post 4 feet high, inscribed NE corner Moco #10 mining claim; the SE corner is marked by a 4"x4" Wood Post 4 feet high, inscribed SE corner Moco #10 mining claim; the SW corner is marked by a 4"x4" Wood Post 4 feet high, inscribed SW corner Moco #10 mining claim; the NW corner is marked by a 4"x4" Wood Post 4 feet high, inscribed NW corner Moco #10 mining claim. There is also a 4"x4" Wood Post at the center of each side line. The discovery work has been done and the location completed January 21, 1965.

Richard J. Coppage

726 Homewood Dr. Concord, Calif.

Locators Addresses

(Other Mining Forms Also Sold by Review-Miner, Lovelock, Nev.)

Recorder's Use Only

File No. 40589

RECORDED AT THE REQUEST OF R.L. Coppage

January 22 A. D. 19 65

At 08 minutes past 2 P.M.

in Book 6 of OFFICIAL RECORDS

Page 413 Records of

EUREKA COUNTY, NEVADA

Hellis A. DeTaol Recorder

Fee $ 1.00

File No. 40590 BOOK 6 PAGE 414

Certificate of Location of Lode Claim

THIS IS TO CERTIFY that a Lode Mining Claim named the Moco #11

was located by R. L. Coppage

on the 20th day of November, 1964; that it is situated in Mineral Hill Mining District Eureka County, State of Nevada, and about 2200' due S. distant from Crest of Mineral Hill - Moco #11 is contiguous with Moco #6 on N, Moco #10 on E, Moco #12 on W. ~~and~~

, as near as known from present developments; and that he claim(s) 1500 linear feet along the course of the mineral bearing ledge, lode, vein or deposit extending 750 feet from the location monument in a Northerly direction, and 750 feet in a Southerly direction, together with Three Hundred feet in width on each side of the ledge for the entire length of the claim.

The discovery work consists of a bull dozer cut

situated about 40 feet in a Southerly direction from the location monument, and its dimensions are 25' feet wide 25 feet long and 2 feet deep, exposing the ledge, vein or mineral deposit. Total cost of said work was $ 2500.

This claim was monumented on the 20th day of November, 1964

The NE corner is marked by a 4"x4" wood post 4 feet high, inscribed NE corner Moco #11 mining claim; the SE corner is marked by a 4"x4" wood post 4 feet high, inscribed SE corner Moco #11 mining claim; the SW corner is marked by a 4"x4" wood post 4 feet high, inscribed SW corner Moco #11 mining claim; the NW corner is marked by a 4"x4" wood post 4 feet high, inscribed NW corner Moco #11 mining claim. There is also a 4"x4" wood post at the center of each side line. The discovery work has been done and the location completed January 21, 1965.

Richard L. Coppage

126 Hornwood Dr. Concord, Calif.

Locators Addresses

(Other Mining Forms Also Sold by Review-Miner, Lovelock, Nev.)

Recorder's Use Only

File No. 40590

RECORDED AT THE REQUEST OF R. L. Coppage

January 22 A. D. 1965

At 09 minutes past 2 P. M.

in Book 6 of OFFICIAL RECORDS

Page 414 Records of

EUREKA COUNTY, NEVADA

Hillis A. DeLaski Recorder

Fee $ 1.00

File No. 40591 BOOK 6 PAGE 415

Certificate of Location of Lode Claim

THIS IS TO CERTIFY that a Lode Mining Claim named the Moco #12

was located by R. L. Coppage

on the 20th day of November, 1964; that it is situated in Mineral Hill Mining District Eureka County, State of Nevada, and about 3780' S 20° W distant from Crest of Mineral Hill - Moco #12 is contiguous with Moco #5 on N., Moco #11 on E and Moco #13 on S.

, as near as known from present developments; and that he claim(s) 1500 linear feet along the course of the mineral bearing ledge, lode, vein or deposit extending 750 feet from the location monument in a Northerly direction, and 750 feet in a Southerly direction, together with Three Hundred feet in width on each side of the ledge for the entire length of the claim.

The discovery work consists of a bull dozer cut

situated about 5 feet in a Westerly direction from the location monument, and its dimensions are 12 feet wide 24 feet long and 2 feet deep, exposing the ledge, vein or mineral deposit. Total cost of said work was $ 25.00.

This claim was monumented on the 20th day of November, 1964

The NE corner is marked by a 4"x4" wood Post 4 feet high, inscribed NE corner Moco #12 mining claim; the SE corner is marked by a 4"x4" wood Post 4 feet high, inscribed SE corner Moco #12 mining claim; the SW corner is marked by a 4"x4" wood Post 4 feet high, inscribed SW corner Moco #12 mining claim; the NW corner is marked by a 4"x4" wood Post 4 feet high, inscribed NW corner Moco #12 mining claim. There is also a 4"x4" wood Post at the center of each side line. The discovery work has been done and the location completed January 21, 1965.

Richard L. Coppage

126 Homewood Dr. Concord, Calif.

Locators Addresses

(Other Mining Forms Also Sold by Review-Miner, Lovelock, Nev.)

Recorder's Use Only

File No. 40591

RECORDED AT THE REQUEST OF R. L. Coppage

January 22 A. D. 19 65

At 10 minutes past 2 P M.

in Book 6 of OFFICIAL RECORDS

Page 415 Records of

EUREKA COUNTY, NEVADA

Nellie A. Potard Recorder

Fee $ 1.00

File No. 40592 BOOK 6 PAGE 416

Certificate of Location of Lode Claim

THIS IS TO CERTIFY that a Lode Mining Claim named the Moco #13

was located by R.L. Coppage

on the 20th day of November, 1964; that it is situated in Mineral Hill Mining District Eureka County, State of Nevada, and about 3750' S10°W distant from Crest of Mineral Hill. Moco #13 is contiguous with Moco #12 on N. & Moco #14 on E

, as near as known from present developments; and that he claim(s) 1500 linear feet along the course of the mineral bearing ledge, lode, vein or deposit extending 750 feet from the location monument in a Northerly direction, and 750 feet in a Southerly direction, together with Three Hundred feet in width on each side of the ledge for the entire length of the claim.

The discovery work consists of a bull dozer cut

situated about 5 feet in a Westerly direction from the location monument, and its dimensions are 11 feet wide 23 feet long and 2 feet deep, exposing the ledge, vein or mineral deposit. Total cost of said work was $ 25.00.

This claim was monumented on the 20th day of November, 1964.

The NE corner is marked by a 4"x4" Wood Post 4 feet high, inscribed NE corner Moco #13 mining claim; the SE corner is marked by a 4"x4" Wood Post 4 feet high, inscribed SE corner Moco #13 mining claim; the SW corner is marked by a 4"x4" Wood Post 4 feet high, inscribed SW corner Moco #13 mining claim; the NW corner is marked by a 4"x4" Wood Post 4 feet high, inscribed NW corner Moco #13 mining claim. There is also a 4"x4" Wood Post at the center of each side line. The discovery work has been done and the location completed January 21, 1965.

Richard L. Coppage

126 Homewood Dr. Concord, Calif.

Locators Addresses

(Other Mining Forms Also Sold by Review-Miner, Lovelock, Nev.)

Recorder's Use Only

File No. 40592

RECORDED AT THE REQUEST OF R.L. Coppage

January 22 A. D. 19 65

At 11 minutes past 2 P.M.

in Book 6 of OFFICIAL RECORDS

Page 416 Records of EUREKA COUNTY, NEVADA

Julia A. DeLaski Recorder

Fee $ 1.00

File No. 40593 BOOK 6 PAGE 417

Certificate of Location of Lode Claim

THIS IS TO CERTIFY that a Lode Mining Claim named the Moco #14

was located by R.L. Coppage

on the 20th day of November, 1964; that it is situated in Mineral Hill Mining District Eureka County, State of Nevada, and about 3700' due S. distant from Crest of Mineral Hill Moco #14 is contiguous with Moco #11 on N. Moco #15 on E., Moco #20 on S. and Moco #13 on W., as near as known from present developments; and that he claim(s) 1500 linear feet along the course of the mineral bearing ledge, lode, vein or deposit extending 750 feet from the location monument in a Northerly direction, and 750 feet in a Southerly direction, together with Three Hundred feet in width on each side of the ledge for the entire length of the claim.

The discovery work consists of a bull dozer cut

situated about 4 feet in a Easterly direction from the location monument, and its dimensions are 15 feet wide 25 feet long and 3 feet deep, exposing the ledge, vein or mineral deposit. Total cost of said work was $ 25.00.

This claim was monumented on the 20th day of November, 1964.

The NE corner is marked by a 4"x4" Wood Post 4 feet high, inscribed NE corner Moco #14 mining claim; the SE corner is marked by a 4"x4" Wood Post 4 feet high, inscribed SE corner Moco #14 mining claim; the SW corner is marked by a 4"x4" Wood Post 4 feet high, inscribed SW corner Moco #14 mining claim; the NW corner is marked by a 4"x4" Wood Post 4 feet high, inscribed NW corner Moco #14 mining claim. There is also a 4"x4" Wood Post at the center of each side line. The discovery work has been done and the location completed January 21, 1965.

Richard L. Coppage

126 Homewood Dr. Concord, Calif.

Locators Addresses

(Other Mining Forms Also Sold by Review-Miner, Lovelock, Nev.)

Recorder's Use Only

File No. 40593

RECORDED AT THE REQUEST OF R.L. Coppage

January 22 A. D. 1965

At 12 minutes past 2 P.M.

in Book 417 of OFFICIAL RECORDS

Page ..... Records of

EUREKA COUNTY, NEVADA

Nellie A. DePaoli Recorder

Fee $1.00

File No. 40594 BOOK 6 PAGE 418

Certificate of Location of Lode Claim

THIS IS TO CERTIFY that a Lode Mining Claim named the Moco #15

was located by R.L. Coppage

on the 20th day of November, 1964; that it is situated in Mineral Hill Mining District Eureka County, State of Nevada, and about 3760' S15°E distant from Mineral Hill Moco #15 is Contiguous with Moco #10 on N., Moco #16 on E, Moco #18 on S, & Moco #14 on W.

, as near as known from present developments; and that he claim(s) 1500 linear feet along the course of the mineral bearing ledge, lode, vein or deposit extending 750 feet from the location monument in a Northerly direction, and 750 feet in a Southerly direction, together with Three Hundred feet in width on each side of the ledge for the entire length of the claim.

The discovery work consists of a bull dozer cut

situated about 3 feet in a westerly direction from the location monument, and its dimensions are 11 feet wide 22 feet long and 2½ feet deep, exposing the ledge, vein or mineral deposit. Total cost of said work was $25.00.

This claim was monumented on the 20th day of November, 1964.

The NE corner is marked by a 4"x4" wood Post 4 feet high, inscribed NE corner Moco #15 mining claim; the SE corner is marked by a 4"x4" wood Post 4 feet high, inscribed SE corner Moco #15 mining claim; the SW corner is marked by a 4"x4" wood Post 4 feet high, inscribed SW corner Moco #15 mining claim; the NW corner is marked by a 4"x4" wood Post 4 feet high, inscribed NW corner Moco #15 mining claim. There is also a 4"x4" wood Post at the center of each side line. The discovery work has been done and the location completed January 21, 1965.

Richard L. Coppage

126 Homewood Dr. Concord, Calif.

Locators Addresses

(Other Mining Forms Also Sold by Review-Miner, Lovelock, Nev.)

Recorder's Use Only

File No. 40594

RECORDED AT THE REQUEST OF R.L. Coppage

January 22 A. D. 1965

At 13 minutes past 2 P.M.

in Book 6 of OFFICIAL RECORDS

Page 418 Records of

EUREKA COUNTY, NEVADA

Hilliss A. DeTard Recorder

Fee $1.00

File No. 40595 BOOK 6 PAGE 419

Certificate of Location of Lode Claim

THIS IS TO CERTIFY that a Lode Mining Claim named the Moco #16

was located by R.L. Coppage

on the 20th day of November, 1964; that it is situated in Mineral Hill Mining District Eureka County, State of Nevada, and about 1450 N59°W ~~[illegible]~~ 15 distant from NE Cor. Sec. 15. Moco #16 is contiguous with Moco #9 on N, Moco 15 on W, & Moco #18 on S.

, as near as known from present developments; and that he claim(s) 1500 linear feet along the course of the mineral bearing ledge, lode, vein or deposit extending 750 feet from the location monument in a Northerly direction, and 750 feet in a Southerly direction, together with Three Hundred feet in width on each side of the ledge for the entire length of the claim.

The discovery work consists of a bulldozer cut

situated about 3 feet in a Westerly direction from the location monument, and its dimensions are 12 feet wide 25 feet long and 2 feet deep, exposing the ledge, vein or mineral deposit. Total cost of said work was $ 25.00.

This claim was monumented on the 20th day of November, 1964.

The NE corner is marked by a 4"x4" wood Post 4 feet high, inscribed NE corner Moco #16 mining claim; the SE corner is marked by a 4"x4" wood Post 4 feet high, inscribed SE corner Moco #16 mining claim; the SW corner is marked by a 4"x4" wood Post 4 feet high, inscribed SW corner Moco #16 mining claim; the NW corner is marked by a 4"x4" Wood Post 4 feet high, inscribed NW corner Moco #16 mining claim. There is also a 4"x4" wood Post at the center of each side line. The discovery work has been done and the location completed January 21, 1965.

Richard L. Coppage

126 Hornwood Dr. Concord, Calif.

Locators Addresses

(Other Mining Forms Also Sold by Review-Miner, Lovelock, Nev.)

Recorder's Use Only

File No. 40595

RECORDED AT THE REQUEST OF R.L. Coppage

January 22 A. D. 1965

At 14 minutes past 2 P.M.

in Book 6 of OFFICIAL RECORDS

Page 419 Records of EUREKA COUNTY, NEVADA

Nellie A. DePaoli Recorder

Fee $1.00

File No. 40596 BOOK 6 PAGE 420

Certificate of Location of Lode Claim

THIS IS TO CERTIFY that a Lode Mining Claim named the Moco #17

was located by R.L. Coppage

on the 20th day of November, 1964; that it is situated in Mineral Hill Mining District Eureka County, State of Nevada, and about 1250' N65°E distant from Cave Spring Moco #17 is contiguous with Moco #18 on W, Moco #23 on S.

, as near as known from present developments; and that he claim(s) 1500 linear feet along the course of the mineral bearing ledge, lode, vein or deposit extending 750 feet from the location monument in a Northerly direction, and 750 feet in a Southerly direction, together with Three Hundred feet in width on each side of the ledge for the entire length of the claim.

The discovery work consists of a bull dozercut

situated about 3 feet in a westerly direction from the location monument, and its dimensions are 12 feet wide 20 feet long and 2½ feet deep, exposing the ledge, vein or mineral deposit. Total cost of said work was $ 25.00

This claim was monumented on the 20th day of November, 1964

The NE corner is marked by a 4"x4" wood Post 4 feet high, inscribed NE corner Moco #17 mining claim; the SE corner is marked by a 4"x4" wood Post 4 feet high, inscribed SE corner Moco #17 mining claim; the SW corner is marked by a 4"x4" wood Post 4 feet high, inscribed SW corner Moco #17 mining claim; the NW corner is marked by a 4"x4" wood Post 4 feet high, inscribed NW corner Moco #17 mining claim. There is also a 4"x4" wood Post at the center of each side line. The discovery work has been done and the location completed January 21, 1965.

Richard L. Coppage

126 Homewood Dr. Concord, Calif.

Locators Addresses

(Other Mining Forms Also Sold by Review-Miner, Lovelock, Nev.)

Recorder's Use Only

File No. 40596

RECORDED AT THE REQUEST OF R. L. Coppage

January 22 A. D. 1965

At 15 minutes past 2 P.M.

In Book 6 of OFFICIAL RECORDS

Page 420 Records of

EUREKA COUNTY, NEVADA

Julia A. DePaoli Recorder

Fee $ 1.00

File No. 40597 BOOK 6 PAGE 421

Certificate of Location of Lode Claim

THIS IS TO CERTIFY that a Lode Mining Claim named the Moco #18

was located by R.L. Coppage

on the 20th day of November, 1964; that it is situated in Mineral Hill Mining District Eureka County, State of Nevada, and about 620' N60°E distant from Cave Spring Moco #18 is Contiguous with Moco #16 on N, Moco #17 on E Moco #22 on S, & Moco #19 on W.

, as near as known from present developments; and that he claim(s) 1500 linear feet along the course of the mineral bearing ledge, lode, vein or deposit extending 750 feet from the location monument in a Northerly direction, and 750 feet in a Southerly direction, together with Three Hundred feet in width on each side of the ledge for the entire length of the claim.

The discovery work consists of a bull dozer cut

situated about 3 feet in a westerly direction from the location monument, and its dimensions are 10 feet wide 22 feet long and 3 feet deep, exposing the ledge, vein or mineral deposit. Total cost of said work was $ 25.00.

This claim was monumented on the 20th day of November, 1964.

The NE corner is marked by a 4"x4" wood Post 4 feet high, inscribed NE corner Moco #18 mining claim; the SE corner is marked by a 4"x4" wood Post 4 feet high, inscribed SE corner Moco #18 mining claim; the SW corner is marked by a 4"x4" wood Post 4 feet high, inscribed SW corner Moco #18 mining claim; the NW corner is marked by a 4"x4" wood Post 4 feet high, inscribed NW corner Moco #18 mining claim. There is also a 4"x4" wood Post at the center of each side line. The discovery work has been done and the location completed January 21, 1965.

Richard L. Coppage

126 Homewood Dr. Concord, Calif.

Locators Addresses

(Other Mining Forms Also Sold by Review-Miner, Lovelock, Nev.)

Recorder's Use Only

File No. 40597
RECORDED AT THE REQUEST OF
R. L. Coppage
January 22 A. D. 19 65
At 16 minutes past 2 P.M.
in Book 6 of OFFICIAL RECORDS
Page 421 Records of
EUREKA COUNTY, NEVADA
Hulls G. DePaoli Recorder
Fee $ 1.00

File No. 40598 BOOK 6 PAGE 422

Certificate of Location of Lode Claim

THIS IS TO CERTIFY that a Lode Mining Claim named the Moco #19

was located by R. L. Coppage

on the 20th day of November, 1964; that it is situated in Mineral Hill Mining District Eureka County, State of Nevada, and about 650' N 8° W distant from Cave Spring Moco #19 is contiguous with Moco #15 on N., Moco #18 on E., Moco #21 on S, & Moco #20 on W.

, as near as known from present developments; and that he claim(s) 1500 linear feet along the course of the mineral bearing ledge, lode, vein or deposit extending 750 feet from the location monument in a Northerly direction, and 750 feet in a Southerly direction, together with Three Hundred feet in width on each side of the ledge for the entire length of the claim.

The discovery work consists of a bull dozer cut

situated about 3 feet in a westerly direction from the location monument, and its dimensions are 12 feet wide 20 feet long and 2 1/2 feet deep, exposing the ledge, vein or mineral deposit. Total cost of said work was $ 25.00

This claim was monumented on the 20th day of November, 1964.

The NE corner is marked by a 4"x4" wood post 4 feet high, inscribed NE corner Moco #19 mining claim; the SE corner is marked by a 4"x4" wood post 4 feet high, inscribed SE corner Moco #19 mining claim; the SW corner is marked by a 4"x4" wood post 4 feet high, inscribed SW corner Moco #19 mining claim; the NW corner is marked by a 4"x4" wood post 4 feet high, inscribed NW corner Moco #19 mining claim. There is also a 4"x4" wood post at the center of each side line. The discovery work has been done and the location completed January 21, 1965.

Richard L. Coppage

126 Homewood Dr. Concord, Calif.

Locators Addresses

(Other Mining Forms Also Sold by Review-Miner, Lovelock, Nev.)

Recorder's Use Only

File No. 40598

RECORDED AT THE REQUEST OF R. L. Coppage.

January 22 A. D. 1965.

At 17 minutes past 2 P.M.

in Book 6 of OFFICIAL RECORDS

Page 422 Records of EUREKA COUNTY, NEVADA

Hallie A. DeLaPorte Recorder

Fee $ 1.00

File No. 40599 BOOK 6 PAGE 423

Certificate of Location of Lode Claim

THIS IS TO CERTIFY that a Lode Mining Claim named the Moco #20

was located by R.L. Coppage

on the 20th day of November, 1964; that it is situated in Mineral Hill Mining District Eureka County, State of Nevada, and about 620' N 51°W distant from Cave Spring Moco #20 is contiguous with Moco #19 on N, Moco #19 on E,

, as near as known from present developments; and that he claim(s) 1500 linear feet along the course of the mineral bearing ledge, lode, vein or deposit extending 750 feet from the location monument in a Northerly direction, and 750 feet in a Southerly direction, together with Three Hundred feet in width on each side of the ledge for the entire length of the claim.

The discovery work consists of a bull dozer cut

situated about 3 feet in a Westerly direction from the location monument, and its dimensions are 12 feet wide 30 feet long and 3 feet deep, exposing the ledge, vein or mineral deposit. Total cost of said work was $ 25.

This claim was monumented on the 20th day of November, 1964

The NE corner is marked by a 4"x4" wood post 4 feet high, inscribed NE corner Moco #20 mining claim; the SE corner is marked by a 4"x4" wood post 4 feet high, inscribed SE corner Moco #20 mining claim; the SW corner is marked by a 4"x4" wood post 4 feet high, inscribed SW corner Moco #20 mining claim; the NW corner is marked by a 4"x4" wood post 4 feet high, inscribed NW corner Moco #20 mining claim. There is also a 4"x4" wood post at the center of each side line. The discovery work has been done and the location completed January 21, 1965.

Richard L. Coppage

126 Homewood Dr. Concord, Calif.

Locators Addresses

(Other Mining Forms Also Sold by Review-Miner, Lovelock, Nev.)

Recorder's Use Only

File No. 40599

RECORDED AT THE REQUEST OF R. L. Coppage.

January 22 A. D. 19 65

At 18 minutes past 2 P. M.

in Book 6 of OFFICIAL RECORDS

Page 423 Records of

EUREKA COUNTY, NEVADA

Nellie A. DePark Recorder

Fee $ 1.00

File No. 40600 BOOK 6 PAGE 424

Certificate of Location of Lode Claim

THIS IS TO CERTIFY that a Lode Mining Claim named the Moco #21

was located by R. L. Coppage

on the 20th day of November, 1964; that it is situated in Mineral Hill Mining District Eureka County, State of Nevada, and about 780' S 10° E distant from Cave Spring Moco #21 is Contiguous with Moco #22 on E, Moco #19 on N.

, as near as known from present developments; and that he claim(s) 1500 linear feet along the course of the mineral bearing ledge, lode, vein or deposit extending 750 feet from the location monument in a Northerly direction, and 750 feet in a Southerly direction, together with Three Hundred feet in width on each side of the ledge for the entire length of the claim.

The discovery work consists of a bull dozer cut

situated about 10 feet in a Easterly direction from the location monument, and its dimensions are 10 feet wide 25 feet long and 2 feet deep, exposing the ledge, vein or mineral deposit. Total cost of said work was $ 25.

This claim was monumented on the 20th day of November, 1964

The NE corner is marked by a 4"x4" wood Post 4 feet high, inscribed NE corner Moco #21 mining claim; the SE corner is marked by a 4"x4" wood Post 4 feet high, inscribed SE corner Moco #21 mining claim; the SW corner is marked by a 4"x4" Wood Post 4 feet high, inscribed SW corner Moco #21 mining claim; the NW corner is marked by a 4"x4" wood post 4 feet high, inscribed NW corner Moco #21 mining claim. There is also a 4"x4" wood Post at the center of each side line. The discovery work has been done and the location completed January 21, 1965

Richard L. Coppage

126 Homewood Dr. Concord, Calif.

Locators Addresses

(Other Mining Forms Also Sold by Review-Miner, Lovelock, Nev.)

Recorder's Use Only

File No. 40600
RECORDED AT THE REQUEST OF
R. L. Coppage
January 22 A. D. 19 65
At 19 minutes past 2 P.M.
in Book 6 of OFFICIAL RECORDS
Page 424 Records of
EUREKA COUNTY, NEVADA
Julia A. DePaoli Recorder
Fee $1.00

File No. 40601 BOOK 6 PAGE 425

Certificate of Location of Lode Claim

THIS IS TO CERTIFY that a Lode Mining Claim named the Moco #22

was located by R. L. Coppage

on the 20th day of November, 1964; that it is situated in Mineral Hill Mining District Eureka County, State of Nevada, and about 780' S 19° E distant from Cave Spring Moco #22 is Contiguous with Moco #23 on E, Moco #21 on W. & Moco #18 on N.

, as near as known from present developments; and that he claim(s) 1500 linear feet along the course of the mineral bearing ledge, lode, vein or deposit extending 750 feet from the location monument in a Northerly direction, and 750 feet in a Southerly direction, together with Three Hundred feet in width on each side of the ledge for the entire length of the claim.

The discovery work consists of a bull dozer cut

situated about 4 feet in a westerly direction from the location monument, and its dimensions are 11 feet wide 20 feet long and 2½ feet deep, exposing the ledge, vein or mineral deposit. Total cost of said work was $ 25.

This claim was monumented on the 20th day of November, 1964

The NE corner is marked by a 4"x4" Wood Post 4 feet high, inscribed NE corner Moco #22 mining claim; the SE corner is marked by a 4"x4" Wood Post 4 feet high, inscribed SE corner Moco #22 mining claim; the SW corner is marked by a 4"x4" Wood Post 4 feet high, inscribed SW corner Moco #22 mining claim; the NW corner is marked by a 4"x4" Wood Post 4 feet high, inscribed NW corner Moco #22 mining claim. There is also a 4"x4" Wood Post at the center of each side line. The discovery work has been done and the location completed January 21, 1965.

Richard L. Coppage

126 Homewood Dr. Concord, Calif

Locators Addresses

(Other Mining Forms Also Sold by Review-Miner, Lovelock, Nev.)

Recorder's Use Only

File No. 40601
RECORDED AT THE REQUEST OF
R. L. Coppage
January 22 A. D. 19 65
At 20 minutes past 2 P.M.
in Book 6 of OFFICIAL RECORDS
Page 425 Records of
EUREKA COUNTY NEVADA
Willis A. DePaoli Recorder
Fee $1.00

File No. 40602 BOOK 6 PAGE 426

Certificate of Location of Lode Claim

THIS IS TO CERTIFY that a Lode Mining Claim named the Moco #23

was located by R. L. Coppage

on the 20th day of November, 1964; that it is situated in Mineral Hill Mining District Eureka County, State of Nevada, and about 790' S 35° E distant from Cave Spring Moco #23 is contiguous with Moco #22 on W, Moco #24 on E and Moco #17 on N.

, as near as known from present developments; and that he claim(s) 1500 linear feet along the course of the mineral bearing ledge, lode, vein or deposit extending 750 feet from the location monument in a Northerly direction, and 750 feet in a Southerly direction, together with Three Hundred feet in width on each side of the ledge for the entire length of the claim.

The discovery work consists of a bulldozer cut

situated about 3 feet in a E direction from the location monument, and its dimensions are 11 feet wide 22 feet long and 2½ feet deep, exposing the ledge, vein or mineral deposit. Total cost of said work was $ 25.

This claim was monumented on the 20th day of November, 1964.

The NE corner is marked by a 4"x4" wood post 4 feet high, inscribed NE corner Moco #23 mining claim; the SE corner is marked by a 4"x4" wood post 4 feet high, inscribed SE corner Moco #23 mining claim; the SW corner is marked by a 4"x4" wood post 4 feet high, inscribed SW corner Moco #23 mining claim; the NW corner is marked by a 4"x4" wood post 4 feet high, inscribed NW corner Moco #23 mining claim. There is also a 4"x4" wood post at the center of each side line. The discovery work has been done and the location completed January 21, 1965.

Richard L. Coppage

126 Homewood Dr. Concord, Calif

Locators Addresses

(Other Mining Forms Also Sold by Review-Miner, Lovelock, Nev.)

Recorder's Use Only

File No. 40602

RECORDED AT THE REQUEST OF R. L. Coppage.

January 22 A. D. 1965

At 21 minutes past 2 P. M.

in Book 6 of OFFICIAL RECORDS

Page 426 Records of

EUREKA COUNTY, NEVADA

Nellie A. DePaoli Recorder

Fee $ 1.00

File No. 40603 BOOK 6 PAGE 427

Certificate of Location of Lode Claim

THIS IS TO CERTIFY that a Lode Mining Claim named the Moco # 24

was located by R. L. Coppage

on the 20 day of November, 1964; that it is situated in Mineral Hill Mining District Eureka County, State of Nevada, and about 2100' S 53°E distant from Cave Spring and is Contiguous with Moco #23 on west, ~~and~~

, as near as known from present developments; and that he claim(s) 1500 linear feet along the course of the mineral bearing ledge, lode, vein or deposit extending 750 feet from the location monument in a Northerly direction, and 750 feet in a Southerly direction, together with Three Hundred feet in width on each side of the ledge for the entire length of the claim.

The discovery work consists of a bull dozer cut

situated about 10 feet in a westerly direction from the location monument, and its dimensions are 12 feet wide 20 feet long and 3 feet deep, exposing the ledge, vein or mineral deposit. Total cost of said work was $ 25.

This claim was monumented on the 20 day of November, 1964.

The NE corner is marked by a 4"x4" Wood Post 4 feet high, inscribed NE corner Moco #24 mining claim; the SE corner is marked by a 4"x4" Wood Post 4 feet high, inscribed SE corner Moco #24 mining claim; the SW corner is marked by a 4"x4" Wood Post 4 feet high, inscribed SW corner Moco #24 mining claim; the NW corner is marked by a 4"x4" Wood Post 4 feet high, inscribed NW corner Moco #24 mining claim. There is also a 4"x4" Wood Post at the center of each side line. The discovery work has been done and the location completed January 21, 1965.

Richard L Coppage

126 Homewood Dr. Concord, Calif.

Locators Addresses

(Other Mining Forms Also Sold by Review-Miner, Lovelock, Nev.)

Recorder's Use Only

File No. 40603
RECORDED AT THE REQUEST OF
R. L. Coppage
January 22 A. D. 1965
At 22 minutes past 2 P. M.
in Book 6 of OFFICIAL RECORDS
Page 427 Records of
EUREKA COUNTY, NEVADA
Vallis A. DePaoli Recorder
Fee $1.00

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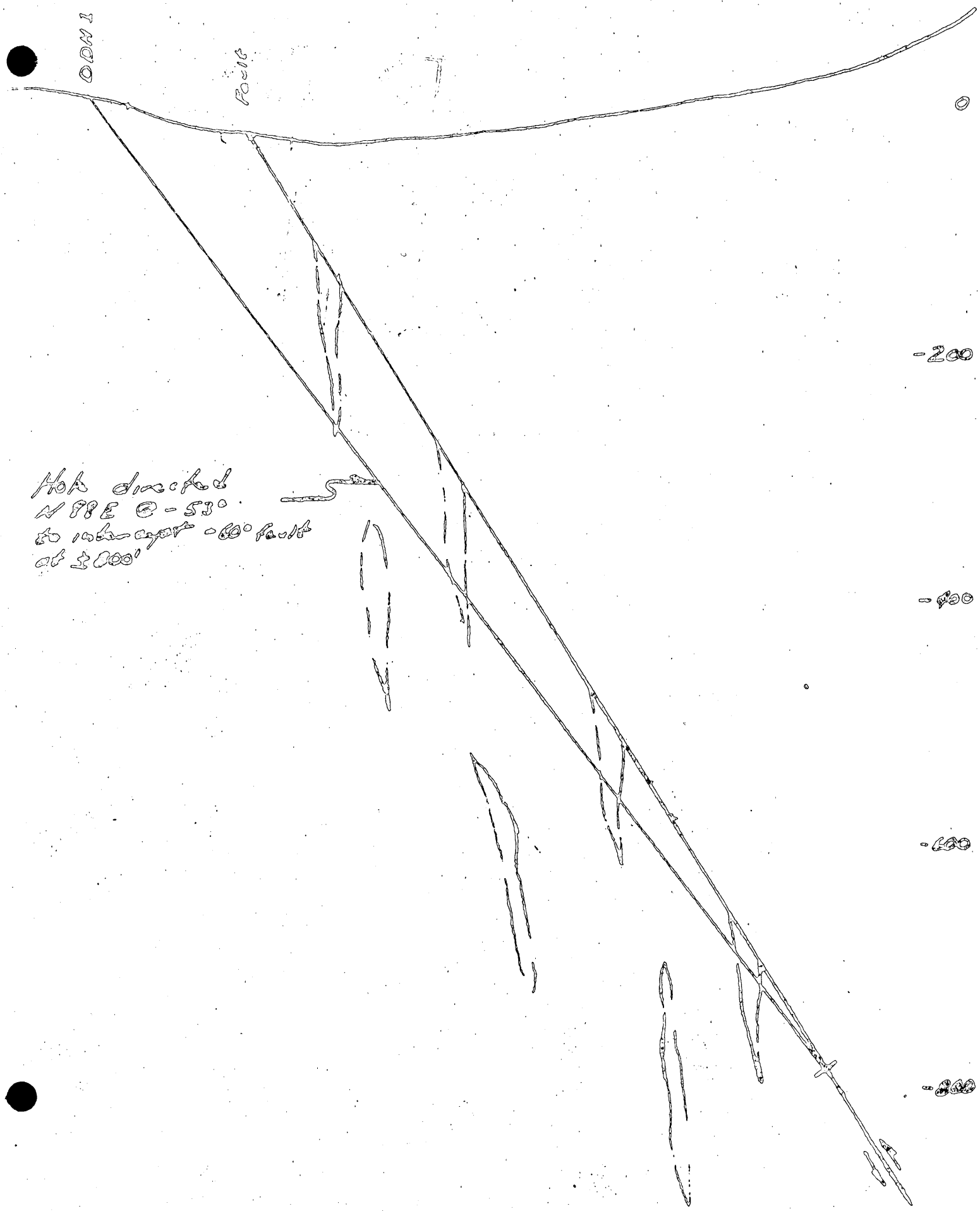
FEB 25 1965

INITIALS	CODE

DATE DATE

Hill Area

JOB NO



K

DIAMOND CORE DRILLING
DIAMOND DRILLING EQUIPMENT
GROUTING
FOUNDATION TESTING
MINING
QUARRYING
SHAFT SINKING
TUNNEL DRIVING
MINE PLANT DESIGN
AND FABRICATION

Boyles Bros. DRILLING COMPANY

CONTRACTORS-ENGINEERS-GEOLOGISTS

Central Offices and Plant
1624 Pioneer Road P. O. Box 93 Phone 487-7593
SALT LAKE CITY, UTAH 84110

BRANCH OFFICES
PHOENIX
RENO
OPOKANE
DENVER
SACRAMENTO
SANTIAGO, CHILE
LIMA, PERU

November 30, 1964

R. F. DURFEE
Assistant Manager-Drilling Division

Mr. Vincent Bluege
Mountain Copper Company
100 Mason Road
Martinez, California

Dear Sir:

Our Reno office has requested this office to submit to you the following schedule of charges to apply to your proposed core drilling program between Carlin and Eureka, Nevada.

1. Mobilization, including first hole set-up - $3[illegible]0.00.

2. Drilling in unaltered limestone:

	NX	BX
0 to 500 feet	$5.75	$5.25
500 to 750 feet	6.50	6.00
750 to 1,000 feet	7.25	6.75

3. Drilling in siliceous limestone, quartzite or similar formations, the above rates will be increased $2.00 per foot for each increment plus bit cost in excess of $1.00 per foot.

4. Cementing, if necessary, at $12.00 per hour.

5. Water hauling to be based on truck rental of $225.00 per month, plus 12¢ per mile, plus driver's wages including payroll taxes and insurance. Source of water to be furnished by Mountain Copper.

6. Roads and drill sites to be furnished without cost to Boyles Bros.

7. Moving between holes and setting up drill, $12.00 per hour.

Should this program become a reality, we would be pleased to review the program with you according to any changed conditions that may exist at that time.

Very truly yours,

R. F. Durfee

RFD:lmg
cc. J. D. Fetterhoff

JOY MANUFACTURING COMPANY
900 WOODLAND AVENUE
MICHIGAN CITY, INDIANA 46360

EXECUTIVE OFFICES
HENRY W. OLIVER BUILDING
PITTSBURGH, PA. 15222

[illegible]

[illegible]

Attention: Mr. [illegible]
Field Engineer

[illegible]

Our field [illegible], inspected your proposed drill sites approximately [illegible].

We understand that there will be [illegible] holes approximately 1000 feet deep, and one hole approximately 700 feet deep which will be drilled at a 45° angle. We have [illegible] of 2500 feet of drilling. Prices for NX wireline drilling [illegible] are quoted below. We submit the following prices:

[illegible] – Drill and Equipment | [illegible]
[illegible] – Drill and Equipment | [illegible]

	[illegible]	NX
From 0 to 250 feet	[illegible]	18.25 ft.
From 250 to 500 feet	[illegible]	18.75
From 500 to 750 feet	[illegible]	19.50
From 750 to 1000 feet	[illegible]	20.00
From 1000 to 1250 feet	[illegible]	21.75

[illegible] – [illegible] | [illegible] ft.
[illegible] – [illegible] | [illegible] ft.

[illegible] | [illegible]

[illegible] | [illegible]

[illegible] | [illegible]

[illegible] | [illegible]

[illegible] | [illegible]

[illegible] | [illegible]

J[illegible] MANUFACTURING COMPANY
SHEET NO. TO

[illegible] Copper Co.
Ft. [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

MOUNTAIN COPPER MEMO

M

TO: [illegible]

RE: [illegible]

FROM: [illegible]

DATE: [illegible]

The following data was gathered in regard to [illegible] the [illegible] Bureau of Mines and Geology [illegible] and [illegible] the [illegible] Division of [illegible] Library at the [illegible] Building [illegible]

Production 1. Total estimated metal production [illegible]

Au = 1,8[illegible] oz. [illegible] from "[illegible]
Ag = 76,0[illegible] oz. [illegible] Production [illegible]
Cu = [illegible] lb. [illegible]
Pb = [illegible] lb. [illegible]
Zn = [illegible] lb. Minerals Yearbook [illegible] 195[illegible]

Mineralogy 2. The principle minerals which occur in the district are as follows:

gold	galena
calcite	azurite
barite	malachite
silver chloride	sphalerite
argentite	chalcopyrite
gray copper	cerussite
	pyrite

This data from USBM IC 7022

Occurrence 3. The following is from USBM IC 7022 [illegible]

4. [illegible] research into [illegible] one [illegible] mineralization [illegible] thrust fault [illegible] thought to be a locus of [illegible]

Respectfully submitted,

[illegible]

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COPY
O. M. E.
RECEIVED
FEB 25 1965

INITIALS	CODE

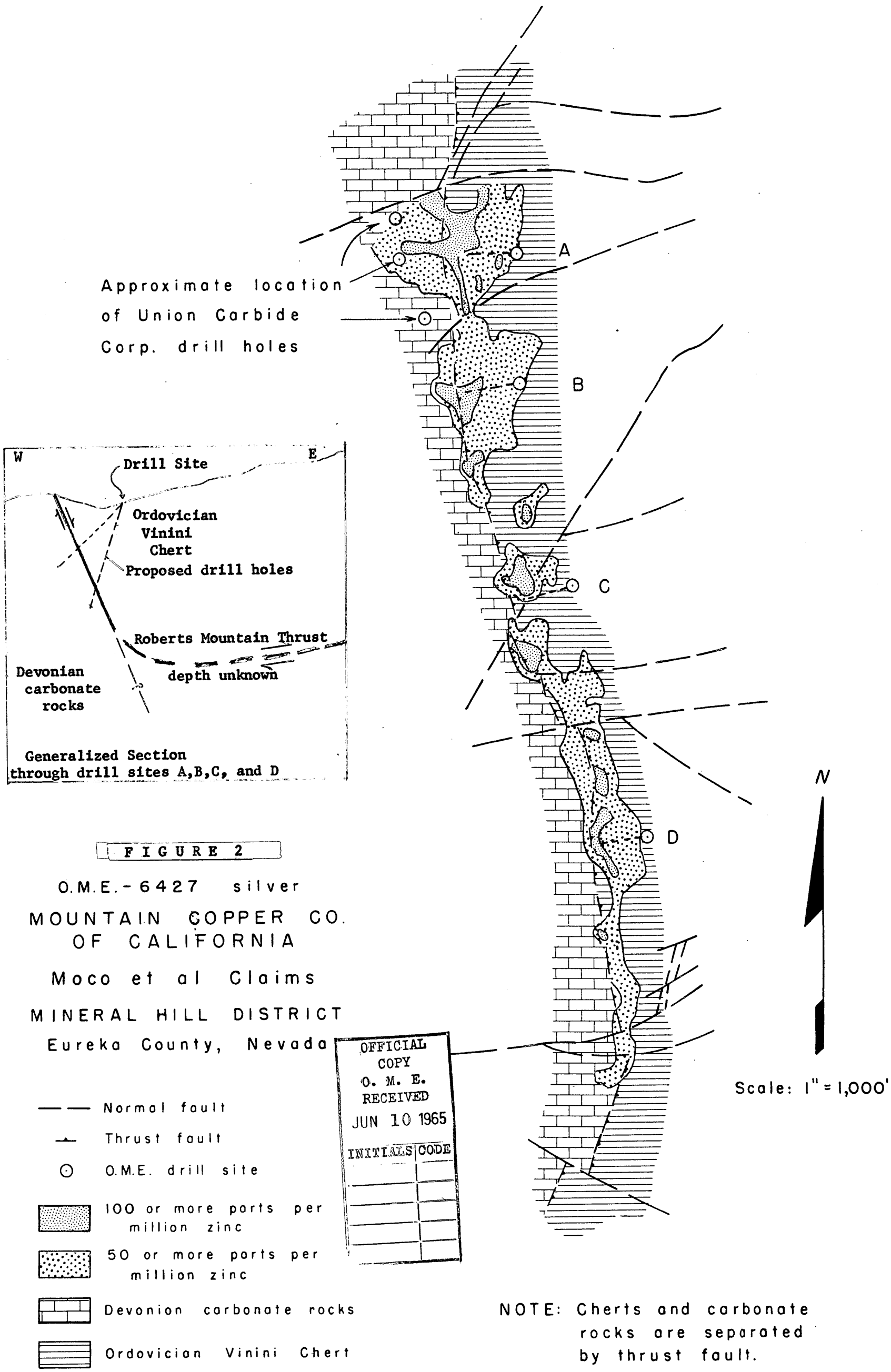

FIGURE 2

O.M.E.-6427 silver

MOUNTAIN COPPER CO.
OF CALIFORNIA

Moco et al Claims

MINERAL HILL DISTRICT

Eureka County, Nevada

OFFICIAL
COPY
O. M. E.
RECEIVED
JUN 10 1965
INITIALS CODE

U. S. Government Messenger Envelope

ndard Form No. 65
November 1961
al Services Administration
neral Regulation No. 27

65-105

NAME (OR TITLE) OF ADDRESSEE, AGENCY, ORGANIZATIONAL UNIT, ADDRESS, AND ROOM		NAME (OR TITLE) OF ADDRESSEE, AGENCY, ORGANIZATIONAL UNIT, ADDRESS, AND ROOM	
Branch of Predator & Rodent Control	STOP		STOP
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[illegible] Personnel	STOP		STOP
[illegible]	STOP		STOP
[illegible]	STOP		STOP
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	STOP		STOP
	STOP		STOP

Use other side

Use STOP only when messenger service between Government buildings in Washington, D. C., is required or wherever a STOP system is used. Your mail room has STOP information.

INSTRUCTIONS FOR USE

1. Identify Agency of Addressee
2. Void Previously Used Block
3. Write Clearly
4. Send Surplus Envelopes to Room for Reissue

NAME (OR TITLE) OF ADDRESSEE, AGENCY, ORGANIZATIONAL UNIT, ADDRESS, AND ROOM		NAME (OR TITLE) OF ADDRESSEE, AGENCY, ORGANIZATIONAL UNIT, ADDRESS, AND ROOM	
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Use other side first

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Memorandum

May 2, 1967

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

From: Field Officer
Region II

Subject: OME-6427 (Silver)
Mountain Copper Company of California
Moco Claims
Eureka County, Nevada
Contract No. 2205

OFFICIAL COPY
MAY 4 1967
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Enclosed is a summary-type Final Field Report for the subject project.

H. K. Stager

Enclosure

FIELD
FINAL RPT.

