DMEA Form 9
Rev. 6/57

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE 19 MAR 1958 Idm-E NO._____ DMEA NO. 4938

Application
- [ ] Denied
- [ ] Withdrawn

Contract 1179
- [ ] 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 - Final. Sept. 21, 1959
- [ ] Termination Notice or Agreement
- [ ] Recision Notice
- [ ] Assignment of Contract
- [ ] Contract Amendments
- [ ] Contract with all exhibits and annexes
- [x] Owner's Consent to Lien and Subordination Agreement
- [x] Application and attachments

Right Side

- [ ] Project summary (final)
- [x] Work Completed analysis (final)

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

- [ ] Field Team Semi-Annual Report for Certified Project
- [ ] Final Field Team Report (Tab)
- [x] Operator's Final Report (Tab) 8/26/59.
- [ ] Interim Field Team Reports
- [ ] Operator's monthly reports and all attachments
- [ ] On-site Exam Report (Tab)
- [ ] Settlement Sheets
- [ ] Drill Logs

Additional Folders:

Left Side

Folders No._____: Reports
- [ ] Analysis of Semi-Annual Inspection Reports
- [ ] Project Summary (Interim) by DMEA Engineers

Right Side

- [ ] Field Team Semi-Annual 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

SEP 30 1959
O.M.E.

OFFICE OF MINERALS EXPLORATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF REVIEW

I have reviewed the Monthly Reports of:

Robert T. Curtiss
RFD 1 Box 156
Monroe, Washington

pertaining to Exploration Project Contract No. Idm-E1179, DMRA No. 4938, including Amendment No. 1, for the months of May to October 1958 and June to July, 1959, inclusive, covering a project for the exploration of copper on property known as Mint Claims, located in Snohomish County, Washington.

My review included an examination of the Monthly Reports (Form MF-104) and supporting documents attached thereto, comparison of the costs claimed with the contract and pertinent schedules, verification of work performed by reference to Field Team reports and correspondence, and a determination of the reasonableness and propriety of the costs.

This review was made in lieu of a final audit of the Operator's accounts and records for the following reason:

All of the costs incurred were under a contract provision for payment by the Government on the basis of fixed unit costs of work actually performed.

The review disclosed the following facts in regard to the amount paid or to be paid the contractor:

Total cost as billed by Contractor		$10,192.80
Exceptions: (Schedule attached)		
Prior to this review	$95.20	
Less: Reinstatement by review	0	
Herewith	0	95.20
Total Accepted Cost		$10,097.60

The contract calls for a 50 percent participation of exploration expenses by the United States Government. Therefore, payment to the contractor by the Government in the amount of Five Thousand and Forty Eight and 80/100ths Dollars is valid and proper, provided that the Regional Executive Officer, the Director, or other competent official has accepted or will accept the project as having otherwise met the terms of the contract.

Amount payable to Operator	$ 5,048.80
Amount reimbursed	4,848.80
Balance due Operator	$ 200.00

Pd 10/22/59

September 21, 1959

Donald T. Finch
Donald T. Finch
OME Auditor

SCHEDULE OF EXCEPTIONS

CONTRACT NO. IDM-E1179 DOCKET NO. DMEA 4938

ROBERT T. CURTISS

Exceptions by Field Team Prior to Review

Excessive Assay charges (Operator's claim based on Determinations and not Samples) 28 items at $3.40/ea.	$95.20

The Executive Officer, OME Field Team, Region I and the Auditor concur with the foregoing disallowance.

SCHEDULE OF ACCEPTED COSTS

CONTRACT NO. IDM-E1179 DOCKET NO. DMEA 4938

ROBERT T. CURTISS

Fixed Unit Costs			
Drifting and Crosscutting			
300 ft. at $31.00/ft.		$9,300.00	
Long Hole Drilling			
250 ft. at $1.00/ft.		250.00	
Initial Repairs (Completed job equals Unit)			
Compressor	$100.00		
Tramway	300.00		
Compressor Building	100.00		
Total Initial Repairs		500.00	
Assays			
14 samples at $3.40/ea.		47.60	
Total Accepted Costs			$10,097.60

Government's copy

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BUREAU OF MINES
NOV 18 1958
OFFICE OF FILE COPY
SPOKANE, WASH.
O. M. E.
RECEIVED NOV 24 1958

DATE	INITIALS	CODE
11/24	C	220
~~11/24~~	~~[illegible]~~	~~500~~

AMENDMENT NO. 1

EXPLORATION PROJECT CONTRACT
ROBERT T. CURTISS
DOCKET NO. DMEA-4938

It is agreed this 4th day of November, 1958, between the United States of America, acting through the Department of the Interior, Office of Minerals Exploration, hereinafter referred to as the "Government," and Robert T. Curtiss, hereinafter referred to as the "Operator," that Exploration Project Contract No. Idm-E1179, Docket No. DMEA-4938, dated March 19, 1958, hereinafter called the "Contract," is amended effective October 17, 1958, as follows:

1. In Exhibit "A" under the heading Description of the Work (a), the second paragraph is revised to read as follows:

"On the No. 1 level, crosscut north a maximum distance of 75 feet to cut through the mineralized zone that was intersected, /at a distance of/ approximately 40 feet ahead of the face of the crosscut, by long hole drilling."

(b) The third paragraph is revised to read as follows:

"Drift a maximum of 225 feet on the structure previously intersected by the crosscut described above."

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

(b) The Government shall not contribute to any costs incurred by the Operator during the period of suspension nor to any costs of rehabilitation or repair which in its opinion would not have occurred if there had been no suspension of work.

(c) The Operator at its own cost and expense, without contribution by the Government, during the period of suspension shall preserve and protect the project work.

3. The date fixed in Article 1 of the Contract for the completion of the work is extended from November 19, 1958, to September 19, 1959.

4. The maximum period for royalty payments and the lien to secure the payment thereof, as provided in Article 6 of the Contract, is increased from ten (10) to eleven (11) years from the date of the Contract.

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

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

(i) effective December 1, 1958, if the work has not been resumed on or before June 15, 1959.

(ii) effective September 19, 1959, if the work is resumed on or before June 15, 1959, but is not completed on or before September 19, 1959.

(b) The Government will contribute only to the fixed unit costs of work performed prior to the relevant effective date set forth in 5 (a) above.

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

(d) The Operator, as principal if the Operator is the producer, or as surety if the Operator is not the producer, shall pay to the Government the royalty on production provided for in the Contract, in the same manner

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Chambers
Selfridge

and amount and for the full period of time provided for in the Contract (as amended herein), as if certification of discovery or development had been made, such certification being hereby waived by the Operator. In addition, all rights of the Government provided for in the Contract with respect to certification of discovery or development, percentage royalty and liens to secure payment thereof, reports (including preservation of Operator's records), accounts, audits, and the right to recover any overpayment, are hereby preserved.

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

This Amendment shall not be construed to increase the estimated total cost of the project, the aggregate amount which the Government may be required to contribute, 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
ACTING Director, Office of Minerals Exploration

ROBERT T. CURTISS

Robert T Curtiss

Government's copy

MF-200A
(Rev. April 1956)

OFFICIAL FILE COPY
DMEA
RECEIVED APR 28 1958

DATE	INITIALS	CODE

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
EXPLORATION PROJECT CONTRACT
(Short Form)

DMEA No.	*Commodity*	*Contract No. Idm–E*	*County*	*State*
4938	Copper	1179	Snohomish	Washington

It is agreed 19 MAR 1958, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and Robert T. Curtiss, an individual

whose mailing address is R.F.D. 1, Box 156
Monroe, Washington
hereinafter called the "Operator," as follows:

ARTICLE 1. *Authority and project.*—(a) This contract is entered into under the authority of the Defense Production Act of 1950, as amended. It consists of this form (MF–200A), the attached Annex I (land description), Exhibit A (work and costs), and the maps and documents listed therein. The project work is a search for indicated or undeveloped deposits of the commodity designated above. The Operator shall begin the work on or before May 1, 1958, and, subject to the provisions of Article 7 and Exhibit A, shall complete the work within 8 months from the date of the contract.

(b) The description of the work and the fixed cost for each unit of work to be performed (per foot of drilling, per foot of drifting, per hour of operations, etc.) are hereby agreed upon as specified in Exhibit A. The estimated total cost of the project work is $ 11,620.00. The Government will contribute 50 percent of the fixed unit cost of the work performed, not exceeding $ 5,810.00, in accordance with the provisions of Articles 4 and 5.

(c) 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 property rights.*—(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 rights 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: Interest of lessor

(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 Consent to Lien of any holder of the legal title of the land (lessor, seller, optionor, etc.) are attached, as follows: Consent to Lien and Subordination Agreement of Sultan Basin Mining Company

(c) The Operator shall preserve and maintain his right, title, and interest in the land and his right to the possession thereof for the purposes of this contract, and shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of this contract. The Operator shall neither transfer, convey, nor surrender the land nor any right, title, or interest therein, nor permit nor suffer any claim, lien, or encumbrance thereon, without expressly referring to and providing

in the instrument of conveyance, lien, or encumbrance for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof. Two copies of such instrument shall be furnished to the Government. If the Government's rights to royalty as provided in Article 6 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, expertly, in a workmanlike manner, and in accordance with good mining standards and State regulations 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) *Government may inspect.*—The Operator shall consult with and inform the Government on all phases of the work as it progresses. The Government may enter at all reasonable times to inspect the work under the contract, and also after certification of discovery or development, to inspect production operations and underground workings. The Operator shall provide the Government with all reasonable means of access for such inspections.

ARTICLE 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, and until the account between the Operator and the Government is finally audited and settled and the Operator's final report has been rendered, the Government may withhold such sums as it sees fit but not in excess of 10 percent of the estimated total cost of the work. To the extent that excesses over fixed unit costs or any excess over the estimated total cost may be necessary for the performance of the work, the Operator shall incur and pay such excesses for his own account without contribution by the Government. The Government will not contribute to the cost of any work performed prior to the date of this contract. 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 units of 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.

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

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

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

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

ARTICLE 6. *Repayment by Operator.*—(a) *Certification.*—If the Government considers that a discovery or development from which production may be made has resulted from the work, the Government, at any time not later than six months after the Operator has rendered a sufficient final report (see Article 5), may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development.

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

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

(d) *Unsold production.*—If any production (ore, concentrates, metal, or equivalent) after the lapse of six months from the date the ore was extracted from the ground remains neither sold nor used by the Operator in integrated manufacturing or fabricating operations (for instance, if it is stockpiled), the Government, at its option, as long as it so remains, may require the computation and payment of its royalty on the value of such production in the form (ore, concentrates, metal, or equivalent) it is in when the Government elects to require computation and payment. If any production is used by the Operator in integrated manufacturing or fabricating operations before the Government makes its election, the Government's royalty on such production shall be computed on the value 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) *Percentages of royalty.*—The percentages of the Government's royalty shall be as follows:

One and one-half (1½) percent of amounts ("gross proceeds" or "value") not in excess of eight dollars ($8.00) per ton of production in the form in which sold, held, or used, plus one-half (½) percent for each additional full fifty cents ($0.50) by which such amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) percent of such amounts.

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

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

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

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

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

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

ARTICLE 7. *Termination of the Government's obligations.*—(a) If in the opinion of the Government operations at any time have failed to achieve anticipated results that indicate the probability of making a worthwhile discovery and in the opinion of the Government further operations are not justified, the Government may give the Operator written notice thereof, and thereupon the Government shall be free of all obligation to pay on account of units of work not then performed, and the Operator shall be free of all further obligation to prosecute the work other than such as may be necessary and incidental to winding up, reporting, and accounting.

(b) If in the opinion of the Government the Operator is in any manner in default under the terms of the contract, the Government may give the Operator written notice of such default with a specification of reasonable time within which the default must be cured; and if the Operator fails to cure such default as required, thereupon the Government shall be relieved of all obligation to pay on account of units of work not performed when the notice was given, and the Operator shall be free of all obligation to prosecute the work other than such as may be necessary and incidental to winding up, reporting, and accounting. The 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 7 shall not affect the Government's rights as provided for in the contract with respect to a percentage royalty, and liens to secure the payment thereof, and such rights shall be fully preserved.

ARTICLE 8. *Notices to be given by the Government* may be delivered to the Operator or may be sent by registered mail addressed to the Operator at the mailing address stated in this contract. If mailed, notices are deemed to have been delivered five days after the date of mailing.

ARTICLE 9. *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 10. *Changes and added provisions.*—
In Article 1, Annex II is included as a part of this Contract.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

ROBERT T. CURTISS
(Operator)

By Frank E. Johnson
ACTING Administrator, Defense Minerals Exploration Administration

~~By~~ Robert T. Curtiss
Robert T. Curtiss

App'd. Sol. Off.
Rutin Lamgen
Khuzzechard,
Graeme
Chapman
Selfridge

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

.....