FINAL FIELD REPORT - OME EXPLORATION PROJECT

By H. K. Stager, Field Officer, Region II

May 2, 1967

1. OME-6427 (Silver)
Mountain Copper Company of California
Moco Claims
Eureka County, Nevada
Contract No. 2205

Operator: Mountain Copper Company of California
100 Mococo Road
Martinez, California 94553

Property: Consists of 20 unpatented lode-mining claims (Moco Nos. 5 through 24), including all rights pertaining thereto, in secs. 10, 14, and 15, T. 26 N., R. 52 E., MDBM, Mineral Hill mining district, Eureka County, Nevada. A map showing the area of these 20 claims was attached to the contract.

Ownership: The Operator is the owner of the claims under the terms of a quitclaim instrument executed June 15, 1965, by the locator, Richard L. Coppage, 126 Homewood Drive, Concord, California.

2. Purpose of Project: The purpose of the project was to explore by core drilling from surface drill sites for silver-bearing ore bodies in or along the Roberts Mountain thrust fault and in the Devonian carbonate rocks west of and below the fault in the area of Mineral Hill and Cave Hill where subsurface mineralization was indicated by surface electrical (self-potential) or geochemical (zinc) anomalies.

3. Contract: Dated July 27, 1965, for a term of 12 months.
Original contract amount - $86,860.00
Government participation - 75 percent, $65,145.00

Amendments

No. 1 - December 30, 1965, to allow changes in the location of drill sites suggested by the results of prior drilling and to allow intersection of the fault at shallower depth.

Termination Agreement - March 22, 1966, to terminate the contract effective March 1, 1966.

4. Project Work: Started - August 25, 1965. Terminated - March 1, 1966.

Cost Items	Authorized			Completed	
	Units	Rate	Amount	Units	Amount
Mobilization and demobilization of drill	1	$ 350.	$ 350.00	1	$ 350.00
Core drilling	8,000	$5.75 to 8.40/ft	60,500.00	2,998	18,385.00
Excess bit costs	2,000	15¢/ft	300.00	0	0
Moving drill and setting up	25	$12/hr	300.00	25	300.00
Cementing and redrilling	300	$12/hr	3,600.00	204	2,448.00
Cement	300	$7.50/sack	2,250.00	65	412.50
Water haulage	4,000	12¢/mile	480.00	1,912	229.44
Truck rental	10	$225/mo	2,250.00	5.4	1,215.00
Casing	160	$3/ft	480.00	60	175.20
Supervisor	10	$840/mo	8,400.00	6	3,931.50
Consultant	20	$ 65/day	1,300.00	10.5	682.50
Labor	400	$2.50/hr	1,000.00	271	677.50
Core boxes	800	55¢/ea	440.00	380	332.75
Sample sacks	1,000	35¢/ea	35.00	0	0
Core splitter	1	$35.00	35.00	0	0
Payroll taxes	---	13%	1,220.00	---	599.00
Consultant per diem	20	$ 10/day	200.00	10	100.00
Consultant travel	10	$71.72/mo	720.00	6	503.44
Transportation of samples	250	8¢/ea	20.00	0	0
Assays - Au & Ag	250	$3/ea	750.00	0	0
Assays - Base metals	120	$1.75/ea	210.00	0	0
Mobilization and demobilization of bulldozer	1	$ 400.00	400.00	1	400.00
Bulldozing	40	$18/hr	720.00	40	720.00
Office expenses	10	$90/mo	900.00	6	540.00
Total amounts			$86,860.00		$32,002.33
Government participation at 75 percent			65,145.00		24,001.75
Paid to Operator					24,001.75

The Government retained no equity in any of the equipment or supplies used.

4. Project work (contd):

Effectiveness of the work - The most favorable target area was adequately explored.

Efficiency of Operation - The project was accomplished in an efficient and satisfactory manner.

5. Reports:

Operator's Final Report - An acceptable Final Report was received on September 19, 1966.

Cost Review - A Report of Cost Review was issued by the Office of Survey and Review in June 1966.

Final Audit - A final audit was not requested inasmuch as no additional vouchers were submitted or paid after the Cost Review. The final voucher was paid on May 12, 1966.

Royalty Review - There was no ore produced during the period of the contract and no royalty was due the Government.

6. Project Results:

Discoveries - There were no discoveries of silver-bearing material. A map and cross sections showing the exploration work are attached to the Operator's Final Report. Drill logs are included with the monthly vouchers and reports. Assay data are given in the Operator's Final Report. Core from Hole A-3 assayed 4.8 percent zinc, no lead, and a trace of gold and silver for the interval from 29 to 43 feet, and probably accounted for the geochemical and geophysical anomalies. No ore reserves were discovered or estimated as a result of the work. Future production is not feasible and future development and exploration are not warranted.

Certification - The OME work did not result in a discovery of minable ore and certification was not recommended.

The Operator was notified on October 27, 1966, that the Government retains no claim or lien against the property.

Production - There was no ore mined or stockpiled during the period of the contract.

Royalties - There was no ore sold and no royalties were paid or due the Government.

7. Geologic Summary: The ore bodies that have been mined in the Mineral Hill district occurred as replacement deposits in limestone in and along fracture zones several hundred feet in width. Total production from the district is estimated to be about 21,444,000 pounds of lead, 442,000 pounds of zinc, 390,000 pounds of copper, 786,670 ounces of silver, and 1,560 ounces of gold. There has been no production from the project area.

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
10/26	RM Smith	120
10/27/66	Kirkemo	120
		110
		220

Mountain Copper Company of California
100 Mococo Road
Martinez, California 94553

Re: OME-6427 (Silver)
Mountain Copper Company of California
Moco Claims
Eureka County, Nevada
Contract 2205

Gentlemen:

Reference is made to your terminated exploration contract with the Government.

We sincerely regret that the work performed did not result in a certification of possible production under the provisions of the contract. In the absence of such certification, the Government retains no claim or lien against the property subject to the contract or any future production therefrom. We, therefore, are closing our books and records on this contract. Your attention, however, is called to the provisions of the contract which require the operator to keep and preserve certain records for the periods indicated.

We appreciate your interest and participation in the OME exploration program.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Division File
Economic Geology File
OME Docket
OME Region II
120M
OME Reading File
Branch of Budget & Finance

GLAult/a 10-26-66

23263

Standard Form No. 1047
7 GAO 5000
1047-104

PUBLIC VOUCHER FOR REFUNDS

OFFICIAL COPY
O. M. B.
RECEIVED
OCT 24 1966

Voucher No. 3256

U. S. Interior, Geological Survey
(Department or Establishment, Bureau or Office)

Location: Washington, D. C.

Appropriation or Fund: 14X6875(08)

INITIAL	CODE	PAID BY
Cal	210	
cfa	120	m
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~~[illegible]~~	120	S

To
Address

Mountain Copper Company of California
100 Mococo Road
Martinez, California

~~Deposit received from the above-named depositor on~~ _____, 19____

for Contract #2205, Docket No. OME 6427

has been applied as herein stated and the balance indicated is returned herewith:

Amount ~~[illegible]~~ withheld $ 200.00

Applied as explained in "Remarks" below

Balance authorized to be refunded $ 200.00

Remarks:
Payment of amount withheld from MMB Form 60 voucher dated 4/21/66, pending submission of Operator's final report.
Ref: Memorandum Chief, Office of Minerals Exploration to Chief, Branch of Budget and Finance, 9/26/66.

Information copy for OME

(Sign original only)

A. Gabor
Title Acctg. & Fiscal Supervisor

Refund by
Check No.
Cash, $ on (Signature of payee)
(Sign original only)
Other method, $,
(Describe)

* U.S. GOVERNMENT PRINTING OFFICE : 1960 O—572727

ME Form 7
/63)

OFFICIAL FILE COPY

Date	Surname	Code
9/26	RMSmith	1208
9/26/66	Kirberno	120
		110
		220
		120

SEP 26 1966

Memorandum

To: Chief, Branch of Budget and Finance

From: Chief, Office of Minerals Exploration

Subject: OME-6427 (Silver)
Mountain Copper Company of California
Moco Claims
Eureka County, Nevada
Contract 2203

In accordance with the enclosed copy of the Field Officer's memorandum of September 19, 1966, the $200.00 being withheld may now be paid the Operator.

FRANK E. JOHNSON

Frank E. Johnson

Pd 10/20/66
Vou. 3256

Enclosure

cc: Director's Reading File
Division File
Economic Geology File
OME Reading File
R-II
MMerrithew/mm (9/26/66)

23263

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Memorandum

September 19, 1966

OFFICIAL COPY
O. M. E.
RECEIVED
SEP 21 1966
INITIALS CODE
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130 M
HB
RMD 130

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

From: Field Officer
Region II

Subject: OME-6427 (Silver)
Mountain Copper Company of Calif.
Moco Mine
Eureka County, Nevada
Contract No. 2205

Enclosed are two copies of the Operator's Final Report on the subject contract. As stated in my memorandum of April 26, 1966, the exploration did not discover silver mineralization and I do not recommend certification.

If the Final Report is satisfactory to you, the $200 being withheld from the last voucher can now be paid to the Operator.

H. K. Stager

Enclosures-2

9/21/66

Please return to B+F with copy of voucher for release of $200 withheld

FINAL REPORT OF MINERAL HILL PROJECT

O.M.E. DOCKET NUMBER 6427

MINERAL HILL DISTRICT

EUREKA COUNTY, NEVADA

Mountain Copper Company of California
100 Mococo Road
Martinez, California 94553

OPERATOR'S FINAL RPT

SUMMARY

The mineral potential of the Mineral Hill District, Eureka County, Nevada, was first brought to the attention of Mountain Copper Company of California as a result of Ralph Roberts' writings in U.S.G.S. Professional Paper 400. This paper describes the localization of mining districts and ore deposits of Eastern Nevada in and near erosional windows in the Roberts Mountain thrust fault.

The first work by Mountain Copper consisted of reconnaissance geological mapping and geochemical sampling during the summer of 1964. This reconnaissance was followed by detailed geological mapping, more closely spaced geochemical sampling and self potential geophysical work, which defined a fairly persistent zone of anomalously high concentrations of lead and zinc in the soil along the thrust fault. (Exhibit 1 of the original application for O.M.E. assistance, and the enclosed Mineral Hill Composite Map of the ammended O.M.E. application show these anomalous areas and also the proposed drill holes. Exhibits 2, 3, 4 and 5, are cross sections of the proposed drill holes showing the zone where the holes were to intersect the fault zone.)

The first hole drilled by Mountain Copper began on September 7, 1965, from drill site "A-1", 510 feet to the east of the surface contact of the limestone on the west, and the chert (Vinini Formation) to the east. It was started at an inclination of -55° and bearing due west. Acid bottle surveys showed that the hole steepened

considerably and when 780 feet of depth had been reached and no contact had been made with the fault zone, Hole #1 was temporarily abandoned. This hole proved that the fault zone must necessarily have a much steeper altitude than was predicted originally. (See revised cross section A showing Hole #1.)

To better determine the altitude of the fault, Hole #2 was started on September 30, 1965, from 200 feet east of the limestone-chert contact with -55° inclination and bearing due west. This hole also steepened considerably. When the hole reached a depth of 425 feet, Mountain Copper Company's engineer on the site advised their consulting geologist that the hole had passed the vertical projection of the fault zone.

Drilling in Hole #2 continued to test for a possible replacement zone in the limestone, but none was found and the hole was stopped and considered finished at 811 feet of depth on October 15, 1965. It was decided that the fault zone was encountered between 185 feet and 205 feet in Hole #2. Hole #1 was then re-entered on October 11 and deepened with the hope of contacting the steepened fault zone, but the fault was never reached with Hole #1. This hole was considered finished at 1000 feet of depth on November 9, 1965.

The third hole of this program was designated B-1 and was started on November 11, 1965. The drill site was located 350 feet

east of the contact and directed due west at -55° inclination (refer to sketch showing drill hole locations). Drilling on this hole started in the Vinini Formation. This hole also steepened considerably. At a depth of 410 feet, the rods stuck and could not be removed, so it was decided to reduce to BX size and drill through the stuck rods. At 665 feet the transition from the Vinini to limestone proved to be the fault interception, but drilling continued to 765 feet to test for any tension fractures or a replacement zone. The only mineralization which showed in the core, was pyrite in the shale. Thus far, after the completion of three holes, no minerals of economic value had been encountered.

Since the area around Section A showed the strongest anomaly, it was decided to test this area more completely by drilling from west to east, starting in the carbonates and drilling toward the shales. The fourth hole, designated A-3, was started on January 10, 1966, from 170 feet west of the limestone-shale contact and directed to the east with a -77° inclination. Minor sphalerite mineralization began showing in the core at 29 feet of depth and continued to 43 feet, then disappeared. Core from this portion was assayed and ran 4.8% Zn, Nil Pb, Trace Au, Trace Ag. It was the opinion of Mountain Copper Company's geologist that this mineralization accounted for the geochemical and S.P. anomalies. At 769 feet of depth, hole A-3

passed from limestone to shale and drilling continued to 833 feet at which time the hole was stopped and considered finished. This date was February 4, 1966.

CONCLUSIONS

It is the opinion of Mountain Copper Company that no minerals of economic importance have been proven as a result of their drilling program at their Moco claims, Mineral Hill District, Eureka County, Nevada. No zone of strong brecciation at the fault or tension fractures with mineralization or mineral replacement in the limestone portion was found in the four holes drilled. It is conceded that the small amount of sphalerite mineralization in Hole A-3 accounted for the strong anomalous area at Site A, and probably similar small spotty occurrences along the contact provided the mineralization for the entire anomaly. Mountain Copper Company's geologist was of the opinion that the district was a root remanent of mineralization and there was little chance of finding ore.

All drill hole cores are stored at a warehouse at 100 Mococo Road, Martinez, California, and are available for inspection by representatives of the Office of Minerals Exploration or the U.S. Geological Survey. Copies of the drill Hole logs were submitted to the O.M.E. in previous reports.

Work units consisted of 3409 feet of core drilling at a total allowable cost of $32,002.33, as summarized on the enclosed cost statement sheet. Of this amount, the Government paid Mountain Copper Company of California, $23,801.75 and withheld $200.00 pending the completion of this final report.

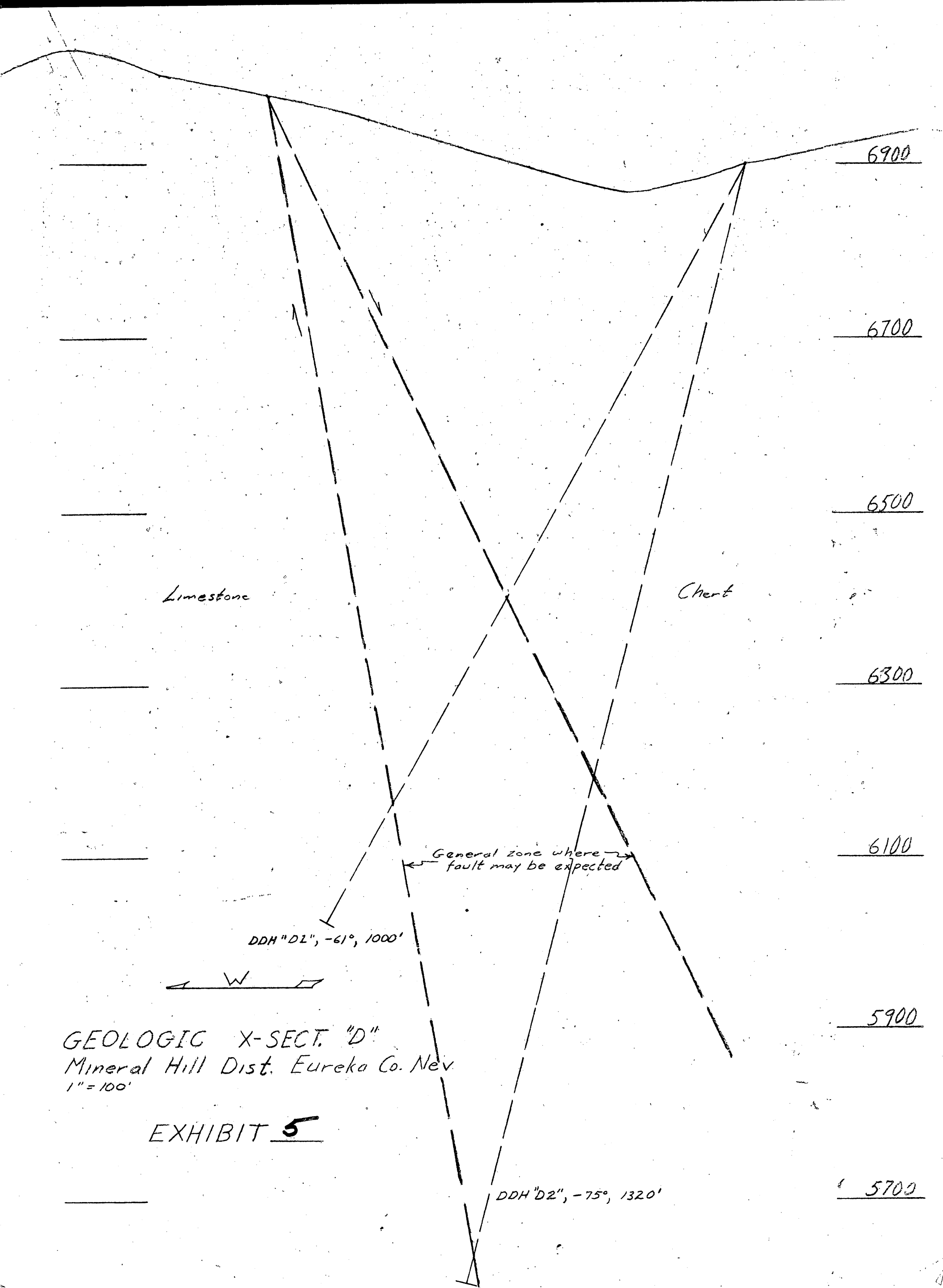
MINERAL HILL PROJECT

SUMMARY OF ALLOWABLE COSTS

Catagory 1, Independent Contracts		
Core drilling		$23,573.39
Catagory 2, Personnel Services		
Supervisor, Geologist, Engineer	$ 3,931.50	
Outside consultant	682.50	
Hourly labor	677.50	5,291.50
Catagory 3, Operating materials & supplies		
Core boxes		275.00
Catagory 7, Miscellaneous		
Payroll taxes & insurance	599.00	
Travel expenses, outside consultant	603.44	1,202.44
Fixed Unit costs		
Mobilization & demobilization D-8 Cat	400.00	
Bulldozing access road	720.00	
Office expenses	540.00	1,660.00
Total allowable costs		$32,002.33

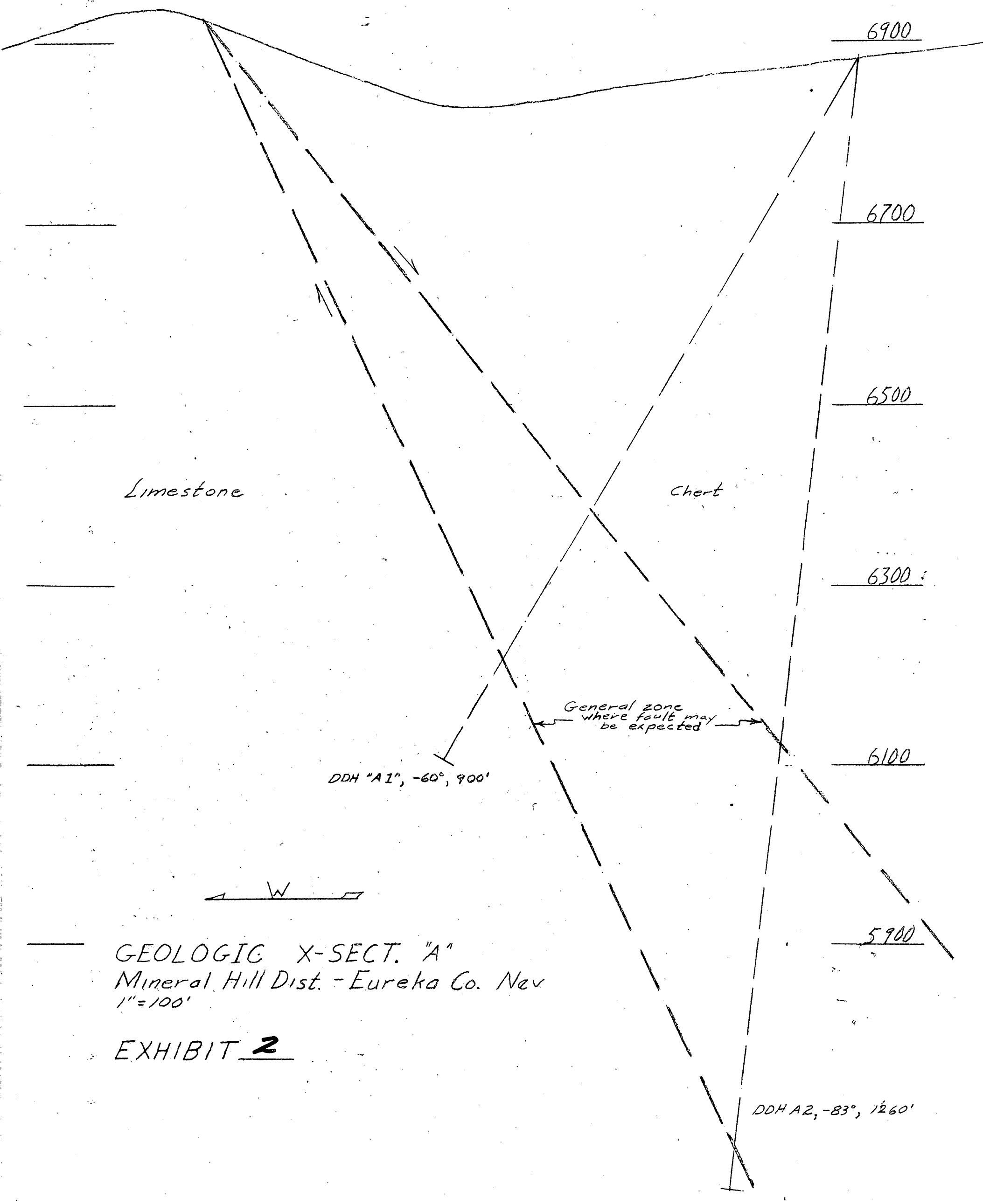
SUMMARY OF BILLINGS

	Total Allowable Cost	O.M.E. Participation
Operator's Voucher, inceptive to November 30, 1965	$19,230.27	
Less adjustment	2,642.25	
	16,588.02	$12,441.02
Operator's Voucher, December 1, 1966 to completion	15,414.31	11,560.73
	$32,002.33	$24,001.75
Remittances received		
February 1966	$12,441.02	
May 1966	11,360.73	$23,801.75
Balance, Operative		$ 200.00



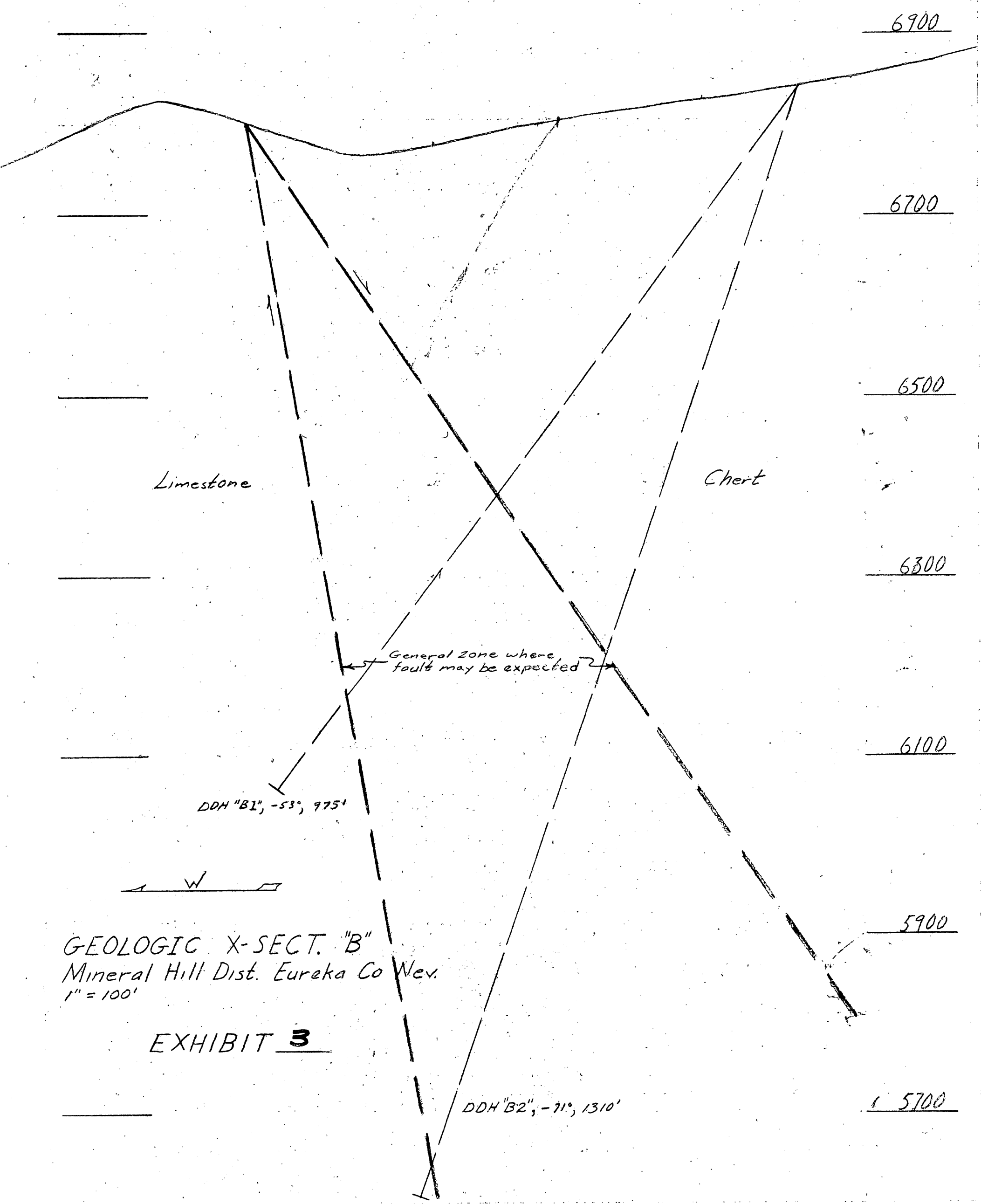
GEOLOGIC X-SECT. "D"
Mineral Hill Dist. Eureka Co. Nev.
1" = 100'

EXHIBIT 5



GEOLOGIC X-SECT. "A"
Mineral Hill Dist. - Eureka Co. Nev.
1" = 100'

EXHIBIT 2



GEOLOGIC X-SECT. "B"
Mineral Hill Dist. Eureka Co Nev.
1" = 100'

EXHIBIT 3

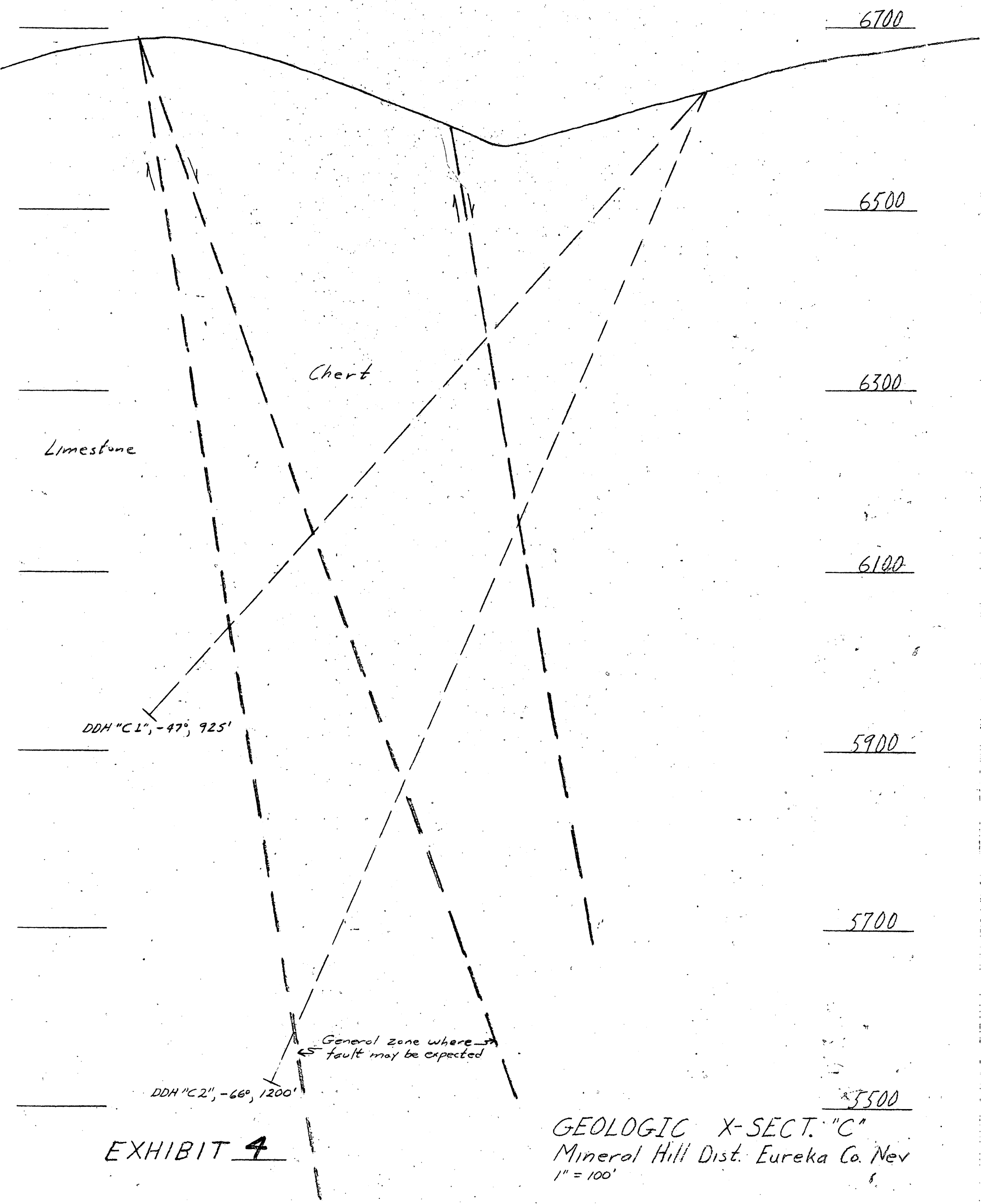
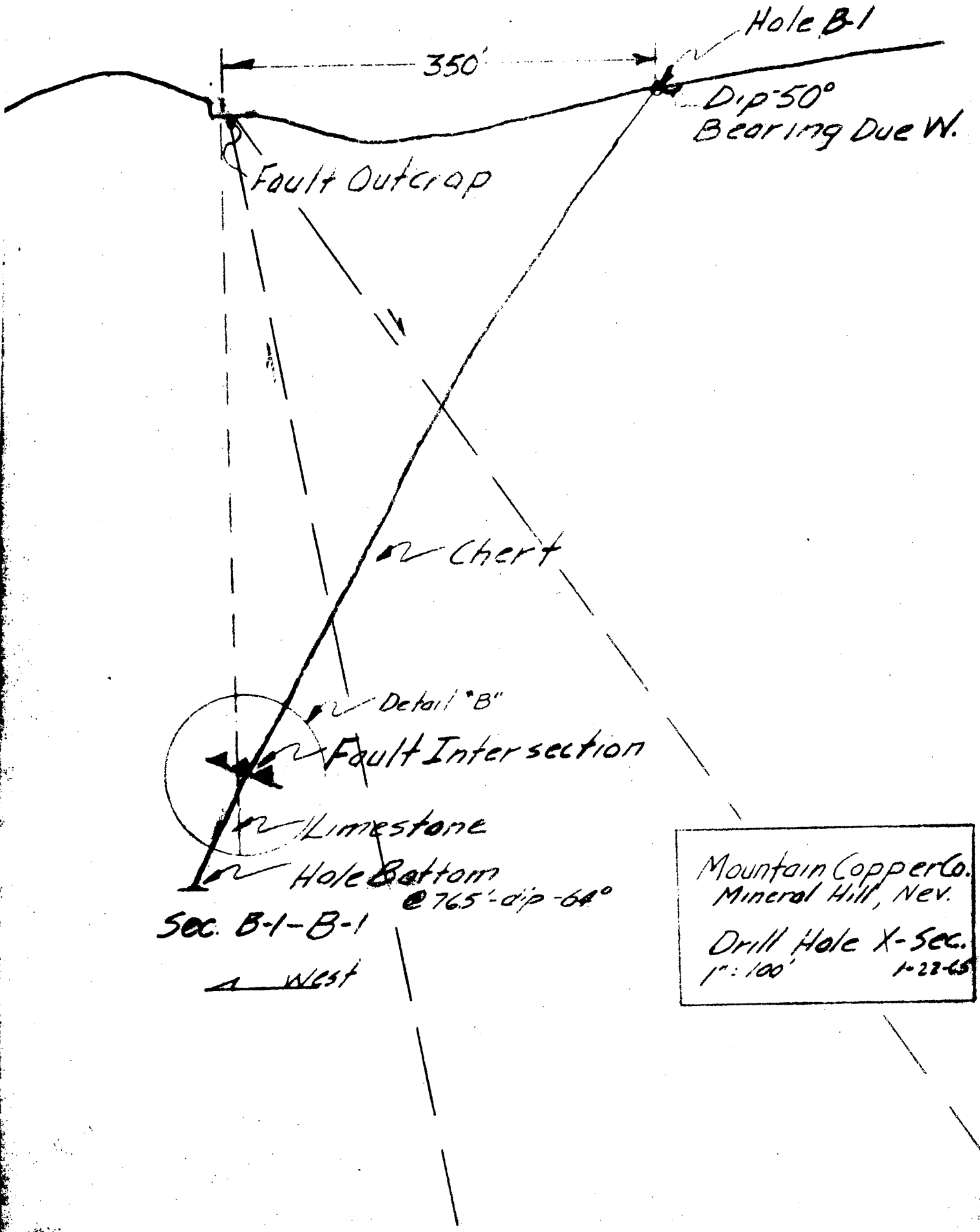
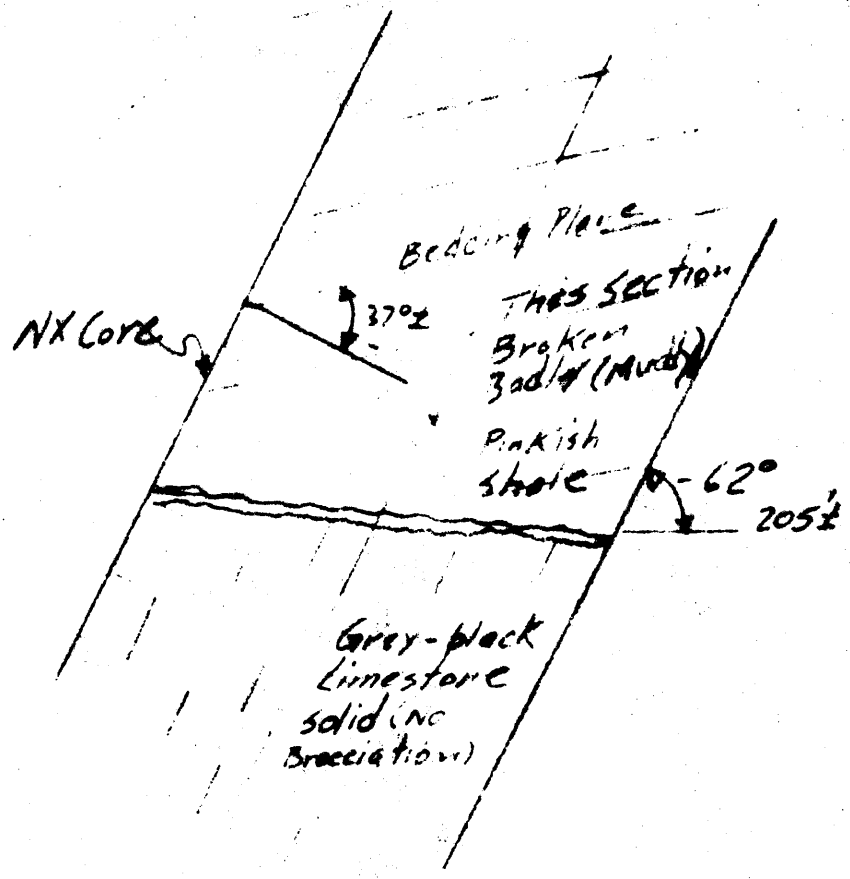


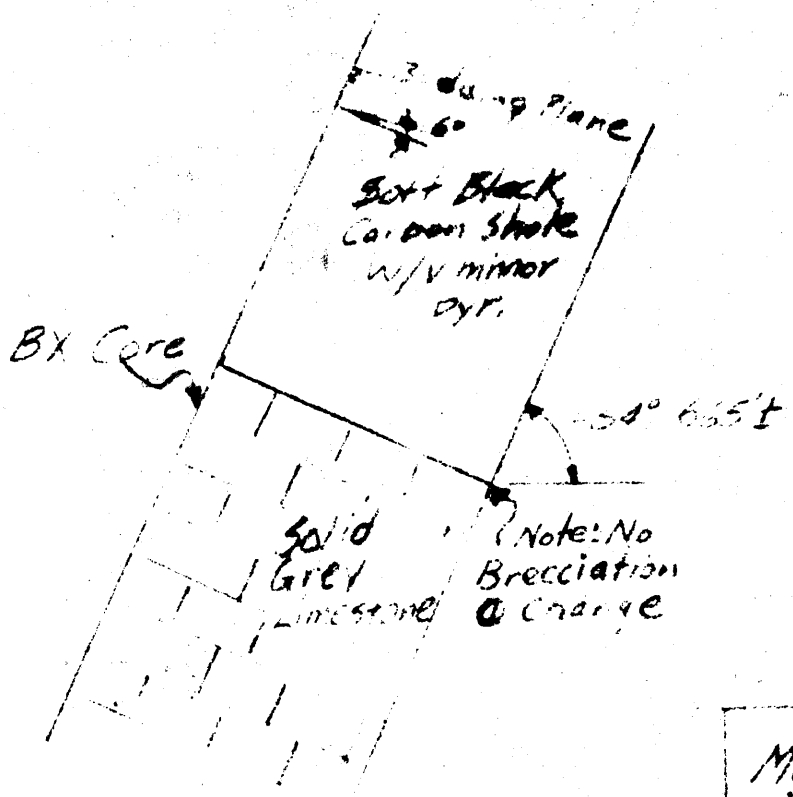
EXHIBIT 4

GEOLOGIC X-SECT. "C"
Mineral Hill Dist. Eureka Co. Nev
1" = 100'


Hole B-1
350'
Dip 50°
Bearing Due W.
Fault Outcrop
Chert
Detail "B"
Fault Intersection
Limestone
Hole Bottom
@ 765' - dip - 64°
Sec. B-1-B-1
West
Mountain Copper Co.
Mineral Hill, Nev.
Drill Hole X-Sec.
1" = 100'
1-22-65



Detail "A" actual size



Detail "B" actual size

Mountain Copper Co
Mineral Hill, Nev.

X-Sec Detail

1" = 1' 1-22-66

FORM 141-A

LABORATORY OF

THE MOUNTAIN COPPER CO., LTD.

MARTINEZ, CALIFORNIA

Analysis of Mineral [illegible] Date [illegible], 1965

Maps Enclosed with Operator's Report

MOUNTAIN COPPER COMPANY
of California

100 MOCOCO ROAD
MARTINEZ, CALIF. 94553
PHONE: 228-5530
AREA CODE: 415

September 15, 1966

DME-6427

OFFICIAL COPY
O. M. E.
RECEIVED
SEP 19 1966

INITIALS	CODE
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Mr. Frank E. Johnson, Chief
Office of Minerals Exploration
U.S. Department of the Interior
Washington 25, D. C.

Dear Mr. Johnson:

I am pleased to report that we have submitted the final report of our drilling at Eureka County, Nevada to Mr. H. K. Stager, O.M.E. Field Officer Region II, today. I had not realized how quickly the time passed. Your letter of September 2, 1966, provided the impetus needed to complete the job. Thank you for your patience.

Sincerely yours,

V. P. Bluege

V. P. Bluege
Director of Exploration

9/22/66
Ack. reply rec.

VPB:ps

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
9/2		110
9/2/66	Kirkham	120
9/2	Coe	220
		20M

SEP 2 1966

Mr. C. W. Clung
Mountain Copper Company of California
100 Mococo Road
Martinez, California 94553

Re: OME-6427 (Silver)
Mountain Copper Company of Calif.
Moco Mine
Eureka County, Nevada
Contract No. 2205

Dear Mr. Clung:

Reference is made to the letter to you of July 9, 1966, from Mr. Harold K. Stager, OME Field Officer, Region II, concerning the Operator's Final Report required under the subject contract.

Ample time has elapsed for the submission of your Final Report. Therefore, unless the report is received within 30 days from the date of this letter the $200.00 being withheld from voucher payments will be applied against the preparation of such report.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's reading file
Division file
Economic Geology file
Branch of Budget and Finance
OME file
OME reading file
OME Region II
120-M

FEJohnson/bih 9/2/66

23263

OFFICIAL FILE COPY

Date	Surname	Code
8/2		110
8/2	Nishamo	120
8/2	cac	220
		120M

AUG 2 1966

Memorandum

To: Chief, Branch of Budget and Finance

From: Chief, Office of Minerals Exploration

Subject: OME-6427 (Silver)
Mountain Copper Company of California
Moco Claims
Eureka County, Nevada
Contract 2205

Enclosed is a copy of a letter dated July 5, 1966, to the subject Operator from the Field Officer, Region II, transmitting a copy of the Report of Cost Review issued in June 1966. Also enclosed is a copy of said Report of Cost Review.

The sum of $200.00 being withheld pending receipt of the Operator's final report on the subject contract should be continued to be withheld.

FRANK E. JOHNSON

Frank E. Johnson

Enclosures

cc: Director's Reading File
Division File
Economic Geology File
OME Docket
OME Reading File
OME Region II
GLAult/a 8-2-66

23263

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

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O. M. E.
RECEIVED
JUL 7 1966

July 5, 1966

Mr. C. W. McClung
Mountain Copper Company of California
100 Mococo Road
Martinez, California 94553

Re: OME-6427 (Silver)
Mountain Copper Co. of Calif.
Moco Claims
Eureka County, Nevada
Contract No. 2205

Dear Mr. McClung:

Enclosed for your files is a copy of a Report of Cost Review, Contract No. 2205, dated June 1966, by the Office of the Chief Auditor, U.S. Geological Survey.

The Field Officer, OME, Region II, concurs with the facts stated in this Report of Cost Review.

Mr. Bluege stated, on his last visit to Menlo Park, that he was preparing your Final Report on the subject project. To date we have not received this report. Payment of the unpaid balance of $200 due Mountain Copper Company, on the last voucher, is being withheld until your Final Report is received.

Sincerely yours,

H. K. Stager
Field Officer
OME, Region II

Enclosure

cc: Chief, OME, WDC (2)
D RF
ACG RF
MP RF
Docket 6427
HKStager:mlb

OFFICIAL FILE COPY

Date	Surname	Code
6/21	Rmgmitte	120d
6/21/66	Kirkamo	120f
		110
6/21	C.a.C	320
		120m

JUN 27 1966

Memorandum

To: Field Officer, Region II

From: Chief, Office of Minerals Exploration

Subject: GMK-6427 (Silver)
Mountain Copper Company of California
Moco Claims
Eureka County, Nevada
Contract 2205

As requested in your memorandum of April 26, 1966, a Report of Cost Review covering costs on the subject contract has been prepared. Two copies of the report are enclosed, one for your files, the other for the Operator.

If you concur in the facts as stated in the Report of Cost Review, the Operator should be sent its copy of the report with any comment you may wish to make. Also, if you have not received the Operator's Final Report, please request it again. As evidence of your concurrence in the report, two copies of your letter of transmittal to the Operator should be furnished this office. If for any reason you do not concur, the two copies of the report should be returned with your comments.

The unpaid balance of $200.00 will continue to be withheld until the Operator's Final Report is received.

FRANK E. JOHNSON

Frank E. Johnson

Enclosures

cc: Director's Reading File
Division File
Economic Geology File
OME Docket
OME Reading File
130

Minutes/mm (6/21/66)

23263

IN REPLY REFER TO:

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

OFFICE OF THE DIRECTOR

JUN 14 1966

OFFICIAL COPY
O. M. E.
RECEIVED
JUN 15 1966

INITIALS	CODE
	1207
	1210
	1208

Memorandum

To: Chief Geologist
Through: Assistant Director

From: Chief Auditor

Subject: Internal Audit of Contract 2205
Docket No. OME-6427 (Silver)
Mountain Copper Company of California
Moco Claims
Eureka County, Nevada

Enclosed are four copies of the report of our cost review of the subject contract. This review was made at the request of the Chief, Office of Minerals Exploration.