[CORPORATE SEAL]

U. S. GOVERNMENT PRINTING OFFICE: 1956—O-383069

EXPLORATION PROJECT CONTRACT
ROBERT T. CURTISS
DOCKET NO. DMEA-4938

ANNEX I

The land referred to in Article 2 of the Contract consists of four unpatented lode mining claims located in sections 26, 27, and 28, T. 29 N., R. 10 E., W. M. Sultan Basin Mining District. The notices of location are recorded in the official records of Snohomish County, Washington, and the descriptions therein are incorporated herein by reference. The recordings are as follows:

Claim	Book	Page
Mint No. 1	40	108
Mint	40	108
Lonestar No. 1	40	158
Silver King	43	230

The land is outlined in blue color on the attached map, Exhibit C entitled "Iowa Group-Curtiss & Rogers . . ."

The Operator represents and undertakes that he is in possession by virtue of a lease and option agreement, dated April 5, 1950, between the Sultan Basin Mining Company, Lessor, and Robert Curtiss and John C. Rogers, Lessees, for a period extending to April 1, 1960. John C. Rogers assigned his interest in the agreement to the Operator by an instrument dated May 25, 1954.

EXPLORATION PROJECT CONTRACT
ROBERT T. CURTISS
DOCKET NO. DMEA-4938

ANNEX II

WHEREAS, the partnership of John C. Rogers and Robert T. Curtiss was party to an Exploration Project Contract with the Government identified as Contract No. Idm-E417 (Docket No. DMEA-2435), dated October 7, 1952, as amended (the "Prior Contract"), pursuant to which exploration work was performed on the same land that is the subject of exploration in this new Contract; and

WHEREAS, as an inducement to the Government to enter into a new Contract for additional exploration of the land, Robert T. Curtiss, the Operator, requests that the amount of money contributed by the Government pursuant to the provisions of the Prior Contract be incorporated into this Contract and repaid under the royalty provisions of this Contract;

NOW THEREFORE, it is agreed that, as a consideration for the Government's entering into this new contract, Docket No. DMEA-4938, the amount contributed by the Government to the costs of the work as provided in the Prior Contract, $7,968.38, is hereby incorporated into this Contract and the Operator undertakes to repay it pursuant to the repayment provisions of Article 6 of this Contract. Said amount is in addition to the total amount of the Government's contributions to costs under this Contract and repayable pursuant to the provisions of Article 6 of this Contract, Provided, That not more than one royalty shall be due the Government on any given production.

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

For Government's Use Only
EXPLORATION PROJECT CONTRACT
Operator
Docket No. DMEA-
Contract No. Idm-E 1179
Contract Date 19 MAR 1958

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RECEIVED APR 28 1958 U.M.E.A.

CONSENT TO LIEN
and
SUBORDINATION AGREEMENT 1/

To the United States of America:

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

Unpatented Mining Claims located in sections 26,27 & 28, township 29 N. range 10 E.W.M., Sultan Basin Mining District as follows:

Mint No. 1 Lode Claim-			Recorded in Book	40,	Page	108	Court House
Mint	"	"	"	40,	"	108	Everett, Wash.
Lonestar No.1	"	"	"	40	"	158	
Silver King	"	"	"	43	"	230	

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

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

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

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

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

None

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

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

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

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

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

Dated this 6th day of January, 1958.

Robert T Curtis	[Seal]	RFD #1, Box 156 Morris Washington	[Address]
SULTAN BASIN MINING COMPANY			
_____	[Seal]	_____	[Address]
_____	[Seal]	_____	[Address]
_____	[Seal]	_____	[Address]
_____	[Seal]	_____	[Address]
_____	[Seal]	_____	[Address]

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

W H Sibbon

[Corporate Seal]

EXPLORATION PROJECT CONTRACT
ROBERT T. CURTISS
DOCKET NO. DMEA-4938

EXHIBIT "A"

Description of the Work

The purpose of the project is to explore by drifting, crosscutting and long hole drilling, as indicated generally on the attached map, Figure I, entitled "Plan Map, Showing Proposed Exploration". However, the actual locations, directions, and extent of all workings and drill holes are subject to prior Government approval.

On the No. 1 level, crosscut north a maximum distance of 75 feet, to cut through the mineralized zone that was intersected, at a distance of approximately 40 feet ahead of the face of the crosscut, by long hole drilling. Drift east and west along this mineralized zone for not to exceed an aggregate of 175 feet. X

Drift a maximum of 50 feet on the structure previously intersected by the crosscut described above. 175' 50' 225'

The crosscut and drifts shall be timbered as necessary and shall be not less than 5 feet by 7 feet in the clear of the timber.

Perform not to exceed 250 feet of long hole drilling.

Not in excess of 200 feet of timbering in the drifts and crosscut shall be allowed as costs of the project. Timber sets shall consist of not less than 8-inch by 8-inch timber or the equivalent in round timber.

Any samples taken in the drifts and crosscut, or sludge samples taken in the drill holes, shall be assayed for gold, silver and copper. Not to exceed 50 samples shall be allowed for assaying.

Initial repairs to a compressor, compressor building, and tramway are allowable costs of the project if approved by the Government.

Estimated Costs of the Project

Fixed Unit Costs

Drifting and crosscutting, 300 feet @ $31.00/ft.			$ 9,300.00
Timbering, 200 feet @ $7.00/ft.			1,400.00
Long Hole drilling, 250 feet @ $1.00/ft.			250.00
Initial Repairs			
Compressor 1/	$100.00		
Tramway 1/	300.00		
Compressor building 1/	100.00		500.00
Assays			
50 samples assayed @ $3.40/sample			170.00
Estimated Total Cost of New Work			$11,620.00
Government Participation @ 50%		$5,810.00	
Total Cost of Docket No. DMEA-2435 (Prior Contract)			15,936.76
Government Participation @ 50% (repayable under this Contract, See Annex II)		7,968.38	
Estimated Total Cost of Both Projects			$27,556.76
Government Participation @ 50% (repayable under this Contract)		$13,778.38	

1/ The completed job constitutes the unit.