William T. McClelland

William T. McClelland

Enclosure

MME FORM 60
SEPT. 1959

OFFICIAL COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

Docket No. OME 6427
Contract No. 14-23-090-2205
Contract Amount $ 86,860.
Gov't. Participation % 75 $ 65,145.
Mineral(s) Silver

OPERATOR'S MONTHLY VOUCHER

For Month of December 1,1965 to Completion

Operator's Name Mountain Copper Company of California
Address 100 Mococo Road, Martinez, California

COST CATEGORIES	FOR OPERATOR'S USE			FOR GOVERNMENT APPROVAL ONLY		
	MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE	MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE
Fixed Unit Costs and						
(1) Independent Contracts:						
Bulldozing						
Drifting						
Crosscutting						
Drilling	$12332.87	$11240.52	$23573.39			
(2) Personal Services:						
Supervision & Technical	1732.50	2199.00	3931.50			
Outside Consultants	292.50	390.00	682.50			
Labor	30.00	647.50	677.50			
(3) Operating Mat'l. & Supplies:						
Timber						
Explosives						
Pipe						
Rail						
Core boxes		275.00	275.00			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehab. & Repairs:						
Buildings, Fixtures, etc.						
Operating Equipment						
(6) New Buildings, Fixtures, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Analytical Work						
Payroll Taxes	229.00	370.00	599.00			
Employee's Liability Ins.						
Travel expense	327.44	276.00	603.44			
Fixed unit costs	470.00	1190.00	1660.00			
TOTALS	$15414.31	$16588.02	$32002.33			

I certify that the above bill is correct and just and that payment therefor has not been received.

Date Apr.21,1966 *Payee Mountain Copper Company of California

Per J. W. Rakow Title Secretary-Treasurer

* When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of: 11,560.93
Surpmus + 200.00 14X6875(08)
$ 11,360.93

Signature 14X0804
(Authorized Certifying Officer)

Date MAY 12 1966 Vou. No. 8549

(SEE OTHER SIDE)

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 2205

Signature H B Flager Title FIELD OFFICER Date APRIL 26, 1966

Approved by OME Executive Officer or Alternate: OME, REGION II

Signature H B Flager Title FIELD OFFICER Date APRIL 26, 1966

OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel, communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)", followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

MME FORM 61
SEPT. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

From Nov. 30, 1965 to Feb. 5, 1966

OPERATOR'S PROGRESS REPORT ~~[illegible]~~ Holes B1 & A3 Docket No. OME6427

Operator's Name Mountain Copper Co. Of California Contract No. 14-23-090- 2205

OPERATION	UNITS	FOR OPERATOR'S USE			FOR GOVERNMENT USE		
		UNITS THIS ~~[illegible]~~	UNITS TO DATE	COSTS TO DATE	APPROVED UNITS THIS MONTH	APPROVED UNITS TO DATE	APPROVED COSTS TO DATE
Drifting							
Crosscutting							
Raising							
Shafts							
Winzes							
Other Underground							
Drilling, Core-Diamond	8000	1598	3409	$32,002.33	1,598	2,998	$32,002.33
Rotary							
Drilling, Non-core-Diamond							
Rotary							
Churn							
Percussion							
Miscellaneous							
Roads and Trails							
Stripping							
Trenching							
Test Pitting							
Other Surface Work							
Initial Rehabilitation and Repairs							
Rehabilitation of Mine Workings							
New Buildings, Fixtures, etc.							
Operating Equipment Purchases							
Analytical Work							
TOTAL TO DATE *(per MME Form 60)*				$32,002.33			$32,002.33

REMARKS

This report covers the period Nov. 30, 1965 through February 5, 1966.

Holes B1 & A3 were drilled and considered completed at 765' and 833' respectively during this period.

(Continue on back)

REMARKS

WITHHOLD $200 PENDING RECEIPT OF OPERATOR'S FINAL REPORT.

(Continue on back)

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

Date April 21, 1966 Operator Mountain Copper Company of California

Per John W. Rakow Title Secretary-Treasurer

A wilfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature [illegible]

Title FIELD OFFICER, OMR REGION II
Government Representative

Date April 26, 1966

(INSTRUCTIONS ON REVERSE)

REMARKS *(Cont.)*

REMARKS *(Cont.)*

INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

UNITED STATES
DEPARTMENT OF THE INTERIOR
U. S. Geological Survey
Branch of Budget and Finance
Washington, D. C. 20242

ADMINISTRATIVE SUSPENSION STATEMENT

Name and Address of Payee: Mountain Copper Company of California
100 Mococo Road,
Martinez, Calif.

Amount Claimed:	Differences (Explained Below)	Amount Approved
$15,414.31	$200.00	$15,414.31 11,560.73 Govt. Share 200.00 Withheld 11,360.73 Amt. Paid
Bu. Voucher No.	Payee's Invoice No. OME #6427 Contract # 2205	Period December 1, 1965 to Completion

EXPLANATION

$200.00 withheld pending receipt of final report.

Any reclaim for items deducted must be supported by the original of this statement and submitted to the office shown above.

E. Gibson
Branch of Budget and Finance

MOUNTAIN COPPER COMPANY

of California

PART I

OPERATOR'S MONTHLY VOUCHER

April 21, 1966

MOUNTAIN COPPER COMPANY
of California

100 MOCOCO ROAD
MARTINEZ, CALIF. 94553
PHONE: 228-5530
AREA CODE: 415

April 20, 1966

Mr. H. K. Stager
Field Officer
U.S. Department of the Interior
Office of Minerals Exploration
345 Middlefield Road
Menlo Park, California 94025

Re: OME 6427 (silver)
Mountain Copper Co. of Calif.
Moco Claims
Eureka County, Nevada
Contract 2205

Dear Mr. Stager:

Enclosed are the original and three copies of the Operator's Progress Report, Operator's Narrative Report and Voucher of costs incurred and claimed by Mountain Copper Company at the completion of Holes B1 and A3 of their drilling program. These holes are shown as Holes 3 and 4 respectively on the Summary of Cost sheet.

I trust these meet with your approval.

Very truly yours,

V. P. Bluege
Director of Exploration

VPB:ea
Encls.

MOUNTAIN COPPER COMPANY OF CALIFORNIA

MINERAL HILL PROJECT

Summary of Costs Incurred

Completed Project

Also support for Operator's Monthly Voucher

OME Contract #~~6427~~ 2205

December 1, 1965 to Completion

MINERAL HILL PROJECT

SUMMARY OF COSTS

Category I, Independent Contracts

		Billed	Not Includable	Allowable	Previously Claimed	Current Billing
Core drilling:						
Hole #1:						
NX 0' to 500'	500 @ $5.75	$ 2,875.00		$ 2,875.00	$ 2,875.00	
NX 500' to 750'	250 @ $6.50	1,625.00		1,625.00	1,625.00	
NX 750' to 780'	30 @ $7.25	217.50		217.50	217.50	
NX 780' to 840'	60 @ $7.25	435.00		435.00	435.00	
BX 840' to 885'	45 @ $6.75	303.75		303.75	303.75	
BX 885' to 1000'	115 @ $6.75	776.25		776.25	776.25	
Hole #2:						
NX 0' to 20'	20 @ $5.75	115.00		115.00	115.00	
NX 20' to 500'	480 @ $5.75	2,760.00	$ 575.00	2,185.00	2,185.00	
NX 500' to 750'	250 @ $6.50	1,625.00	1,625.00			
NX 750' to 811'	61 @ $7.25	442.25	442.25			
Hole #3:						
NX 0' to 295'	295 @ $5.75	1,696.25		1,696.25		$ 1,696.25
NX 295' to 410'	115 @ $7.75	891.25		891.25		891.25
BX 410' to 500'	90 @ $5.25	472.50		472.50		472.50
BX 500' to 651'	151 @ $6.00	906.00		906.00		906.00
BX 651' to 750'	99 @ $6.00	594.00		594.00		594.00
BX 750' to 765'	15 @ $6.75	101.25		101.25		101.25
Hole #4:						
NX 0' to 500'	500 @ $5.75	2,875.00		2,875.00		2,875.00
NX 500' to 665'	165 @ $6.50	1,072.50		1,072.50		1,072.50
NX 665' to 750'	85 @ $6.50	552.50		552.50		552.50
NX 750' to 833'	83 @ $7.25	601.75		601.75		601.75
Saliceous Limestone and Chert	45 @ $2.00	90.00		90.00		90.00
Moving & setting up:						
Mobilization and demobilization		638.00	288.00	350.00	175.00	175.00
Survey time	35 hrs. @$12.00	420.00	420.00			
Setup time	174 hrs. @$12.00	2,088.00	1,788.00	300.00	300.00	
Standby time	10 hrs. @$12.00	120.00	120.00			
Cementing & redrilling:						
Cement time	204 hrs. @$12.00	2,448.00		2,448.00	1,044.00	1,404.00
Cement and cement substitutes	55 sacks	425.09	12.59	412.50	296.47	116.03
Miscellaneous:						
Truck rental	5.4 mo. @$225.00	1,215.00		1,215.00	675.00	540.00
Water hauling	1,912 miles @12¢	229.44		229.44	101.40	128.04
Drilling additives	112 sacks	569.63	569.63			
Casing	60' NX @$2.92	175.20		175.20	58.40	116.80
Casing time	18 hrs. @$12.00	216.00	216.00			
Core boxes	105 @$1.00	105.00	47.25	57.75	57.75	
		$29,677.11	$6,103.72	$23,573.39	$11,240.52	$12,332.87

DIAMOND CORE DRILLING
DIAMOND DRILLING EQUIPMENT
GROUTING
FOUNDATION TESTING
MINING
QUARRYING
SHAFT SINKING
TUNNEL DRIVING
MINE PLANT DESIGN AND FABRICATION

Boyles Bros. DRILLING COMPANY

CONTRACTORS-ENGINEERS-GEOLOGISTS
General Offices and Plant
1624 Pioneer Road P. O. Box 58 HUnter 7-7595
SALT LAKE CITY 10, UTAH

BRANCH OFFICES
PHOENIX
RENO
SPOKANE
DENVER
AUBURN, CALIF
ST. LOUIS

RECEIVED OCT 1 1965

65

INVOICE DATE: September 30, 1965
ORDER NUMBER:
INVOICE NUMBER:
CONTRACT: 7-343
TERMS:
LOCATION: Eureka(Mineral Hills) Nevada

Mountain Copper Co. of California
100 Maco Road
Martinez, California

HOLE NO.	FROM	TO	FOOTAGE	RATE	TOTAL
Mobilization to Job					350.00
#1	NX 0	500	500	5.75	2875.00
	NX 500	750	250	6.50	1625.00
	NX 750	780	30	7.25	217.50
	Rent On Water Truck for Sept.				225.00
	Milage on water truck		377#	.12	45.24
	Standby Time		8 hrs	12.00	96.00
	Cement Time		34 hrs	12.00	408.00
	Survey Time		4 hrs	12.00	48.00
	Plaster		5 sacks	3.15	15.75
	Gunite Cement		5 sacks	7.83	39.15
	Cal Seal Cement		1 sack	8.92	8.92
	Bran		1 sack	6.23	6.23
	NX Casing, 10'		2 lengths	29.20	58.40
	Bentonite		6 sacks	4.50	27.00
#2	Set Up Time		34 hrs	12.00	408.00
	NX 0	20	20	5.75	115.00
					~~$6,568.69~~
					6,568.19

ENTERED MTN. COPPER CO. OF CA. OCT

AUDITED
Compared with
Discounts taken
Purchasing agent's approval
INITIALS

MTN CPR OF CA

APPROVED
For Payment
Date
VB.
57A-17

9

DIAMOND CORE DRILLING
DIAMOND DRILLING EQUIPMENT
GROUTING
FOUNDATION TESTING
MINING
QUARRYING
SHAFT SINKING
TUNNEL DRIVING
MINE PLANT DESIGN
AND FABRICATION

Boyles Bros. DRILLING COMPANY

CONTRACTORS-ENGINEERS-GEOLOGISTS

General Offices and Plant

1624 Pioneer Road P. O. Box 58 HUnter 7-7595

SALT LAKE CITY 10, UTAH

BRANCH OFFICES
PHOENIX
RENO
SPOKANE
DENVER
AUBURN CALIF
ST LOUIS

RECEIVED

INVOICE DATE: October 31, 1965
ORDER NUMBER:
INVOICE NUMBER:
CONTRACT: 7-343
TERMS:
LOCATION: Eureka, Nevada (Mineral Hills)

Mountain Copper Company Of California
100 Maco Road
Martinez, Claifornia

ENTERED
MTN COPPER CO. OF CALIF.
NOV 1965

HOLE NO.	FROM	TO	FOOTAGE	RATE	TOTAL
2	20	500	480	5.75	2760.00
2	500	750	250	6.50	1625.00
2	750	811	61	7.25	442.25
1	780	840	60	7.25	435.00
1	840	885	45	6.75	303.75
NX Core Boxes			80 ea	1.00	80.00
BX Core Boxes			25 ea	1.00	25.00
HySeal			50 lbs	9.60	9.60
Bran			100 lbs	6.23	6.23
Caustic Soda			100 lbs	13.57	13.57
Quebracho			108 lbs	27.00	27.00
Water Truck Rental				225.00 mo	225.00
Water Truck Milage			352 mi	.12	42.24
Set Up and Moving Time			35 hrs	12.00	420.00
Bentonite , 100 lb bags			32	4.50	144.00
Cal Seal Cement, 100 lb Bags			11	8.92	98.12
Lumnite Cement, 100 lb bags			4	7.83	31.32
Casting Plaster, 100 lb bags			3	3.15	9.45
Cement Time			46 hrs	12.00	552.00
Survey Time			14 hrs	12.00	168.00
Moving and Set Up Time			35 hrs	12.00	420.00
Casing Time			18 hrs	12.00	216.00
				Total	$8,053.53 ✓

57A-17

DIAMOND CORE DRILLING
DIAMOND DRILLING EQUIPMENT
GROUTING
FOUNDATION TESTING
MINING
QUARRYING
SHAFT SINKING
TUNNEL DRIVING
MINE PLANT DESIGN
AND FABRICATION

Boyles Bros. DRILLING COMPANY

CONTRACTORS-ENGINEERS-GEOLOGISTS

General Offices and Plant
1624 Pioneer Road P. O. Box 58 Phone 487-7595
SALT LAKE CITY, UTAH 84110

BRANCH OFFICES
PHOENIX
RENO
SPOKANE
DENVER
SACRAMENTO
SANTIAGO, CHILE
LIMA, PERU

RECEIVED DEC 1 1965

INVOICE DATE: November 30, 1965
ORDER NUMBER:
INVOICE NUMBER:
CONTRACT: 7-343
TERMS:
LOCATION: Eureka, Nevada (Mineral Hills)

Mountain Copper Company Of California
100 Maco Road
Martinez, California

HOLE NO.	FROM	TO	FOOTAGE	RATE	TOTAL
#1	885	1000	115	6.75	776.25
#3	0	295	295	5.75	1696.25
	295	410	115	7.75	891.25
	Water Truck Rental				225.00
	Water Truck Milage		116 miles	.12	13.92
	Cement Time		29 hrs	12.00	348.00
	Survey Time		4 hrs	12.00	48.00
	Set Up Time		23 hrs	12.00	276.00
	Bentonite	(100 lb bags)	35 bags	4.50	157.50
	Cal Seal		7 sacks	8.92	62.44
	Lumnite		4 sacks	7.83	31.32
	Quebracho		1 sack	27.00	27.00
	Caustic Soda		1 bbl	13.57	13.57
	NX Casing, 10'		2 pieces	29.20	58.40
				Total	$4,624.90

MTN CALIF
57A-17
UB

DIAMOND CORE DRILLING
DIAMOND DRILLING EQUIPMENT
GROUTING
FOUNDATION TESTING
MINING
QUARRYING
SHAFT SINKING
TUNNEL DRIVING
MINE PLANT DESIGN
AND FABRICATION

Boyles Bros. DRILLING COMPANY

CONTRACTORS-ENGINEERS-GEOLOGISTS

General Offices and Plant
1624 Pioneer Road P. O. Box 58 Phone 487-7595
SALT LAKE CITY, UTAH 84110

BRANCH OFFICES
PHOENIX
RENO
SPOKANE
DENVER
SACRAMENTO
SANTIAGO, CHILE
LIMA, PERU

RECEIVED JAN 1 [illegible]

INVOICE DATE: December 31,1965
ORDER NUMBER:
INVOICE NUMBER:
CONTRACT: 7-343
TERMS:
LOCATION: Eureka, Nevada (Mineral Hills)

Mountain Copper Company
100 Maco Road
Martinez, California

HOLE NO.		FROM	TO	FOOTAGE	RATE	TOTAL
# 3	BX	410	500	90	5.25	472.50
	BX	500	651	151	6.00	906.00
		89 hours cement time			12.00	1068.00
		5 hours survey time			12.00	60.00
		21 sacks drilling mud			4.50	94.50
		1 sack Bran			6.23	6.23
		1 sack Lime			1.80	1.80
		6 sacks Cal Seal Cement			8.92	53.52
		2 sacks Lumnite Cement			7.83	15.66
		1 month rent on water truck				225.00
		Mileage on water truck -		376 miles	.12	45.12
						$2,948.33

MTN CAL

57A-17

UB.

ENTERED
MTN. COPPER CO. OF CALIF.
JAN [illegible]

9

DIAMOND CORE DRILLING
DIAMOND DRILLING EQUIPMENT
GROUTING
FOUNDATION TESTING
MINING
QUARRYING
SHAFT SINKING
TUNNEL DRIVING
MINE PLANT DESIGN AND FABRICATION

Boyles Bros. DRILLING COMPANY

CONTRACTORS-ENGINEERS-GEOLOGISTS

General Offices and Plant
1624 Pioneer Road P. O. Box 58 Phone 487-7595
SALT LAKE CITY, UTAH 84110

BRANCH OFFICES
PHOENIX
RENO
SPOKANE
DENVER
SACRAMENTO
SANTIAGO, CHILE
LIMA, PERU

RECEIVED FEB 9 1966

INVOICE DATE: January 31, 1966
ORDER NUMBER:
INVOICE NUMBER:
CONTRACT: 7-343
TERMS:
LOCATION: Eureka, Nevada (Mineral Hills)

Mountain Copper, Eureka
100 Maco Road
Martinez, California

HOLE NO.	FROM	TO	FOOTAGE	RATE	TOTAL
3	651	750	99	6.00	594.00
3	750	765	15	6.75	101.25
4	0	500	500	5.75	2875.00
4	500	665	165	6.50	1072.50
4	Saliceous Limestone & Chert($2.00 per foot extra) 45 ft 31 - 68 & 81 - 89			2.00	90.00
	Water Truck Rental				225.00
	Water Truck Milage		296	.12	35.52
	Drilling Mud		10 sacks	4.50	45.00
	Lumnite		4 sacks	7.83	31.32
	Cal Seal		1 sack	8.92	8.92
	Hy Seal		1 sack	9.60	9.60
	Survey Time		8 hrs	12.00	96.00
	Cementing & Drilling Cement		6 hrs	12.00	72.00
	Moving & Set Up Time		47 hrs	12.00	564.00
	Adding Lost Circulation Material		2 hrs	12.00	24.00
	NX Casing, 10' Lengths		2 ea	29.20	58.40
				Total	$5,902.51

ENTERED
MTN. COPPER CO. OF CALIF.
FEB 1966

Mtn Calif

AUDITED — INITIALS
Compared with purchase order
Footings and extensions verified
Discounts taken
Purchasing agents approval

APPROVED
For Payment 57A-17 $
NB
For A/C Dist.

DIAMOND CORE DRILLING
DIAMOND DRILLING EQUIPMENT
GROUTING
FOUNDATION TESTING
MINING
QUARRYING
SHAFT SINKING
TUNNEL DRIVING
MINE PLANT DESIGN
AND FABRICATION

Boyles Bros. DRILLING COMPANY

CONTRACTORS-ENGINEERS-GEOLOGISTS

General Offices and Plant
1624 Pioneer Road P. O. Box 58 Phone 487-7595
SALT LAKE CITY, UTAH 84110

BRANCH OFFICES
PHOENIX
RENO
SPOKANE
DENVER
AUBURN, CALIF.
SANTIAGO, CHILE
LIMA, PERU

RECEIVED MAR 22 1966

INVOICE DATE: February 28, 1966
ORDER NUMBER:
INVOICE NUMBER:
CONTRACT: 7-343
TERMS:
LOCATION: Eureka, Nevada (Mineral Hills)

Mountain Copper Eureka
100 Maco Road
Martinez, California

HOLE NO.	FROM	TO	FOOTAGE	RATE	TOTAL
#4	665	750	85	6.50	552.50
	750	833	83	7.25	601.75
	Tearing down and moving equipment up hill from hole #4 to where it could be loaded on truck		24 hrs	12.00	288.00
	Water truck rental			225.00 mo	90.00
	Water truck milage		395 miles	.12	47.40
				Total	$1,579.65

ENTERED
MTN. COPPER CO. OF CALIF.
MAR 1966

Mtn Calif

AUDITED
INITIALS
Compared with purchase order
Footings and extensions verified
Discounts taken
Purchasing agent's approval

APPROVED
For Payment
JB.
CH
A/C
Dist.

57h 17
$

9

MINERAL HILL PROJECT

SUMMARY OF COSTS

Category 2, Personnel Services

Supervisor, geologist, engineer:

Richard L. Coppage, Social Security #553-42-8294

Month	Gross Salary	Allocation to Project Percent	Allocation to Project Amount	Allowable	Previously Claimed	Current Billing
August 1965	$675.00	25.8	$174.00			
September 1965	675.00	100.0	675.00			
October 1965	675.00	100.0	675.00			
November 1965	675.00	100.0	675.00			
December 1965	675.00	100.0	675.00			
January 1966	705.00	100.0	705.00			
February 1966	705.00	50.0	352.50			
Total				$3,931.50	$2,199.00	$1,732.50

Outside consultant:

Manning W. Cox Associates:

Month	Billed Days	Billed Amount	Allowable Days	Allowable Amount	Allowable	Previously Claimed	Current Billing
August 1965	1.0	$105.00					
September 1965	4.5	472.50	2	$130.00			
October 1965	4.0	420.00	2	130.00			
November 1965	4.5	472.50	2	130.00			
December 1965	5.0	525.00	2	130.00			
January 1966	1.5	157.50	1.5	97.50			
February 1966	1.0	105.00	1	65.00			
Total					682.50	390.00	292.50
					4,614.00	2,589.00	2,025.00

Hourly labor:

Month	Per Payroll Allocation Hours	Per Payroll Allocation Amount	Allowable Hours	Allowable Amount	Allowable	Previously Claimed	Current Billing
August 1965	88	$251.00	88	$220.00			
September 1965	86	373.00	86	215.00			
October 1965	85	279.00	85	212.50			
November 1965	-	-	-	-			
December 1965	-	-	-	-			
January 1966	-	-	-	-			
February 1966	12	37.00	12	30.00			
Total					677.50	647.50	30.00
					$5,291.50	$3,236.50	$2,055.00

MANNING W. COX ASSOCIATES
CONSULTING GEOLOGISTS
57 POST STREET
SAN FRANCISCO
PHONE YUKON 2-1436

STATEMENT OF September 30, 1965

In Account with:

Mountain Copper Company
100 Mococo Road
Martinez, California

To Professional Services: Re: Mineral Hill

E. H. Lindsey, August	1 day @$105	105.00	
September	4.5 days @$105	472.50	
Sub Total		$ 577.50	$ 577.50
Less overcharge July 1, 1965 Lindsey per diem at $110 should have been $105			-22.50
			555.00

Expenses Incurred Your Account:

Blue Print service, July	1.04
Telephone (July, Aug. Sept.)	3.30
Lindsey travel expenses	56.06
Sub Total	$ 60.40

ENTERED MTN COPPER CO. LTD. OCT

A P P R O V E D For Payment 9DM'C $ 57A-
For Appl. Disc.

TOTAL ACCOUNT ..... $ 615.40

We certify that the foregoing account is a true and correct charge and that payment has not been received.

for MANNING W. COX ASSOCIATES

MANNING W. COX ASSOCIATES
CONSULTING GEOLOGISTS
57 POST STREET
SAN FRANCISCO
PHONE YUKON 2-1436

Rec'd

STATEMENT OF November 1, 1965

In Account with:
Mountain Copper Company
100 Mococo Road
Martinez, California

To Professional Services: Re: Mineral Hill, Nevada

E. H. Lindsey, 4 days @$105		420.00	
10/14 Travel, San Francisco-Elko	1/2		
10/15 Visited Mineral Hill project	1		
10/16 Travel, Elko-Lovelock	1/2		
10.19 Report on progress at Mineral Hill	1		
10/26 Re: planning further drilling at property	1		
	4		
Sub Total		$ 420.00	$ 420.00

Expenses Incurred Your Account:

Mileage (September) 813 @14¢	113.82
Mileage (October) 546 @14¢	76.44
Out of pocket	26.60
Telephone	10.45
Sub Total	$ 227.31

TOTAL ACCOUNT ..... $ 647.31

SOA-17

We certify that the foregoing account is a true and correct charge and that payment has not been received.

for MANNING W. COX ASSOCIATES

RECEIVED DEC 6 1965

MANNING W. COX ASSOCIATES consulting geologists

57 post street san francisco, california YU 2-1436

STATEMENT OF November 30, 1965

C. W. McCLUNG
DEC 6 1965

In Account With:

Mountain Copper Company
100 Mococo Road
Martinez, California

PROFESSIONAL TIME ACCOUNT

Personnel	Work Performed	Days	Rate	Amount	Charge to
E. H. Lindsey	Mineral Hill	4.5	$105	$472.50	

Detail:

11-1	Travel, pro rated	-1/2 day
11-2	at drill project	1- "
11-3	at drill project	-1/2 "
11-7	Travel, pro rated	-1/2 "
11-10	Progress report	1- "
11-18	Office study	-1/2 "
11-19	Office study	-1/2 "
		4-1/2 days

Total Time Charges $ 472.50

EXPENSES INCURRED

Item	Amount	Charge to
Lindsey, out of pocket	25.90	
Lindsey, mileage 482 @14¢	67.62	
Telephone	12.93	
Blue Print service	1.04	

APPROVED
For Payment 57A-17
For A/C Dist. 11/5

Total Expenses Incurred $ 107.49

TOTAL ACCOUNT $ 579.99

We certify that the foregoing account is a true and correct charge and that payment has not been received.

Rene M. Johnson
for MANNING W. COX ASSOCIATES

RECEIVED JAN 11 1966

MANNING W. COX ASSOCIATES consulting geologists

57 post street san francisco, california YU 2-1436

C. W. McCLUNG
JAN 11 1966

STATEMENT OF December 31, 1965

In Account With:
Mountain Copper Company
100 Mococo Road
Martinez, California

PROFESSIONAL TIME ACCOUNT

Personnel	Work Performed	Days	Rate	Amount	Charge to
E. H. Lindsey	Taylor prospect	2	105	210.00	
	Hazel Creek prospect	2	105	210.00	
	Mineral Hill Drilling on property 2-1/2 days travel 2-1/2 days	5	105	525.00	

Total Time Charges $ 945.00

EXPENSES INCURRED

Item	Amount	Charge to
Lindsey expenses	43.43	Taylor Creek
"	6.35	Hazel Creek
"	57.60	Mineral Hill
Mileage 152 @14¢	21.28	Hazel Creek
881 @14¢	123.34	Mineral Hill
Blue Print Service	1.04	
Branco's	4.36	
Telephone	13.31	

ENTERED
MTN. COPPER CO. OF CALIF.
JAN 1966

APPROVED
For Payment
For A/C
Dist.

Total Expenses Incurred $ 270.71

TOTAL ACCOUNT $ 1215.71

We certify that the foregoing account is a true and correct charge and that payment has not been received.

Jane M. Johnson
for MANNING W. COX ASSOCIATES

RECEIVED FEB 7 1966

MANNING W. COX ASSOCIATES consulting geologists

57 post street san francisco, california YU 2-1436

STATEMENT OF January 31, 1966

In Account With:
Mountain Copper Company
100 Mococo Road
Martinez, California

PROFESSIONAL TIME ACCOUNT

Personnel	Work Performed	Days	Rate	Amount	Charge to
E. H. Lindsey	Mineral Hill Project travel & visit project - 1 report on project 1/2	1.5	$105	$157.50	

ENTERED
MTN. COPPER CO. OF CALIF.
JAN 1966

Total Time Charges $157.50

EXPENSES INCURRED

Item	Amount	Charge to
Travel, San Francisto - Elko	71.72	Mineral Hill jProject
Aerial photos	9.60	Mineral Hill Project
Telephone	12.20	

APPROVED	
For Payment	524.17
For A/C Dist.	

Total Expenses Incurred $ 93.52

TOTAL ACCOUNT $ 251.02

We certify that the foregoing account is a true and correct charge and that payment has not been received.

Jane M. Johnson
for MANNING W. COX ASSOCIATES

MANNING W. COX ASSOCIATES consulting geologists

57 post street san francisco, california YU 2-1436

STATEMENT OF February 28, 1966

In Account With:
Mountain Copper Company
100 Mococo Road
Martinez, California
1

PROFESSIONAL TIME ACCOUNT

Personnel	Work Performed	Days	Rate	Amount	Charge to
E. H. Lindsey	Mineral Hill project	1	$105	$105.00	Mineral Hill

Total Time Charges $ 105.00

EXPENSES INCURRED

Item	Amount	Charge to
Lindsey, air travel	$71.72	Mineral Hill Project

ENTERED
MTN. COPPER CO. OF CALIF.
FEB 1966

APPROVED		
For Payment	574-17	$
For A/C Dist.		

Total Expenses Incurred $ 71.72

TOTAL ACCOUNT $ 175.72

We certify that the foregoing account is a true and correct charge and that payment has not been received.

for MANNING W. COX ASSOCIATES

MINERAL HILL PROJECT

SUMMARY OF COSTS

Category 3, Operating Materials & Supplies

		Allowable	Previously Claimed	Current Billing
Ore boxes:				
BX 250 @ 52.5¢	$131.25			
NX 250 @ 62.5¢	156.25			
	$287.50			
Allowable, 500 @ 55¢		$275.00	$275.00	NIL

KIVA CONTAINER CORPORATION

RECEIVED SEP 27 1965

2935 GRAND AVENUE — Tel. No. 272-6511 Area Code 602 — PHOENIX, ARIZONA 85017

MANUFACTURERS AND DESIGNERS OF CARTONS TO YOUR SPECIFICATIONS

VARIOUS STOCK SIZE CARTONS AVAILABLE

CUST NO. # 0X

DATE 9-22 1965

SOLD TO: Mountain Copper Co. of Calif
100 Morello Rd
Martinez California

SHIPPED TO: Same
c/o R.L. Cosgrove
1173 3rd St apt 4
Elko Nevada

ORDER NO.

CUSTOMER'S ORDER NUMBER	F. O. B.	TERMS	☑ CHARGE ☐ C.O.D.
4898	our Plant	1% 10 Days	

QUANTITY	ITEMS AND DESCRIPTION	PRICE PER M	AMOUNT
250	Box Case Boxes New Style	525.00	131 25
250	Box Case Boxes New Boxes	625.00	156 25

ENTERED
MTN. COPPER CO. OF CALIF.
OCT 1965

AUDITED — INITIALS
Compared with purchase order
Footings and extensions verified
Discounts taken
Purchasing agents approval

APPROVED
For Payment VB
For A/C Dist.
57-417 $

2875/288
288.62

All accounts are due and payable by the 10th of the month following date of purchase. A 1% per month interest will be charged on all past due accounts. Should the account be placed in the hands of an attorney for collection, the customer agrees to pay all court costs and a reasonable attorney's fee.

SUB TOTAL WITHOUT TAX

RECEIVED ABOVE IN GOOD CONDITION

BY

FOR RESALE ☑ ADD SALES TAX ☐ % ON

PAPER PATENTED BY N.C.R. CO. No. 01840 UARCO INCORPORATED

PLEASE PAY FROM THIS INVOICE

STATEMENT SENT ONLY ON REQUEST

INVOICE TOTAL →

CUSTOMER'S INVOICE

MINERAL HILL PROJECT

SUMMARY OF COSTS

Category 7, Miscellaneous

		Allowable	Previously Claimed	Current Billing
Payroll taxes and insurance:				
Allowable payroll costs:				
Staff	$3,931.50			
Hourly	677.50			
	$4,609.00			
Taxes & insurance @ 13%		$ 599.00	$370.00	$229.00

Travel expense, outside consultant:

Month	Per Diem	Airfare	Total	Allowable	Previously Claimed	Current Billing
September 1965	$20.00	$72.00	$ 92.00*			
October 1965	20.00	72.00	92.00*			
November 1965	20.00	72.00	92.00*			
November 1965	20.00	72.00	92.00*			
December 1965	20.00	72.00	92.00*			
January 1966	-	71.72	71.72			
February 1966	-	71.72	71.72			
				603.44	276.00	327.44
				$1,202.44	$646.00	$556.44

* Note: Outside consultant drove to project site due to poor airline connections. Actual billed travel expenses (see Manning W. Cox Associates billings supporting category 2) are as follows:

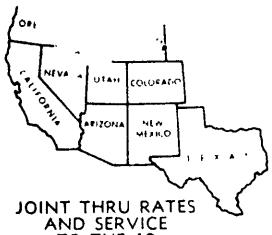
Travel time 5½ days $105.00	$ 577.50
Mileage	381.22
Out of pocket	166.16
Airfare (January & February 1966)	143.44
	$1,268.32

MINERAL HILL PROJECT

SUMMARY OF COSTS

Fixed Unit Costs

	Total	Previously Claimed	Current Billing
Mobilization, D-8 Bulldozer (Invoice $1,154.74 attached)	$ 200.00	$ 200.00	
Demobolization, D-8 Bulldozer (Invoices $120.00 & $688.00 attached)	200.00		$200.00
Bulldozing access roads and drill sites, 40 hours @ $18.00	720.00	720.00	
Office expenses, 6 months @ $90.00	540.00	270.00	270.00
	$1,660.00	$1,190.00	$470.00



JOINT THRU RATES AND SERVICE TO THE 12 WESTERN STATES

BIGGE DRAYAGE CO.

LIGHT & HEAVY HAULING • LOCAL & LONG DISTANCE

10700 BIGGE AVENUE · SAN LEANDRO, CALIFORNIA

PHONE NEPTUNE 8-8100

SPECIALIZING IN TRANSPORTING MACHINERY EQUIPMENT MATERIALS AND SUPPLIES USED OR USEFUL IN LOGGING, MINING, ROAD BUILDING AND CONSTRUCTION WORK

Origin	Destination
Mountain Copper Co. Martinez	Same 40 miles No. of Eureka, Nev.

INVOICE

TO: Mountain Copper Co.
100 Macoco Rd.
Martinez, Calif.

TERMS
NET CASH: 7 DAYS

I. C. C. CERTIFICATE NO. MC 43716
P. U. C. PERMITS NO. 1-277, 1-656, 1-278

Remittance in full for all Transportation Bills must be paid within 7 days of receipt of INVOICE. (Regulation adopted and enforced by the Interstate Commerce Commission and likewise ordered by California Railroad Commission Decision #31606, Case #4246.)

CUSTOMER NUMBER	REV. CODE	INVOICE NUMBER	INVOICE DATE	DATE JOB COMPLETED	CUST. ORDER NO.
147-4275	6	16-2026-Rev.	12/3/65	8/24/65	

QUANTITY	DESCRIPTION	WEIGHT	HOURS	RATE	AMOUNT
1	D-8 Cat (46-A)	63,340		1.13	715.74
	Permit service charge, Calif. & Nev., 2 units			5.00	10.00
1	Load misc., 1 blade & arms, 1 yoke, 2 pcs. & 2 ripper teeth	10,250			
	As	30,000		1.43	429.00
					1,154.74
	Less amount paid				1,069.18
	Balance due				85.56

MTN CALIF

57A-17

pb

APPROVED
RATES & CATEGORIES
DEC 7 1965
UNITED AUDITORS
APPROVED FOR

INVOICE AND FREIGHT BILL

DIAL 264 2617 RECEIVED MAR 18 1966 DIAL 264-2160

NEVIN MUNSON & SON
GENERAL CONTRACTORS
P. O. BOX 403
ELY, NEVADA 89301

March 15, 1966

Mountian Copper Co. of Calif.
100 Mococo Road
Martinez, Calif.

PLEASE DETACH AND RETURN THIS STUB WITH YOUR CHECK. $_____

DATE	ITEMS	CHARGES	CREDITS	BALANCE
3/7	120 Miles hauling Cat D-8	@ 1.00		$120.00

ENTERED
MTN. COPPER CO. OF CALIF.
MAR 1966

MTN CALIF

57A-17

NEVIN MUNSON & SON

JOB NO. DATE 3/7/66

EQUIPMENT NO.	EQUIPMENT HRS.	NO. LOADS	MATERIAL	RATE	OPERATOR	
		1	D8 Cater Pillar Tractor	$120.00		

BILL TO: Mt. Copper Co of Calif. 100 Mococo Road Martinez,

Accepted By: R. L. Cappart

SOUTHERN PACIFIC COMPANY

FREIGHT BILL

Issuing Agency
Regional Accounting Bureau
San Francisco, California

Car Initials and Number	Kind	Weight in Tons: Gross	Tare	Net	Length of Car: Ordered	Furnished	Marked Capacity of Car: Ordered	Furnished
SP 142729	F5				40 FT	53 FT	100M	140M

STOP THIS CAR

C.L. Transferred to or L.C.L. Loading No

Date: MARCH 8, 1966

Waybill No.: 20,013

Consignee and Address at STOP

At SPARKS FOR WEIGHING

At

At

To No. 2165 MARTINEZ — Station MARTINEZ, CALIF. — State or Prov.

From No. 3654 — Station CARLIN, NEVADA — State or Prov.

Route (Show each Junction and Carrier in Route order to destination of waybill): SP

Route Code No.

Full Name of Shipper, and, for C.O.D. Shipments, Street, Post Office Address, and Invoice Number: MOUNTAIN COPPER COMPANY OF CALIFORNIA

Code No.

Show "A" if Agent's Routing or "S" if Shipper's Routing

Reconsigned to — Station — State or Prov.

Origin and Date, Original Car, Transfer Freight Bill and Previous Waybill Reference and Routing When Rebilled.

Authority

Consignee and Address: MOUNTAIN COPPER CO. OF CALIF. 100 MOCOCO ROAD, MARTINEZ, CALIF.

Code No.

Final Destination and Additional Routing

On C.L. TRAFFIC—INSTRUCTIONS (Regarding Icing, Ventilation, Milling, Weighing, Etc. If Iced, Specify to Whom Icing Should be Charged.):

WEIGH AT SPARKS FURNISH AGENT CARLIN COPY OF SCALE TICKET.

On L.C.L. Traffic Transfer Stamps to be Shown in This Space

No. Pcs.	Description of Articles, Special Marks and Exceptions	Commodity Code No.	Weight	Rate	Freight	Advances	Prepaid
	ONE CATERPILLAR TRACTOR SLAC USED CONTRACTORS EQUIPMENT	35-313-50	75720 / 8440	86	6480		

Trans-Continental Freight Bureau. Weighing Dept. G-2818

Southern Pacific Company — SCALE TICKET

Date Weighed 3-16-66 — Minutes

Weighed Uncoupled at Sparks — Number 142729

Gross 135 040 — Tare 62 — Net 7

Capacity 100

Signature

Weighed — Cubed — Estimated

Weight Marked on Bill of Lading, Insert "Yes"

Weigh and Cubed Tariff Code Used in Column provided a new weight were obtained for L.C.L. Shipments Shipper's Taxed Weights. E—Estimated —Weigh and Cubed Tariff Code Used — Minimum

ENTERED
MTN. COPPER CO. OF CALIF.
MAR 1966

Mtn Calif

197131 MAR25 66

APPROVED RATES & EXTENSIONS

MAR 28 1966

Please Pay THIS Total 68.00

APPROVED — For Payment — Freight Bills are due on presentation and Become Delinquent 12 Midnight. Make checks payable to Southern Pacific Company and mail to Regional Accounting and Collection Bureau, P. O. Box 3827, Rincon Annex, San Francisco, California 94119.

UNITED SHIPPERS ASSOCIATION

ORIGINAL

SUBJECT TO STORAGE CHARGES IN ACCORDANCE WITH PUBLISHED TARIFFS.
THE ORIGINAL PAID FREIGHT BILL MUST BE SURRENDERED FOR OVERCHARGES TO BE REFUNDED AND MUST ACCOMPANY CLAIMS FOR OVERCHARGES, LOSS OR DAMAGE.

MOUNTAIN COPPER COMPANY

of California

PART II

OPERATOR'S PROGRESS REPORT

April 21, 1966

MOUNTAIN COPPER COMPANY

of California

PART III

OPERATOR'S NARRATIVE REPORT

April 21, 1966

SUBJECT: Docket No. OME 6427 - Contract No. 14-23-090-2205

Narrative Report of Mineral Hill, Nevada Project, at completion of Holes B1 and A3.

Operator: Mountain Copper Company of California
100 Mococo Road
Martinez, California 94553

The third and fourth core drill holes of this drilling program were designated B1 and A3 respectively.

Hole B1 was started on November 11, 1965 from a site along Section "B" (refer to sketch showing drill hole locations) 350 feet east of the fault, with a -50° inclination and bearing due west. Drilling was started NX size in a shattered shale (Vinni Formation) and loss of circulation made it necessary to cement to retain circulation. Twenty-five to forty feet of advance was made daily and core recovery was good, but loss of circulation was a constant problem and the use of drilling additives and cementing was necessary. An acid bottle survey at 282 feet showed the hole had steepened to -60°.

At 410 feet, on November 23, the drill rods stuck in the hole and could not be removed. It was decided to drill through the stuck NX with BX and continue drilling with BX size rods. This was done and drilling commenced BX size from 410 feet on December 8.

Mr. E. H. Lindsey, Consulting Geologist for Mountain Copper Company, visited the drilling operation on December 13. The hole was still in the shattered shale (Vinni) and drilling continued.

Drilling progressed very slowly from 410 feet. Weather conditions were bad, equipment breakdowns, poor circulation and shattered rock were contributing factors which accounted for the poor advance. Only seventy feet was drilled between December 8 and December 18.

Drilling was started on a three shift basis on December 18, but loss of circulation necessitating much cementing, and equipment breakdowns still persisted and progress was slow.

At a depth of 665,feet on January 4, 1966, the drill passed through the shale into limestone; with this transition both the core recovery and drilling rate improved.

Hole B1 was stopped and considered finished at 765 feet of depth on the advice of Mountain Copper's Consulting Geologist, Mr. E. H. Lindsey, on January 6, 1966. It was Mr. Lindsey's opinion the thrust fault was intercepted at 665 feet. He examined the core and noted no metallic mineralization except pyrite in the shale. (A copy of his letter regarding this visit is attached.)

Hole A3 was started NXWL size on January 10, 1966 from a site along Section A (refer to Drill Hole location sketch). The hole was started in the limestone 170' west of the limestone-shale contact with a 177° inclination and bearing east. Minor sphalerite mineralization was encountered between 29 feet and 43 feet and this mineralization may account for the geochemical and S.P. anomolies shown on the composite map. (Assays attached show 4.8% Zn, Nil Pb, Trace Au, Trace Ag.)

Drilling progressed rapidly in Hole A3 and on February 3, 1966 the drill passed from limestone into shale at 769 feet. Drilling continued to 833 feet, and this depth was reached on February 4, 1966 when the hole was stopped and considered finished.

Mountain Copper Company's Consulting Geologist, E. H. Lindsey, was at the drill site at the time the hole finished and inspected the core from the hole.

The core has been properly logged and stored and is available for inspection.

Respectfully submitted,

V. P. Bluege

V. P. Bluege
Director of Exploration

ea

RECEIVED JAN 13

MANNING W. COX ASSOCIATES consulting geologists

Mineral Hill File

January 12, 1966

Mr. C. W. McClung
Mountain Copper Company
100 Mococo Road
Martinez, California

Mineral Hill Project
Elko County, Nevada

Dear Mr. McClung:

On January 7 I visited the Mineral Hill Project. Hole B-1 had passed through the thrust fault at depth 665 feet and was at depth 765 feet in limestone (see X-Sec. B). The fault intercepted on this section (Sec.B) showed little gouge as contrasted to the gougy intercept in hole A-2, (Sec. A.). In hole B-1 there are numerous brecciated and slickensided shale intercepts just east of the shale-limestone contact and one or two upper plate limestone fragments were encountered. Shale near the thrust fault in hole B-1 appears to be slightly more altered and softened than is the case in hole A-2. On the upper plate limestone side, near the contact, there are one or two smashed and slickensided shale slivers. These features of the thrust fault seem to indicate that movement along the thrust fault at Sec. B was distributed over a fairly wide zone flanking the shale-limestone contact proper. No metallic mineralization was seen in hole B-1 except the pervasive pyrite which is indiginous in the shales.