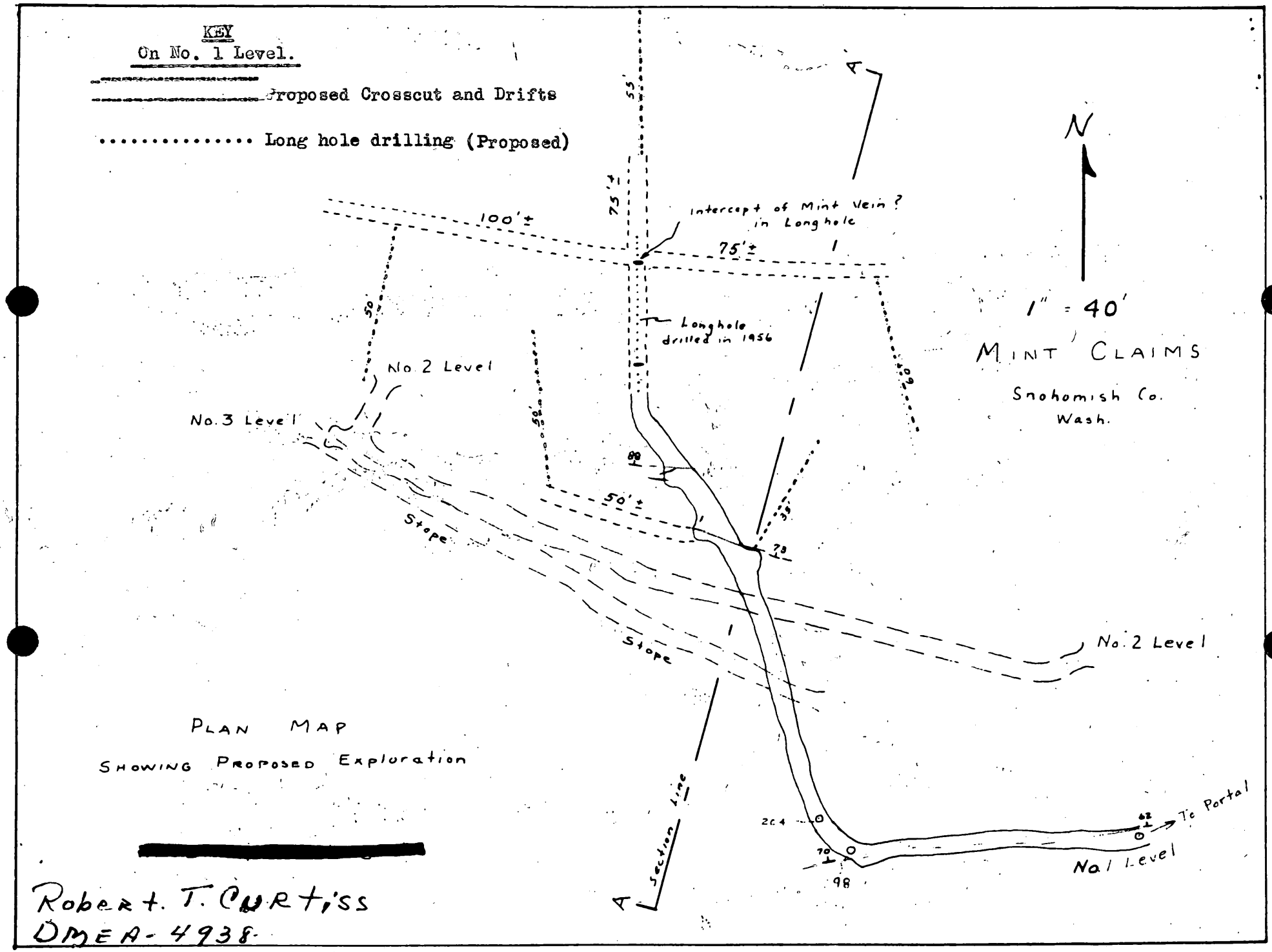

KEY
On No. 1 Level.
Proposed Crosscut and Drifts
Long hole drilling (Proposed)
N
1" = 40'
MINT CLAIMS
Snohomish Co.
Wash.
100'±
75'±
55'
75'±
Intercept of Mint Vein ? in Longhole
Longhole drilled in 1956
50'
No. 2 Level
No. 3 Level
50'±
Stope
Stope
No. 2 Level
PLAN MAP
SHOWING PROPOSED Exploration
Section Line
A
A
To Portal
No. 1 Level
98
Robert. T. Curtiss
DMEA-4938

FIGURE I

IOWA GROUP

CURTISS & ROGERS

SEC 27 T29N R10E WM
SNOHOMISH, CO., WASH

Scale: 1"=400'