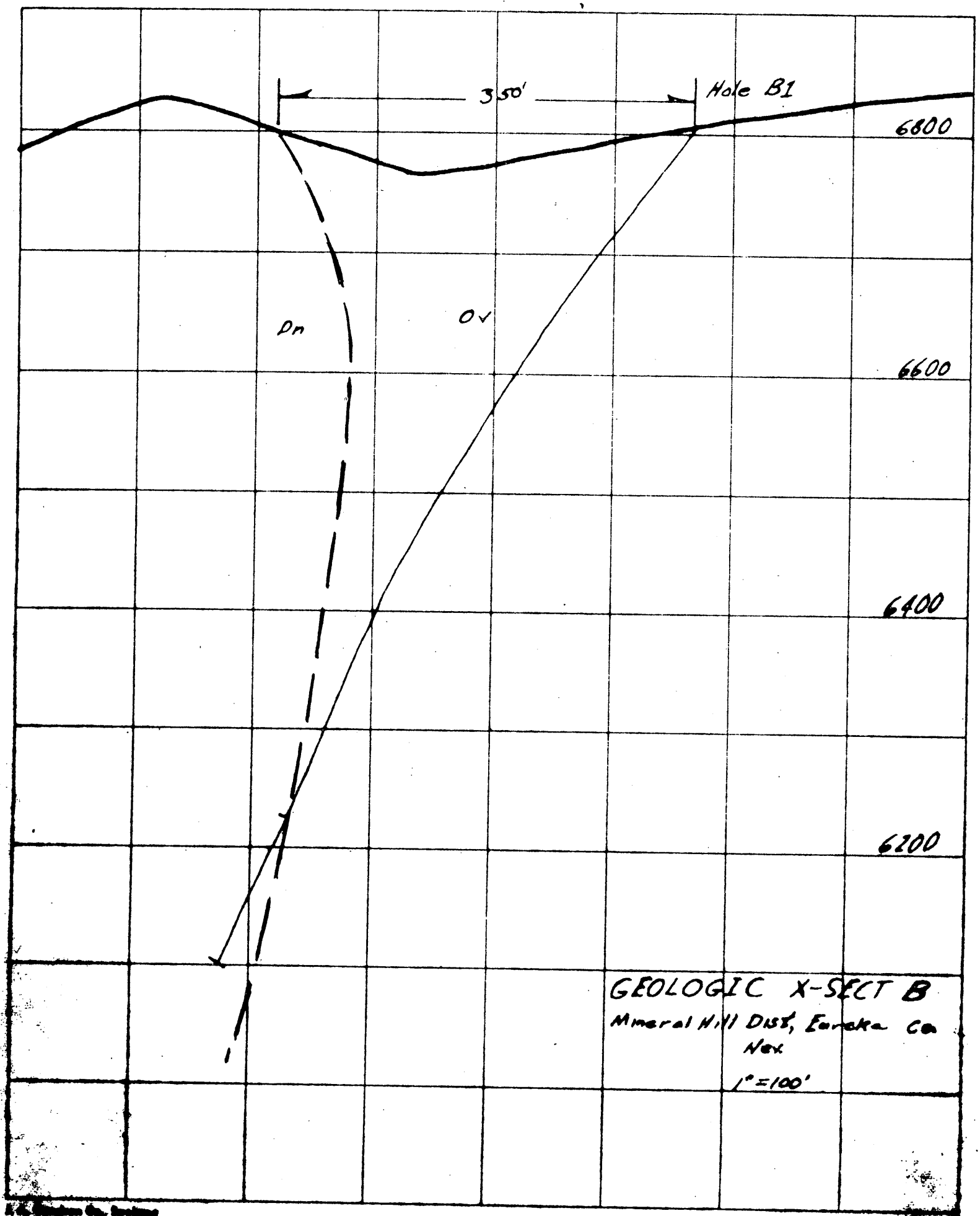
I directed Coppage to abandon Hole B-1 at 765 feet and to move the drill back to Section A. At Section A, a hole will be drilled from about 130 feet west of the thrust fault trace, directed easterly at -77° inclination to intercept the thrust fault at a depth of about 800 feet (see X-Sec. A).

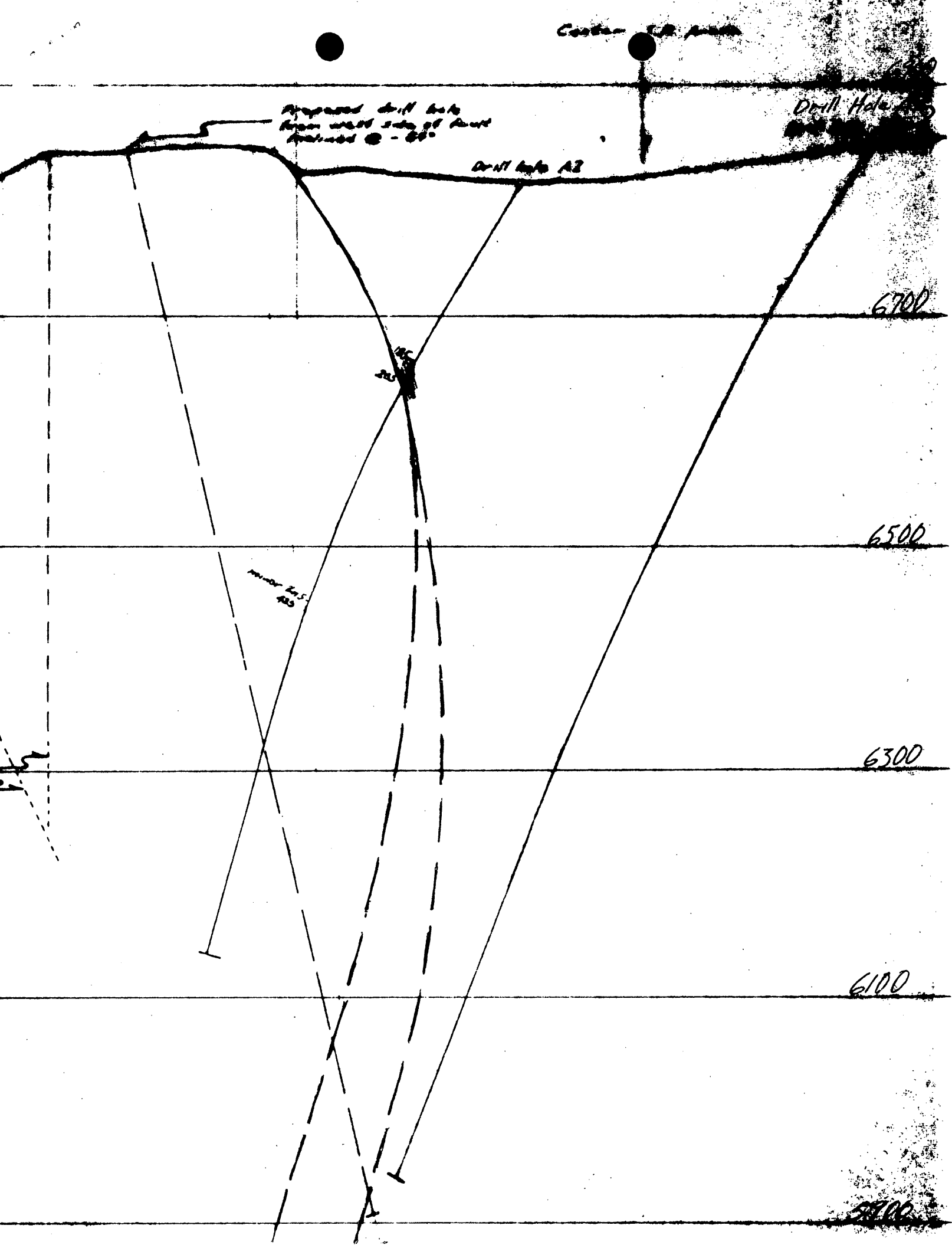
Respectfully submitted,

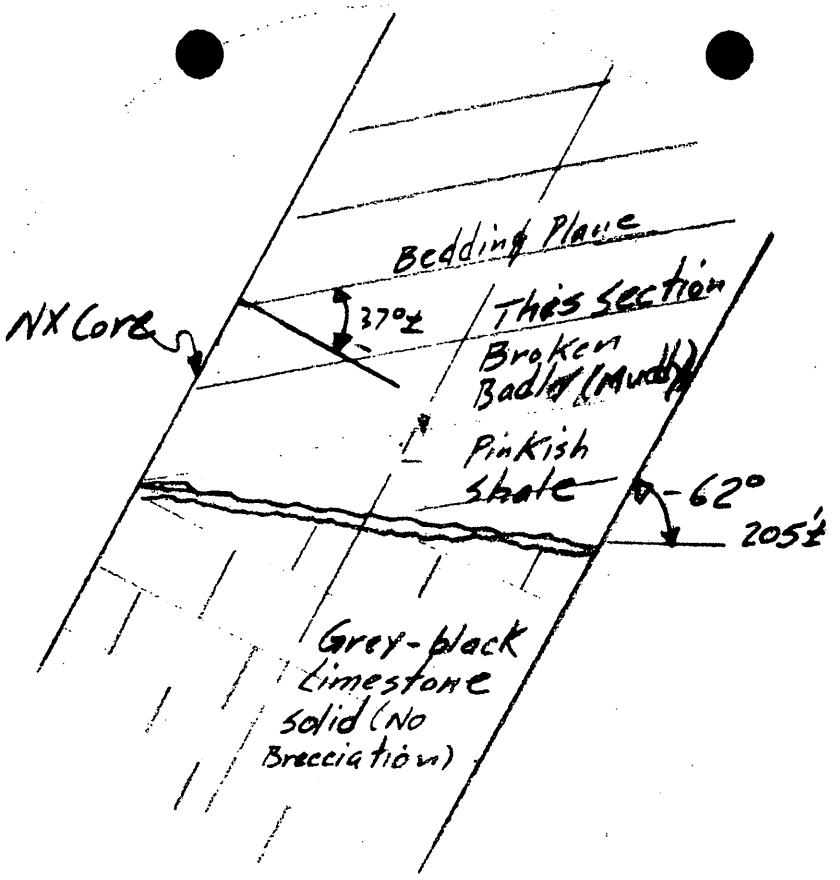
E. H. Lindsey

E. H. Lindsey

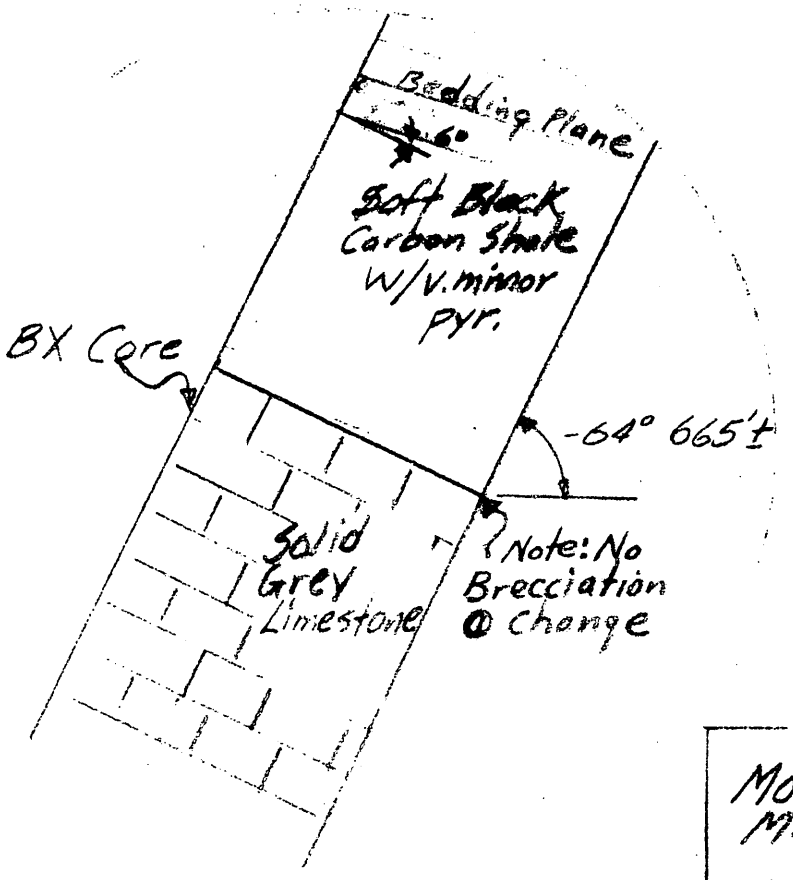
EHL:jmj
cc: V.Bluege


350'
Hole B1
6800
6600
6400
6200
Dm
Ov
GEOLOGIC X-SECT B
Mineral Hill Dist, Eureka Co
Nev.
1" = 100'


Drill Hole
Drill Hole A2
6700
6500
6300
6100



Detail "A" actual size

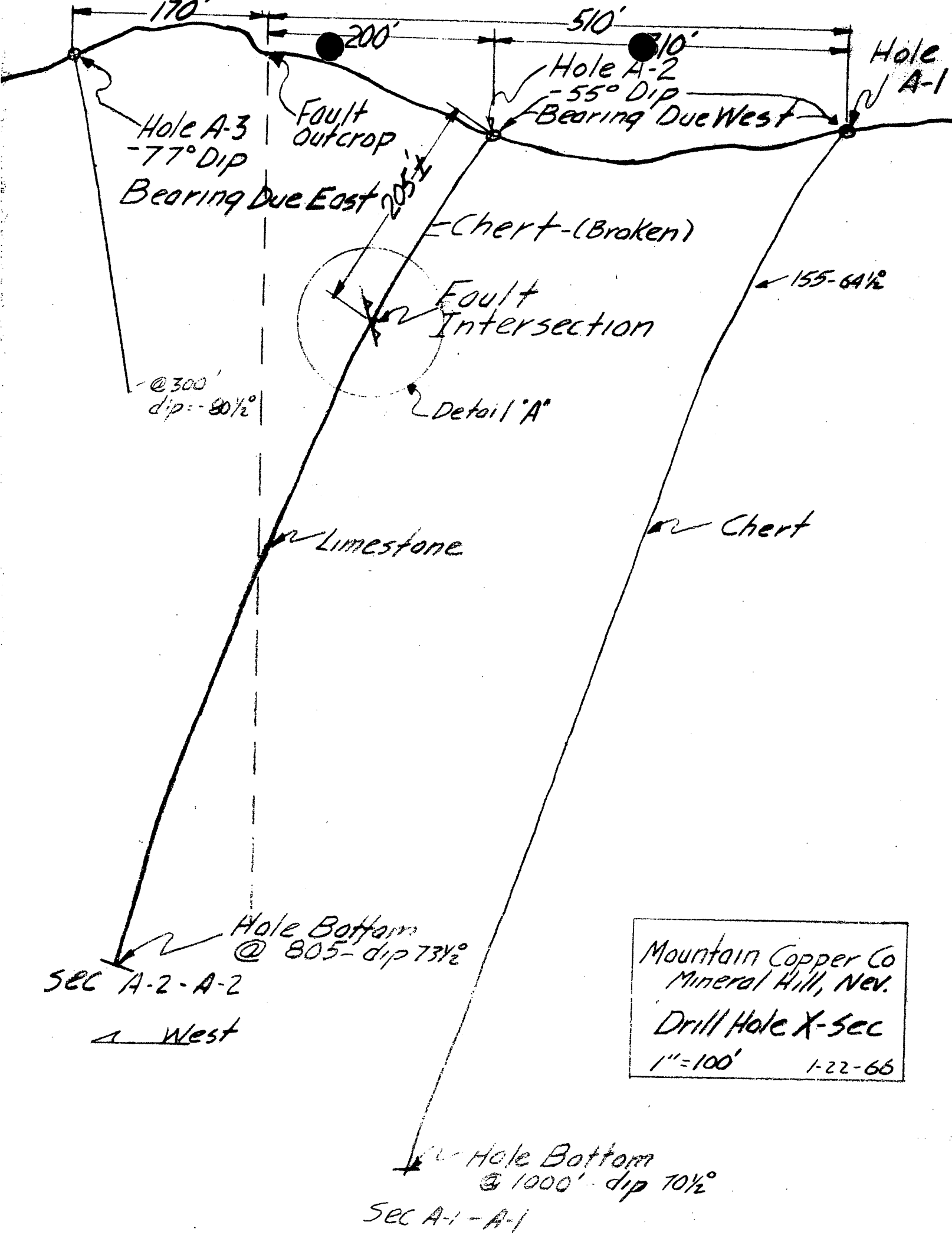


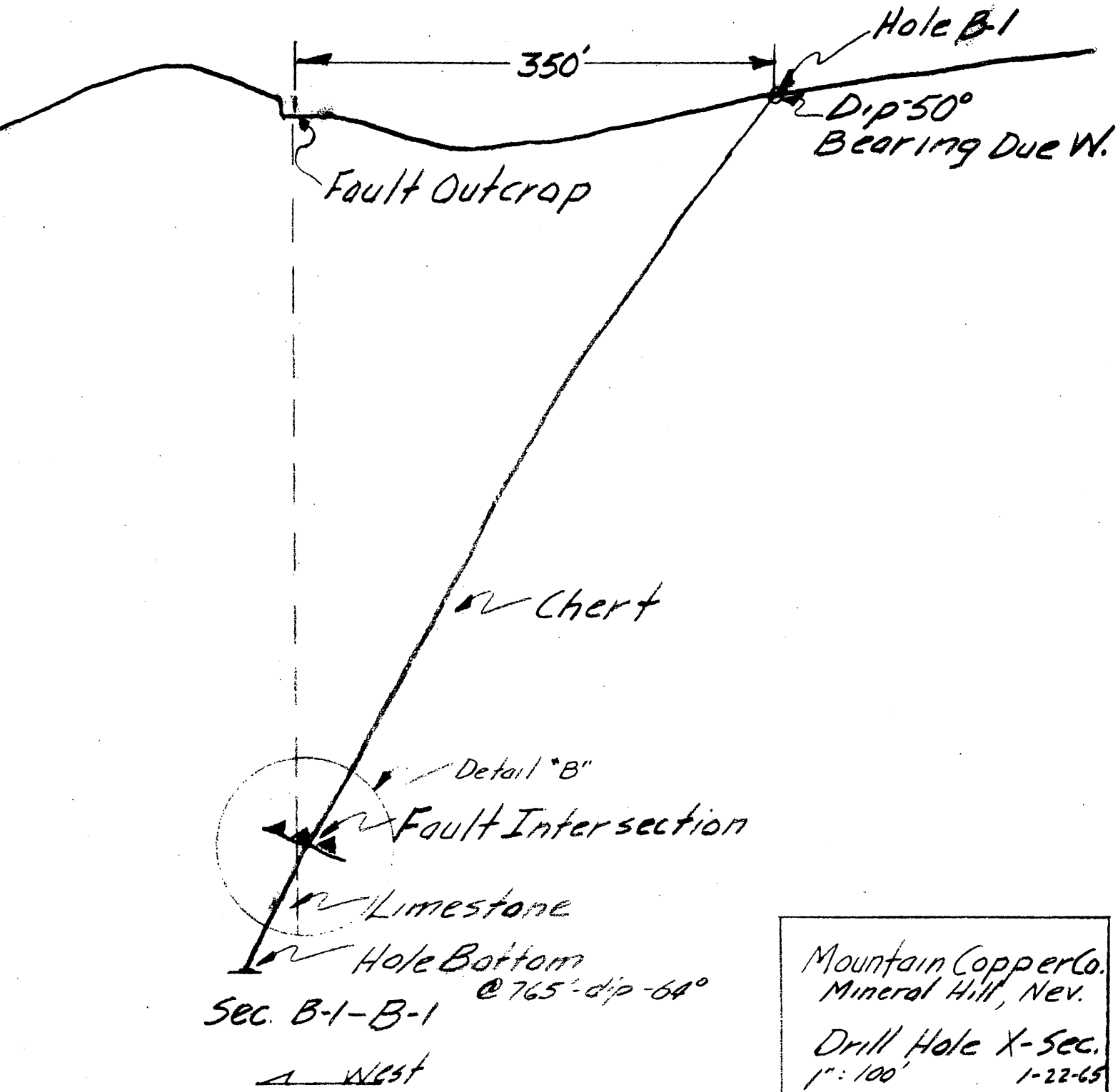
Detail "B" actual size

Mountain Copper Co
Mineral Hill, Nev.

X-Sec Detail

1" = 1' 1-22-66


170'
200'
510'
310'
Hole A-1
Hole A-2
-55° Dip
Bearing Due West
Hole A-3
-77° Dip
Bearing Due East
Fault
Outcrop
205'
Chert-(Broken)
Fault
Intersection
155-64½°
@300'
dip:-80½°
Detail "A"
Limestone
Chert
Hole Bottom
@ 805-dip 73½°
Sec A-2-A-2
West
Mountain Copper Co
Mineral Hill, Nev.
Drill Hole X-Sec
1"=100'
1-22-66
Hole Bottom
@ 1000' dip 70½°
Sec A-1-A-1



Mountain Copper Co.
Mineral Hill, Nev.

Drill Hole X-Sec.
1" : 100' 1-22-65

Mountain Copper Co of Calif.

Core Log

Hole - B-1 started 11-12-65
Drilled by - Boyles Bros.

From	To	recov.	rock Description	Mineralization	Remarks
0	34'	10'±	Grey Broken shale	FeOx stain - minor calcite	Rock won't core
34	48	9.7'	Dark Grey V. broken shale w/ mud.	FeOx stain	" "
48	78	10±	" " w/ chert bands		" "
78	89	8.2'	Blk Carbonaceous shale w/ mud & chert bands	Numerous calcite stringers & FeOx stain	
89	100'	8'	shattered blk. Carbon. shale w/ chert bands	calcite str. + FeOx stain	
100'	133'	32'	Black carbon, limey shale w/ minor chert	minor calcite & pyr.	

Hole B-1
P. 1 of 5

Mountain Copper Co. of Calif.

Core Log

Hole B-1 started-11-12-65 Drilled by- Boyles Bros.

From	To	recov.	Rock Description	Mineralization	Remarks
133	150	16'	Black shale carbon, & limey w/v minor chert bands	calcite str.; v minor pyr.	cores well- drills very hard
150	159	9'	Black Carbon, limey shale	~	drills easy
159	171	9'	~ ~	minor Pyr + FeOx stain	
171	182	9.1'	~ ~	~ ~	Hard drilling
182	191	9.0'	~ ~	~ ~	soft Drilling
191	202	9.7'	Black Carbon shale limey w/chert bands	calcite v. minor Pyr.	Hard drilling
202	210	8.0.	~	~	easy drilling
210	223	13'	~	~	easy drilling
223	224	1	Pink altered chert	none	~ ~
224	228		Black carbonaceous limey shale w/chert bands	calcite v minor Pyr.	
228	237	9.0			easy drilling
237	250	9.7'	~	~	~ ~

Hole B-1
Pg 2 of 5

Mountain Copper Co. of Calif.
Core Log
Hole B-1

started - 11-12-65
Drilled by - Boyles Bros.

From	To	Recov.	Rock Description	Mineralization	Remarks
250	380	130±	Black, carbonaceous, limey shale	minor calcite stringers + V minor pyr.	Drills very well where not broken

Mountain Copper Co. of Calif.
Core Log

Hole B-1 Started 11-12-65
Drilled by Boyles Bros.

From	To	Recov.	Rock Description	Mineralization	Remarks
380	509	125'	Black Carbon. limey Shale	minor calcite strs. + minor Pyr.	Drills easily - caves intermittently

Hole B-1
Pg 1 of 5

Mountain Copper Co of Calif.
Core log

Hole B-1

Started 11-12-65
Drilled by - Boyles Bros.

From	To	Recov.	Rock Description	Mineralization	Remarks
509	519	10'±	Shattered Black Carbon Shale	calcite & minor pyr.	
519	585	65'	Blocky-Black Carbonaceous Shale	minor calcite & pyr.	Drills easily - but - some mud
585	640	46'±	Blocky-Black carbonaceous shale contains minor rough pieces of lmst. ↓ decreases	minor calcite & pyr. -	

Hole B-1
Page 1 of 4

Coordinates – East _____ Inclination -27° Date Started 1-10-66
North _____ Bearing Due E. Date Completed _____
Collar Elevation _____ Logged By RLC Drilled By Bayles Bros. Drilling Co.

From	To	Feet Rcvd.		Rock Description	Mineralization	Alteration	Sample No.	Ag %	Zn %	Pb %	Cu %	Assay Average	
0	20	10±		Soft Broken Grey lmst.	calcite stringers	weathered							
20	26	6		~~[illegible]~~ lmst. fair / solid	numerous calcite stringers, some shale fragments								
26	38	11.6		Brecciated lmst. w/ Angular shale pieces	minor sphalerite in lmst fractures	27 34	7387	Tr	4.82	Nil	Tr.		
38	46	8		Lmst w/ major ~~[illegible]~~ shale breccia Some veins	vv minor sphal.								
46	65	18.3		Lmst - Broken - soft vuggy	small piece 4 galena @ 44'								
65	71	6		Dark breccia lmst	nil. calcite								
71	120'	49±		Grey med. Lmst.	calcite	121 - shale 130-131 shale 137- breccia							

DRILL HOLE LOG
MANNING W. COX ASSOCIATES
CONSULTING GEOLOGISTS

Mineral Hill Hole No. A-3
Page 1 of 2

1

Coordinates – East _____ Inclination -77° Date Started 1-10-66
North _____ Bearing Due E. Date Completed _____
Collar Elevation _____ Logged By RC Drilled By Boyles Bros.

From	To	Feet Rcvd.		Rock Description	Mineralization	Alteration	Sample No.	%	%	%	%	Assay Average
				~~Phyll Shale~~								
120	130'	10'		Med Gray limst some reef?	calcite in mass + stringers							
130	131	1		~~Shale~~								
131	143	12'		med Gray limst. fine grain	calcite in mass							
143	145	2'		Breccia-limst+shale	calcite							
				Gray limestone w/ minor shale ~~massive~~	calcite vv. minor Limonite							
45	240'	95'										

DRILL HOLE LOG
MANNING W. COX ASSOCIATES
CONSULTING GEOLOGISTS

Mineral Hill Hole No. A-3
Page 2 of 2

Coordinates – East _____ Inclination -77°
North _____ Bearing Due E.
Collar Elevation _____ Logged By RLC

Date Started 1-10-66
Date Completed _____
Drilled By Boyles Bros., Reno

From	To	Feet Rcvd.		Rock Description	Mineralization	Alteration	Sample No.	%	%	%	%	Assay Average
240'	360'	120'± 1'		Grey lmst. w/minor shale in fractures	Calcite in stringers and fracture planes up to 1" thick							

DRILL HOLE LOG
MANNING W. COX ASSOCIATES
CONSULTING GEOLOGISTS

Mineral Hill Hole No. A-3
Page 7 of 7

Coordinates – East _____ Inclination -77° Date Started 1-10-66
North _____ Bearing Due E' Date Completed _____
Collar Elevation _____ Logged By RLC Drilled By Bayles Bros.

From	To	Feet Rcvd.		Rock Description	Mineralization	Alteration	Sample No.	%	%	%	%	Assay Average	
360'	480'	120'		Grey limest. w/ minor amts of black shale in fractures	Calcite in stringers and blebs – VV minor amts of Limonite								

DRILL HOLE LOG
MANNING W. COX ASSOCIATES
CONSULTING GEOLOGISTS

Mineral Hill Hole No. A-3
Page 4 of 8

Coordinates – East
North
Collar Elevation

Inclination -77°
Bearing Due E.
Logged By RLC

Date Started 1-10-66
Date Completed
Drilled By Boyles Bros.

From	To	Feet Rcvd.		Rock Description	Mineralization	Alteration	Sample No.	%	%	%	%	Assay Average
480'	600'	120' ±1'		Grey Imst. w/ 20%± black shale in pieces	Calcite in stringers and bleb VV minor amts of limonite in small flecks							

DRILL HOLE LOG
MANNING W. COX ASSOCIATES
CONSULTING GEOLOGISTS

Mineral Hill Hole No. A-3
Page 5 of 7

Coordinates – East _____ Inclination -72° Date Started 1-10-66
North _____ Bearing Due E. Date Completed _____
Collar Elevation _____ Logged By RLC Drilled By Doyles Bros.

From	To	Feet Rcvd.		Rock Description	Mineralization	Alteration	Sample No.	%	%	%	%	Assay Average	
600	720'	120' ±		Grey lmst. w/20% ± black shale in pieces and in fractures VV few vugs at intervals	Calcite in stringers & blebs VV. minor amts limonite in vugs								

DRILL HOLE LOG
MANNING W. COX ASSOCIATES
CONSULTING GEOLOGISTS

Mineral Hill Hole No. A-3
Page 6 of 7

Coordinates – East
North
Collar Elevation

Inclination -77°
Bearing Due E.
Logged By RLC

Date Started 1-10-66
Date Completed
Drilled By Boyles Bros.

From	To	Feet Rcvd.		Rock Description	Mineralization	Alteration	Sample No.	%	%	%	%	Assay Average
720	752	32±		Grey lmst. w/20% black shale in pieces w/ few vugs	Calcite in stringers & blebs							
752	752	1"		1" thick Hematite stringer								
752	769	16.7'		Grey lmst. w/ minor black shale in pieces w/ more vugs	Calcite stringers minor FeO_x stain Barite? vv minor							
769	832	63'±		Black Carbon. shale	minor pyr. in shale partings							
				End of Hole								

DRILL HOLE LOG
MANNING W. COX ASSOCIATES
CONSULTING GEOLOGISTS

Manning W. Cox Hole No. A-3
Page 7 of 7

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
5/2	R. M. Smith	120
5/4/66	Kisberno	120
		110
5/2	Cook	220
		120M

Memorandum MAY 2 1966

To: Chief Auditor

From: Chief, Office of Minerals Exploration

Subject: OME-6427 (Silver)
Mountain Copper Company of California
Moco Claims
Eureka County, Nevada
Contract 2205

Will you please prepare a Report of Cost Review in lieu of a final audit on the subject contract in accordance with the request (copy enclosed) of April 26, 1966, by the Field Officer, Region II.

Please note that he recommends that $200.00 be withheld pending receipt of the Operator's final report, and that certification of discovery or production not be made. We concur in these recommendations.

FRANK E. JOHNSON

Frank E. Johnson

Enclosure

cc: Director's Reading File
Division File
Economic Geology File
Budget & Finance w/cy incoming memorandum and 3 cys Opr.'s final voucher
OME File
OME Region II
OME Reading File
Mr. Smith

RMSmith/gla 5-2-66

23263

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Memorandum

April 26, 1966

ORIGINAL COPY
APR 28 1966
INVESTIGATIONS
TSD 110
FMS 120

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

From: Field Officer
Region II

Subject: OME-6427 (Silver)
Mountain Copper Co. of California
Moco Claims
Eureka County, Nevada
Contract No. 2205

Enclosed are the final vouchers for work under the subject contract. I plan to examine the cores from the four holes within the next few weeks, at the Operator's warehouse in Martinez, California.

A Termination Agreement, dated March 22, 1966, has been signed by the Operator. The Operator's final report is being prepared.

The number of units of work completed by the Operator and accepted as conforming to contract specifications were:

Diamond core drilling - 2,998 feet

A final cost review of the subject contract is requested. Payment of $200 should be withheld pending receipt of the Operator's final report.

Inasmuch as the exploration did not discover silver mineralization in the target areas it is recommended that a Certificate of Possible Production not be issued for this property.

H. K. Stager

Enclosures

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
		110
4/4	Coe	220
		120

Memorandum

To: Field Officer, OME Region II

From: Chief, Office of Minerals Exploration

Subject: OME-6427 (Silver)
Mountain Copper Company of California
Meco Claims
Eureka County, Nevada
Contract No. 2205

We have the executed Termination Agreement on the subject contract enclosed with your memorandum of March 30, 1966.

Under date of February 24, 1966, the Operator indicated that claim for payment of drill holes 3 and 4 would be forthcoming. The Operator also should promptly submit its Final Report covering all the work performed under the exploration contract and results obtained therefrom.

When you forward Operator's final voucher a request for a cost review should be made. Also, although the results of the drilling do not appear to warrant exploration of other targets, you should give a specific recommendation concerning certification.

FRANK E. JOHNSON

Frank E. Johnson

Cc: Director's reading file
Division file
Economic Geology file
OME file (docket)
OME reading file
120

FEJohnson/bih 4/4/66

23263

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OFFICIAL COPY
RECEIVED
MAR 31 1966
MATERIALS CODE
110
120

Memorandum

March 30, 1966

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

From: Field Officer
Region II

Subject: OME-6427 (Silver)
Mountain Copper Co. of California
Moco Claims
Eureka County, Nevada
Contract No. 2205

Enclosed are the original and one copy of the Termination Agreement of the above subject contract, properly executed by the Operator. The remaining copies of the Agreement have been distributed in the usual manner.

H. K. Stager

H. K. Stager

Enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
U. S. Geological Survey
345 Middlefield Road
Menlo Park, California 94025

March 28, 1966

Mr. C. W. McClung
Mountain Copper Co. of California
100 Mococco
Martinez, California 94553

Re: OME-6427 (Silver)
Mountain Copper Co. of California
Moco Claims
Eureka County, Nevada
Contract No. 2205

Dear Mr. McClung:

Enclosed are the original and three copies of a proposed Termination Agreement to your contract signed by the Chief, Office of Minerals Exploration for the Government.

If the proposed agreement meets with your approval, please sign and return the following copies to this office.

Government's copy
Fiscal Section's copy
Audit's copy
Field Officer's copy

The Operator's copy should be retained for your files.

If any part of the proposed agreement does not meet with your approval, the original and all copies should be returned to this office with your proposed changes for consideration.

Sincerely yours,

H. K. Stager
Field Officer
OME, Region II

Enclosures

cc: D RF
Chief, OME, WDC
ACG RF
MP RF
File 6427
HKStager:mlb

OFFICIAL FILE COPY

Date	Surname	Code
3/17	Selfridge	
"	Johnson,	
3/21	Richgraven	
3/22	Kaye	
3/22	Coe	210
		120

MAR 2 2 1966

Memorandum

To: Field Officer, Region II

From: Chief, Office of Minerals Exploration

Subject: OME-6427 (Silver)
Mountain Copper Company of California
Moco Claims
Eureka County, Nevada
Contract 2205

In reference to your memorandum of February 28 transmitting the subject Operator's request of February 24, 1966, for mutual termination of the contract, enclosed are the original and three copies of a proposed Termination Agreement signed for the Government. Also enclosed is an extra copy for field use.

If the proposed agreement is satisfactory to you and the Operator, all four copies should be signed by an authorized representative of the Operator. Thereafter, please distribute the copies in the usual manner.

If any part of the proposed agreement does not have your approval or that of the Operator, the original and all copies are to be returned to this office together with the proposed changes for consideration.

FRANK E. JOHNSON

Frank E. Johnson

Enclosures

cc: Director's Reading File
Division File
Economic Geology File
OME Docket
OME Reading File
Mr. Selfridge (2)
GCSelfridge/mm (3/17/66)

23263

FORM 6
REV. 2-59

REFERENCE SLIP
OFFICE OF MINERALS EXPLORATION

TO:	DATE	INITIALS
1. ~~Assoc. Sol.--MR, Rm. 6554~~ ~~Through Rm. 6042~~		
2. Mr. Selfridge, Rm. 4459		
3. G-65-2132		
4.		
5.		

FROM: FROM SOLICITOR MAY 15 1966 FOR SIGNATURE

INTERIOR DEPT. MAY 10 1966 SOLICITOR

FOR: Check items for action desired

____ Action ____ Reply for signature of ____
____ Approval ____ Investigate ____ Surname
____ Comment ____ Recommendations ____ Signature
____ Conference ____ Rewrite ____ File
____ Instructions ____ Your information

REMARKS: OME-6427, Mountain Copper Company of California

Please be reminded that we no longer need the "Audit's Copy" for distribution.
Copies should be provided as follows:

Government's Copy
Operator's Copy
Budget & Finance's Copy
Field Office's Copy
Extra copy for the Field Office
Extra Copy

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

cc: Director's Reading File
Division File
Economic Geology File
OME Docket
OME Reading File
Mr. Selfridge (2)
cc:Selfridge\mm (5/17/66)

DRAFT
3/9/66
GCSelfridge/gl

Docket copy

EXPLORATION CONTRACT
MOUNTAIN COPPER COMPANY OF CALIFORNIA
OME-6427

TERMINATION AGREEMENT

It is agreed this _____ day of _____, 1966, between the United States of America, acting through the Department of the Interior, U. S. Geological Survey, hereinafter called the "Government," and Mountain Copper Company of California, hereinafter called the "Operator," parties to that certain Exploration Contract No. 2205 (OME-6427), dated July 27, 1965, as amended, hereinafter called the "Contract," that:

1. Effective March 1, 1966, the Contract and all obligations of the parties thereunder, except as otherwise herein expressly provided, shall be and are hereby terminated.

2. The Government shall contribute only to the allowable costs incurred prior to said effective date.

3. The Operator shall promptly perform all winding-up and settlement actions provided for in the Contract, including furnishing to the Government three copies of a final report (in addition to the final monthly report) which 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 the related costs thereof.

4. All rights of the Government respecting certification of possible production, percentage royalty and liens to secure the payment thereof, reports (including preservation of the Operator's records), accounts, audits, and the right to recover any overpayment are hereby preserved.

5. The Operator hereby releases and agrees to save the Government harmless from all claims or demands under or arising out of said Contract except as otherwise provided in this termination agreement.

IN WITNESS WHEREOF, these parties have executed this agreement as of the day and year first above written.

THE UNITED STATES OF AMERICA

By_____
~~Acting Director~~
Chief, Office of Minerals Exploration
U. S. Geological Survey

MOUNTAIN COPPER COMPANY OF CALIFORNIA

By_____

Title_____

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

Memorandum

February 28, 1966

OFFICIAL COPY
O. M. E.
RECEIVED
MAR 2 1966

INITIALS	CODE
	110
	120
	120

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

From: Field Officer
OME, Region II

Subject: OME-6427 (Silver)
Mountain Copper Co. of California
Moco Claims
Eureka County, Nevada
Contract No. 2205

Enclosed is a copy of a letter from the subject operator requesting a termination of the contract. I agree with the operator that inasmuch as the four completed holes, drilled in the most favorable areas, did not encounter mineralization there is little justification to continue with the drilling in less favorable areas.

H. K. Stager

Enclosure

MOUNTAIN COPPER COMPANY
of California

100 MOCOCO ROAD
MARTINEZ, CALIF. 94553
PHONE: 228-5530
AREA CODE: 415

February 24, 1966

Mr. Harold K. Stager
Field Officer, OME, Region II
U. S. Department of Interior
Geological Survey
Office of Minerals Exploration
345 Middlefield Road
Menlo Park, California 94025

Re: OME - 6427 (Silver)
Mountain Copper Co. of Calif.
Moco Claims
Eureka County, Nevada

Termination of Contract

Dear Mr. Stager:

At this writing we have completed four (4) core drill holes in the areas of highest anomalies and no significant mineralization has been encountered.

Since there has been no encouraging information disclosed by these four drill holes, Mountain Copper proposes that, with no further drilling, the project be terminated by mutual consent.

Payment, for Holes 1 and 2, from OME has been received by Mountain Copper Company and a complete report of the Mineral Hill project and an accounting of expenses incurred for drilling Holes 3 and 4, which are to be reimbursed by OME, is forthcoming.

Very truly yours,

V. P. Bluege

V. P. Bluege
Director of Exploration

RECEIVED
FEB 25 1966
OFFICE OF MINERALS EXPLORATION
U.S. GEOLOGICAL SURVEY
MENLO PARK, CALIF.

VPB:ea

OFFICIAL FILE COPY

Date	Surname	Code
	Selfridge	120
		110
		320
		120 R

JAN 2 5 1966

Memorandum

To: Field Officer, Region II

From: Chief, Office of Minerals Exploration

Subject: OME-6298 (Silver)
Resource Americas Corporation & Associates
Rainbow Claims
San Bernardino County, California
Contract 2183

and

OME-6427 (Silver)
Mountain Copper Company of California
Moco Claims
Eureka County, Nevada
Contract 2205

In reference to your memorandum of January 18, 1966, forwarding the final vouchers and report under OME-6298, the amount allowed for assaying is not a maximum.

Under Fixed Unit Costs every item is a maximum. Under Actual Costs, MME Form 50, only those items are maxima which are set forth under the various categories of Article 6 of the contract form, those items so mentioned in Exhibit A, and those that are marked therein with an asterisk. In addition, the total sums of each stage under all contracts are maxima.

With regard to the vouchers of Mountain Copper Company of California, OME-6427, you only signed the back of MME Form 60. The columns designated "For Government Approval Only" are to be filled in by the Certifying Officer. You should check the items in the columns designated "For Operator's Use". Any discrepancies or disallowances you might find would be indicated under "Remarks" on the front of MME Form 61. The Operator should fill in under these columns any items which are applicable, rather than enter a lump sum.

Frank E. Johnson

cc: Director's Reading File
Division File
Economic Geology File
OME Dockets 6298 and 6427
Mr. Selfridge (2)
Reading File

GCSelfridge/mm (1/24/66)

23263

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Office of Minerals Exploration
345 Middlefield Road
Menlo Park, California 94025

January 10, 1966

Memorandum

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

From: Field Officer, OME, Region II

Subject: OME-6427 (Silver)
Mountain Copper Co. of California
Moco Claims
Eureka County, Nevada
Contract No. 2205

Enclosed are the original and two copies of Amendment No. 1 of the above subject contract, properly executed by the operator. The remaining copies of the Amendment have been distributed in the usual manner.

H. K. Stager

Enclosures

xc: Chief, OME

OFFICIAL COPY
O. M. E.
RECEIVED
JAN 12 1966
INITIALS | CODE
120 m

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

OFFICIAL COPY

January 4, 1966

Mr. C. W. McClung
Mt. Copper Co. of California
100 Mococo Road
Martinez, California

Re: OME-6427 (Silver)
Mountain Copper Co. of Calif.
Moco Claims
Eureka County, Nevada
Contract No. 2205

Dear Mr. McClung:

Enclosed are the original and four copies of proposed Amendment No. 1 with reference to your contract signed by the Chief, Office of Minerals Exploration for the Government.

If the proposed amendment meets with your approval, please sign and return the following copies to this office:

Government's copy
Fiscal Section's copy
Audit's copy
Field Office's copy

The Operator's copy should be retained for your files.

If any part of the proposed amendment does not meet with your approval, the original and all copies should be returned to this office with your proposed changes for consideration.

Sincerely yours,

H. K. Stager
Field Officer
OME, Region II

cc: Chief, OME, WDC
Dir RF
File
ACG RF
MPRF
HKS/dk

OFFICIAL FILE COPY

Date	Surname	Code
12/27	Selfridge	130
12/28	Johnson	110
		220
12/28	Kilbourne	
12/29	Jewett	
12/29	Kupp	
		110
12/30	Cal	220
		120M

DEC 30 1965

Memorandum

To: Field Officer, Region II

From: Chief, Office of Minerals Exploration

Subject: OME-6427 (Silver)
Mountain Copper Company of California
Moco Claims
Eureka County, Nevada
Contract 2205

In reference to your memorandum of December 1, 1965, transmitting the Operator's request for changing the site of drill Hole No. 4, enclosed is proposed Amendment No. 1, signed for the Government. Also enclosed is an extra copy for field use.

If the proposed amendment is satisfactory to you and the Operator, all five copies should be signed by an authorized representative of the Operator.

If any part of the proposed amendment does not have your approval or that of the Operator and cannot be altered within your delegated authority, the original and all copies are to be returned to this office together with the proposed changes for consideration.