DMEA-4938

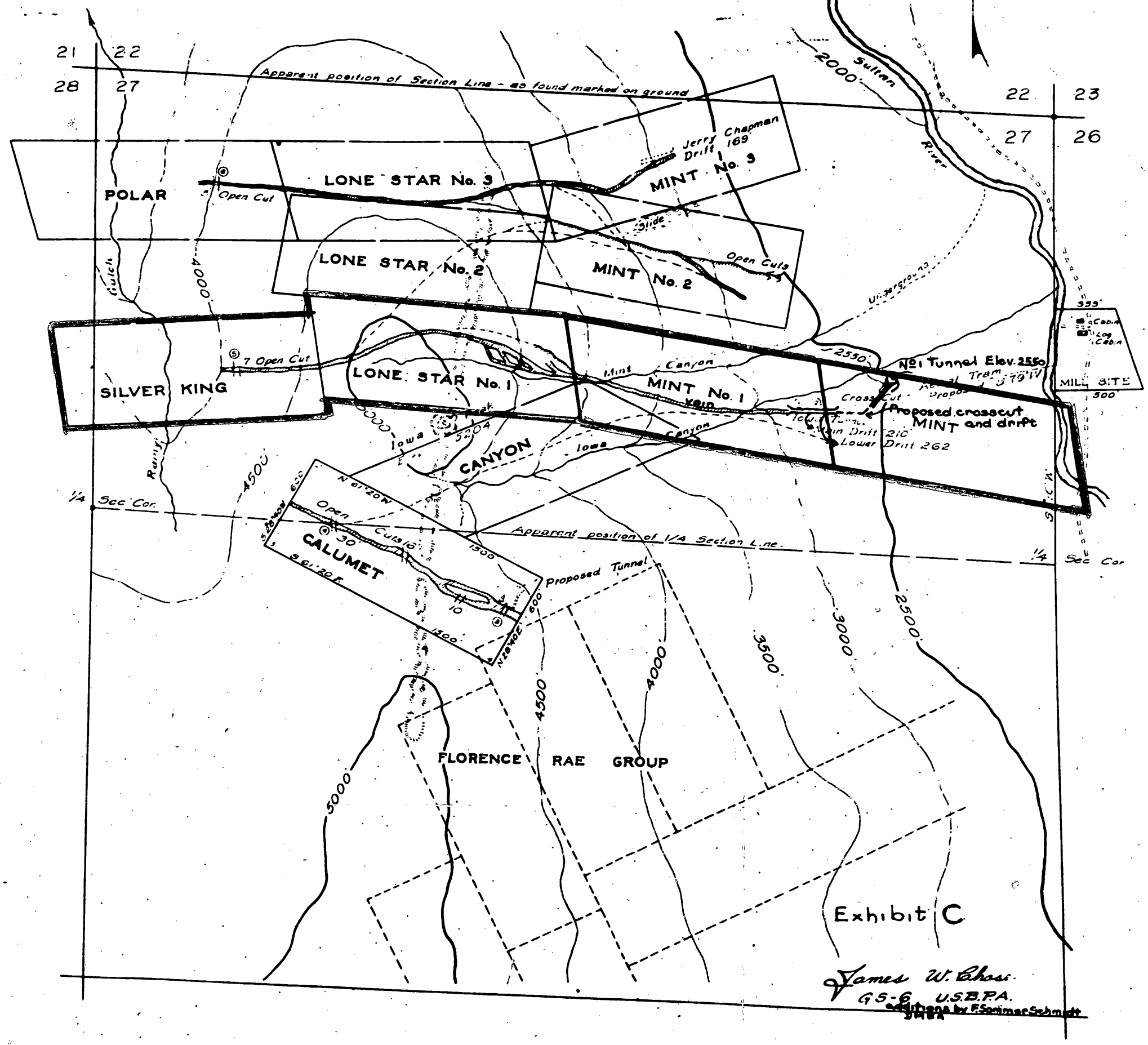


Exhibit C

James W. Chase
GS-6 U.S.B.P.A.
additions by F. Sommer Schmidt
DMEA

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

OFFICIAL FILE COPY
DMEA
RECEIVED FEB 6
DATE | INITIALS | CODE

January 31, 1958

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

Re: New Application (Copper)
Robert T. Curtiss
Mint (Iowa) Claim
Snohomish, Washington

Dear Mr. Selfridge:

Enclosed are an original and two copies of an application for DMEA aid to explore for copper on the Mint Claim, Snohomish County, Washington. Also enclosed is one copy of a Lease and Option to Purchase between Sultan Basin Mining Company and Robert Curtiss and John C. Rodgers, a copy of an Assignment from John C. Rodgers to Robert Curtiss, and four carbon copies of a Consent to Lien and Subordination Agreement dated January 6, 1958, from Robert Curtiss as Vice-President of Sultan Basin Mining Company. Mr. Curtiss did not enclose the original copy of the Consent to Lien.

Some exploration has already been done on this property under Docket No. DMEA-2435, Contract Idm-E417. In letters dated October 4 and 11, 1956, Mr. Curtiss requested authorization to do additional work under Contract Idm-E417. On December 18, 1956, we forwarded four copies of a memorandum dated October 24, 1956 by D. F. Kellum, Geologist, U. S. Geological Survey, justifying the additional work and four copies of a memorandum by S. W. Zoldok, Mining Engineer, U. S. Bureau of Mines, presenting a cost estimate.

Subsequent to submitting his request, Mr. Curtiss leased all his claims to Howe Sound Company and his request was denied because he no longer controlled the property. Since then, Howe Sound has completed a project on the Calumet claim (DMEA Docket No. 4687). All work done by Howe Sound was on the Calumet claim on a vein about 1,000 feet south of the Iowa vein which Mr. Curtiss now wishes to explore on the Mint claim. According to Mr. Curtiss, Howe Sound has relinquished their option on the claims leased by Mr. Curtiss.

The present proposal is essentially the same as that which Mr. Curtiss proposed in October 1956, except that his original proposal is for 300 feet of combined drifting and crosscutting and 250 feet of long-hole drilling.

The geologic justification for this proposal is the same as Kellum presented in his memorandum of October 24, 1956 and in the Field Team Final Report on the prior contract. Because of a possible change in rates and the additional work requested, a new cost estimate will be prepared and forwarded to you shortly, and we recommend that this application be approved.

Whether or not Mr. Curtiss' statement that Howe Sound has relinquished their option is acceptable, we do not know.

By Field Team, Region I

A. E. Weissenborn

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

Wing G. Agnew

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

Enclosures

cc: USBM (2)
Albee

Monroe, Washington

[illegible] 28, 1933

Official

[illegible]

[illegible]

[illegible] Division of Information

[illegible]

[illegible]

[illegible] 28

[illegible] Allocation for [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] This also, to another case for [illegible] last year. I believe that to interpret [illegible] a hangnail from the face of the crescent into [illegible] 1933.

[illegible] day of [illegible] [illegible]ation to process by [illegible], please advise.

Yours truly

/s/ Robert T Curtiss

Form MF-103
Revised Oct. 1957

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

DMEA

APPLICATION FOR AID IN AN EXPLORATION PROJECT

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

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

ROBERT T. CURTISS
R.F.D. 1, BOX 156
MONROE, WASH.

RECEIVED
JAN 27 1958
U. S. G. S.
SPOKANE, WASH

APPLICANT NOT TO USE THIS BLOCK

Docket Number	4938
Date Received	2-6-58
Government Participation %	50
Region	I
Division Code	500

BUSINESS ORGANIZATION (Check one)

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

State in which firm is organized

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

Name	Address	Title
NONE		

Mineral(s) for which you wish to explore: Copper

Estimated Cost of Project
$

LOCATION OF PROPERTY

Name	County	State
Mint (Iowa)	Snohomish,	Wash.

GENERAL INSTRUCTIONS

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

CERTIFICATION

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

January 22, 1958
Dated

Robert T Curtiss
BY *(Signature)*

Operator
Title

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

INFORMATION REQUIRED WITH THIS APPLICATION

1. *Applicant's Property Rights:*

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

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

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

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

2. *Physical Description:*

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

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

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

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

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

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

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

3. *Accessibility of Project:*

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

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

4. *The Exploration Project:*

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

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

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

5. *Experience:*

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

6. *Estimate of Costs:*

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

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

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

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

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

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

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

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

Note – No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

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

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

* * * * *

INT.-DUP. SEC., WASH., D.C. 25960

1. Applicants Property Rights:

(a) Following unpatented mining claims located in Sections 26, 27, 28 T 29N R 10E WM. Snohomish County, Wash.

Mint No. 1 Lode Claim Recorded in Book 40, Page 108.
Mint Lode Claim Recorded in Book 40, Page 108.
Lonestar No. 1 Lode Claim Recorded in Book 40, Page 138.
Silver King Lode Claim Recorded in Book 43, Page 230.
As recorded in the Court House at Everett, Wash.

OFFICIAL FILE COPY
DMEA
FEB 6
CODE

(b) Property is known by the following names:
Mint
Iowa
Sultan Basin Mining Company.

(c) I'am a Leasee. Exact copy of lease is attached.

(d) None, except for possible lien under D M E A contract Idm E 417.

2. Physical Description:

(a) The work which is requested in this application is an extension of the work carried out under D M E A contract Idm E 417. The D M E A files should contain complete data on this work and previous work. The only work which has been carried on the property since the completion of contract Idm E 417 is a 50 foot long hole approximately due north from the face of the crosscut. This long hole intersected a mineralized zone approximately 2 feet in width at 12 feet from the face and a well mineralized zone accompanied with a heavy water flow 42 feet from the face. It is believed the mineralized zone 42 feet ahead of the face is the downward extension of the Mint vein was also the exploration target for Contract Idm E 417. Unfortunately, the work carried out under this previous contract did not prove or disprove the exsistance of the Mint vein on the No. 1 level.

(b) I carried out the work under Contract Idm E 417. The property is presently inactive.

(c)

	Tons	Gold	Silver	Copper
1915	104	0.223	3.23	20.00
1937	21.7	0.05	2.45	12.55
1940	21.0	0.07	3.84	16.81

(d) The property in its present state of development has no measurable ore reserves.

(e) Please refer to Washington State Bulletin 36 by Ward Carrithers and A. K. Guard. 1945, Pages 62-68.

(f) I expect to find the downward extensions of the high grade ore shoots mined on the No. 2 and No. 3 levels which are approximately 300 feet vertically above the proposed crosscutting and drifting.

3. Accessibility of Project:

(a) Robert T. Curtiss, Monroe, Washington.
The property is located in Sultan Basin, 26 miles by road northeast of Sultan, Wash. Property is accessable from April to December. The Mine workings are accessable.

(b) The supply points are Sultan, Wash. 26 miles from the property and Seattle which is 70 miles. The A S and R Smelter at Tacoma, Wash. is 100 miles from the property. Workers reside in cabins on the property.

4. The Exploration Project:

(a) It is proposed to extend the present No. 1 level crosscut approximately 75 feet to cut the Mint vein, see figure 1 attached. It is believed that the vein was intersected 42 feet from the present face in a longhole drilled in 1956, just after the completion of Contract Idm E 417 (see Figure 2 attached) When this structure is intersected it is proposed to drift both east and west in the structure a total of 175 feet. It is also proposed to drift approximately 50 feet on the structure previously intersected. (See Figure 1)

Two hundred and fifty feet of longholing is also proposed to test the extensions of the structure presently exposed in the crosscut. See Figure 1 for proposed location of longholes.

(b) No access road is necessary.

(c) Work can start anytime between May and October with 30 days notice. Not practical to work between December and April because of the snow condition It is estimated that it would take a maximum of six months to complete the work.

5. Experience:

I have spent all my life in mining and have carried out underground explorations at the Calumet, Sunset, Mint, American Arsenic and many others properties. I will supervise the operations.

6. Estimate of Costs:

If possible I would like to carry out the work on a per foot unit cost basis. This type of contract was very satisfactory under my previous contract.

I have based the following estimates of cost on a basis of:
Single shift
Five day week
Four foot per shift advance

		Total per shift
(a)	Independent contract - none	
(b)	Supervision - $3.00 per hour	24.00
	Labor - 2 men per 8 hour shift	
	Pay scale - $2.25 per hour	36.00
	Insurance and medical aid -$.26 per hour	6.24
		$66.24
	Cost per foot--- ~~$16.56~~ 16.50/ft	
(c)	Operating material and supplies	
	Vent tube at $1.03 per foot	1.03
	18# rail at $2.06 per yd. switches, tract spikes, and fish plates	1.00
	Ties at $.75 per 1000bf.	.30
	Pipe- 2 inch air --$.58 per ft.	.58
	1 inch water -.28 per ft.	.28
	Fittings and valves	.10
	Powder - 50 # per round at $12.50 per 50 #	3.12
	Caps - $31.35 per 1000	
	20 per round	.63

Fuse - $15.00 per 1000	
125 feet per round	.47
Ignitor wire - $13.00 per 1000	
25 feet per round	.33
Connectors - $20.00 per 1000	
20 per round	.40
Gasoline - 30 gals. per shift. compresser & fan	
$.30 per gal.	2.25
Oil - 2 qts. per shift at $.35 per qt.	.17
Steel and bits - estimated	1.00
(d) Operating equipment to be furnished by Operator (Depreciation)	
Cpmpressor - 230 cfm gasoline engine driven	1.00
Fan - gasoline engine driven	.25
Drills and hoses	.25
Mine cars	
(e) Initial rehabilitation and repairs	
Tramway repairs $300.00	1.00
Repairs on Compressor $100.00	.33
Repairs on Compressor building - $100.00	.33
(f) New Building	
None	
(g) Miscillaneous	
Transportation	1.00
Operating repairs to drills and compressor	.50
Accounting - $200.00	.66
Misc. tools, carbide and etc.	1.00
Payroll taxes at 6%	.99
Contingency 5%	1.78
Total cost per foot	$37.31

Timbering:
Timbering is considered as a separate item to be used only where necessary. 5' X7' on 5' centers.

Two 8"x8" x 8' posts - 85 bf.
One 8"x8" x 7' cap - 37 bf.
Five 3"x12"x7' lagging - 105 bf.