(signed) FRANK E. JOHNSON

Frank E. Johnson

Enclosures

GCSelfridge/gla (12-27-65)
cc to: Director's Reading File
Division File
Economic Geology File
OME File
OME Reading File
Mr. Selfridge (2)

23263

DRAFT
GCSelfridge/gl
12/16/65

DOCKET COPY

EXPLORATION CONTRACT
MOUNTAIN COPPER COMPANY OF CALIFORNIA
OME-6427

AMENDMENT NO. 1

It is agreed this _____ day of _____, 19__, between the United States of America, acting through the Department of the Interior, U. S. Geological Survey, hereinafter called the "Government," and Mountain Copper Company of California, hereinafter called the "Operator," that Exploration Contract 2205 (OME-6427), dated July 27, 1965, is amended effective the date of the contract as follows:

1. In Exhibit A:

Under the heading Description of the Work, add the following to the second paragraph:

"Should drilling so indicate, subsequent drill sites and holes may be moved to other locations suggested by the results of the prior drilling with Government approval."

2. The third paragraph is revised to read as follows:

The drill holes shall be inclined so as to cut the Fault at depths of not less than 200 or more than 1,000 feet below the surface of the land, but no hole shall be drilled deeper than 1,000 feet without prior approval of the Government confirmed in writing.

This amendment shall not be construed to increase the estimated total cost of the contract, the aggregate amount which the Government may be required to contribute, the amount of any item designated as maximum, nor 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_____
Chief, Office of Minerals Exploration
U. S. Geological Survey

MOUNTAIN COPPER COMPANY OF CALIFORNIA

By_____

Title_____

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
12/16	Selfridge	130
"	Johnson	110
12/16	Cole	220
		120M

DEC 17 1965

AIRMAIL

Memorandum

To: Field Officer, Region II

From: Chief, Office of Minerals Exploration

Subject: OME-6427 (Silver)
Mountain Copper Company of California
Moco Claims
Eureka County, Nevada
Contract 2205

Mr. Fillo in his memorandum of December 2, 1965, mentions that his office was notified on November 3 that Hole No. 2 had been drilled to approximately 400 feet or some 200 feet beyond the thrust fault zone. He further states that for all practical purposes the drilling should have been stopped at this point. The Operator continued on to 800 feet with no justifiable reason. Furthermore, Lindsey's memorandum of November 24 indicates that the lower thrust plate was to be penetrated at a depth of 600 feet or more, which would have carried the hole well beyond the thrust fault.

Seemingly, the extra distance was not approved and the extra cost could not be considered reasonable (see Article 6).

It does not seem that the Government should participate in the excess drilling. May we have your comment? If you agree, the excess footage should be deleted from the footage which the Operator may submit in its voucher covering Hole No. 2, among others.

(signed) FRANK E. JOHNSON

Frank E. Johnson

GCSelfridge/gla (12-16-65)
cc to: Director's Reading File
Division File
Economic Geology File
OME File
OME Reading File
Mr. Selfridge (2)

23263

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

33745

December 1, 1965

OFFICIAL COPY
O. M. E.
RECEIVED
DEC 8 1965
INITIALS | CODE
120 m
120

Memorandum

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

From : Field Officer, OME, Region II

Subject: OME-6427 (Silver)
Mountain Copper Co. of Calif.
Moco Claims
Eureka County, Nevada
Contract No. 2205

Enclosed are copies of letters and a map from the subject operator and their consulting geologist Mr. E. H. Lindsey. The operator is requesting an amendment to their contract to drill a hole from the west side of the contact thrust fault to determine the dip of the fault. Mr. Lindsey believes that the thrust fault had turned over to a westerly dip and that No. 1 drill hole is more or less parallel to this structure. Your comments on Mr. Lindsey's theory will be appreciated.

This office recommends an amendment for changing drill hole No. 4. Drill hole No. 3 is presently being drilled at site B -50°, bearing to the west, in hopes of intersecting the thrust fault within the 1000-foot distance.

Paul V. Fillo

Paul V. Fillo

Enclosures

cc:
Chief, OME, Wash., D.C.

MOUNTAIN COPPER COMPANY
of California

100 MOCOCO ROAD
MARTINEZ, CALIFORNIA
PHONE: 228-5530
AREA CODE: 415

November 24, 1965

Mr. Paul Fillo
Acting Field Officer
U.S. Department of the Interior
Office of Minerals Exploration
450 Golden Gate Avenue
Box 36012
San Francisco, California 84102

Dear Mr. Fillo:

Re: OME Docket No. 6427

Enclosed is a geologic cross section and copy of the accompanying report, prepared by our consulting geologist, Mr. E. H. Lindsey.

This information is submitted at your request as an explanation for drilling a hole from the west side of the thrust fault. I trust it meets with your approval and we will receive permission to go ahead with this proposal.

Yours very truly,

V. P. Bluege

V. P. Bluege
Director of Exploration

VPB:ea
encl.

MOUNTAIN COPPER COMPANY
of California

100 MOCOCO ROAD
MARTINEZ, CALIFORNIA
PHONE: 228-5530
AREA CODE: 415

MEMO FOR P.V. FILLO

OME CONTRACT # 6427
Mineral Hill
Eureka County, Nevada
Exploration Project

INTRODUCTION

Drilling at Mineral Hill has revealed a geologic condition which was not anticipated nor indicated by surface exposures. This development necessitates re-evaluation and application for a change in the drilling program.

NEW GEOLOGIC INFORMATION

Referring to Geologic Cross Section A (attached hereto), it is evident that the Roberts Mountain Thrust Fault turns over and becomes a westerly dipping structure below the intercept in drill hole A 2 at depth 250 feet. The fault intercept in drill hole A 2 is 20 feet of gouge and rubble. No ore minerals were seen in the fault material, but only 4 feet of core was recovered from the 20-foot zone.

Drill hole A 1 to a depth of 950 feet did not encounter the Thrust Fault and was stopped while still in chert and shale. The point at which drill hole A 1 stopped is about 700 feet vertically below the fault intercept in hole A 2. Since shale and chert in the bottom 200 feet of drill hole A 1 appears to be slightly more gougy and broken than does the upper portion, it is concluded that the Thrust Fault turns over to a westerly dip and that drill hole A 1 is more or less parallel to this structure.

MOUNTAIN COPPER COMPANY
OF CALIFORNIA
MARTINEZ, CALIFORNIA 94533

That the Roberts Mountain Thrust Fault reverses dip and turns over at Mineral Hill is not altogether unexpected. Since the development of this thrust fault at the close of the Antler orogeny, there have been at least two succeeding periods of orogenic disturbance. Thus the thrust fault is a complex folded and faulted structure.

This reversal of dip does not materially alter the prospecting concept. The thrust fault continues to control the surface geochemical anomaly. Relationship of the self-potential anomaly becomes somewhat vague with the reversal of dip, but still appears to be related to the thrust fault.

CHANGES IN THE DRILLING PROGRAM

Until the thrust fault has been penetrated at a depth of 600 feet or more, the geochemical and geophysical anomalies cannot be considered fully tested. Referring to the accompanying Cross Section A, it is evident that the Union Carbide drill holes do not test the anomalies since these anomalies appear to be associated with the thrust fault. If a drill hole is to be located and directed to intercept the thrust fault below a depth of 600 feet, the most logical drill site would be just west of the thrust fault trace, as shown on Cross Section A. We therefore seek permission to amend the drilling program and locate a drill hole on the west side of the thrust fault trace about as shown on Cross Section A.

Respectfully submitted

Eugene H. Lindsey, for
Manning W. Cox Associates,
Consulting Geologists

Nov. 24, 1965

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

December 2, 1965

OFFICIAL COPY
O. M. E.
DEC 6 1965

Memorandum

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

From : Field Officer, OME, Region II

Subject: OME-6427 (Silver)
Mountain Copper Co. of Calif.
Moco Claims
Eureka County, Nevada
Contract No. 2205

Interim Inspection

An inspection was made on the above subject property November 19, 1965, accompanied by R. L. Coppage, geologist for the operator.

The work performed under the exploration contract consists of surface diamond core drill holes to explore for silver-bearing ore bodies in and along the Roberts Mountain Thrust Fault.

Hole No. 1 was drilled to the 1000-foot mark, and the results of intersecting the thrust fault were negative. At the 700-foot mark, a Tri-Pari survey instrument was used and it disclosed that the inclination of the drill hole had steepened from 50° to 70°. It was suggested the driller wedge the hole to get it back toward the original inclination. The drill contractor (Boyle's Bros.) was not prepared to do this type of work because the facilities were not available and it would entail additional costs.

The operator was given approval from this office to move closer to the contact of the thrust fault and drill Hole No. 2 with a 50° inclination. The thrust fault was intersected near the 201-foot mark and this office was notified on November 3, 1965 that they have drilled to approximately 400 feet (200 feet beyond the thrust fault zone). For all practical purposes the drilling should have been stopped at this point, but they continued on to 800 feet for no justifiable reason. The hole was surveyed several times which disclosed the drill hole to have steepened from 50° to 70°, trending similar to hole No. 1. This information was given to me at the time of this inspection, which means that the communications between the field geologist (Mr. Coppage) and the office of Mountain Copper Co. of California in Martinez, California could be improved a lot better.

Presently, they are drilling Hole No. 3 at site B and have drilled 170 feet. An inspection of the core disclosed the volcanics, cherts, and shaley material of the upper plate rocks. Starting at the 200-foot mark, they will have the hole surveyed every 100 feet for inclination variance.

During this last field trip into Nevada, the subject operator's consultant-geologist contacted me with reference to drilling a hole west of the thrust fault with a 50° inclination to the east. He believes that possibly a roll had taken place in this particular area making the thrust fault dip to the west instead of in an easterly direction. I advised him to submit a report with a map showing what he felt had happened to the thrust fault. A copy will be forwarded to your office when it is received for your review and consideration.

Paul V. Fillo

Paul V. Fillo

cc:
Chief, OME, Wash., D. C.

(OME-6427)

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

January 19, 1966

Field Officer, OME, Region II

OME-6427 (Silver)
Mountain Copper Co. of California
Moco Claims
Eureka County, Nevada
Contract No. 2205

Enclosed are the original and two copies of the vouchers for work through November 1965.

In reference to your memo of December 17, 1965 and Mr. Fillo's memo of December 2, 1965, I concur with Mr. Fillo that Hole No. 2 was drilled 411 feet beyond the point where it should have been stopped. I have therefore disallowed the footage from 400 to 811 feet in this hole. I have discussed this disallowance, and the reasons for it, with Mr. Bluege, Director of Exploration for Mountain Copper Company.

H. K. Stager

Enclosures

xc: Chief, OME, Wash., D. C. (2)
cc:
Director
MP RF
ACG RF
File 6427
HKStager:mlb

UNITED STATES
DEPARTMENT OF THE INTERIOR
U. S. Geological Survey
Branch of Budget and Finance
Washington, D. C. 20242

ADMINISTRATIVE SUSPENSION STATEMENT

Name and Address of Payee: Mountain Copper Company of California
100 Mococo Road,
Martinez, Calif.

Amount Claimed:	Differences (Explained Below)	Amount Approved
$19,230.27	$2642.25	$16,588.02 $12,441.02 Govt. Share
Bu. Voucher No.	Payee's Invoice No.	Period
	OME 6427 - 2205	December, 1965

EXPLANATION

Footage in Hole #2 from 400 to 811 disallowed $2,642.25

Per letter from H. K. Stager, dated January 19, 1966

Any reclaim for items deducted must be supported by the original of this statement and submitted to the office shown above.

E. Gibson
Branch of Budget and Finance

ORIGINAL COPY

Coc 800 P.
120 m
~~120~~

PART I

OPERATOR'S MONTHLY VOUCHER

Draft

MME FORM 60
SEPT. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

Docket No. OME 6427
Contract No. 14-23-090-2205

OPERATOR'S MONTHLY VOUCHER

For Month of Inception to Nov. 30, 1965

Contract Amount $ 86,860.00
Gov't. Participation % 75 $ 65,145.00
Mineral(s) Silver

Operator's Name Mountain Copper Company of California
Address 100 Mococo Road, Martinez, California

COST CATEGORIES	FOR OPERATOR'S USE			FOR GOVERNMENT APPROVAL ONLY		
	MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE	MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE
Fixed Unit Costs and						
(1) Independent Contracts:						
Bulldozing						
Drifting						
Crosscutting						
Drilling	$13882.77		$13882.77	11,240.52	-0-	$ 11,240.52
(2) Personal Services:						
Supervision & Technical	2199.00		2199.00	2,199.00	-0-	2,199.00
Outside Consultants	390.00		390.00	390.00	-0-	390.00
Labor	647.50		647.50	647.50	-0-	647.50
(3) Operating Mat'l. & Supplies:						
Timber						
Explosives						
Pipe						
Rail						
Core Boxes	275.00		275.00	275.00	-0-	275.00
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehab. & Repairs:						
Buildings, Fixtures, etc.						
Operating Equipment						
(6) New Buildings, Fixtures, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Analytical Work						
Payroll Taxes	370.00		370.00	370.00	-0-	370.00
Employee's Liability Ins.						
Travel expense	276.00		276.00	276.00	-0-	276.00
Fixed Unit Costs	1190.00		1190.00	1,190.00	-0-	1,190.00
TOTALS	$19230.27		$19230.27	16,588.02		16,588.02

I certify that the above bill is correct and just and that payment therefor has not been received.

Date Jan 4, 1966 *Payee ~~Mountain Copper Co. Of Calif.~~

Per J. W. Rakow Title Secretary-Treasurer

* When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 17,441.02

Signature
(Authorized Certifying Officer)

Date FEB 7 1966 Vou. No. 5912

(SEE OTHER SIDE)

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 2205

Signature [illegible] Title FIELD OFFICER Date JAN. 19, 1966

Approved by OME Executive Officer or Alternate: OME REGION II

Signature [illegible] Title FIELD OFFICER Date JAN. 19, 1966

OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel, communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)", followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

MOUNTAIN COPPER COMPANY OF CALIFORNIA

Summary of Costs

Inception to November 30, 1965

Category I, Independent Contracts

MINERAL HILL PROJECT

		Billed	Allowable Amount	Deferred Hole #3	Claimed
Core drilling:					
Hole #1-					
NX 0 to 500	500 @ $5.75	$ 2,875.00	$ 2,875.00		$ 2,875.00
NX 500 to 750	250 @ $6.50	1,625.00	1,625.00		1,625.00
NX 750 to 780	30 @ $7.25	217.50	217.50		217.50
NX 780 to 840	60 @ $7.25	435.00	435.00		435.00
BX 840 to 885	45 @ $6.75	303.75	303.75		303.75
BX 885 to 1000	115 @ $6.75	776.25	776.25		776.25
Hole #2-					
NX 0 to 20	20 @ $5.75	115.00	115.00		115.00
NX 20 to 500	480 @ $5.75	2,760.00	2,760.00		2,760.00
NX 500 to 750	250 @ $6.50	1,625.00	1,625.00		1,625.00
NX 750 to 811	61 @ $7.25	442.25	442.25		442.25
Hole #3-					
NX 0 to 293	293 @ $5.75	1,696.25	1,696.25	$1,696.25	
NX 293 to 410	115 @ $7.75	891.25	891.25	891.25	
Moving and setting up:					
Mobilization to job		350.00	175.00		175.00
Survey time 22 hrs. @ $12.00		264.00			
Set up time 127 hrs. @$12.00		1,524.00	300.00		300.00
Standby time 8 hrs.@ $12.00		96.00			
Cementing and re-drilling:					
Cement time 109 hrs. @ $12.00		1,308.00	1,308.00	264.00	1,044.00
Cement & cement substitutes-40 sks		296.47	296.47		296.47
Miscellaneous:					
Truck rental, 3 months @ $225		675.00	675.00		675.00
Water hauling, 845 miles @ 12¢		101.40	101.40		101.40
Drilling additives, 85 sks.		491.70			
Casing NX 40 ft. @ $2.92		116.80	116.80	58.40	58.40
Casing time 18 hrs. @ $12.00		216.00			
Core boxes 103 @ $1.00		103.00	57.75		57.75
Totals (Invoices Attached)		$19,246.62	$16,722.87	$2,909.90	$13,882.77

DIAMOND-CORE DRILLING
DIAMOND DRILLING EQUIPMENT
GROUTING
FOUNDATION TESTING
MINING
QUARRYING
SHAFT SINKING
TUNNEL DRIVING
MINE PLANT DESIGN AND FABRICATION

Doyles Bros. DRILLING COMPANY

CONTRACTORS-ENGINEERS-GEOLOGISTS
General Offices and Plant
1624 Pioneer Road P. O. Box 58 HUnter 7-7595
SALT LAKE CITY 10, UTAH

BRANCH OFFICES
PHOENIX
RENO
SPOKANE
DENVER
AUBURN CALIF
ST LOUIS

965

65

INVOICE DATE: September 30, 1965
ORDER NUMBER
INVOICE NUMBER
CONTRACT: 7-343
TERMS:
LOCATION: Eureka(Mineral Hills) Nevada

Mountain Copper Co. of California
100 Maco Road
Martinez, California

HOLE NO	FROM	TO	FOOTAGE	RATE	TOTAL
Mobilization to Job					350.00
#1	NX 0	500	500	5.75	2875.00
	NX 500	750	250	6.50	1625.00
	NX 750	780	30	7.25	217.50
	Rent On Water Truck for Sept.				225.00
	Milage on water truck		377#	.12	45.24
	Standby Time		8 hrs	12.00	96.00
	Cement Time		34 hrs	12.00	408.00
	Survey Time		4 hrs	12.00	48.00
	Plaster		5 sacks	3.15	15.75
	Lumnite Cement		5 sacks	7.83	39.15
	Cal Seal Cement		1 sack	8.92	8.92
	Bran		1 sack	6.23	6.23
	NX Casing, 10'		2 lengths	29.20	58.40
	Bentonite		6 sacks	4.50	27.00
#2	Set Up Time		34 hrs	12.00	408.00
	NX 0	20	20	5.75	115.00
					~~$6,568.69~~
					6,568.19

ENTERED
MTN COPPER CO.
OCT

18
574-17

DIAMOND CORE
DIAMOND DRILLING EQUIPMENT
GROUTING
FOUNDATION TESTING
MINING
QUARRYING
SHAFT SINKING
TUNNEL DRIVING
MINE PLANT DESIGN
AND FABRICATION

DRILLING COMPANY

CONTRACTORS-ENGINEERS-GEOLOGISTS
General Offices and Plant
1624 Pioneer Road P. O. Box 58 Hunter 7-7595
SALT LAKE CITY 10, UTAH

RENO
SPOKANE
DENVER
AUBURN CALIF
ST LOUIS

RECEIVED OCT 6 1965

INVOICE DATE October 31, 1965
ORDER NUMBER
INVOICE NUMBER
CONTRACT 7-343
TERMS
LOCATION Eureka, Nevada (Mineral Hills)

Mountain Copper Company Of California
10 Maco Road
Martinez, Claifornia

ENTERED

HOLE NO	FROM	TO	FOOTAGE	RATE	TOTAL
4	20	500	480	5.75	2760.00
2	500	750	250	6.50	1625.00
2	750	811	61	7.25	442.25
1	780	840	60	7.25	435.00
1	840	855	45	6.75	303.75
NX Core Boxes			80 ea	1.00	80.00
BX Core Boxes			25 ea	1.00	25.00
HySeal			50 lbs	9.60	9.60
Bran			100 lbs	6.23	6.23
Caustic Soda			100 lbs	13.57	13.57
Quebracho			108 lbs	27.00	27.00
Water Truck Rental				225.00 mo	225.00
Water Truck Milage			352 mi	.12	42.24
Set Up and Moving Time			35 hrs	12.00	420.00
Bentonite, 100 lb bags			32	4.50	144.00
Cal Seal Cement, 100 lb Bags			11	8.92	98.12
Lumnite Cement, 100 lb bags			4	7.83	31.32
Casting Plaster, 100 lb bags			3	3.15	9.45
Cement Time			46 hrs	12.00	552.00
Survey Time			14 hrs	12.00	168.00
Moving and Set Up Time			35 hrs	12.00	420.00
Casing Time			18 hrs	12.00	216.00
				Total	$8,053.53 ✓

57A-17

GROUTING
FOUNDATION TESTING
MINING
QUARRYING
SHAFT SINKING
TUNNEL DRIVING
MINE PLANT DESIGN AND INSTALLATION

DAVIES BROS. DRILLING COMPANY

CONTRACTORS ENGINEERS-GEOLOGISTS

General Offices and Plant
1624 Pioneer Road P. O. Box 58 Phone 487 7595
SALT LAKE CITY UTAH 84110

PHOENIX
RENO
SPOKANE
DENVER
SACRAMENTO
SANTIAGO, CHILE
LIMA, PERU

INVOICE DATE November 30, 1965

ORDER NUMBER

INVOICE NUMBER

CONTRACT 7-343

TERMS

LOCATION Eureka, Nevada (Mineral Hills)

Mountain Copper Company Of California
100 Maco Road
Martinez, California

HOLE NO.	FROM	TO	FOOTAGE	RATE	TOTAL
#1	885	1000	115	6.75	776.25
#3	0	295	295	5.75	1696.25
	295	410	115	7.75	891.25
	Water Truck Rental				225.00
	Water Truck Milage		116 miles	.12	13.92
	Cement Time		29 hrs	12.00	348.00
	Survey Time		4 hrs	12.00	48.00
	Set Up Time		23 hrs	12.00	276.00
	Bentonite	(100 lb bags)	35 bags	4.50	157.50
	Cal Seal		7 sacks	8.92	62.44
	Lumnite		4 sacks	7.83	31.32
	Quebracho		1 sack	27.00	27.00
	Caustic Soda		1 bbl	13.57	13.57
	NX Casing, 10'		2 pieces	29.20	58.40
				Total	$4,624.90

MTN CALIF

57A-17

UB

MOUNTAIN COPPER COMPANY OF CALIFORNIA

MINERAL HILL PROJECT

Summary of Costs
Inception to November 30, 1965

Category 2, Personnel Services

Supervisor, Geologist, Engineer:

Richard L. Coppage, Social Security # 553-42-8204

Month	Gross Salary	Allocation to Project Percent	Allocation to Project Amount
August	$675.00	25.8	$174.00
September	675.00	100.0	675.00
October	675.00	100.0	675.00
November	675.00	100.0	675.00
Total			$2,199.00

Outside Consultant:

Manning W. Cox Associates*

Month	Billed Days	Billed Amount	Allowable Days	Allowable Amount	
August	1.0	$105.00			
September	4.5	472.50	2	$130.00	
October	4.0	420.00	2	130.00	
November	4.5	472.50	2	130.00	
Total					390.00
Total, sub-category (a)					2,589.00

Hourly Labor:

Month	Per Payroll Allocation Hours	Per Payroll Allocation Amount	Allowable Hours	Allowable Amount	
August	88	$251.00	88	$220.00	
September	86	373.00	86	215.00	
October	85	279.00	85	212.50	
November	-	-	-	-	
Total, sub-category (b)					647.50
					$3,236.50

*Invoices attached.

MANNING W. COX ASSOCIATES
CONSULTING GEOLOGISTS
57 POST STREET
SAN FRANCISCO
PHONE YUKON 2-1436

STATEMENT OF September 30, 1965

In Account with:

Mountain Copper Company
100 Mococo Road
Martinez, California

To Professional Services: Re: Mineral Hill

E. H. Lindsey, August	1 day @$105	105.00	
September	4.5 days @$105	472.50	
Sub Total		$ 577.50	$ 577.50
Less overcharge July 1, 1965 Lindsey per diem at $110 should have been $105			-22.50
			555.00

Expenses Incurred Your Account:

Blue Print service, July	1.04
Telephone (July, Aug. Sept.)	3.30
Lindsey travel expenses	56.06
Sub Total	$ 60.40

$ 60.40

A Fur P Payment 920 C

TOTAL ACCOUNT ..... $ 615.40

We certify that the foregoing account is a true and correct charge and that payment has not been received.

for MANNING W. COX ASSOCIATES

MANNING W. COX ASSOCIATES
[illegible]
5[illegible] STREET
SAN FRA[illegible]ISCO
PH[illegible] [illegible]ISCO 2 1436

STATEMENT OF November 1, 1965

In Account with:
Mountain Copper Company
100 Mococo Road
Martinez, California

To Professional Services: Re: Mineral Hill, Nevada

E. H. Lindsey, 4 days @$105		420.00	
10/14 Travel, San Francisco-Elko	1/2		
10/15 Visited Mineral Hill project	1		
10/16 Travel, Elko-Lovelock	1/2		
10.19 Report on progress at Mineral Hill	1		
10/26 Re: planning further drilling at property	1		
	4		
Sub Total		$ 420.00	$ 420.00

Expenses Incurred Your Account:

Mileage (September) 813 @14¢	113.82	
Mileage (October) 546 @14¢	76.44	
Out of pocket	26.60	
Telephone	10.45	
Sub Total	$ 227.31	$ 227.31

TOTAL ACCOUNT ..... $ 647.31

We certify that the foregoing account is a true and correct charge and that payment has not been received.

for MANNING W. COX ASSOCIATES

RECEIVED DEC 6 1965

MANNING W. COX ASSOCIATES consulting geologists

57 post street san francisco, california YU 2-1436

STATEMENT OF November 30, 1965

C. W. McCLUNG
DEC 6 1965

In Account With:

Mountain Copper Company
100 Mococo Road
Martinez, California

PROFESSIONAL TIME ACCOUNT

Personnel	Work Performed	Days	Rate	Amount	Charge to
E. H. Lindsey	Mineral Hill	4.5	$105	$472.50	

Detail:

11-1	Travel, pro rated	-1/2 day
11-2	at drill project	1- "
11-3	at drill project	-1/2 "
11-7	Travel, pro rated	-1/2 "
11-10	Progress report	1- "
11-18	Office study	-1/2 "
11-19	Office study	-1/2 "
		4-1/2 days

Total Time Charges $ 472.50

EXPENSES INCURRED

Item	Amount	Charge to
Lindsey, out of pocket	25.90	
Lindsey, mileage 482 @14¢	67.62	
Telephone	12.93	
Blue Print service	1.04	

APPROVED	
For Payment VP	37A-17
For A/C Dist.	

Total Expenses Incurred $ 107.49

TOTAL ACCOUNT $ 579.99

We certify that the foregoing account is a true and correct charge and that payment has not been received.

Jane M. Johnson
for MANNING W. COX ASSOCIATES

MOUNT[illegible]N COPPER COMPANY OF CALIF[illegible]IA

MINERAL HILL PROJECT

Summary of Costs

Inception to November 30, 1965

Category 3, Operating Materials and Supplies

Core Boxes:

BX	250 @ 52.5¢	$ 131.25
NX	250 @ 62.5¢	156.25
		$ 287.50*

Allowable, 500 @ 55¢ $275.00

* Invoices attached.

NOTE: THESE ARE IN ADDITION TO THE 105 CORE BOXES SUPPLIED BY THE DRILL CONTRACTOR & BILLED ON OCT. 31 INVOICE, & INCLUDED UNDER MISC. OF IND. CONTRACTS,

H B Flagg

KIVA CONTAINER CORPORATION

2935 GRAND AVENUE — Tel. No. 272-6511 Area Code 602 — PHOENIX, ARIZONA 85017

RECEIVED SEP 27 1965

MANUFACTURERS AND DESIGNERS OF CARTONS TO YOUR SPECIFICATIONS

VARIOUS STOCK SIZE CARTONS AVAILABLE

CUST NO. # 0X

DATE 9-22 1965

SOLD TO: Mountain Copper Co of Calif
100 Morocco Rd
Martinez California

SHIPPED TO: Same
C/o R.L. Corporage
1183 3rd St apt 4
Elko Nevada

ORDER NO.

CUSTOMER'S ORDER NUMBER	F. O. B.	TERMS	
4898	our Plant	1% 10 Days	☑ CHARGE ☐ C.O.D.

QUANTITY	ITEMS AND DESCRIPTION	PRICE PER M	AMOUNT
250	Box Case Boxes New Style	525.00	131 25
250	~~Box Case~~ Box Case New Boxes	625.00	156 25

ENTERED
MTN. COPPER CO. OF CALIF.
OCT 1965

AUDITED — INITIALS
Compared with purchase order
Footings and extensions verified
Discounts taken
Purchasing agents approval

APPROVED
For Payment 57-A17
UB
For A/C Dist.

287 50
5/88
2 88
2 88 62

All accounts are due and payable by the 10th of the month following date of purchase. A 1% per month interest will be charged on all past due accounts. Should the account be placed in the hands of an attorney for collection, the customer agrees to pay all court costs and a reasonable attorney's fee.

SUB TOTAL WITHOUT TAX

RECEIVED ABOVE IN GOOD CONDITION

BY

FOR RESALE ☑ ADD SALES TAX ☐ % ON

PAPER PATENTED BY N.D.B. CO.
No. 01840
UARCO INCORPORATED

PLEASE PAY FROM THIS INVOICE
STATEMENT SENT ONLY ON REQUEST

INVOICE TOTAL → 287 50

CUSTOMER'S INVOICE

MOUNTAIN COPPER COMPANY OF CALIFORNIA

MINERAL HILL PROJECT

Summary of Costs

Inception to November 30, 1965

Category 7, Miscellaneous

Payroll taxes and insurance:

Staff salary	$ 2,199.00	
Hourly payroll	647.50	
Total	$ 2,846.50	
Taxes & insurance @ 13%		$370.00

Travel expense, outside consultant:

Month	Per Diem	Air Fare	Total	
September	$ 20.00	$ 72.00	$ 92.00	
October	20.00	72.00	92.00	
November	20.00	72.00	92.00	
				276.00
				$646.00

Note: Outside consultant drives to project site due to poor airline connections. Actual billed travel expenses (see Manning W. Cox Associates billing supporting Category 2) are as follows:

Travel time, 2 days	$210.00
Mileage	190.26
Out of pocket	82.66
	$482.92

MOUNTAIN COPPER COMPANY OF CALIFORNIA

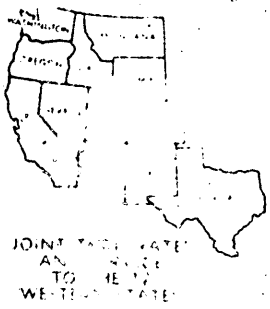
MINERAL HILL PROJECT

Summary of Costs

Inception to November 30, 1965

Fixed Unit Costs

Mobilization, D-6 bulldozer (Invoice $1,154.74 attached)	$ 200.00
Bulldozing access roads, 40 hrs. @ $18.00	720.00
Office expenses, 3 months @ $90.00	270.00
	$1,190.00



JOINT TARIFF RATES AND SERVICE TO THE WESTERN STATES

BIGGE DRAYAGE CO.

LIGHT & HEAVY HAULING • LOCAL & LONG DISTANCE
10700 BIGGE AVENUE · SAN LEANDRO, CALIFORNIA
PHONE NEPTUNE 8-8100

SPECIALIZING IN TRANSPORTING MACHINERY EQUIPMENT MATERIALS AND SUPPLIES USED OR USEFUL IN LOGGING, MINING, ROAD BUILDING AND CONSTRUCTION WORK

Origin

Mountain Copper Co.
Martinez

Destination

Same
40 miles No. of
Eureka, Nev.

INVOICE TO: Mountain Copper Co.
100 Macoco Rd.
Martinez, Calif.

TERMS
NET CASH: 7 DAYS

I. C. C. CERTIFICATE NO. MC 43716
P. U. C. PERMITS NO. 1-277 1-656 1-278

Remittance in full for all Transportation Bills must be paid within 7 days of receipt of INVOICE (Regulation adopted and enforced by the Interstate Commerce Commission and likewise ordered by California Railroad Commission Decision #31606, Case #4246.)

CUSTOMER NUMBER	REV. CODE	INVOICE NUMBER	INVOICE DATE	DATE JOB COMPLETED	CUST. ORDER NO.
147-4275	6	16-2026-Rev.	12/3/65	8/24/65	

QUANTITY	DESCRIPTION	WEIGHT	HOURS	RATE	AMOUNT
1	D-8 Cat (46-A)	63,340		1.13	715.74
	Permit service charge, Calif. & Nev., 2 units			5.00	10.00
1	Load misc., 1 blade & arms, 1 yoke, 2 pcs. & 2 ripper teeth	10,250			
	As	30,000		1.43	429.00
					1,154.74
	Less amount paid				1,069.18
	Balance due				85.56

MTN CALIF
57A-17

pb

INVOICE AND FREIGHT BILL

PART II

OPERATOR'S PROGRESS REPORT

MME FORM 61
SEPT. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OPERATOR'S PROGRESS REPORT For Month of Inception to Nov. 30, 1965 Docket No. OME 6427

Operator's Name Mountain Copper Co of California Contract No. 14-23-090-2205

OPERATION	UNITS	FOR OPERATOR'S USE: UNITS THIS MONTH	UNITS TO DATE	COSTS TO DATE	FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH	APPROVED UNITS TO DATE	APPROVED COSTS TO DATE
Drifting							
Crosscutting							
Raising							
Shafts							
Winzes							
Other Underground							
Drilling, Core-Diamond	8000	(811	1811	$19230.28)	1,400	1,400	$16,588.02
Rotary							
Drilling, Non-core-Diamond							
Rotary							
Churn							
Percussion							
Miscellaneous							
Roads and Trails							
Stripping							
Trenching							
Test Pitting							
Other Surface Work							
Initial Rehabilitation and Repairs							
Rehabilitation of Mine Workings							
New Buildings, Fixtures, etc.							
Operating Equipment Purchases							
Analytical Work							
TOTAL TO DATE *(per MME Form 60)*				$19230.28)			$16,588.02

REMARKS

This report covers the period from the beginning of drilling at Mineral Hill on August 24, 1965 through the completion of holes A1 and A2, which were drilled to 1000' and 811' respectively.

(Continue on back)

REMARKS

411 FEET IN HOLE No. 2 NOT ALLOWED (400 TO 811 FEET) AT COST OF $2,642.25

(Continue on back)

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

Date Jan. 4, 1966 Operator Mountain Copper Co. of California

Per J. W. Rakow Title Secretary-Treasurer

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature H. B. Stager

Title FIELD OFFICER, OME REGION II
Government Representative

Date JANUARY 19, 1966

(INSTRUCTIONS ON REVERSE)

REMARKS *(Cont.)*

REMARKS *(Cont.)*

INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

PART III

OPERATION'S NARRATIVE REPORT

SUBJECT: Docket No. OMM 6427 - Contract No. 14-23-090-2205

Narrative report of Mineral Hill, Nevada Project, at completion of Holes A1 & A2

Operator: Mountain Copper Company of California
100 Mococo Road, Martinez, California 94553

On August 25, 1965 Mountain Copper Company of California commenced work on its Mineral Hill exploration project. The first work consisted of trenching on the thrust fault, making drill sites, clearing a road to a water source, making a pond for water storage, and setting up a core storage facility. This work was done with the aid of a D8 Caterpillar tractor with ripper and blade, and one man under the supervision of an engineer of Mountain Copper Company.

Boyles Bros. Drilling contractors' crews and drilling equipment arrived on September 1, 1965 and drilling started September 7th from drill site A1. This site was established at 510 feet east of the thrust fault and the hole was planned at -55° inclination, bearing due west. (shown in sketch-Section "A").

Drilling was on a two shift basis of 43 hours per week, with each crew working four 10 hour shifts and one eight hour shift. Logs accompanying this report show, in detail, the progress of the drilling.

At 282 feet of depth there was a loss of circulation which was never permanently recovered, but this caused no serious problem and core recovery was satisfactory. On September 27, an acid bottle survey was made which indicated the hole had steepened to -68° at a depth of 725 feet. At 780'

of depth the fault zone had not been reached, indicating the fault must be steeper than was assumed originally. It was decided to temporarily abandon Hole A1, and move to a new location to intersect the fault at a higher elevation and determine its attitude with a shorter hole. Once the dip was established, the drill could be returned to Hole A1 and drilling continued to intersect the fault zone at a depth close to that of proposed Hole DDH A2, as was planned in the contract. This would, in effect, have Hole A1 replace DDH A2 and no drilling would be lost. Mountain Copper Company contacted the Acting Field Officer of the Office of Minerals Exploration in San Francisco, California and received permission to do this (refer to October 1st letter attached).

Hole #2 was started on September 30,1965 from a site (as shown in sketch-Section "A") 200 feet east of the fault with a -55° inclination and bearing due west. Drilling in this hole progressed rapidly (about 50' per shift). On September 11, the engineer on the project telephoned Mountain Copper Company's consultant geologist and explained that the fault should have been intercepted as the hole had reached 425' of depth and had passed the vertical projection of the fault. He was advised to continue drilling, and the consultant geologist would visit the site. The consultant arrived on October 15, and at 811' of depth the Hole A2 was stopped and considered finished. It was established the fault was passed at between 185'-205' of depth, and the additional drilling proved no mineralization in the tension fractures or replacement zones. (refer to attached sketch "J"

from application)

Hole A1 was re-entered on October 16 and drilling was resumed from 780 feet. Loss of circulation and some caving made drilling with N X difficult, and on October 19 Hole A1 was cased to 840 feet and drilling continued with B X size. Progress was very slow, and the daily logs show the trouble to be due to loss of circulation, bad rods, and stuck bits.

Mountain Copper Company's consultant geologist inspected the core on November 2 when the hole had reached a depth of 941 feet. Drilling was continued to 1,000 feet and this depth was reached on November 9, 1965 at which time the hole was stopped and considered finished. The thrust fault was not encountered with Hole A1.

The total footage of Holes A1 and A2 amounted to: 811 feet of N X size in Hole B2; 840 feet of N X size in Hole A1; and 160 feet of B X size in Hole A1.

The core has been properly logged and stored and is available for inspection.

Respectfully submitted,

V. P. Bluege

V. P. Bluege
Director of Exploration

MOUNTAIN COPPER COMPANY
OF CALIFORNIA
MARTINEZ, CALIFORNIA

Min. Hill, Nevada

October 1, 1965

COPY

Mr. Paul Fillo, Acting Field Officer
U.S. Department of the Interior
Office of Minerals Exploration
450 Golden Gate Avenue
Box 36012
San Francisco, California 94102

Dear Mr. Fillo:

Re: OME Docket #6427

I trust this letter and the accompanying sketch will provide the information you requested.

On September 28, 1965 Mr. E. H. Lindsey, our consulting geologist, visited the site of DDH #1, Moco Claims, Mineral Hill District, Eureka County, Nevada, and recommended the drilling be stopped. The hole had steepened to 70 degrees and at a depth of 700 feet had not encountered the thrust fault, proving that the fault has a dip steeper than 75 degrees easterly. It was decided that in order to determine the attitude of the fault another DD Hole #2 should be drilled closer to the fault (shown on sketch). Mountain Copper Company requested permission from OME for the change and it was approved on September 30th and drilling of DD Hole #2 commenced.

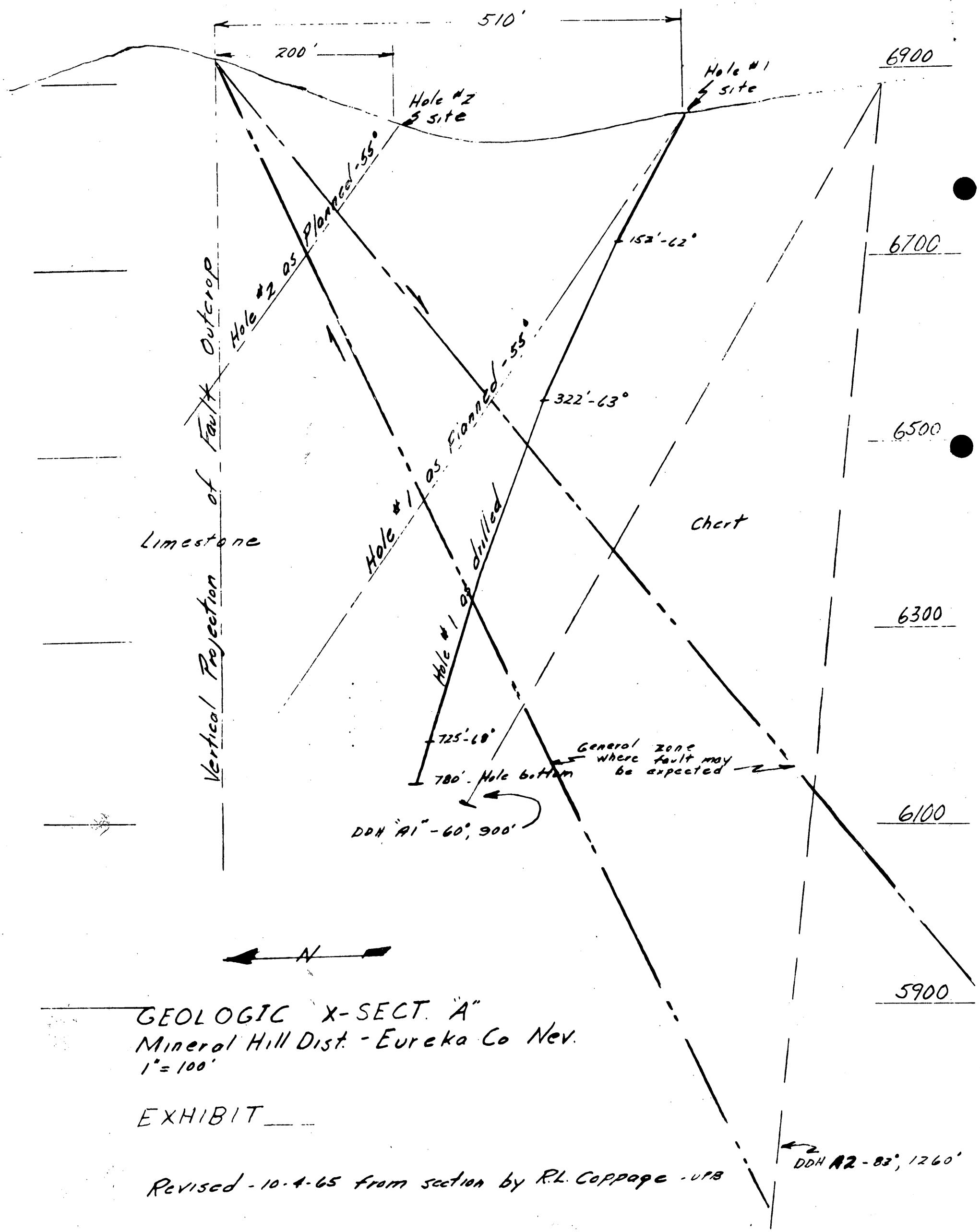
As shown on the accompanying sketch the fault zone is steeper than anticipated. Taking this into consideration, DDH #2 should encounter the fault zone at a vertical depth of about 375 to 400 feet. It is then proposed to reenter DDH #1 and continue drilling or deflect the hole to effectually replace proposed DDH A2.

We shall keep you informed on our progress and the monthly report is forthcoming.

Sincerely yours,

VPB:ea
encl.

V. P. Bluege
Director of Exploration



GEOLOGIC X-SECT. "A"
Mineral Hill Dist. - Eureka Co Nev.
1" = 100'

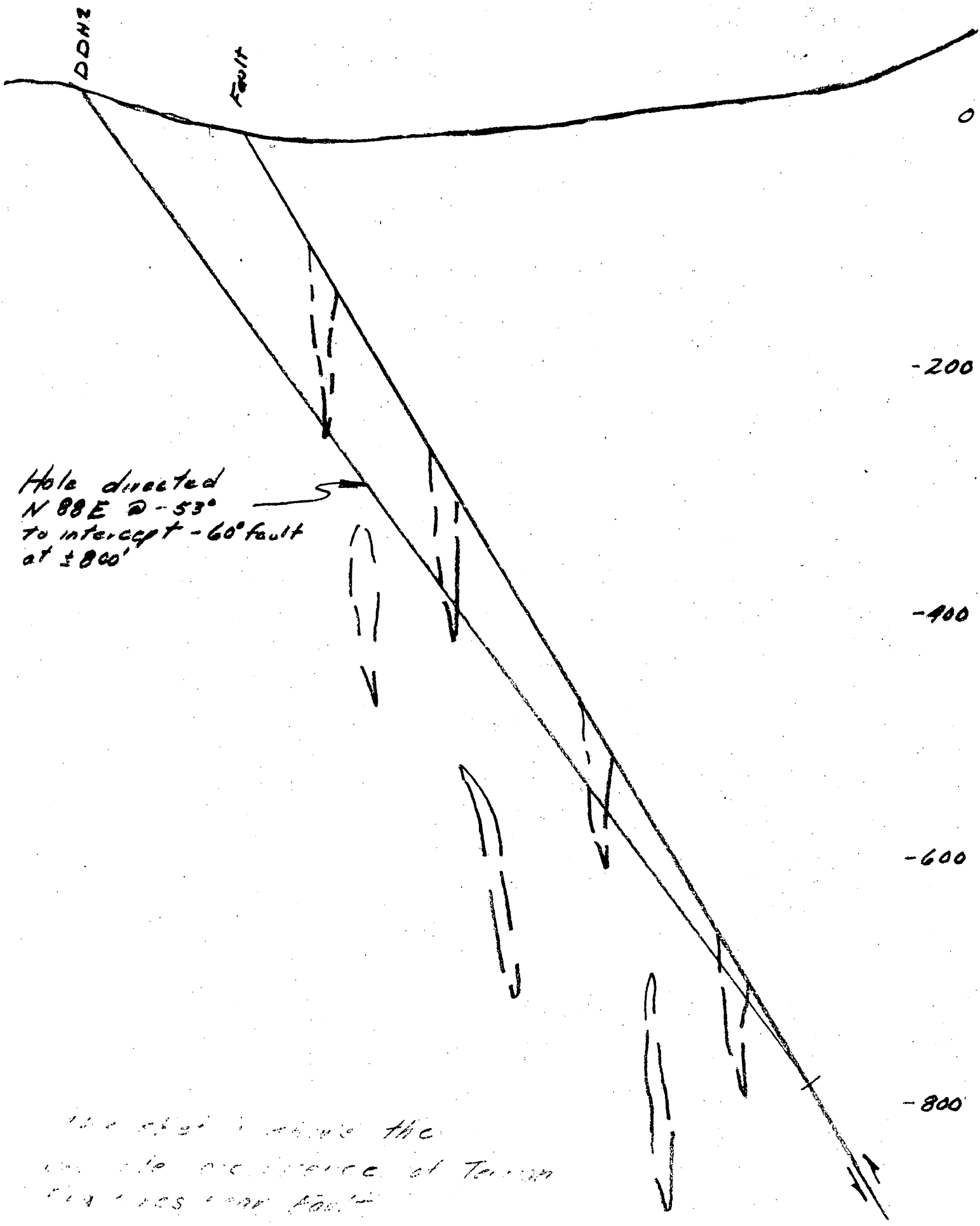
EXHIBIT___

Revised - 10-4-65 from section by R.L. Coppage - UPB

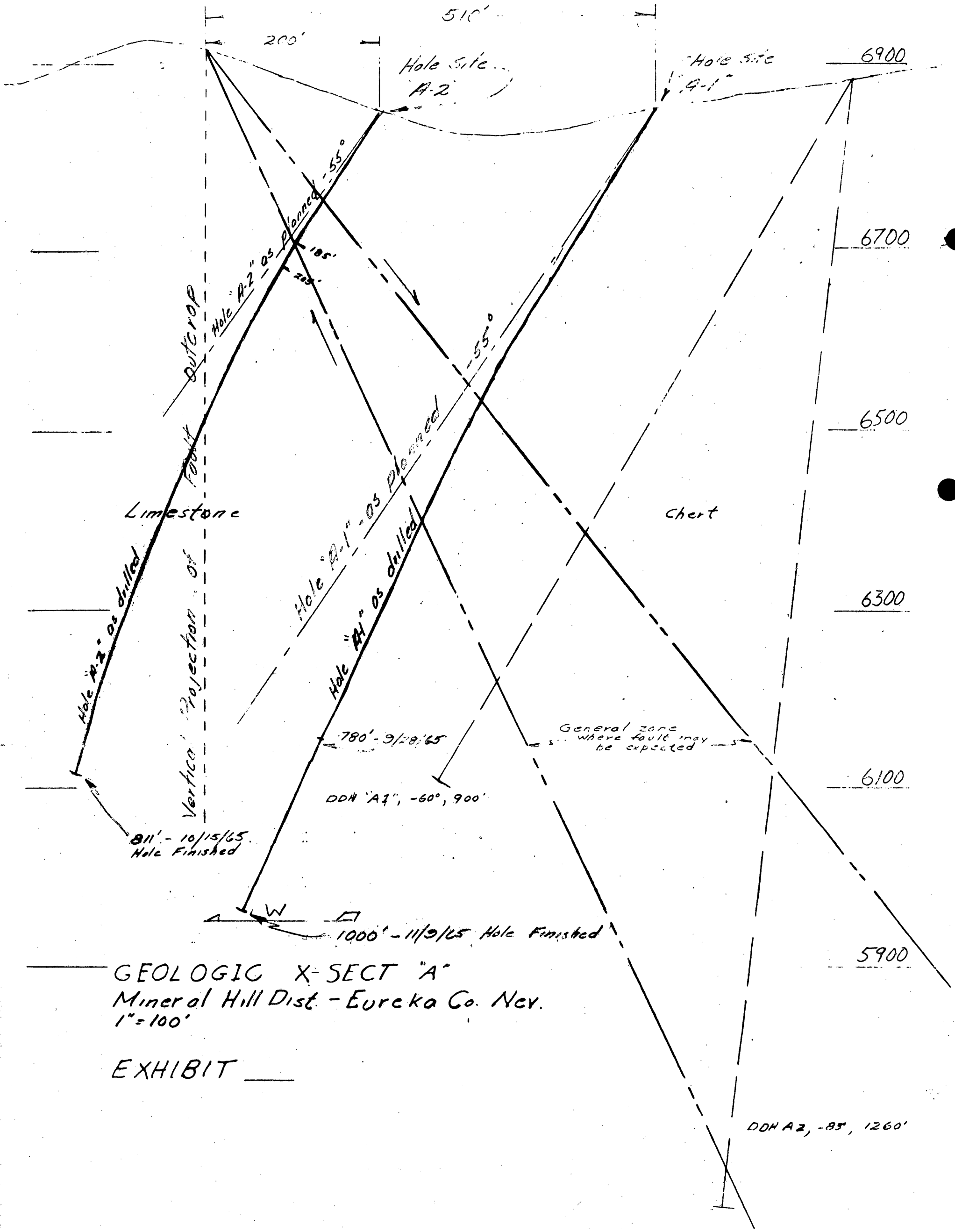
E.H.L. 11/10/64

Proposed Drill Hole
Mineral Hill Area
Eureka Co, Nev.

J

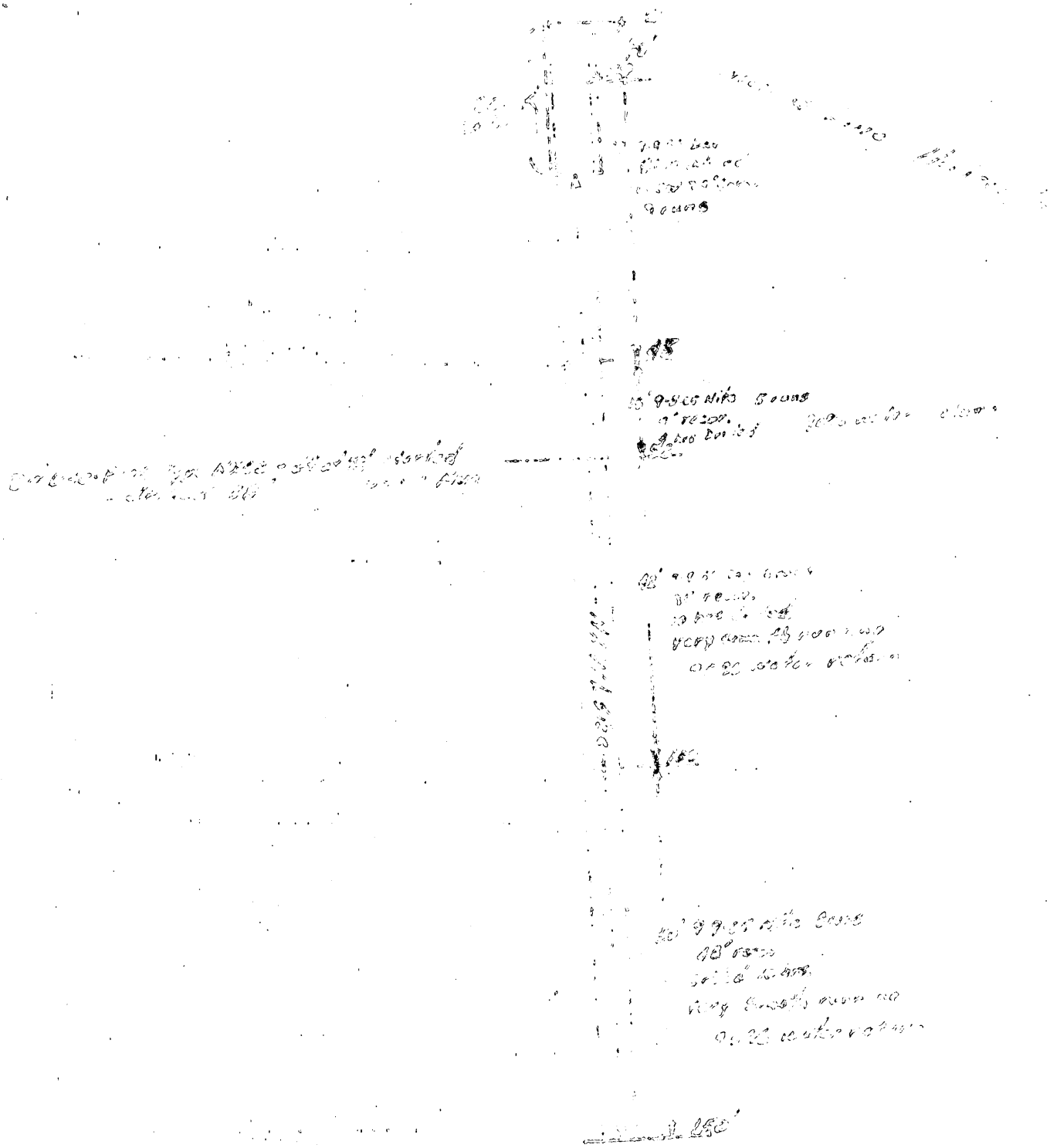


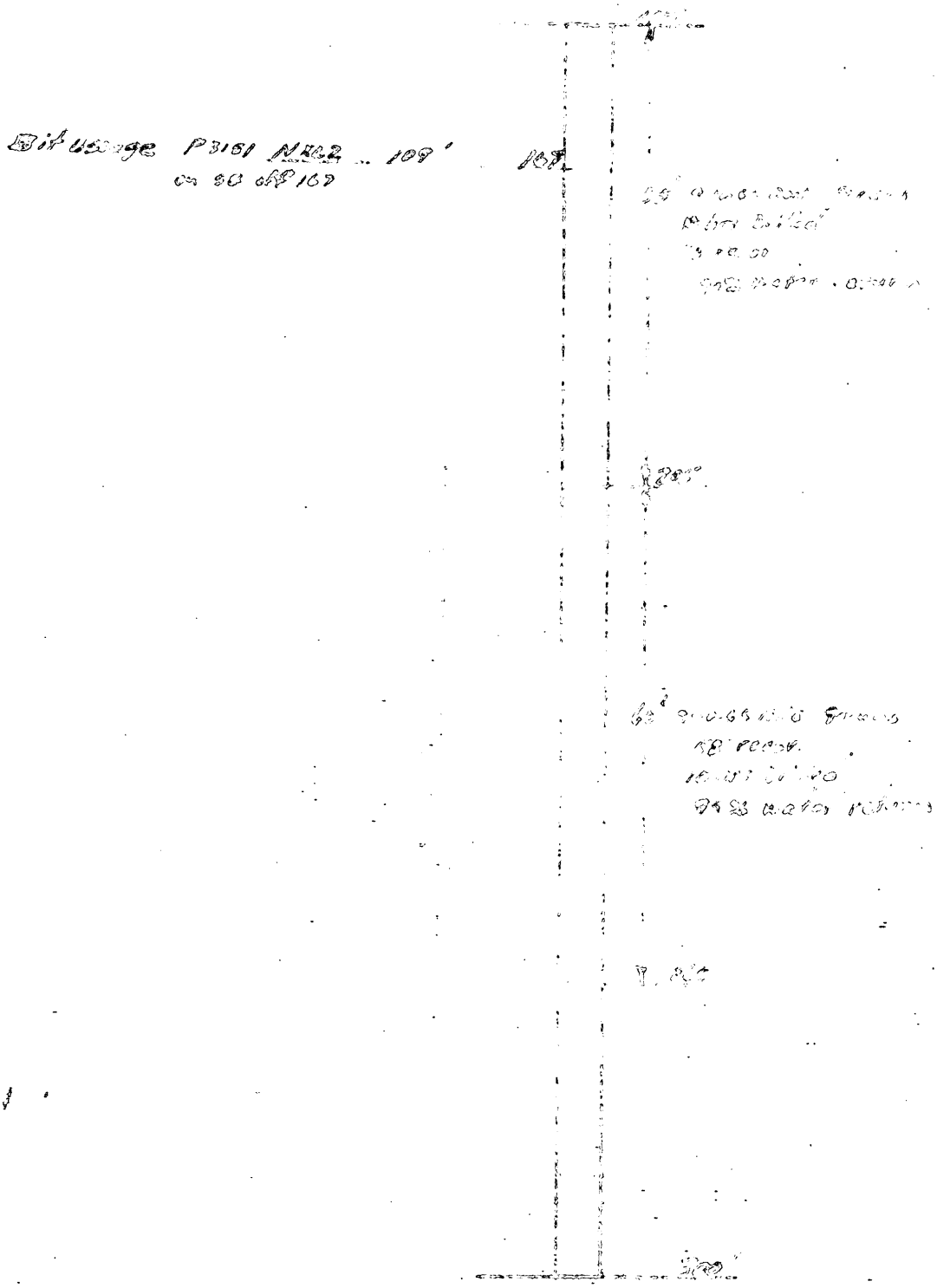
[illegible] the
[illegible] occurrence of Tertiary
[illegible] fault



GEOLOGIC X-SECT "A"
Mineral Hill Dist. - Eureka Co. Nev.
1" = 100'

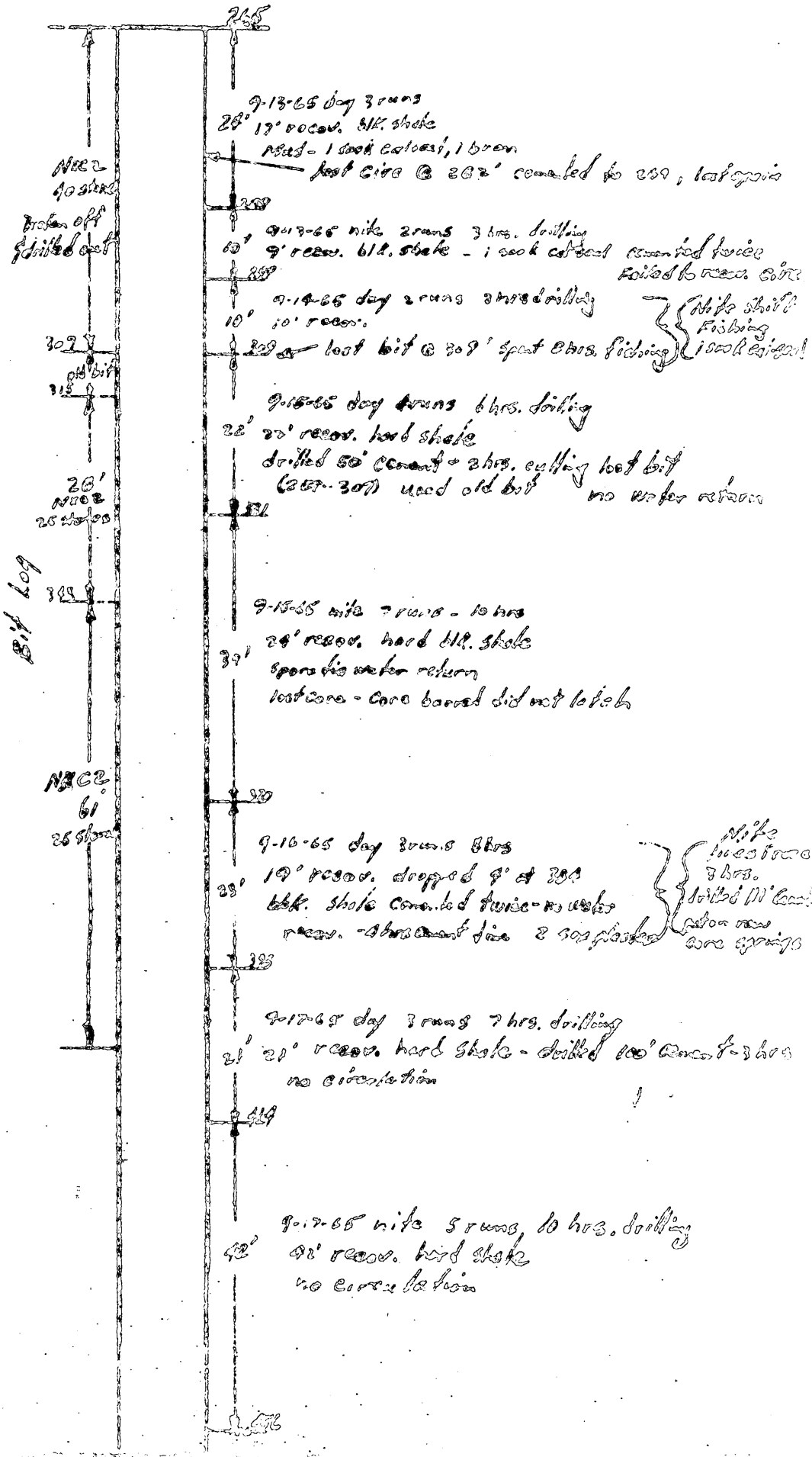
EXHIBIT ___





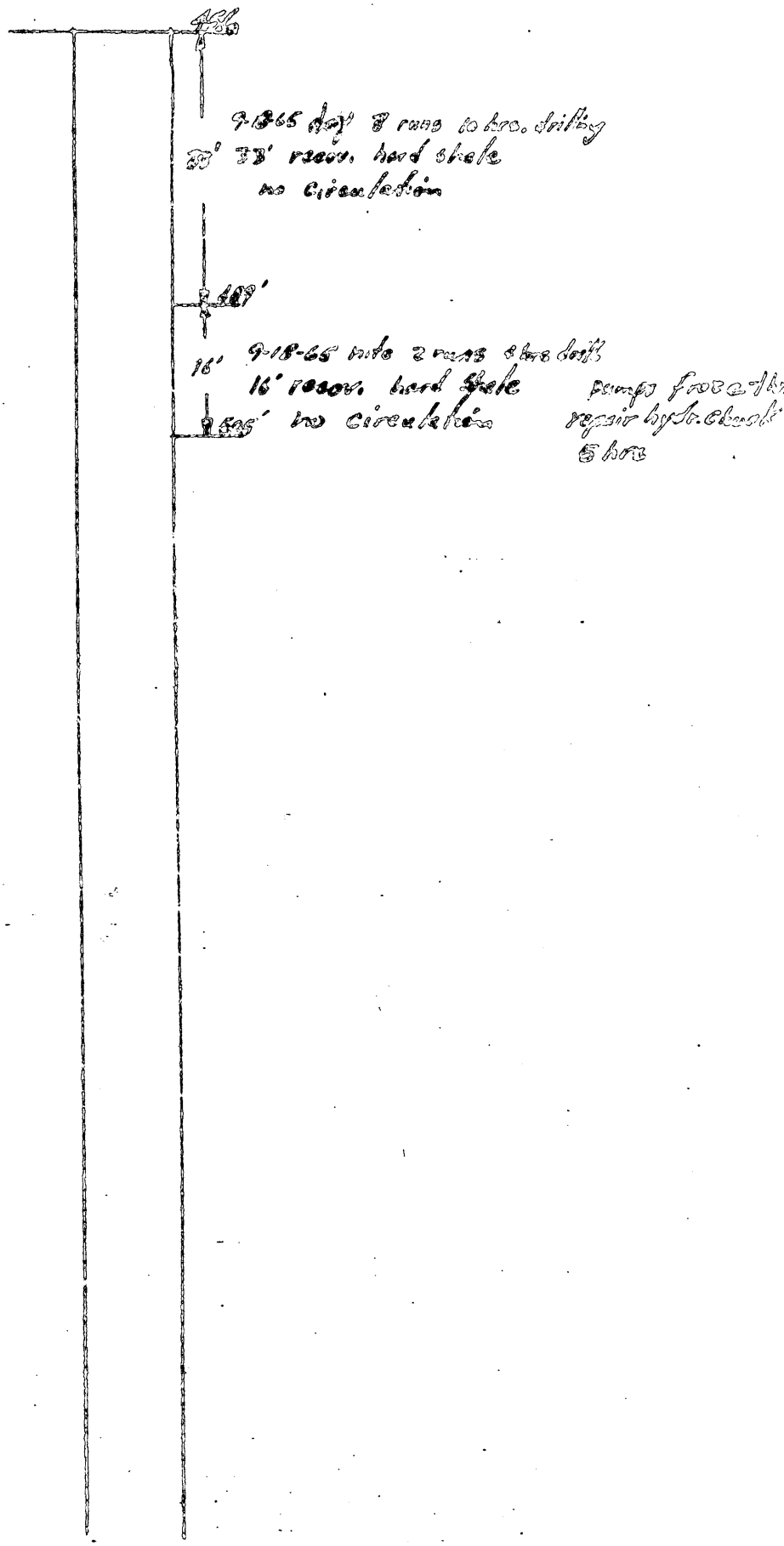
Mineral Hill Nevada — Mt. Copper Co. of Calif.

Drill Hole Log - Hole #1 — 1° 20'



Mineral Hill Nevada — Mt. Copper Co.

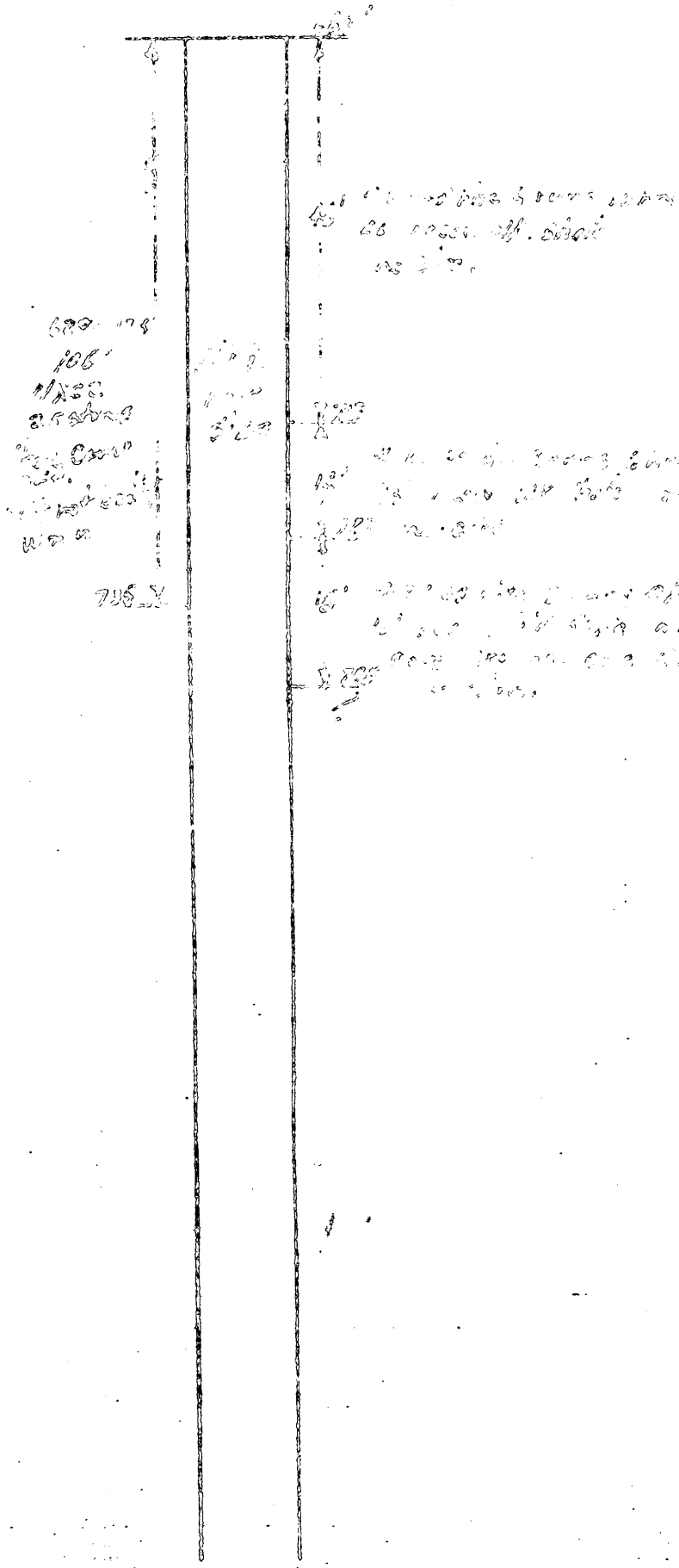
Drill Hole Log - Hole #1 — 1" = 20'



Mineral Hill Nevada

Log Hole #1

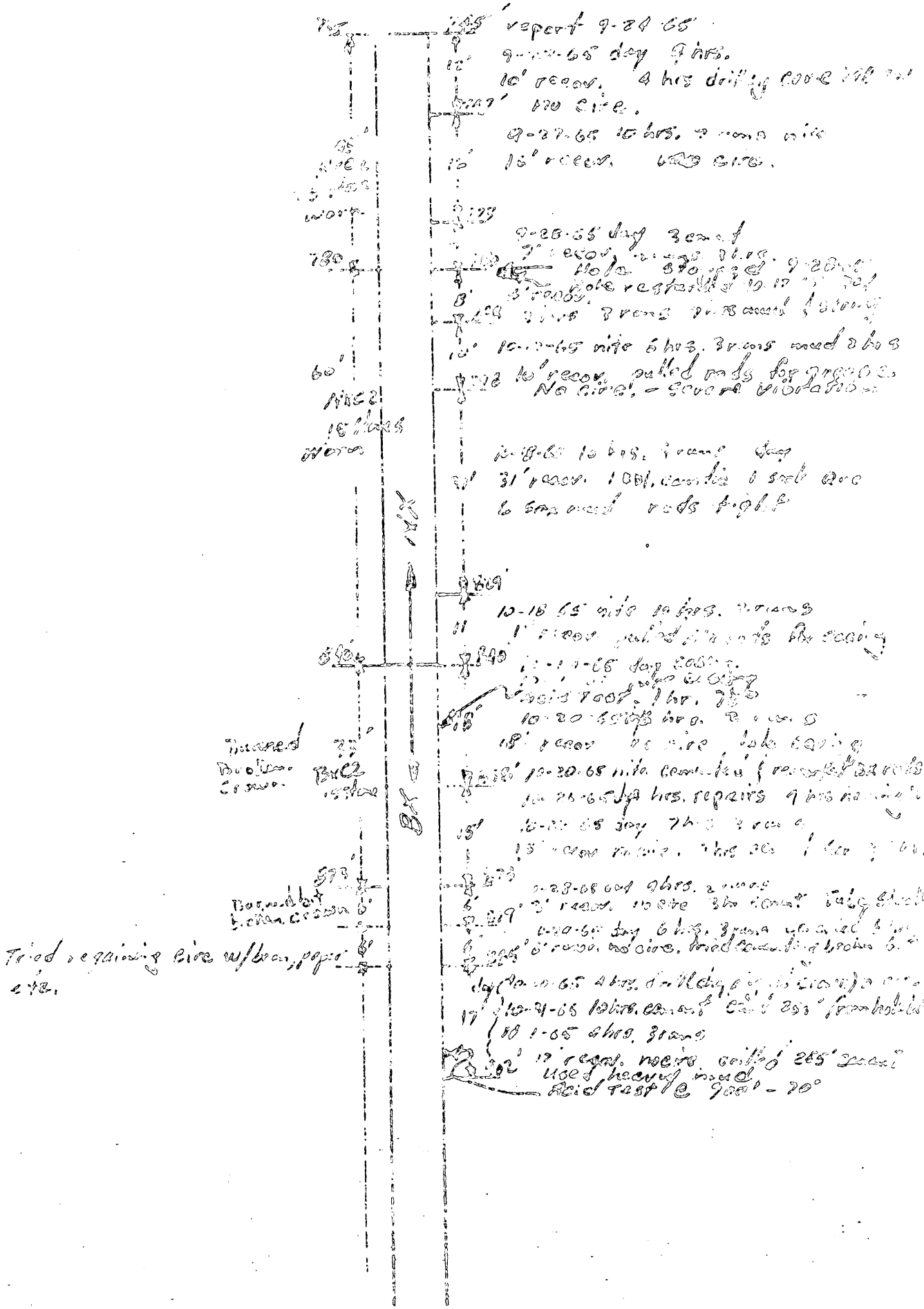
Mt. Copper Co.



Mineral Hill Nevada

Drill Hole Log - Hole #1

Mt Eagle Co.
10-1-65



Scale 1" = 20'

Coordinates – East _____ Inclination 55°
North _____ Bearing Due West
Collar Elevation _____ Logged By [illegible]

Date Started 9/8/65
Date Completed _____
Drilled By Boyles Bros

From	To	Feet Recvd.		Rock Description	Mineralization	Alteration	Sample No.	%	%	%	%	Assay Average
0	[illegible]	41+		Fault [illegible] to [illegible] Sh. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]	[illegible]	[illegible]						
[illegible]	[illegible]	2.[illegible]		[illegible]	[illegible]	[illegible]						
[illegible]	[illegible]	4.0		[illegible]	[illegible]	[illegible]						
[illegible]	25.5	4.2		[illegible]	[illegible]	[illegible]						
25.5	10.0	4.6		[illegible]	[illegible]	[illegible]						
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]						
10.5	[illegible]	6.5		Soft yellow [illegible]	[illegible]	Soft						
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]						

DRILL HOLE LOG
MANNING W. COX ASSOCIATES
CONSULTING GEOLOGISTS

Page [illegible] of [illegible]

Scale: 1" = 20'

Coordinates – East _____
North _____
Collar elevation _____

Inclination 55
Bearing Due west
Logged By RCG/C.B. J.C.

Date Started _____
Date Completed _____
Drilled By Eagles Bros

From	To	Feet Recvd.	Rock Description	Mineralization	Alteration	Sample No.	%	%	%	%	Assay Average
[illegible]	[illegible]	[illegible]	Soft gray lamst.	Pyr stain	Some calc. sulf						
[illegible]	127	[illegible]	Hard blk. lamst.	" " sometimes	some silicification						
127	135	[illegible]	Medium gray hard, each a mixed lamst. some pine lamst.	Pyr bearing Qz-calcite FS & sulf. veinlets, calcite stringers - trace mag.	" "						
[illegible]	135	26'	Hard blk. lamst.	calcite stringers							
[illegible]	[illegible]	[illegible]	Soft sandy lamst.	very minor FS							
[illegible]	172	11.3	Hard calcareous lamst.	" " " calcite stringers	minor silicification						
			Hard. calcareous lamst. fine grained	Very minor Pyr. in beds	minor silicification						
172	222	52'	[illegible]	Numerous small calcite stringers							

End of sheet

DRILL HOLE LOG
MANNING W. COX ASSOCIATES
CONSULTING GEOLOGISTS

Hole No. _____
Page _____ of _____

Coordinates – East _____
North _____
Collar Elevation _____

Inclination -55°
Bearing [illegible]
Logged By [illegible]

Date Started 9-1-65
Date Completed _____
Drilled By Boyles Bros.

From	To	Feet Recd.		Rock Description	Mineralization	Alteration	Sample No.	%	%	%	%	Assay Average
[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]	[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]						

Coordinates – East _____
North _____
Collar Elevation _____

Inclination [illegible]°
Bearing [illegible]
Logged By [illegible]

Date Started [illegible]
Date Completed _____
Drilled By [illegible]

From	To	Feet Rcvd		Rock Description	Mineralization	Alteration	Sample No.	% Ag	% Pb	% Zn	% Cu	Assay Average
340	375	35.2		V. hard carbonaceous shale - chert bands	minor pyrite, calcite stringers	silica - sericite	360 [illegible]					
375	411	27.3		V. hard carbon. shale	minor pyr. gal. calcite str. to con. hard chert.	silica - quartz	366 [illegible]					
411	440	27.2		Med. hard carbon. hang. shale	minor pyr. calcite veins to 1 cm. 98% minor calcite		432 [illegible]					
440	450	9.2		Med. hard carbon. hang. shale	[illegible]							

DRILL HOLE LOG
MANNING W. COX ASSOCIATES
CONSULTING GEOLOGISTS

Hole No. [illegible]
Page [illegible] of [illegible]

Coordinates – East _____
North _____
Collar Elevation _____

Inclination -55°
Bearing Due W.
Logged By RJC

Date Started 9-8-65
Date Completed _____
Drilled By Boyles Bros.

From	To	Feet Recvd.		Rock Description	Mineralization	Alteration	Sample No.	%	%	%	%	Assay Average
451	468	16.3		V. hard blk limey carbon. shale w/short beds	rare calcite str. vv minor pyr.	silicification in fractures?						
468	494	26.9		"	~							
494	499	5.5		Hot pp & grey shale v limey	vv. minor pyr. calcite stringers							
499	547	48.2		V. hard black carbon. limey shale w/short beds	V. mon. calcite stringers to 1cm thick V. minor pyr. in blebs vv. minor galena?	silica in fractures						
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]							
545	554	13.5		V hard limy, carbon. shale w/short beds	Very mon. calcite, minor pyr. in blebs Fractures slicken. Shiny black mat'l	silicification in fractures						

end of hole

DRILL HOLE LOG
MANNING W. COX ASSOCIATES
CONSULTING GEOLOGISTS

Project Hill Hole No. 1
Page 8 of

Coordinates – East
North
Collar Elevation

Inclination -55°
Bearing Due N.
Logged By PLC

Date Started 9-3-65
Date Completed
Drilled By Boyles Bros.

To	Footage Recd		Rock Description	Mineralization	Alteration	Sample No.	%	%	%	%	Assay Average
609	43.9		Mod Blk. Carbon. living shale w/ebbed bands	Calcite stringers mass. or minor pyr. in blebs & stringers	Silica silic. in fractures graphite.						
620	[illegible]		[illegible] Mod Red Brown Jasper Shale - v. m. ice chert	Calcite str. m. Mg. Pyr.							
645	26.0		Mod. blk. living carbon shale w/ [illegible]	Calcite stringers [illegible] pyr.	silica & graphite = [illegible]						
677	38.2		mod blk living carbon shale w/ [illegible] bands	Calcite stringers [illegible] pyr. more than above							

DRILL HOLE LOG
MANNING W. COX ASSOCIATES
CONSULTING GEOLOGISTS

Hole No. [illegible]
Page 2 of 2

Coordinates – East
North
Collar Elevation

Inclination 90°
Bearing Due W.
Logged By [illegible]

Date Started 9-2-65
Date Completed 9-22-65
Drilled By Boyles Bros.

From	To	Feet Recvd.	Rock Description	Mineralization	Alteration	Sample No.	%	%	%	%	Assay Average
677	717	38.9	Med. to Blk, hard, carbon. shale w/ few chert bands	minor pyr. in crystals & in calcite stringers	V. slightly mg silic. or graphite						
719	723	4.6	Med. to Blk, hard, carbon shale, no chert	~	~		~		~		
723	727	3.9	Blk shale w/ chert bands	V. minor pyr.	~		~				
727	770	51.7	med. to med. Blk, hard, carbon. shale w/ vv minor chert	minor pyr. in stringers & blebs - numerous calcite stringers							

Coordinates – East _____ Inclination -55° Date Started _____
North _____ Bearing Due West Date Completed _____
Collar Elevation _____ Logged By RC Drilled By Boyles Bros.

From	To	Feet Rcvd.		Rock Description	Mineralization	Alteration	Sample No.	%	%	%	%	Assay Average
786				Black, hard Carbon. Limey Shale	minor pyr., mod. Calcite str. veins	?						
			808									
				1' of Mud - v. Black soft Shale								
	889	972										

DRILL HOLE LOG
MANNING W. COX ASSOCIATES
CONSULTING GEOLOGISTS

Mineral Hill Hole No. 1
Page 8 of

Mountain Copper Co. of California

Inclination -55°
Bearing - Due West
Logged by RC

Date Started - 11-10-65
Date Completed
Drilled by - Doyles Bros.

From	To	Feet recov.		Rock Descrip.	Mineralization	Alteration	Assay Data
889	1000'	110'±		Blk. Carbon. shale broken in sections fairly soft.	minor calcite stringers & VV. minor pyr. in blebs.		
	End of Hole						

Drill Hole Log

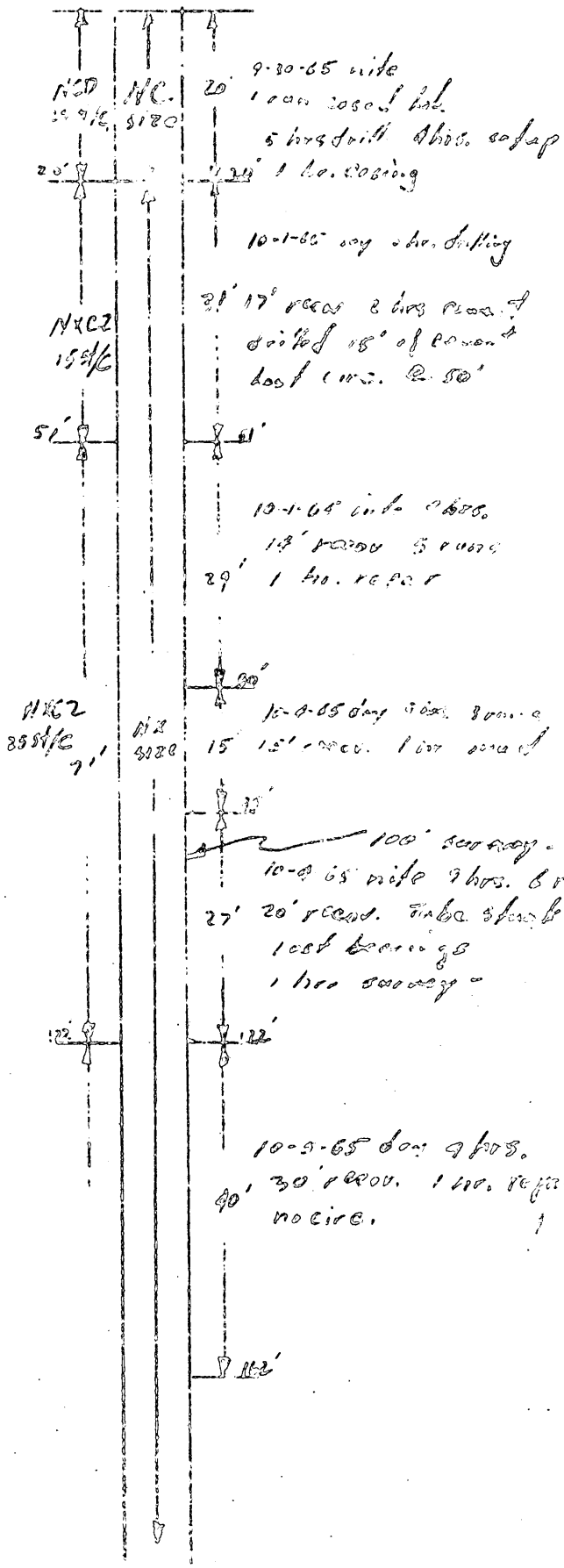
Mineral Hill Hole No. [illegible]

Page 8 of —

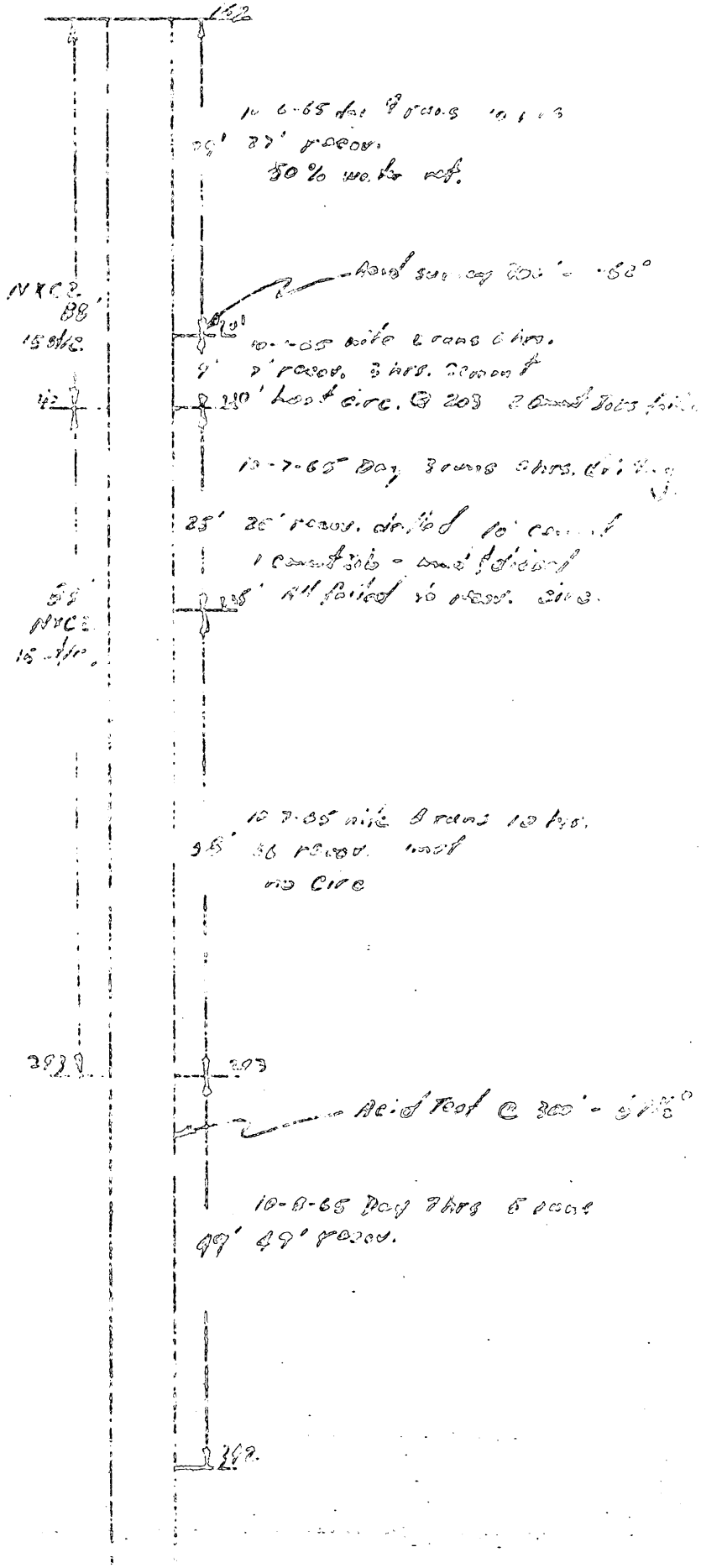
Mine of Hill Nevada

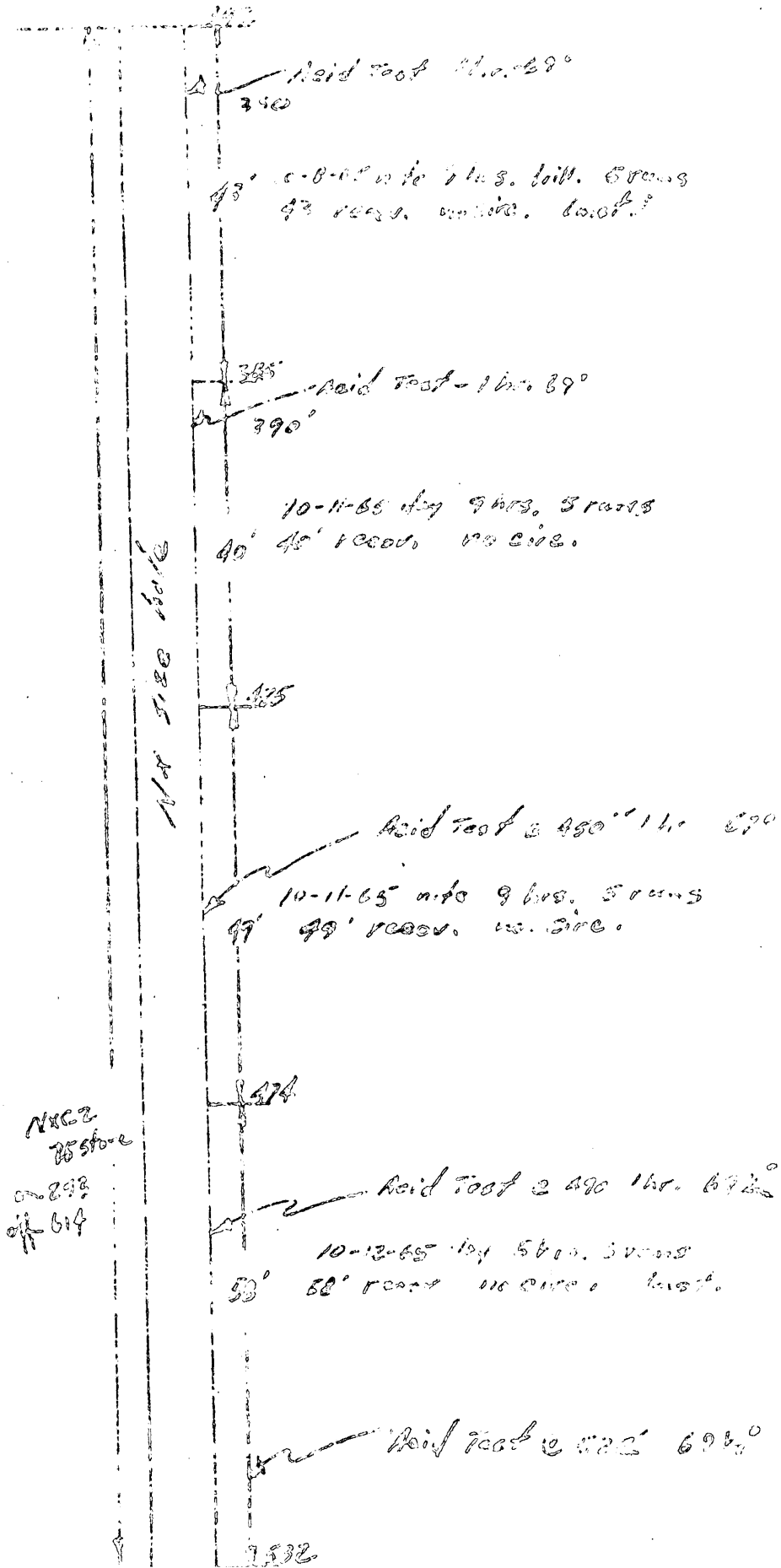
Drill Hole Log - Hole #2

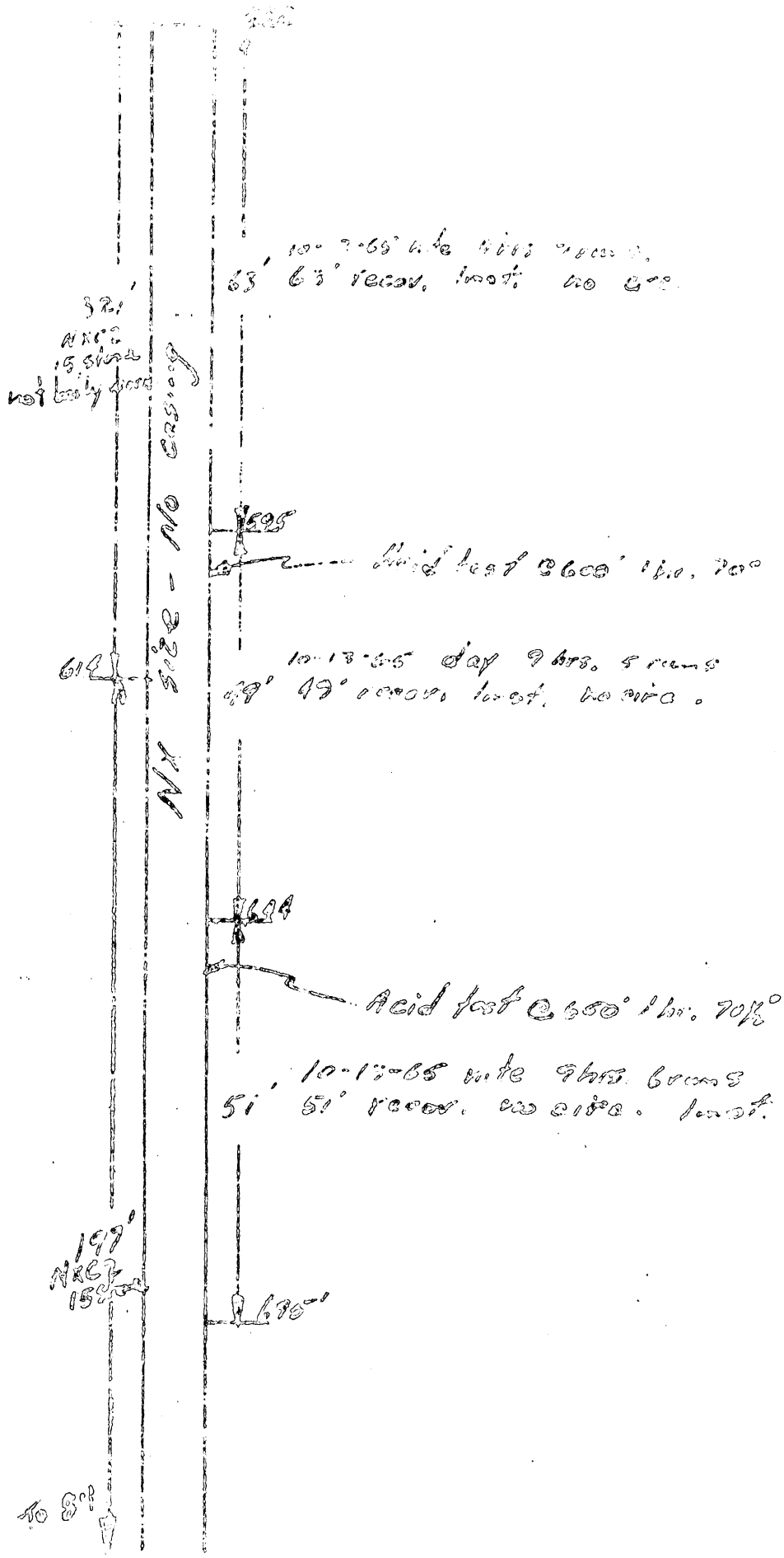
Mt. Copper Co.
10-1-65



Log Draft Mill 2:2




340
Reid Foot
385
390'
10-11-65
40'
425
Reid Foot
10-11-65
47'
474
Reid Foot
10-12-65
53'
Reid Foot
532
NWCZ
diff 614


10-7-65 late afts. 9 hrs.
63' 63' recov. most. no gas.
82'
NRC
15 shots
not body loss
NO CASING
1595
Acid test @ 600' 1 hr. 70°
61'
10-13-65 day 9 hrs. 5 runs
49' 49' recov. most. no gas.
1604
Acid test @ 650' 1 hr. 70%°
10-13-65 nite 9 hrs. 6 runs
51' 51' recov. no gas. most.
197'
NRC
15 shots
1625'
To 8th

Grand Hill News

Drill Hill Log - Hole #2

[illegible]

690'

Acid test @ 700' 1 hr. 74°

10-19-65 day 8 hrs. 3 runs
49' 40' recov. no oil, last
slight circulation!