227 bf at $75.00 per 1000 bf. -	$17.00
Labor for installation	
8 hours at 2.51 per hour including ins. and med. aid	$20.08
	$37.08

37.08 ÷ 5 = $7.41 per foot

A breakdown of estimated costs are as follows:

300 feet of drifting and crosscutting at $37.31 per ft.	$11193.00
250 feet of longhole drilling at $1.00 per ft.	250.00
50 assays for copper, gold, silver at $5.00 ea.	250.00
50 feet timbering at $7.41 per ft.	370.00
Total cost of project	$12063.50

7.
(a) Yes

(b) I expect to furnish my share of the costs with money and equipment.

C O P Y

LEASE AND OPTION TO PURCHASE

This Agreement is by and between SULTAN BASIN MINING COMPANY, a Washington corporation, hereinafter designated as Lessor, and ROBERT CURTIS and JOHN C. ROGERS, hereinafter designated as the Lessees.

WITNESSETH: In consideration of Ten ($10.00) Dollars and other valuable consideration the lessor does hereby grant to the lessees, their associates, successors and heirs, the exclusive right and option, for a period beginning on the 5th day of April, 1950, and extending until the first day of April, 1960, to purchase all right, title and interest of said lessor in the following described unpatented mining claims situated in the Sultan Basin Mining area of Snohomish County, State of Washington, to-wit:

Mint, Mint #1, Mint #2, Mint #3, Lonestar #1, Lonestar #2, Lonestar #3, Calument, Calument Fraction, Calument Extension, Canyon, Canyon Extension, Polar and Silver King; located in Sec 27 TWP 29 R 10 EWM

TOGETHER with all equipment now located on said property.

The purchase price for all the foregoing property and the appurtenances unto it belonging, shall be Fifty Thousand ($50,000.00) Dollars.

During the life of this option the lessees, or their assignees, shall have the exclusive right to take immediate possession of the foregoing described property and continue in possession during the term of this lease and option and shall have exclusive right to mine and extract minerals from said property, providing the following terms of the lease are complied with; to-wit:

1. The assessment work of Fourteen ($1,400.00) Hundred Dollars per year on the fourteen claims included in the property and the assessment work of One Hundred ($100.00) Dollars per year on any contiguous claims that may be located by the lessees or their associates during the life of this lease shall be performed each year and proof of labor shall be filed by the lessees on or before June 1 of each year, and satisfactory evidence of such filing shall be furnished to the lessor at Sultan, Washington.

2. The lessees shall pay to the lessor ten percent (10%) of the net smelter returns from any ores shipped from the property during the life of this lease and option.

3. Such smelter returns, if any, shall be credited by the lessor upon the sales price.

4. Title to the personal property and equipment located on the property shall remain in the lessor until Ten Thousane ($10,000.00) Dollars has been paid on the purchase price, at which time the lessor agrees to convey, by bill of sale, such equipment to the lessees.

5. The lessee shall file on contiguous or adjacent property sufficient land for a mill site and shall assign such rights to such mill site to the lessor for the term of this lease and option.

6. The lessees shall maintain this mining operation in a state of continuous operation consistant with weather and prevailing mining conditions in the Sultan Basin Mining area.

7. The lessees shall not lease the property herein described, or any part thereof, without the written consent of the lessor.

8. The lessor shall have right of inspection and examination of the operation and development of the property at all times. The lessees agree to keep safely and furnish copies of all records of work done, drill cores, copies of assays, and records of surveys.

9. During the life of this option, the purchaser shall pay all personal property taxes, all bills and expenses incurred by it, or him, promptly, and by such prompt payment shall prevent the filing of any and all liens of mechanics, miners, and materialmen, and any and all other obligations which may become a lien or charge against said property, including the payment of Industrial Insurance, Social Security, Occupational Tax, and all like charges. For these purposes, the lessor shall be afforded an opportunity to examine the books of the lessees at reasonable times and places.

10. The lessees shall comply with all the rules and regulations, prescribed by the State of Washington or the United States, for the safety of employees on the property, and does assume all responsibility in case of accident to employees or persons in or about said property and does agree to indemnify and save harmless the lessor from all claims which may be asserted by persons or property injured in or about the premises.

11. The lessees agree to carry on its development, examination and inspection of the property in a workmanlike manner, with due regard to the development and preservation of the mining premises as a workable mining property.

12. The lessees shall save the lessor harmless from any liability for damages or liens of every kind, nature and description.

It is further agreed between the parties that any violation of any covenant or condition herein contained in this lease and option shall entitle the lessor to declare a cancellation of this lease and option by ten days notice in writing to the lessees and thereupon all rights of the lessees shall terminate and be forfeited. In case of breach or violation of any covenant or condition in this agreement the lessor shall retain as liquidated damages all sums of money paid upon the purchase price together will all machinery, equipment, tools and improvements placed on the property by the lessees during their operations under this lease and option. A waiver by the lessor of any breach or violation of any covenant or conditions shall not constitute a waiver of its right of cancellation for any other breach or violation of a covenant or condition.

If the lessees exercise their option and complete the payment of the purchase price the lessor shall convey by proper conveyances all its right, title and interest in and to said property. If the lessees fail to exercise their option, at the expiration of such lease they shall surrender the property peaceably within forty-eight hours after the expiration of the lease.

In case suit is instituted by the lessor to enforce cancellation of the lease and option, or to recover possession of the premises, the lessees shall pay, in addition to costs, a reasonable attorney fee.

IN WITNESS WHEREOF, the lessor has hereunto set its hand and corporate seal by its President and Secretary, duly authorized, and the lessees, for each, subscribed his name on behalf of himself, his associates and assigns, this 5th day of April, 1950.

SULTAN BASIN MINING CO., a corporation

By Kenneth S. Startup
President

(SEAL)

By George Heald
Secretary

Robert T Curtiss
Lessee

John C. Rogers
Lessee

STATE OF WACHINGTON)
(ss
COUNTY OF SNOHOMISH)

Personally appeared before me, the undersigned, a Notary Public, K.S.STARTUP and GEORGE HEALD, known to me to be the President and Secretary respectively of the Sultan Basin Mining Co., a Washington corporation, who acknowledged to me that they signed and sealed the within and foregoing instrument, for and on behalf of said corporation, as its free and voluntary act and deed, for the uses and purposes therein mentioned; that they were so authorized to do; and that the saal affixed is the seal of said corporation.

WITNESS my hand and official seal this 8 day of April, 1950.

Sophia Jenft
Notary Public in and for the
State of Washington,
residing at Sultan

(SEAL)

STATE OF WASHINGTON)
(ss
COUNTY OF SNOHOMISH)

Personally appeared before me, the undersigned, a Notary Public, ROBERT CURTIS AND JOHN C. ROGERS, known to me to be the individuals described as lessees in the foregoing instrument who acknowledged to me that they signed the same as their free and voluntary act and deed, for the uses and purposes herein mentioned.