248'

248' Acid test 1 hr. 74°

10-14-65 night 8 hrs. 6 runs
51' 50' recov. no oil

295'

10-15-65 day 8 hrs. 2 runs
46' 10' recov.

Acid test 605° 1 hr. 70°

311'

Stopped hole on a bring
E.H. Lindsay - began work
in hole [illegible]

Coordinates – East
North
Elevation

Inclination -88°
Bearing [illegible]
Logged By [illegible]

Date Started 7-88
Date Completed
Drilled By [illegible]

DRILL HOLE LOG
MANNING W. COX ASSOCIATES
CONSULTING GEOLOGISTS

Hole No. [illegible]
Page 1 of

	To	Core Recd.		Rock Description	Mineralization	Alteration	Sample No.	%	%	%	%	Assay Average
				V. fractured, med - soft dark gray slate crushed in [illegible]	[illegible] some calcite stringers	[illegible]						
	73	28										
	10	10.5		—	—	—						
10	12.5	2.5		V. fractured, med. soft dark gray slate - [illegible] [illegible]	Pyr. [illegible] to [illegible] - [illegible] stringers	[illegible] to [illegible]						

Collar Elevation

Inclination
Bearing
Logged By

Date Started
Date Completed
Drilled By

From	To	Core Recovery	Rock Description	Mineralization	Alteration	Sample No.	%	%	%	%	Assay Average
	160	44	[illegible]	[illegible]	[illegible]						
	153	[illegible]	[illegible]	[illegible]	[illegible]						
	195	10	[illegible]	[illegible]	[illegible]						
	[illegible]	[illegible]	[illegible]	[illegible]							
	[illegible]	[illegible]	[illegible]	[illegible]							
	204	[illegible]	[illegible]	[illegible]							
	197	12	[illegible]	[illegible]							

DRILL HOLE LOG
MANNING W. COX ASSOCIATES
CONSULTING GEOLOGISTS

Hole No. 2
Page 2 of

Coordinates – East
North
Collar Elevation

Inclination
Bearing
Logged By

Date Started
Date Completed
Drilled By

DRILL HOLE LOG
MARNING W. COX ASSOCIATES
CONSULTING GEOLOGISTS

Hole No. 2
Page 2 of

From	To	Core Recov.	Rock Description	Mineralization	Alteration	Sample No.	%	%	%	%	Assay Average
			Dark Grey and Hard limestone minor veins	Calcite stringers							
285	299	92									
			continuation minor veins	Calcite stringers							
			Dark Grey and hard limest. minor veins Some broken Zones strongly	Calcite stringers							
299	320										
		360									

			Red maple dark gray birch gray birch [illegible]	[illegible] [illegible] [illegible] [illegible]	
20	407	84±			
438	465	121'	Red [illegible] foot. [illegible] - soft water courses	[illegible] [illegible] in streams	
439	469	12.	Red maple foot [illegible]	[illegible]	

[illegible]

[illegible] ASSOCIATES [illegible]

Page No. 2

Coord notes – East
North
Collar Elevation

Inclination
Bearing
Logged By

Date Started
Date Completed
Drilled By

From	To	Recov. Recd.	Rock Description	Mineralization	Alteration	Sample No.					Assay Results
			Mod. Gy. ggr. Wf limst.	Wh. Arsen. Pyr. & Pbs. sinings							
			522								
585											

Bottom of hole

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

November 5, 1965

~~120~~
120

Mr. C. W. McClung, President
Mountain Copper Company of California
100 Mococo Road
Martinez, California 94553

Re: OME-6427 (Silver)
Mountain Copper Co. of Calif.
Moco Claims
Eureka County, Nevada
Contract No. 2205

Dear Mr. McClung:

A field trip in Nevada is tentatively scheduled for the week of November 19, 1965. An inspection of the Moco property will be made in the afternoon of November 19, 1965. If there is a change in date, you will be notified.

Sincerely yours,

Paul V. Fillo
Field Officer
OME, Region II

cc:
Chief, OME, Wash., D. C.

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OFFICIAL COPY
O. M. E.
RECEIVED
OCT 6 1965

INITIALS	CODE
	120 M
	~~120~~

October 4, 1965

Memorandum

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

From : Field Officer, OME, Region II

Subject: OME-6427 (Silver)
Mountain Copper Co. of Calif.
Moco Claims
Eureka County, Nevada
Contract No. 2205

Enclosed is a copy of a letter and map from the subject operator, requesting that their No. 2 drill hole be located closer to the fault zone in hopes of intersecting it. The information from drill hole No. 1 indicates the fault zone to be much steeper.

The operator was given approval to drill No. 2 hole at the location they specified. Our main objective at this time is to find the attitude of the fault zone and drill hole No. 2 should give us this information.

The operator estimated the intersection should be made between the 375- to 400-foot mark.

Paul V. Fillo

Paul V. Fillo

Enclosures

cc:
Chief, OME, Wash., D. C.

MOUNTAIN COPPER COMPANY
of California

100 MOCOCO ROAD
MARTINEZ, CALIFORNIA
PHONE: 228-5530
AREA CODE: 415

October 1, 1965

SEP 1965
BUREAU OF MINES
OFFICE OF
MINERALS EXPLORATION
REGION II

Mr. Paul Fillo, Acting Field Officer
U.S. Department of the Interior
Office of Minerals Exploration
450 Golden Gate Avenue
Box 36012
San Francisco, California 94102

Dear Mr. Fillo:

Re: OME Docket #6427

I trust this letter and the accompanying sketch will provide the information you requested.

On September 28, 1965 Mr. E. H. Lindsey, our consulting geologist, visited the site of DDH #1, Moco Claims, Mineral Hill District, Eureka County, Nevada, and recommended the drilling be stopped. The hole had steepened to 70 degrees and at a depth of 700 feet had not encountered the thrust fault, proving that the fault has a dip steeper than 75 degrees easterly. It was decided that in order to determine the attitude of the fault another DD Hole #2 should be drilled closer to the fault (shown on sketch). Mountain Copper Company requested permission from OME for the change and it was approved on September 30th and drilling of DD Hole #2 commenced.

As shown on the accompanying sketch the fault zone is steeper than anticipated. Taking this into consideration, DDH #2 should encounter the fault zone at a vertical depth of about 375 to 400 feet. It is then proposed to reenter DDH #1 and continue drilling or deflect the hole to effectually replace proposed DDH A2.

We shall keep you informed on our progress and the monthly report is forthcoming.

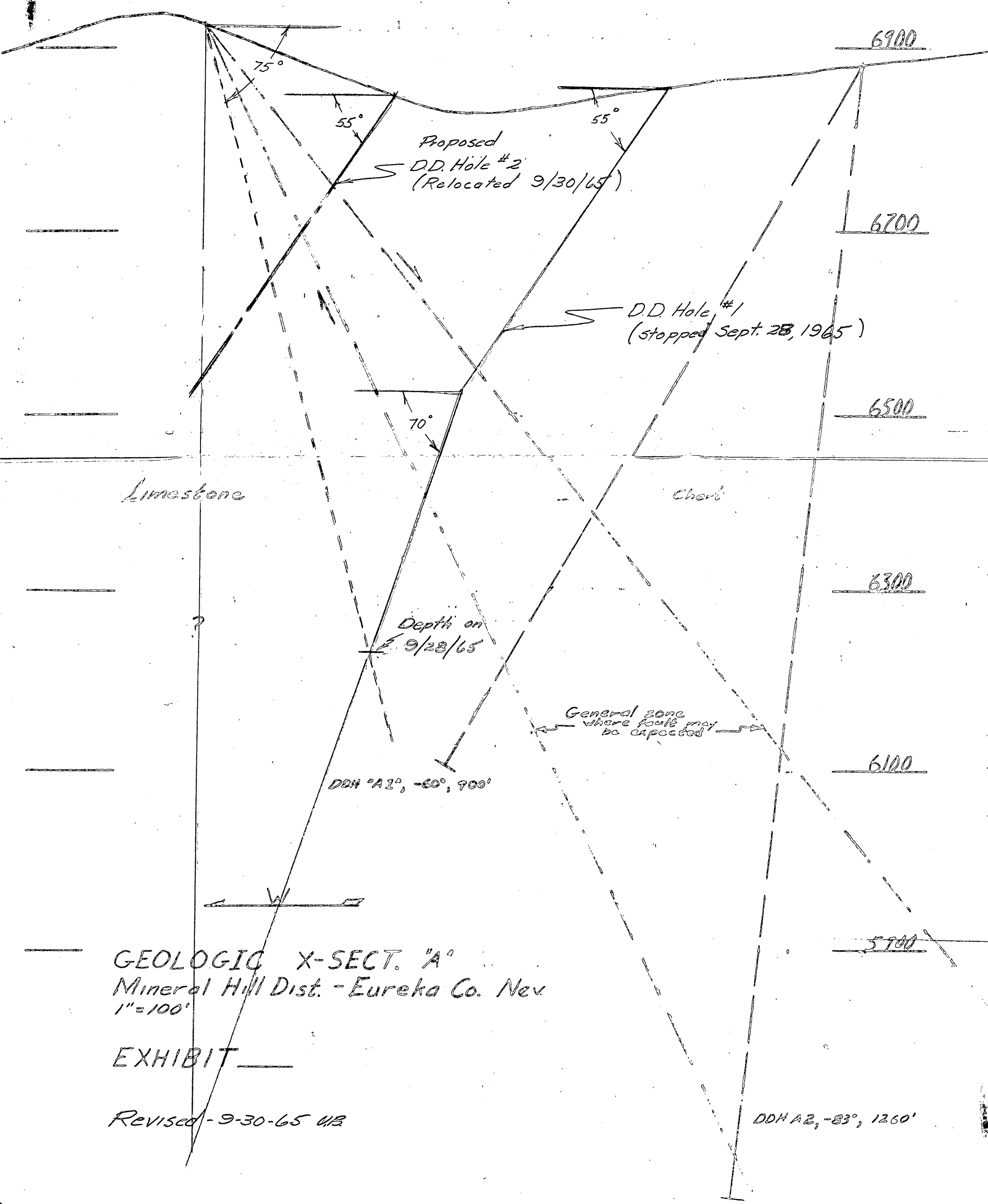
Sincerely yours,

V. P. Bluege

V. P. Bluege
Director of Exploration

VPB:ea
encl.

OME Docket #6427



GEOLOGIC X-SECT. "A"
Mineral Hill Dist. - Eureka Co. Nev.
1" = 100'

EXHIBIT ____

Revised - 9-30-65 U.B.

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

Date: Sept. 17, 1965

Memorandum

To : Compliance Officer

From : Acting Field Officer, Region II

Subject: Equal Employment Opportunity Under Government Contracts
OME- 6427 (Silver)
Operator: Mountain Copper Co. of Calif.
Name of Property: Moco Claims
County-State: Eureka County, Nevada
Contract No.: 2205

OFFICIAL COPY
O. M. E.
RECEIVED
OCT 4 1965

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	120

I have obtained the following information from my visit to the operating project under the subject contract:

		Operator 1	Contractor 2
1.	Number of all employees		
2.	Number of women employees	none	
3.	Number of Negro employees	none	
4.	Number of other minority groups (Indian, Latin, Oriental, etc.)	none	
5.	Was employed through a union?	no	
6.	Distance to the closest union headquarters		
7.	Are the discrimination posters prominently displayed?	yes	
8.	If employment was through a union, was the union furnished Standard Form 38?	---	
9.	If employment was not through a union, in what manner was employment made?	solicited	
10.	Acts of intimidation matter has been discussed with	Geologist representing the operator	

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

September 24, 1965

Memorandum

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

From : Acting Field Officer, OME, Region II

Subject: OME-6427 (Silver)
Mountain Copper Co. of Calif.
Moco Claims
Eureka County, Nevada
Contract No. 2205

OFFICIAL COPY
O. M. E.
RECEIVED
SEP 27 1965
INITIALS | CODE
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Interim Inspection

The subject property was inspected September 17, 1965 by the Acting Field Officer accompanied by Richard Coppage, geologist for the operator.

The drilling contractor (Boyles Bros.) started to drill September 3, 1965 and has completed drill hole No. 1 to a depth of 385 feet. The core recovery has been good, and they have been averaging about 25 feet per shift. At times the circulation is lost, but in any event they will continue with NX core size until they have to change to BX core size.

Inspection of the core reveals that the formation changes in color from a gray to a maroon iron oxide, with chert inclusion, to a black shaly lime (?) characterizing the Vinini formation (upper plates). Small veinlets of calcite and blobs of pyrite are shown in the core. An acid test was applied to the cores to check for limestone and in some instances a slight fizz resulted.

A split-core sample was obtained to show Ralph Roberts when he gets back from his field trip (Nov. 1). The access roads and drill sites for the first two sites have been prepared.

Paul V. Fillo

Paul V. Fillo

cc:
Chief, OME, Wash., D. C.

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

August 30, 1965

OFFICIAL COPY
O. M. E.
RECEIVED
SEP 1 1965
INITIAL & DATE
120 m
420.

Mr. C. W. McClung
President
Mountain Copper Company of California
100 Mococo Road
Martinez, California 94553

Re: OME-6427 (Silver)
Mountain Copper Co. of Calif.
Moco Claims
Eureka County, Nevada
Contract No. 2205

Dear Mr. McClung:

A field trip in Nevada is tentatively scheduled for the week of September 13, 1965. An inspection of the Moco property will be made in the afternoon of September 16, 1965. If there is a change in date, you will be notified.

Sincerely yours,

Paul V. Fillo
Acting Field Officer
OME, Region II

cc
Chief, OME, Wash., D. C.

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

August 6, 1965

Memorandum

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

From : Acting Field Officer, OME, Region II

Subject: OME-6427 (Silver)
Mountain Copper Co. of Calif.
Moco Claims
Eureka County, Nevada
Contract No. 2205

Enclosed are the Government's Fiscal's and Audit's signed copies of the subject contract executed by the operator.

Paul V. Fillo

Paul V. Fillo

Enclosures

cc:
Chief, OME, Wash., D. C.

OFFICIAL COPY
O. M. E.
RECEIVED
AUG 9 1965
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File

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~~Kidgard~~

4236 GSA

Frank Johnson

M

OFFICIAL FILE COPY
AUG 12 1965
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P. R to Survey 8/17/65

WWKB016

FWA-021 WWBK FSF 08 IBOM

SAN FRANCISCO CALIF 8-6-65 0755U

ARTHUR A BAKER, ACTING DIR

U S GEOLOGICAL SURVEY U S DEPT INTERIOR WASHINGTON DC

RECEIVED SIGNED O.M.E. CONTRACT FROM C. W. MC CLUNG, PRESIDENT,

MOUNTAIN COPPER CO. OF CALIF. CONTRACT NO. 2205

PAUL V FILLO

2205

VJB 0835U

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

August 2, 1965

OFFICIAL COPY O. M. E. RECEIVED AUG 4 1965	
INITIALS	CODE
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	120

Mr. C. W. McClung, President
Mountain Copper Company of California
100 Mococo Road
Martinez, California 94553

Re: OME-6427 (Silver)
Mountain Copper Co. of Calif.
Moco Claims
Eureka County, Nevada

Dear Mr. McClung:

Enclosed are the original and four copies of a proposed drilling contract on the Moco claims, signed by the Acting Director of U. S. Geological Survey for the Government. The contract consists of MME Form 50 (seven pages), Annex I (one page), Exhibit A (five pages), Exhibit B (one page), and two maps (Exhibit 1 and Figure 2).

If the proposed contract meets with your approval, please sign all copies and return the following copies to this office:

Government's copy
Fiscal Section's copy
Audit's copy
Field Office's copy

The operator's copy should be retained for your files.

If any part of the proposed contract does not meet with your approval, the original and all copies should be returned to this office together with your proposed changes for consideration.

Please note that the interest of 6¼ percent in Article (c) of the contract accrues from the dates on which the individual payments are made by the Government, and, like the principal, is repayable from royalty on production.

Sincerely yours,

Paul V. Fillo
Acting Field Officer
OME, Region II

Enclosures

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
7'22	[illegible]	130
7/22	Johnson	110
7-23	[illegible] for Kilbyard	220
7/23	Pecora	
7/24	Barber	
		110
7/27	coe	220
		120M

Memorandum

JUL 27 1965

To: Acting Field Officer, Region II

From: Chief, Office of Minerals Exploration

Subject: OME-6427 (Silver)
Mountain Copper Company of California
Moco Claims
Eureka County, Nevada

Enclosed are the original and four copies of a proposed contract for the subject property. The contract consists of MME Form 50 (seven pages), Annex I (one page), Exhibit A (five pages), Exhibit B (one page), and two maps (Exhibit 1 and Figure 2). An extra copy of the contract is also enclosed for field use. All copies have been signed by the Acting Director, U. S. Geological Survey, for the Government. The date for commencement of the work has been inserted.

If the proposed contract is satisfactory to you and the Applicant, all five copies should be signed by an authorized representative of the Applicant. Thereafter, please distribute the copies in the usual manner.

Please advise the Applicant that the 6¼ percent interest accrues from the dates on which the individual payments are made by the Government and like the principal is repayable from royalty on production.

If any part of the proposed contract does not have your approval or that of the Applicant and cannot be altered within your delegated authority, the original and all copies are to be returned to this office together with the proposed changes for consideration.

Please note that Supervision and Technical Services and Labor have been provided on an actual cost basis. While diamond drilling ordinarily requires rather close supervision, the drilling may not require the presence of a supervisor at all times. Thus, if the Operator has other work to be done in the area, it can be done on the Operator's account and the time proportioned on an equitable basis. This should be explained to the Operator. In support of the Operator's voucher, the Company should furnish a certified copy of the payroll involved at the project site with the original voucher of its claim.

23263

Also, please refer to the Company's letter of June 16, 1965, in reference to the claims in the contract. If any corrections have been made, the Company should immediately furnish the details so that an amendment can be written to the contract if executed.

(signed) FRANK E. JOHNSON

F. E. Johnson

Enclosures

GCSelfridge/gla (7-22-65)
cc to: Director's Reading File
Division File
Economic Geology File
OME File
OME Reading File
George C. Selfridge (2)

MME FORM 6
REV. 2-

REFERENCE SLIP
OFFICE OF MINERALS EXPLORATION

TO:	DATE	INITIALS
1. ~~Associate Solicitor 6042~~		
2. George C. Selfridge 4450		
3.		
4.		
5.		
FROM: George C. Selfridge	7/16/65	

FOR: Check items for action desired

x Action	___ Reply for signature of ___	
x Approval	___ Investigate	___ Surname
___ Comment	___ Recommendations	___ Signature
___ Conference	___ Rewrite	___ File
___ Instructions	___ Your information	

REMARKS:

FROM SOLICITOR JUL 21 1965

INTERIOR DEPT. JUL 16 1965

FOR SIGNATURE SOLICITOR

RECEIVED JUL 16 1965 Division of Mineral Resources and General Legal Service

G-65-2132.

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

SECOND DRAFT
RMSmith/mm 6/29/65

MME Form 50
June 1963

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR *
~~BUREAU OF MINES~~

EXPLORATION CONTRACT
(Long Form)

Docket No.	Commodity	Contract No.	County	State
OME -6427	Silver	14-23-090-	Eureka	Nevada

It is agreed _____ (Date), between the United States of America, acting through the Department of the Interior, Office of Minerals Exploration, hereinafter called the "Government," and

Mountain Copper Company of California, a California corporation

whose mailing address is **100 Mococo Road, Martinez, California 94553**, hereinafter called the "Operator," as follows:

ARTICLE 1. Authority and scope.--(a) This contract, entered into under the authority of Public Law 701, 85th Cong., 2d sess. (72 Stat. 700; 30 U.S.C. § 641 - 646), consists of this form, the attached Annex I (land description), Exhibit A (work and costs), and the maps and documents listed. The work is a search for new or unexplored deposits of the commodity designated above. The Operator shall begin the work on or before ~~August 15, 1965~~ Sept. 1, 1965 (Date), and, subject to the provisions of Article 9 and Exhibit A, shall either have completed the work within **12** months from the date of the contract or shall have incurred allowable costs (see Article 6) in a sum not less than the total cost set forth in Exhibit A.

(b) The total allowable cost of the work set forth in Exhibit A is $ **86,860.00**. The Government will contribute ~~50~~ **75** percent of the allowable costs as they are incurred, in a total sum not in excess of $ **65,145.00** in accordance with the provisions of Articles 3, 4, 5, and 6. "Costs incurred" means costs that have been paid or have become due and payable, or that the Government determines have become obligations.

(c) Interest computation.--Simple interest at the rate of _____ percent shall accrue from the dates Federal funds are made available until the period specified for payment of royalty expires, or until the amount of Federal funds contributed is fully repaid with interest.

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

ARTICLE 2. Operator's rights in land.--(a) The Operator represents and undertakes that Annex I correctly describes the land which is the subject of this contract and the nature of the Operator's right of property and possession therein (whether as owner, lessee, or otherwise), and that such right, title, or interest is subject only to the following claims, liens, or encumbrances:

See Annex I

(b) 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 lien agreement of any holder of the legal title of the land (lessor, seller, optionor, etc.) are attached as follows:

See Annex I

* U. S. Geological Survey

(c) The Operator shall preserve and maintain his right, title, or 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. 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 royalty on production and liens for the payment thereof. Two true copies of such instrument shall be furnished to the Government. If the Government's rights to royalty as provided in Article 7 have been terminated, the provisions of this paragraph (c) shall become inapplicable.

ARTICLE 3. Performance of the work.--(a) Operator's responsibility.--The work shall be performed diligently, efficiently, in a workmanlike manner in accordance with good mining standards, and in compliance with State laws governing health, safety, and liability insurance covering employment. The Operator shall provide suitable and adequate equipment, facilities, materials, supplies, and labor to complete the work as specified in Article 1(a).

(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 (see Article 6(a), Category (1)). 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, the Government will participate in payments to the independent contractor only as to work performed in accordance with the provisions of this exploration 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 production operations during the period that royalty is payable to the Government. The Operator shall provide the Government with all reasonable means of access for such inspections.

ARTICLE 4. Contribution by the Government.-- The Government will make its contribution on the basis of the monthly vouchers referred to in Article 5(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 and the Operator's final report has been received, the Government may withhold such sums as are necessary to protect its interests. The Government may make payments for the account of the Operator directly to independent contractors and suppliers rather than to the Operator.

ARTICLE 5. 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. 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 all pertinent books, documents, papers, and records of the Operator. 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) Monthly reports.--The Operator shall provide the Government with four copies of monthly reports in three sections as follows:

(1) Operator's Monthly Voucher claiming costs for work performed;

(2) Operator's Progress Report showing the number of units of the various types of work performed; 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; however, the original of the Operator's Monthly Voucher shall be supported by documentary evidence, such as certified copies or transcripts of payrolls and invoices, for all costs claimed under Article 6 (a) (1).)

(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 three copies of a final report (in addition to the final monthly report). 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 the related costs.

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

(e) Compliance with requirements.--If the Government determines that 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 preparation or completion of the same 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 6. Costs.--(a) Allowable costs.--The allowable costs of the work to which the Government will contribute are limited to:

(1) the necessary, reasonable, and direct actual costs that are estimated in Exhibit A by categories as specified in this article; and

(2) fixed costs for units of work to be performed (per foot, per hour, etc.) agreed upon in lieu of actual costs and set forth in Exhibit A.

The Government will not contribute to costs under any category or subcategory omitted from the estimate of costs in Exhibit A. Any excess over any estimate which is indicated as the maximum of any category, subcategory, or item, either as to requirement or related cost; any excess over a fixed unit cost; and any excess over the total allowable cost of the work are not allowable. The Operator shall incur such excesses for his own account without contribution by the Government, but the Operator is not obligated to incur more than his agreed percentage of the total allowable cost of the work.

Any category or subcategory or element thereof not designated as a maximum in this article or in Exhibit A may be exceeded, provided that the total allowable cost of the work, which is a maximum, is not exceeded.

CATEGORY (1)--INDEPENDENT CONTRACTS.--(See Article 3(b)). The total of this category and the average unit cost estimated for each type of work to be performed under an independent contract are maximums.

CATEGORY (2)--PERSONAL SERVICES.

Subcategory (a)--Supervision and Technical Services--All elements of this subcategory (number of supervisors, technicians, outside consultants, periods of employment, rates of pay, and total) are maximums.

Subcategory (b)--Labor.

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

CATEGORY (4)--OPERATING EQUIPMENT.

Subcategory (a)--Rental.--The number of each rented item [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 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.--Costs of items listed under this category include all requirements, 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 total of this category is a maximum.

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

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

CATEGORY (6)--NEW BUILDINGS, FIXTURES, AND INSTALLATIONS (EXCLUSIVE OF MINE WORKINGS).--Costs of items listed under this category include all requirements, 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 total of this category is a maximum.

CATEGORY (7)--MISCELLANEOUS.--Includes requirements and costs that do not fall within any of the first six categories, such as repairs other than initial and maintenance of operating equipment, analytical work, prints and other reproductions, accounting, Operator's share of payroll taxes, liability insurance covering employment, travel, and communications.

(b) Nonallowable costs.--In addition to the limitations imposed by paragraph (a) of this Article 6 the Government will not contribute to the following costs:

(1) Costs of the land, such as rental, depreciation, depletion, or other costs 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 total cost. The provision does not apply to receipts from production which are subject to the Government's royalty under the provisions of Article 7.

ARTICLE 7. Repayment by Operator.--(a) Certification.-- If the Government considers that mineral or metal production from the land covered by the contract may be possible as a result of the exploration work, it shall so certify in writing to the Operator at any time not later than six months after a sufficient final report and final accounting (see Article 5) have been furnished.

(b) Royalty on production.--The Operator, whether or not the producer (for example, if the Operator either transfers or does not retains his interest in the land), shall pay to the Government a royalty on all minerals and metals mined or produced from the land as follows:

(1) irrespective of any certicifation of possible production--from the date of the contract until the lapse of the time within which the government may issue such certification or until the total net amount contributed by the Government is fully repaid with interest, whichever occurs first; or

(2) if the Government issues a certification of possible production--for a period of ten years from the date of the contract, or until the total net amount contributed by the Government is fully repaid with interest, whichever occurs first.

(c) Payment of royalty.--(1) The Government's royalty shall be five percent of the gross proceeds (including any bonuses, premiums, allowances, or other benefits) from the production sold, in the form sold (ore, concentrate, 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 (such as treatment processes performed by the buyer, sampling and assaying to determine the value of the production sold, and freight payable by the buyer to a carrier (not the Operator or producer)), shall be allowed as deductions in arriving at the "gross proceeds" as that term is used herein. No costs of the Operator or Producer are deductible in arriving at the "gross proceeds" as that term is here used.

The term "treatment processes" means those processes (such as milling, concentrating, smelting, refining, or equivalent, but excluding fabricating or manufacturing) applied to the crude ore or other production after it is extracted from the ground to put it into a commercially marketable form.

(2) 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.

(d) Unsold production.--If any production (ore, concentrate, metal, or equivalent), after the lapse of six months from the date the ore was extracted from the ground, remains neither sold nor used 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, concentrate, metal, or equivalent) it is in when the Government elects to require computation and payment. If any production is used 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 thereof in the form in which and at the time 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) Lien for payment.--To secure the payment of royalty (see Article 7(b)), the Operator hereby grants to the Government a lien upon his interest in the land and upon any production of minerals and metals therefrom until the royalty claim is extinguished by lapse of time or is fully paid.

(f) Notice to purchasers.--The Operator or producer 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 Government, and this estimate shall be final and binding upon the Operator or producer.

(g) No obligation to produce.--Nothing in this contract shall be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any production operations.

(h) Government not obligated to buy.--Nothing in this contract shall be contrued as imposing any obligation on the Government to purchase any minerals and metals mined or produced from the land.

ARTICLE 8. 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, and any reasonable and necessary cost thereof will be treated as an allowable cost of the exploration. After the completion of the work, termination of the Government's obligation to contribute, or when such property is not being used for the work, the Operator shall not use it elsewhere without the written consent of the Government and without paying a reasonable rental to be fixed by the Government for its proportionate interest.

(c) Disposal of property.--Upon the completion of the work, 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, sale to others, purchase by the Operator, or sale or transfer to 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 that cost more than $500, and shall not sell at less than 25 percent of the purchase price any item of property that 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 offers. Property remaining upon any termination of the work shall be considered in groups or categories (such as drill steel, explosives, pipe, or rail), 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 exploration.

(d) Default of the Operator re disposal.--If within 90 days after the completion of the work, termination of the Government's obligation to contribute to costs, or after the property is no longer needed for the work, 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:

(1) in writing extend the time within which the Operator must dispose of or liquidate the property;

(2) by written notice to the Operator, place upon such property what it determines to be 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; and

(3) 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 9. Termination of the Government's obligations.--(a) If the Government determines that operations at any time have failed to achieve anticipated results and further work is 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 final accounting and reporting; and

(2) the Operator shall be free of all obligation to prosecute the work other than such as may be necessary and incidental to final accounting and reporting.

(b) If the Government determines that the Operator is 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 final accounting and reporting; and

(2) the Operator shall be free of all obligation to prosecute the work other than such as may be necessary and incidental to final accounting and reporting.

The Government may also avail itself of any other remedy the law may provide for breach of contract, including the right to rescind the contract and to demand repayment of all moneys contributed by the Government under the contract.

(c) The giving of any notice by the Government under the provisions of this Article 9 shall not affect the Government's rights as provided for in the contract with respect to royalty and liens to secure the payment thereof, and such rights shall be fully preserved.

(d) The determinations of the Government are subject to appeal under Article 13.

ARTICLE 10. Notices to be given by the Government may be delivered to the Operator, or may be sent by certified 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 11. 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 12. Nondiscrimination in Employment. The provisions respecting nondiscrimination in employment which are required by section 301 of Executive Order 10925, dated March 6, 1961 as amended and supplemented are attached hereto as Exhibit B and are hereby incorporated in and made a part of this contract.

ARTICLE 13. Disputes.--Any dispute arising under this contract which is not disposed of by agreement shall be decided by the Director, [redacted]* who shall reduce his decision to writing and mail or otherwise furnish a copy thereof to the Operator. The decision of the Director, [redacted]* shall be final and conclusive unless, within 30 days from the date of receipt of such copy, the Operator mails or otherwise furnishes to the Director, [redacted]* a written appeal addressed to the Secretary of the Interior. The decision of the Secretary or his duly authorized representative for the determination of such appeals shall be final and conclusive unless determined by a court of competent jurisdiction to have been fraudulent, or capricious, or arbitrary, or so grossly erroneous as necessarily to imply bad faith, or not supported by substantial evidence.

The term "Director, [redacted]*," as used herein includes his duly authorized representative.

ARTICLE 14. Work Hours Act of 1962 - Overtime Compensation.--This contract, to the extent that it is of a character specified in the Work Hours Act of 1962 (Public Law 87-581, 76 Stat. 357-360) and is not covered by the Walsh-Healey Public Contracts Act (41 U.S.C. 35-45), is subject to the following provisions and to all other provisions and exceptions of said Work Hours Act of 1962.

(a) Overtime requirements.--No Operator or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any laborer or mechanic to be employed on such work in excess of eight hours in any calendar day or in excess of forty hours in any workweek unless such laborer or mechanic receives compensation at a rate of not less than one and one-half times his basic rate of pay for all hours worked in excess of eight hours in any such calendar day or in excess of forty hours in any such workweek, as the case may be.

(b) Violations; liability for unpaid wages; liquidated damages.--In the event of any violation of the clause set forth in subparagraph (a) of this paragraph, the Operator and any subcontractor responsible therefor shall be liable to any affected employee for his unpaid wages. In addition, such Operator and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for

*** U. S. Geological Survey**

liquidated damages. Such liquidated damages shall be computed, with respect to each individual laborer or mechanic employed in violation of the clause set forth in subparagraph (a) of this paragraph, in the sum of $10 for each calendar day on which such employee was required or permitted to work in excess of eight hours or in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in subparagraph (a) of this paragraph.

(c) Withholding for unpaid wages and liquidated damages.--The Office of Minerals Exploration may withhold or cause to be withheld, from any moneys payable on account of work performed by the Operator or subcontractor, such sums as may administratively be determined to be necessary to satisfy any liabilities of such Operator or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in subparagraph (b) of this paragraph.

ARTICLE 15. Copeland (Anti-Kickback) Act--Nonrebate of wages.--The regulations of the Secretary of Labor applicable to contractors and subcontractors (29 CFR, Part 3), made pursuant to the Copeland Act, as amended (40 U. S. C. 276c) and to aid in the enforcement of the Anti-Kickback Act (18 U. S. C. 874) are made a part of this contract by reference. The Operator will comply with these regulations and any amendments or modifications thereof and will be responsible for the submission of affidavits required of independent contractors thereunder. The foregoing shall apply except as the Secretary of Labor may specifically provide for reasonable limitations, variations, tolerances, and exemptions.

ARTICLE 16. Changes and added provisions.--

_____

_____

_____

_____

Executed in quintuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

_____
(Operator)

MOUNTAIN COPPER COMPANY OF CALIFORNIA

By_____

By_____

Acting Director
U. S. Geological Survey

Title_____

_____

I,_____, certify that I am the
(Name)

_____ secretary of the corporation named as Operator herein; that

_____, who signed this contract on behalf of the Operator, was then
(Name)

_____ of said corporation; that said contract was duly signed for
(Title)

and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

_____

[CORPORATE SEAL]

We were going to add claims in Annex I (see letter 6/16/65). No further correspondence received on this.

Docket Copy

SECOND DRAFT
RMSmith/mm 6/29/65

EXPLORATION CONTRACT
MOUNTAIN COPPER COMPANY OF CALIFORNIA
OME-6427

ANNEX I

The land, including all rights pertaining thereto, referred to in Article 2 of the contract consists of twenty (20) unpatented lode mining claims in secs. 10, 14, and 15, T. 26 N., R. 52 E., MDB&M, Mineral Hill mining district, Eureka County, Nevada.

The outer boundary of the claims is outlined in green on Exhibit 1, entitled "Geologic Map, Mineral Hill Dist. . . ," attached hereto and made part hereof.

The claims are recorded in the Office of the County Clerk and Recorder, Eureka, Nevada, as follows:

Unpatented Claims	Book	Page
Moco No. 5	6	408
" No. 6	6	409
" No. 7	6	410
" No. 8	6	411
" No. 9	6	412
" No. 10	6	413
" No. 11	6	414
" No. 12	6	415
" No. 13	6	416
" No. 14	6	417
" No. 15	6	418
" No. 16	6	419
" No. 17	6	420
" No. 18	6	421
" No. 19	6	422
" No. 20	6	423
" No. 21	6	424
" No. 22	6	425
" No. 23	6	426
" No. 24	6	427

The Operator is the owner of the unpatented claims listed above under the terms of a quitclaim instrument executed June 15, 1965, by the locator of the claims, Richard L. ~~[illegible]~~ Coppage, 126 Homewood Drive, Concord, California.

RMSmith/mm
DRAFT 7/9/65

EXPLORATION CONTRACT
MOUNTAIN COPPER COMPANY OF CALIFORNIA
ONE-6427

EXHIBIT A

The purpose of this project is to explore by core drilling from prepared surface drill sites for silver-bearing ore bodies in or along the Roberts Mountain Thrust Fault and in the Devonian carbonate rocks west of and below the Fault in the area of Mineral Hill and Cave Hill where sub-surface mineralization is indicated by surface electrical (self-potential) or geochemical (zinc) anomalies.

General Provisions

All core drill holes shall be started not lesser than NX wireline size (1-23/32" diameter) and may be reduced as hole conditions require to standard BX or BX wireline size, and shall be completed not less than Standard AX core size (approximately 1-1/8") or equivalent wireline size.

Facilities shall be provided for recovering drill sludge, and such sludge shall be retained when drilling in significantly mineralized ground.

The drill core shall be stored in boxes identified as to hole number with markers in the core sections indicating the depths represented.

Significantly mineralized core shall be split and one split assayed for silver and for base metals as warranted. Whenever the core recovery is found to be less than 60 percent, a split of the

corresponding retained sludge and a split of such core as ~~ms~~ may have been recovered shall be assayed separately and the assay results combined according to standard practice to represent a single sample. The remaining core shall be stored in proper sequence with the unsampled core, and the remaining sludge shall be stored in suitable containers properly identified as to source and location. The stored core and the sludge samples shall be made available for Government inspection and possible use. With prior Government approval, the Operator may dispose of the stored core and samples.

All drill holes shall be logged, and copies of the logs of completed holes together with plans and sections showing assays shall be furnished monthly to the Government.

No drilling shall be done within 200 feet of the exterior boundaries of the land outlined on the maps previously referred to.

The Operator shall provide such supervision, labor, and technical services as may be required to complete the work in a satisfactory manner.

The location, direction, and extent of each work item shall be subject to Government approval.

<u>Description of the Work</u>

The work shall consist of bulldozing access roads to four drill sites, of leveling the sites, and of drilling not less than four and not more than eight holes aggregating not more than 8,000 feet of core drilling.

The drill sites shall be located on the hanging wall side of the Roberts Mountain Thrust Fault. One hole shall be drilled from each site; and depending upon the results of the first hole, a second hole may be drilled before proceding to the next site.

The drill holes shall be inclined so as to cut the Fault at depths of not less than 300 or more than 1,000 feet below the surface of the land, but no hole shall be drilled deeper than 1,000 feet without prior approval of the Government confirmed in writing.

The approximate locations of the four drill sites, A, B, C, and D, and the approximate directions of the drill holes are indicated in red on Figure 2, entitled " . . . Mountain Copper Co. of California, Moco et al., Claims, Mineral Hill District . . .."

Estimated Costs of the Work

* Indicates a maximum

Actual Costs

Category (1) Independent Contracts

Mobilization and demobilization, one surface drill unit	$ 350.00*
Core drilling, 8,000 feet	60,500.00

Depth	Size	Carbonate rock	Siliceous rock
0 - 500'	NX	$5.75/ft.	$7.75/ft.
	BX	5.25	7.25
	AX	4.90	6.90
500'- 750'	NX	6.50	8.50
	BX	6.00	8.00
	AX	5.65	7.65
750'-1,000'	NX	7.25	9.25
	BX	6.75	8.75
	AX	6.40	8.40

Bit cost in excess of $1.00/ft.,		
2,000 feet @ $0.15/ft.	300.00	
Moving between and setting up drill at drill sites,		
25 hours @ $12.00/hr.	300.00	
Cementing and redrilling, 300 hours @ $12.00/hr.	3,600.00	
Cement or cement substitutes, 300 sacks		
@ $7.50/sk.	2,250.00	
Water haulage, 4,000 miles @ $0.12/mi.	480.00	
Truck rental, 10 months @ $225.00/mo.	2,250.00	
Casing, 160 feet @ $3.00/ft. 1/	480.00	$70,510.00

Category (2) Personal Services

None except:

Subcategory (a) Supervision and Technical Services

1 Supervisor-geologist-engineer		
10 months @ $840.00/mo.	$8,400.00	
1 Outside consultant, 2 days/mo.		
20 days @ $65.00/day	1,300.00	$ 9,700.00

Subcategory (b) Labor

1 Laborer, 400 hours @ $2.50/hr.	$1,000.00	$ 1,000.00
		$10,700.00

Category (3) Operating Materials and Supplies

None except:

Core boxes, 800 @ $0.55/each	$ 440.00	
Sample sacks, 1,000 @ $0.035/each	35.00	
Core splitter, one @ 50% of purchase price ($70.00) 2/	35.00	$ 510.00

Category (7) Miscellaneous

None except:

Payroll taxes, F.I.C.A. Insurance, etc.		
@ 13% of payroll (rounded)	$1,220.00	
Travel expense, outside consultant		
Per diem, 2 days/mo., 20 days @ $10.00/day	200.00	
San Francisco, Calif., to Elko, Nev., and return by air, 10 months @ $71.72/mo. (rounded)	720.00	
Transportation of samples, 250 samples @ $0.08/each	20.00	
Assays for gold and silver, 250 @ $3.00/assay	750.00	
Assays for base metals, 120 @ $1.75/assay	210.00	$ 3,120.00
Total Estimated Actual Costs		$84,840.00

Fixed Unit Costs

Mobilization and demobilization, one Caterpillar D-8 or equivalent size bulldozer 3/	$ 400.00	
Bulldozing access roads and drill sites, 40 hours @ $18.00/hr.	720.00	
Office expenses, 10 months @ $90.00/mo. 4/	900.00	
Total Estimated Fixed Unit Costs		$ 2,020.00
Total Estimated Costs of the Work		$86,860.00
Government Participation @ 75%		$65,145.00

1/ The Government will not contribute to the cost of casing left in a drill hole at the request of the Operator.

2/ Notwithstanding the provisions of Article 8, the Government retains no interest in the salvage value of this item after completion of the work.

3/ The completed job is the unit of work.

4/ Includes all costs whatsoever that would otherwise be allowable costs under Categories (2) through (7).

MOUNTAIN COPPER COMPANY
of California

100 MOCOCO ROAD
MARTINEZ, CALIFORNIA
PHONE: 228-5530
AREA CODE: 415

June 16, 1965

OFFICIAL
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O. M. E.
RECEIVED
JUN 18 1965

INITIALS	CODE
RMO.	1207

Mr. George C. Selfridge
Chief, Division of Exploration Operations
Office of Mineral Exploration
Washington 25, D. C

Dear Sir:

Re: OME Docket #6427

As requested by your San Francisco office we are sending two copies of an assignment by R. L. Coppage to Mountain Copper Company for the mining claims represented in the above numbered OME document.

We have also been told of your recommendation to reexamine these claims, particularly in reference to their size, and to correct any deficiencies therein. Please be advised that we will immediately take any steps needed to solidify our hold on this ground.

Sincerely yours,

C. W. McClung
President

CWM:ea
cc: Paul Fillo
San Francisco

Encls: (2)

For valuable consideration, receipt of which is hereby acknowledged, Richard L. Coppage does hereby release and forever quitclaim to Mountain Copper Company of California and unto its successors and assigns all his right, title and interest in and to the following described mining claims, together with the tenements, hereditaments and appurtenances, situate in Mineral Hill Mining District, Eureka County, State of Nevada, to wit:

Name of Lode Mining Claim	Recorded In Official Records of Eureka County, Nevada			
	File No.	Book	Page	Date
Moco # 5	40585	6	408	January 22, 1965
Moco # 6	40586	6	409	January 22, 1965
Moco # 7	40587	6	410	January 22, 1965
Moco # 8	40588	6	411	January 22, 1965
Moco # 9	405869	6	412	January 22, 1965
Moco #10	40589	6	413	January 22, 1965
Moco #11	40590	6	414	January 22, 1965
Moco #12	40591	6	415	January 22, 1965
Moco #13	40592	6	416	January 22, 1965
Moco #14	40593	6	417	January 22, 1965
Moco #15	40594	6	418	January 22, 1965
Moco #16	40595	6	419	January 22, 1965
Moco #17	40596	6	420	January 22, 1965
Moco #18	40597	6	421	January 22, 1965
Moco #19	40598	6	422	January 22, 1965
Moco #20	40599	6	423	January 22, 1965
Moco #21	40600	6	424	January 22, 1965
Moco #22	40601	6	425	January 22, 1965
Moco #23	40602	6	426	January 22, 1965
Moco #24	40603	6	427	January 22, 1965

Richard L. Coppage
Signature
Dated 6-15-65

Executed in the presence of R. S. Fowler

STATE OF CALIFORNIA
)ss.
County of Contra Costa)

On 15 June 1965 before me, the undersigned, a Notary Public in and for the State of California personally appeared Richard L. Coppage known to me to be the person whose name is subscribed to the within instrument and acknowledged that he executed the same, witness my hand and official seal.

W. T. Jansen
W. T. JANSEN, Notary Public
State of California
My Commission Expires May 12, 1966

(Spa

For valuable consideration, receipt of which is hereby acknowledged, Richard L. Coppage does hereby release and forever quitclaim to Mountain Copper Company of California and unto its successors and assigns all his right, title and interest in and to the following described mining claims, together with the tenements, hereditaments and appurtenances, situate in Mineral Hill Mining District, Eureka County, State of Nevada, to wit:

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Moco # 8	40588	6	411	January 22, 1965
Moco # 9	405889	6	412	January 22, 1965
Moco #10	40589	6	413	January 22, 1965
Moco #11	40590	6	414	January 22, 1965
Moco #12	40591	6	415	January 22, 1965
Moco #13	40592	6	416	January 22, 1965
Moco #14	40593	6	417	January 22, 1965
Moco #15	40594	6	418	January 22, 1965
Moco #16	40595	6	419	January 22, 1965
Moco #17	40596	6	420	January 22, 1965
Moco #18	40597	6	421	January 22, 1965
Moco #19	40598	6	422	January 22, 1965
Moco #20	40599	6	423	January 22, 1965
Moco #21	40600	6	424	January 22, 1965
Moco #22	40601	6	425	January 22, 1965
Moco #23	40602	6	426	January 22, 1965
Moco #24	40603	6	427	January 22, 1965

Richard L. Coppage
Signature
Dated 6-15-65

Executed in the presence of H S Fowler

STATE OF CALIFORNIA
)ss.
County of Contra Costa)

On 15 June 1965 before me, the undersigned, a Notary Public in and for the State of California personally appeared Richard L. Coppage known to me to be the person whose name is subscribed to the within instrument and acknowledged that he executed the same, witness my hand and official seal.

W T Janssen (Seal)
W. T. JANSSEN, Notary Public
State of California

My Commission Expires May 13, 1968

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

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June 7, 1965

Memorandum

To : Chief, Division of Field Operations, OME, Washington, D. C.

From : Acting Field Officer, OME, Region II

Subject: OME-6427 (Silver)
Mountain Copper Co. of Calif.
Moco Claims
Eureka County, Nevada

Enclosed are the original and one copy of the Field Examination Report on the subject application. The report recommends that the exploration program warrants Government assistance.

Their primary objective is to explore the Roberts Mountain thrust fault zone and the carbonate rocks under the thrust zone. The first two drill holes are designated to be drilled on the hanging wall side in order to obtain some conclusive information on the attitude of the thrust zone.

The program will cost about $77,195.00 of which the Government's share at 75 percent will be $57,896.25.

With reference to your letter of April 27, 1965, regarding the applicant's letter of May 24, 1965 under item 2 which mentioned when they will continue the additional geophysical work, as of this date, where drill site A is shown on Figure 2, the self-potential geophysical work is completed and the area is favorably outlined by the high anomalous showing.

The road heading east from State Highway 20 is a county road which the Eureka County Maintenance Crew will repair to or near the project area. The applicant owns the D-8 caterpillar; it is parked in their equipment yard at 100 Mococo Road, Martinez, California. The mobilization and demobilization costs of the D-8 are high. The applicant based this figure on a similar transportation cost to Oregon from Martinez. He said that regardless of what the final figures that the Government will propose, the D-8 will be on the property to carry on additional trenching on the southern end of the property, while the drilling is being conducted on the northern end of the property.

The applicant was advised about the low footage of core drilling per shift. The average core footage on the Cortez Pixie Claims was 18 feet per shift.

Probably 20 feet per shift should be used for this project.

On the cost estimate I have used two days per month for consulting services, which should be adequate for the project. The consultant for the applicant is E. H. Lindsay who is associated with Manning W. Cox Associates (Consultant Geologists), 57 Post Street, San Francisco, California, telephone YUkon 2-1436.

Paul V. Fillo

Paul V. Fillo

Enclosures

cc:
Chief, Div. of Field Operations, OME, Wash., D. C.

UNITED STATES
DEPARTMENT OF THE INTERIOR
STEWART L. UDALL, SECRETARY

OFFICE OF MINERALS EXPLORATION

REPORT OF EXAMINATION

by

THE ACTING FIELD OFFICER
REGION II

APPLICATION REPORT

OME-6427 (Silver)
Mountain Copper Company of California
Moco Claims
Eureka County, Nevada

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by

Paul V. Fillo
Acting Field Officer
OME, Region II

June 7, 1965

FIELD
EXAM REPORT

C O N T E N T S

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I L L U S T R A T I O N S

Figure 1----------Location Map

Figure 2----------Drilling Exploration Map

INTRODUCTION

Mountain Copper Company of California, 100 Mococo Road, Martinez, California applied to the Office of Minerals Exploration for Government assistance to explore the geologic target area south of the Mineral Hill erosional window of the Roberts Mountain thrust fault, Eureka County, Nevada. The applicant's original proposal consisted of a two-stage drilling program. The first stage included the drilling of two 1,000-foot holes to intersect the thrust fault and to test mineralization of the lower plates (carbonates). Stage II consisted of 8 to 10 core drill holes with an aggregate of 8,000 feet to evaluate the extent of the mineralized zone. The proposed program was estimated to cost $93,671.00.

The revised proposed drilling program is under one stage, with four drill sites designated (Fig. 2) which have an aggregate maximum footage of 8,890 feet, at an estimated cost of $108,330.00.

The application was referred to the Field Division of Field Operation, and an examination was made by Paul V. Fillo, Acting Field Officer, OME, Region II, on March 5, 1965 accompanied by C. W. McClung, President; V. P. Bluege, Director of Exploration; and, R. L. Coppage, geologist of Mountain Copper Company of California.

SUMMARY

The Moco property is located about 1,500 feet south of Mineral Hill mine in the southern part of the Sulphur Range where a segment of the Roberts thrust fault is exposed. The thrust trends south and east of Mineral Hill and south of Cave Hill. The thrust segment contains the upper plate of Ordivician Vinini chert over Devonian limestones. The Vinini chert

is black, finely crystalline, highly fractured rock with shale and shale limestone lenses. The limestone of the district is blue-grey to white, and, in places, massive calcite. The ore deposits of Mineral Hill consist of argentite, barite, calcite, quartz, silver chloride, gray copper, galena, zinc blende, copper carbonates, lead carbonate, and iron oxides. The ore bodies are chambers or irregular replacement deposits cutting across the bedding of limestone.

The applicant proposes to explore the Roberts Mountain thrust fault by diamond drilling two diamond core drill holes from the hanging wall side to determine the attitude of the thrust. Subsequent diamond drilling will determine where further drilling will be made along the thrust. An aggregate of 8,890 feet of diamond drilling has been proposed to test the thrust fault from their favorable geochemical and self-potential geophysical anomalies along and adjacent to the fault, since it is located near domical windows where ore deposits are localized. The thrust fault can be explored effectively by diamond core drilling.

RECOMMENDATIONS

The program of exploring the ore zone in the Roberts Mountain thrust fault (carbonate rocks below the thrust) appears to be justified in delineating the grade of ore enrichment and the size and depth of the ore body.

I recommend that the Government enter into an OME contract with Mountain Copper Company of California to provide 75 percent of the cost of the diamond core drilling which consists of 8,000 feet.

The total cost is estimated to be about $77,195.00 of which the Government's share at 75 percent would be $57,896.25. To facilitate administration of the contract, the work should be based on footage fixed-unit costs.

Core recovery may be difficult at times in the upper plates due to the cherty, fractured rock formations as well as the altered shale.

LOCATION, ACCESSIBILITY, AND LOCAL FACILITIES

The Moco property is located approximately 50 miles north of Eureka, Nevada on State Highway 20 (Fig. 1). The property may be reached from Eureka by traveling north on State Highway 20, 45.6 miles; then turn right onto a county road (unimproved dirt road) and travel 5.6 miles to the property. It is located in secs. 10, 14, and 15, T. 26 N., R. 52 E., MDB&M, Eureka county, Nevada. Experienced mine labor and supplies are available in Eureka and Carlin, Nevada which is 45 miles north of the property on State Highway 20.

Winter operation in the area is sometimes impeded, and because of snow, access may be difficult, though year-round operation is considered feasible. Water for the diamond drilling program will be available from Cave Spring on the southern end of the property.

PROPERTY 1/

History and Production

The property has never been mined under actual mining conditions. There are several shallow open cuts and test pits along the fault zone that were made in the early days. In 1962, Union Carbide Company drilled three diamond drill holes, but apparently their drill results were negative. These drill holes are located in the lower plates where they were probably prospecting for intrusive contacts with the limestone. There has

---

1/ Applicant's report.

been no production on the property and at present it is inactive.

Ownership

The property consists of 20 unpatented lode claims which are recorded in the Office of the County Clerk and Recorder, Eureka, Nevada as follows:

Unpatented Claims	Book	Page
Moco No. 5	6	408
" No. 6	6	409
" No. 7	6	410
" No. 8	6	411
" No. 9	6	412
" No. 10	6	413
" No. 11	6	414
" No. 12	6	415
" No. 13	6	416
" No. 14	6	417
" No. 15	6	418
" No. 16	6	419
" No. 17	6	420
" No. 18	6	421
" No. 19	6	422
" No. 20	6	423
" No. 21	6	424
" No. 22	6	425
" No. 23	6	426
" No. 24	6	427

The unpatented lode claims are owned and held by the applicant.

Financial Eligibility

The applicant has submitted evidence accompanying the application that they were unsuccessful in securing a loan for exploration purposes from two banking institutions. They propose to finance their share of the exploration costs from company funds currently on hand.

Mine Development

There have been no actual mining operations on the property where exploration is proposed. Some surface prospecting has been done along the

thrust fault zone by means of shallow pits, trenches and three diamond drill holes. No ore has ever been produced and shipped from the property. There are no existing buildings.

North of the property about 2,000 feet, is the well known Mineral Hill Mine which produced over $2,500,000.00 of silver from the late 1800's to 1913. The mine is idle at the present time.

GEOLOGY 2/

The property is located in the Mineral Hill Mining District, south of Mineral Hill mine, in and near one of the erosional windows of the Roberts Mountain thrust fualt. The thrusting took place during the Mississippian time, and the post-thrust uplift and doming caused the upper plate to be removed by erosion so that the carbonate rocks of the lower plate were exposed. The upper plate consists of Paleozoic volcanics, cherts, shales, and shaly limestones. The lower plates are of Paleozoic carbonate rocks principally argillacious limestone, dolomite, and quartzite. The present geologic data indicates that the thrust fault zone dips east and probably will steepen from 40°. The property's west contact is the Roberts Mountain thrust, and on the east, beyond the applicant's claims, the contact is a normal fault according to the author's open file report.3/ Since the lower plates occur on both sides of the sliver of upper plates, possibly the thrust may intersect the normal fault at a shallow depth. The drill sites were selected on the basis of the applicant's geochemical and geophysical analysis.

2/ Roberts, R. J. U.S.G.S. P.P. 400, 1960, pp. B 17 - B 19.
3/ Applicant's report.

Sampling

No attempt was made to sample the property because of the insignificant showing at the surface.

Ore Reserves

There are no ore reserves on the property for which exploration is proposed. Ore is expected at considerable depth where geological conditions are thought to be favorable.

EXPLORATION

The applicant's revised proposed drilling project consists of eight drill holes totaling 8,890 feet at an estimated total cost of $108,330.00. The proposed division of the applicant's work is as follows:

Independent Contracts:

Drilling, 8,890 ft. @ $8.25/ft.	$73,342.00	
Mobilization	350.00	
Cement time, 600 hrs. @ $12/hr.	7,200.00	
Cementing materials, 360 sacks @ $7.50 ea.	2,800.00	
Truck rental $225 @ 12 mos.	2,700.00	
Water haulage, 20 mi./day X 300 X $.12/mi.	720.00	
Casing lost, 20'/hole @ $2.95 X 8 holes	472.00	
Moving to drill sites Nos. 2, 3, 4, 48 hrs. @ $12/hr.	576.00	
Total		$ 88,160.00
Bulldozer work		
Mobilization & demobilization (D-8)	1,000.00	
40 hrs. @ $25/hr.	1,000.00	
Total		2,000.00
Personal Services		
Project Supervisor, 12 mos. @ $840/mo.	10,080.00	
Consultant Geologist, 3 days/mo. @ $150/day X 12 mos.	5,400.00	
Total		15,480.00
Operating Supplies		
899 Core boxes @ $.55 ea.	490.00	
Core splitter	70.00	
Core storage facility	100.00	
Total		660.00
		$106,300.00

orig. project $105

	(carried over):	$106,300.00
240 samples assayed for silver @ $3.00 ea.	720.00	
Workmen's compensation, 13% X $15,480	1,310.00	
		2,030.00
	Grand Total	$108,330.00

The above cost data is based on one diamond drill operating two shifts per day, five days per week for 12 months.

The estimated cost for deep drilling at an angle appears to be excessive to what OME normally allows. A moderate diamond core drilling program is warranted to test the thrust fault zone from four drill sites (Fig. 2). From these sites eight holes shall be drilled at an angle, and all of the holes will aggregate not more than 8,000 feet of drilling. No hole under the contract shall be drilled to a depth in excess of 1,000 feet. The drill hole location can be changed only upon Government approval, confirmed in writing, and only if information from completed holes indicates that it would be advantageous to the program.

Cost Estimate

An estimated cost of the diamond core drilling project is suggested:

(Boyles Bros. Bid):

Construct an access road and prepare drill sites 40 hrs. @ $18/hr.			$ 720.00
Transportation of bulldozer			400.00
Mobilization of 1 drill unit, include set-up of 1st hole			350.00
Diamond core drilling, size and rates	NX	BX	
0 - 500 ft.	5.75	5.25	
500 - 750 ft.	6.50	6.00	
750 - 1,000 ft.	7.25	6.75	
(drilling in siliceous limestone, quartzite, rate increased $2.00/ft. for each increment.)			
		Subtotal	$1,470.00

about 6,000 feet will be in chert
700 av. min. on long holes
550 min 800 max on short holes (carried over) $ 1,470.00 ✓

Assuming the first 500 ft. will be in siliceous limestone, quartzite, and chert, rates will be:

4,000 ft. @ $7.75 ft.	31,000.00	✓
2,000 ft. @ $6.00 ft. @ 8.00	12,000.00	16,000
2,000 ft. @ $6.75 ft.	13,500.00	✓
plus Bit cost in excess of $1.00 per foot 2000 @ 0.15		300
		60,800
Cementing & redrilling, 300 hrs. @ $12/hr.	3,600.00	
Water hauling, 20 mi./day X 200 days X$.12/mi.	480.00	2,780
Truck rental, include driver's wages, $225/mo. X 10 mos.	2,250.00	
Moving to drill sites A, B, & C, 24 hrs. @ $12/hr. 25 hrs	288.00	300
Casing lost, 20' hole @ $2.95 X 8 holes @ $ 3.00	472.00	480

Personal Services

Regular employee Project Supervisor, 10 mos. X $750/mo.	7,500.00	✓
* Consulting Geologist, 2 days/mo. @ $125/day X 10 mos.	2,500.00	2620
incidental Workmen's Compensation, FICA, etc., 13% X 7500 (18%?)	975.00	

Miscellaneous 120 assays for base metals @ 1.75 210

240 samples assayed for gold and silver @ $3.00 ea.	720.00	
incidental 800 core boxes @ $.55 ea.	440.00	
" 720 sample sacks @ 0.03		22
" 240 sample express @ 0.40		96
Total	$77,195.00	Total 82,013

* Consultant 2 days/mo. @ $65.00 130.00
2 per diem @ $16.00 32.00
1000 mi @ $0.10 100.00
10 months @ 262.00 = 2620.00

Incidental Cost per foot of drilling - 8,000 feet @ $0.19 1,520.00

Payroll charges	975
Core boxes	440
Sacks	22
Express	96

8,000) 1533 (0.192

rounded to $0.19
so total project $82,000

for Actual cost contract, add:
Cement 300 sks @ $7.50

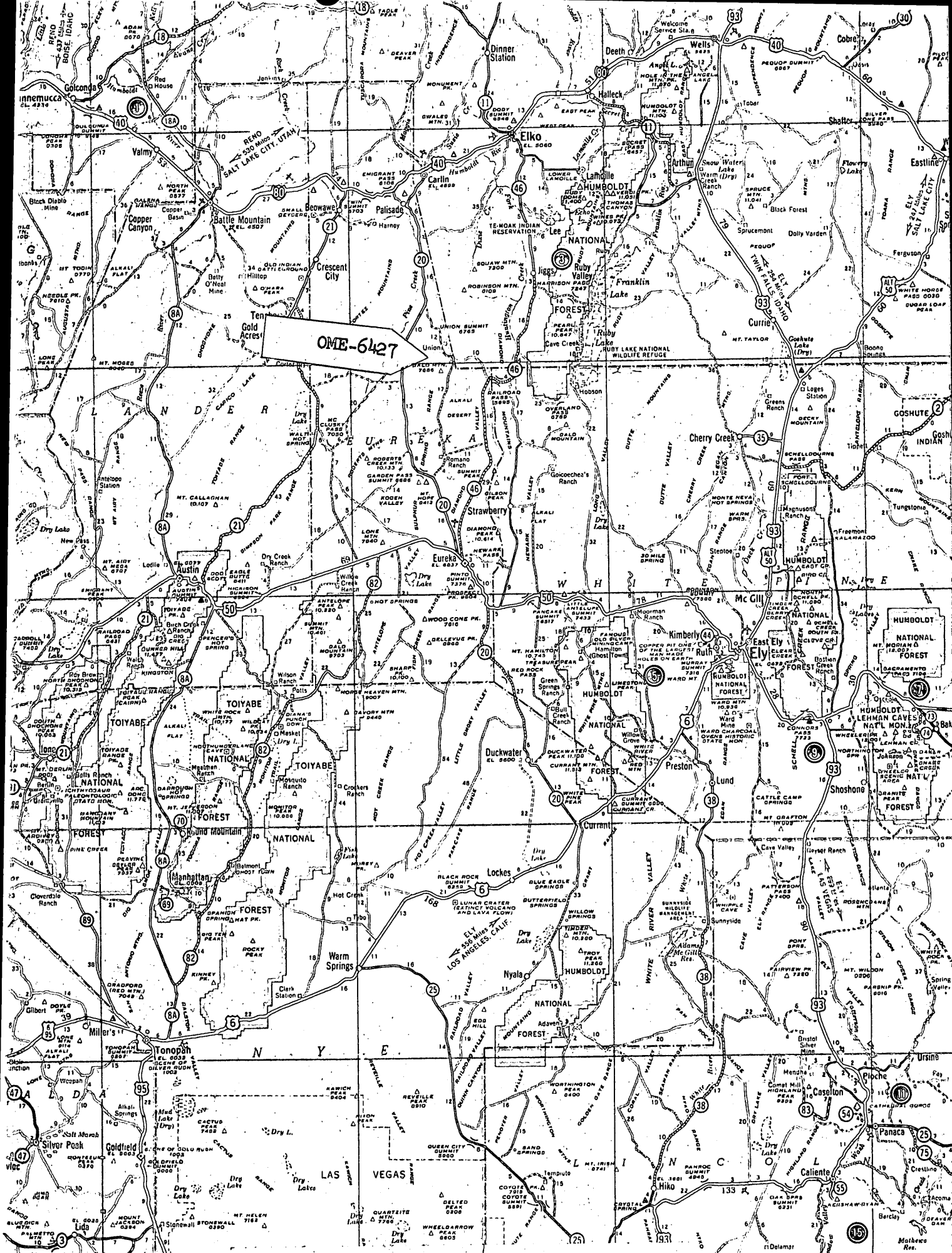

FIGURE 1 - LOCATION MAP

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

June 1, 1965

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Memorandum

To : Chief, Division of Field Operations, OME, Washington, D. C.

From : Acting Field Officer, OME, Region II

Subject: OME-6427 (Silver)
Mountain Copper Co. of Calif.
Moco Claims
Eureka County, Nevada

Enclosed is a copy of a bulldozer bid, dated May 19, 1965, from the subject operator for your information and files.

Paul V. Fillo

Paul V. Fillo

Enclosure

cc:
Chief, Div. of Field Operations, OME, Wash., D. C.

Nevin Munson

ELY, NEVADA

May 19, 1965

Vincent P. Bluege
Mountain Copper Company
Martinez,
California

Dear Mr. Bluege

Would like to submit the following bid on equipment work at Mineral Hill:

[illegible]	@ $ 13.50 per hour	
Transportation	@ 1.00 per mile one way	[illegible] miles

Thank you,

Nevin Munson and Son

by Nevin Munson

[illegible]

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

May 28, 1965

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Memorandum

To : Chief, Division of Field Operations, OME, Washington, D. C.

From : Acting Field Officer, OME, Region II

Subject: OME-6427 (Silver)
Mountain Copper Co. of Calif.
Moco Claims
Eureka County, Nevada

→ brown envelope left side of docket

Enclosed is a copy of a letter and a map from the subject applicant for your information and files. A favorable examination report is in preparation.

Paul V. Fillo

Paul V. Fillo

Enclosures

cc:
Chief, Div. of Field Operations, OME, Wash., D. C.

MOUNTAIN COPPER COMPANY
of California

100 MONGO ROAD
MARTINEZ, CALIFORNIA
PHONE: 228-6530
AREA CODE 415

May 24, 1965

Ref: OME Docket
Number 6427

Mr. Paul Fillo
Acting Field Officer
U.S. Department of the Interior
Office of Minerals Exploration
450 Golden Gate Avenue
Box 36012
San Francisco, California 94102

Dear Mr. Fillo:

The following are the modifications and explanations pertaining to OME Docket Number 6427, which you requested at our last meeting on May 17, 1965.

1. Access Road

The access road referred to on page 5, section b, paragraph 1, exhibit #6, of the amended application is a County road. Mr. E. Luetzinger, County Road Commissioner of Eureka, Nevada has advised Mountain Copper Company that the County will improve the road when we notify him that we are going to bring in equipment. The four days of bulldozer time allocated for this can be eliminated.

2. Additional Geophysical Work:

As mentioned on page 3, section a, paragraph one of the amended application no funds are applied for to do the work. The self potential work completed to date corresponds closely with the high anomalous area of the geochemical survey and

this appears to be a favorable target for holes referred to as A1 and A2. Additional geophysical work will be done to extend the self potential survey to the southernmost claim boundary before drilling holes B1, B2, C1, C2, D1 and D2, and quite possibly this additional S-P survey will be done at the time when drill sites A, B, C, and D are being prepared.

3. Bulldozer Work Bids:

Enclosed is a bid from Nevin Munson. We have had work done with this H D 9 dozer and it proved to be inadequate. We therefore plan to use our own D8 Cat with blade and ripper. The mobilization costs and the usual hourly rate for D8 Cat rental are shown in the summary of costs.

4. Wire Line Drill Sizes:

In the amended application on page 4, paragraph 2 and page 5, paragraph 1 reference is made that the holes are to be collared NX and finished AX (wire line). It is our intention to obtain the core in the larger diameter sizes (NX and BX - wire line) and only go to AX wire line if necessary. The approximate diameters of the cores from NX, BX and AX (wire line) are 2", 1-7/16" and 1-1/16" respectively.

5. Flexibility of Drilling Program:

Enclosed is a plan showing; our proposed drill sites A, B, C, and D, Geochemical and Geophysical anomalies, and the thrust fault. This plan is the same scale as the contour-geologic map (exhibit 1), the contour lines are not shown and it is on a coordinate grid.

The aggregate footage to be drilled amounts to 8890 feet in eight holes with no hole planned more than 1320 feet deep on the incline. (Sections of the proposed drilling are in the amended program as exhibits 2, 3, 4, and 5). The drill program was planned on the basis that the thrust fault was dipping

moderately to the east. If hole A1 shows the fault to be dipping more steeply, or even having a westerly dip the rest of the holes will be changed accordingly. Any future changes of drill hole placement will be explained by referring to the grid plan and will be described as a point north and east from certain coordinates and we will also accompany any changes made with sections similar to exhibits 2, 3, 4, and 5.

6. Timing:

In answer to your questions regarding the timing, our original application (page 6, section V c, paragraph 3) used a drilling rate of 20 feet per shift as this was to be drilled from the west of the thrust fault in limestone. When we decided to drill from east of the thrust fault our amended application (page 5, section c, paragraph 1) showed a drilling rate of 15 feet per shift. This change was made because the Boyles Brothers representative estimated the penetration rate in the chert would be as low as 10 feet per shift and also drilling bid costs were increased $2.00 per foot. We used a 15 foot per shift as a compromise because we feel that some of the rock considered to be chert is a shale and should drill faster than the slow estimate of the drill contractor's representative.

I trust these explanations will satisfy your requirements.

Very truly yours,

V. P. Bluege
Director of Exploration

VPB:ea
attachment

MOUNTAIN COPPER COMPANY
OF CALIFORNIA
MARTINEZ, CALIFORNIA

SUMMARY OF COSTS FOR 8890 FEET OF DRILLING

(a) Independent Contracts

Drilling: 8890' @ $8.25/ft.	$ 73,342	
Mobilization:	350	
Cement Time: 600 hrs. @ $12.00/hr.	7,200	
Cement: 360 sacks @ $7.50/sack	2,800	
Truck Rental: $225 x 12 months	2,700	
Water Haulage: 20 mi./day x 300 das. x $.12/mi.	720	
Casing Lost: 20'/hole @ $2.95 x 8 holes	472	
Move to Drill Sites 2, 3, 4: 48 hrs. x $12.00/hr.	576	
(a) Total	$ 88,160	$ 88,160
Bulldozer Work: Mobilization & Demobilization - D8	1,000	
40 hrs. @ $25/hr, including operator	1,000	
	$ 2,000	$ 2,000

(b) Personal Services:

Project Supervision: 12 mos. @ $840	$ 10,080	(Subject to Payroll tax and Insurance)
Consulting Geologist: 3 das./mo @ $150/da. x 12 mo.	5,400	
(b) Total	$ 15,480	$ 15,480

(c)	Operating Supplies:		
	Core Boxes: $.55 / box @ 10'/box x 8890'	490	
	Core Splitter: Purchase Price	70	
	Core Storage Facility:	100	
	(c) Total	$ 660	$ 660
(d)	Operating Equipment:	none	
(e)	Initial Rehabilitation:	none	
(f)	New Buildings:	none	
(g)	Miscellaneous:		
	1. Core Analysis 240 samples @ $3.00/sample	720	
	2. 13% of project Supervision as workmen's compensation, employee liability insurance and payroll tax.	1,310	
	(g) Total	$ 2,030	$ 2,030
	Grand Total		$108,330

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
4/28	RMSmith	120
	GCS	130
4/28	Johnson	110
"	In leave	100
4/28	Car	220
		120

APR 28 1965

Memorandum

To: Acting Field Officer, Region II

From: Chief, Division of Exploration Operations

Subject: OME-6427 (Silver)
Mountain Copper Company of California
Moco Claims
Eureka County, Nevada

The amended application transmitted with your memorandum of April 13 has been noted. While we are not in a position to advise on the proposed project, we are gratified that the Applicant has concurred in the suggestions that you have discussed with him and with Ralph Roberts. Unquestionably a better project will result from a consideration of as many preliminary geologic data as are available.

Perhaps the project will be revised again after completion of the trenching and self-potential survey which were in progress at the time the amended application was prepared. Your report of examination will, of course, include the results of that work. If you recommend a contract, we would appreciate also your recommendations on the degree of flexibility needed to assure an effective project.

In the amended application we note that Stage II (the Applicant's Phase III) is dependent upon ". . . encouraging alteration zones or patterns." Inasmuch as the justification for the proposed Stage I is based largely on alteration, we wonder whether there is a good basis for a staged project. Your comments on the following operating details will also be appreciated: Road repair from Highway 20 to Mineral Hill is mostly on County land. Should we participate? Who owns the D-8 Caterpillar, and what are the mobilization and demobilization costs? Drill holes are to be finished AX wireline which is about equal to the old EX size. Will core recovery be adequate in the ore zone? Drilling progress is estimated at 15 feet per shift, which seems low. Consulting services for seven days per month is higher than normal and cannot be justified. Do you know the consultant, and where his office is?

George C. Selfridge (gla)

RMSmith/mm (4/28/65)
cc: Director's Reading File
Review Committee
Docket

23263

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

April 13, 1965

OFFICIAL COPY
O. M. E.
RECEIVED
APR 19 1965
INITIALS | CODE
RMA | 120
120

Memorandum

To : Chief, Division of Field Operations, OME, Washington, ~~D. C.~~

From : Acting Field Officer, OME, Region II

Subject: OME-6427 (Silver)
Mountain Copper Co. of Calif.
Moco Claims
Eureka County, Nev.

Left side of docket

Enclosed is a copy of an amended application from the subject applicant for consideration. The changes are based on the premise that the penetration of the thrust fault should be done from the hanging wall side instead of the foot wall side of the fault. Any advice on this application will be appreciated.

Paul V. Fillo

Paul V. Fillo

Enclosure

cc:
Chief, Division of Field Operations, OME, Wash., D. C.

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OFFICIAL COPY
O. M. E.
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120

April 7, 1965

Memorandum

To : Chief, Division of Field Operations, OME, Washington, D. C.

From : Acting Field Officer, OME, Region II

Subject: OME-6427 (Silver)
Mountain Copper Co. of Calif.
Mineral Hill
Eureka County, Nevada

The subject property was examined March 17, 1965, and a follow-up discussion of the field work was held in my office April 1, 1965 to evaluate their drilling program. As a result of our meeting, the applicant will prepare a revised program for OME to consider.

The program will be in two stages and Stage II work will depend on the results of Stage I. They will consider the idea you mentioned in your letter of March 5, 1965 of drilling a hole of about 500 feet from the hanging wall side to provide a control on the thrust fault.

I had a short visit with Ralph Roberts in Menlo Park, prior to the meeting in my office with the applicant, and Mr. Roberts agreed with you on the geology of this particular area. A drill hole from the hanging wall side should be No. 1 because the dip is irregular, and with reservations in certain localities the thrust could dip to the west, and a control is required.

The drill sites were determined through their high geochemical and self-potential geophysical anomalies along the thrust fault. Possibly at a later date the southern part of the property and to the east could stand some geochemical work.

Paul V. Fillo

Paul V. Fillo

cc:
Chief, Division of Field Operations, OME, Wash., D. C.

MME Form 7
(2/63)

MAR 5 1965

OFFICIAL FILE COPY

Date	Surname	Code
3/5	M. Smith	120M
3/8	GCS	130
3/5	Johnson	110
"	[illegible]	100
3/5	Cole	220
		120M

AIRMAIL to Fillo at Deserest Motel, Ely, Nevada

MEMORANDUM

To: Acting Field Officer, Region II

From: Chief, Division of Exploration Operations

Subject: OME-6427 (Silver)
Mountain Copper Company of California
Moco Claims
Eureka County, Nevada

The subject application is referred to you for a field examination.

Our review indicates that the proposed work borders on prospecting because the Applicant's reasons for expecting to find ore in the specific target area are not adequately documented. Additional mapping may be in order, and an additional drill hole in Stage I might improve the project.

According to R. J. Roberts (1964, Exploration Targets in north-central Nevada: U. S. Geol. Survey Open File report) the Vinini chert (upper plate) is in contact with carbonate rocks (lower plate) on both sides. The west contact is the Roberts Mountain thrust, which is shown on Fig. 1 of the Open File report and also on the Applicant's map. The east contact is a normal fault according to the Open File report, but the Applicant's map does not extend this far east. This eastern contact is pertinent to the project.

see also MF178

Because the lower plate is exposed on both sides of the sliver of upper plate, it is evident that the thrust surface may be fairly shallow under the sliver, and may intersect the normal fault (east contact) at a shallow depth. In fact, the thrust may actually crop out somewhere along the normal fault. In any case, it is unlikely that the thrust continues indefinitely down the 60° dip shown at the west contact. The east contact should be mapped if it has not already been mapped.

The lead-silver-copper-zinc ores of Mineral Hill are from 1,600 to 3,300 feet north of the target area, the high-zinc anomaly extends from 1,000 feet north to 4,800 feet south of the target area, which itself is 1,600 feet long, and the center of the low

Returned by P.O. 3/15/65
resent to Reg. II office
3/15/65 gla

23263

self-potential anomaly is 1,600 feet north of the target area. A moderate magnetic anomaly shown on Robert's map (1964, fig. 5) is a mile or more west of the target area. The drill sites appear to have been selected to test an unfaulted segment of the thrust instead of the area most likely to be mineralized.

The Roberts Mountain thrust fault is not a plane surface, but is irregular in strike and presumably is also irregular in dip. The irregularities in strike diverge from a straight line as much as 400 feet in 1,000 even in unfaulted segments. Because the two drill holes in the proposed Stage I are nearly parallel with the thrust, and are designed to intersect it at a depth of 1,000 feet (see Exhibit J), the possibility of missing the target by 400 feet should be considered. For example, if the thrust steepens at a shallow depth, the holes will penetrate the less-favorable Vinini chert, in which case a new hole would have to be started. If, on the other hand, the thrust flattens in depth, as seems likely, the holes will test only the carbonate rocks of the lower plate, and would simulate the unsuccessful exploration done by Union Carbide in 1962. To reduce this hazard, a shorter preliminary hole might be designed to locate the position of the thrust at, say, 500 feet down the dip, by drilling from the hanging-wall side nearly normal to the thrust surface. One hole should be adequate to provide control for both of the 1,000-foot holes in Stage I.

It is noted that the cost of drilling is computed at the bid price for NX hole in unaltered limestone. No allowance is made for the extra cost of drilling silicified limestone. However, any AX hole would tend to compensate. You may wish to discuss the cost estimate with the Applicant.

George C. Selfridge (gla)

Enclosures

RMSmith/mm (3/5/65)
cc: Director's Reading File
Review Committee
Docket

February 25, 1965

Mr. C. W. McClung, President
Mountain Copper Company of
California
100 Mococo Road
Martinez, California 94553

Subject: OME-6427

Dear Mr. McClung:

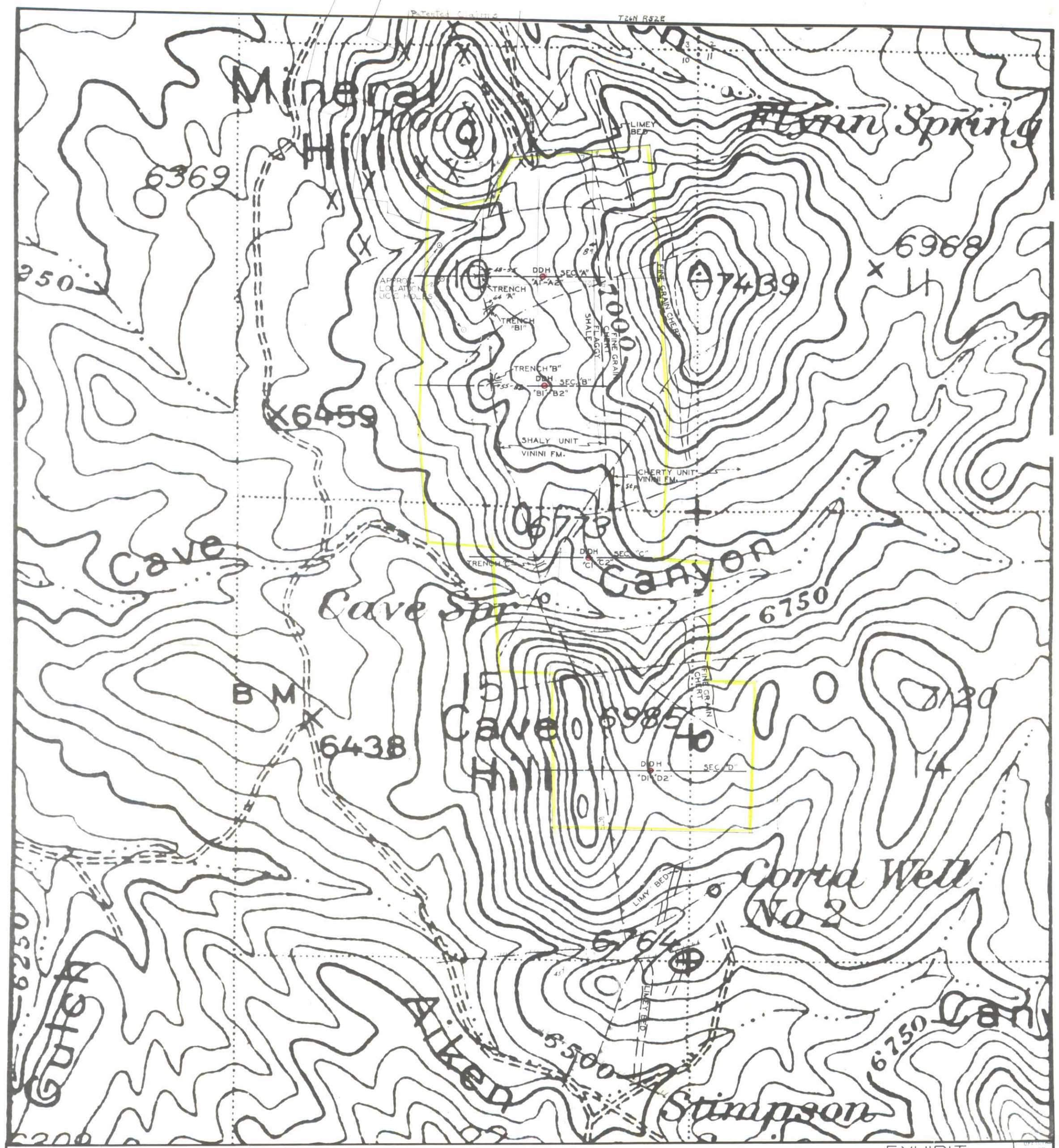
Your application for exploration assistance, dated February 19, 1965 submitted to our office at San Francisco, California has been assigned Docket Number OME - 6427.

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

Sincerely yours,

George C. Selfridge, Chief
Division of Exploration
Operations

Copy to Region II


Mineral Hill
Elkhorn Spring
Cave Canyon
Cave Spr.
Cave Hill
Corta Well No 2
Gulch
Aiken
Stimpson
Canyon
6369
6968
7439
6459
6773
6750
6985
6438
6250
6764
6500
LIMEY BED
DDH SEC "A" "A1"-"A2"
TRENCH "A"
TRENCH "B1"
TRENCH "B"
DDH SEC "B" "B1"-"B2"
SHALY UNIT VININI FM.
CHERTY UNIT VININI FM.
TRENCH "C"
DDH SEC "C" "C1"-"C2"
DDH SEC "D" "D1"-"D2"
FLAGGY SHALE
FINE GRAIN CHERT
APPROX. LOCATION OF UCC HOLES
LEGEND
DEVONIAN CABONATE ROCKS (EASTERN ASSEMBLAGE)
ORDOVICIAN VININI CHERT (WESTERN ASSEMBLAGE)
THRUST FAULT
NORMAL FAULT
Scale: 1" = 1,000' approximately
N
EXHIBIT 1
GEOLOGIC MAP
MINERAL HILL DIST.
EUREKA CO., NEV.
C.I. = 50'
TOPO. BASE BY U.S.G.S.