WITNESS my hand and official seal this 8 day of April, 1950.

Sophia Jenft
Notary Public in and for the
State of Washington,
Residing at Sultan.

(SEAL)

DAILEY & CONROY
ATTORNEYS AT LAW
BURNETT BUILDING
EVERETT, WASHINGTON

A S S I G N M E N T.

KNOW ALL MEN BY THESE PRESENTS, that I, John C. Rogers, one of the lessees in that certain lease and option agreement made and entered into between myself and Robert Curtis, as lessees and the Sultan Basin Mining Company, a corporation as lessor, dated April 5th, 1950, and which lease and option are now of record in the office of the Auditor of Snohomish County, Washington, do hereby sell and assign all of my interest in and to the said lease and option to the said Robert Curtis, and do hereby transfer unto him all of such interest and all interest in and to the Mint, Mint # 1, Mint # 2, Mint # 3, Lonestar #1, Lonestar No. 2, Lonestar # 3, Calument, Calument Fraction, Calument Extension, Canyon Canyon Extension, Polar and Silver King mining claims in Sec.27 Twp.29 N.R 10 E. W. M, in Snohomish County, Washington.

It is understood and agreed by the said Robert Curtis, that if he should be able to bring about a sale of the said mining claims and exercises the option for the purchase thereof, he will pay to me the sum of $5,000.00, and that this provision applies during the life of the said lease and option.

Dated this 25th day of May, 1954.

Robert T. Curtis
John C. Rogers

STATE OF WASHINGTON,)
County of Snohomish.) ss.

This is to certify that on this 12th day of July, 1954, before me, the undersigned, a Notary Public in and for the State of Washington, duly commissioned and sworn, personally appeared John C. Rogers and Robert Curtis, to me known to be the individuals described in and who executed the foregoing instrument, and acknowledged to me that they signed and executed the same as their free and voluntary act and deed, for the uses and purposes therein mentioned.

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

Harold W. Faulkner
Notary Public in and for the State of Washington, residing at Monroe

OFFICIAL FILE COPY
DMEA
RECEIVE FEB 6
DATE

IOWA GROUP

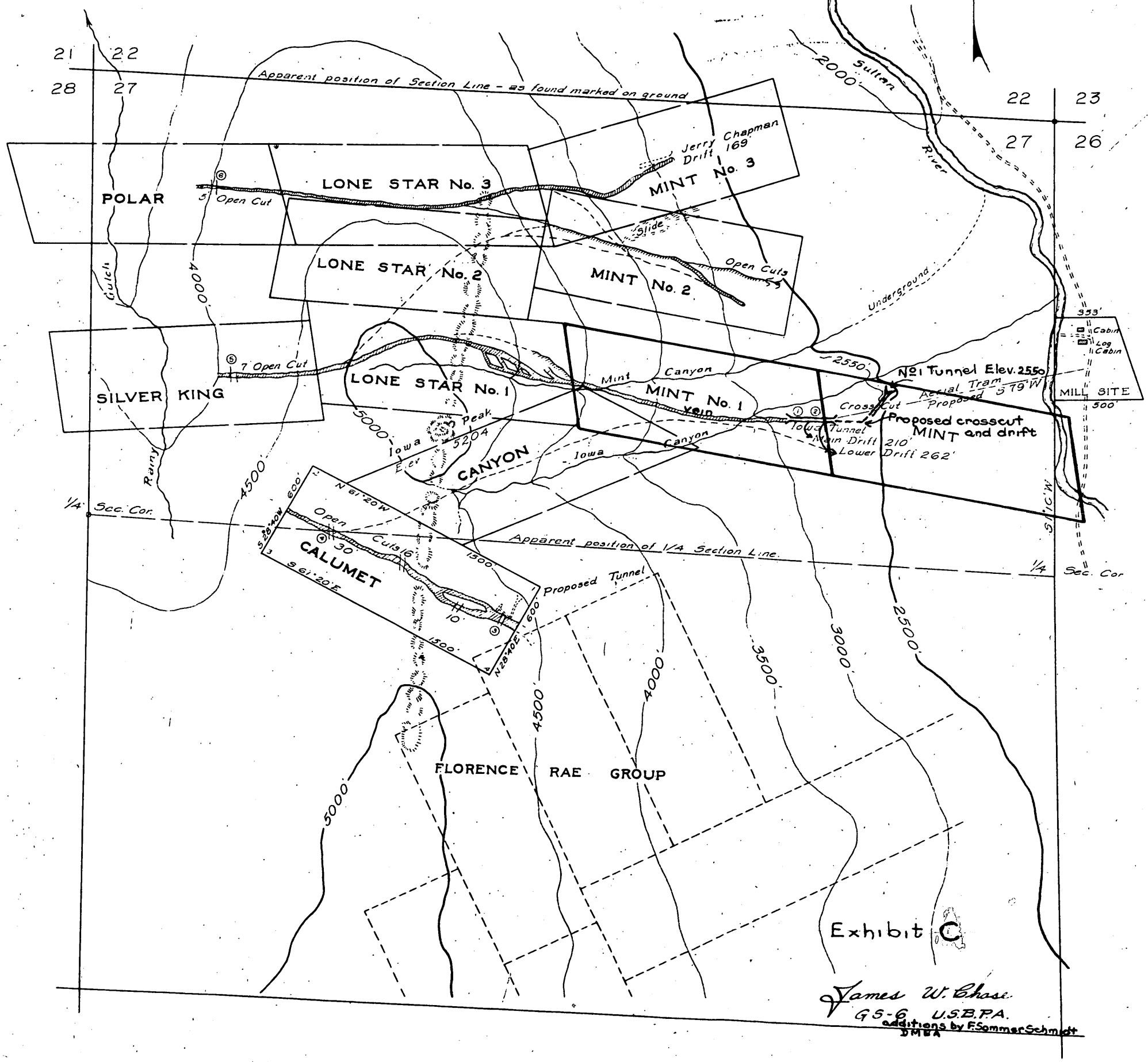
CURTISS & ROGERS

SEC. 27 T29N R10E W.M.
SNOHOMISH, CO., WASH.

Scale: 1"=400'

100 0 100 500 1000

DMEA-4938



4425
E-1083

W.	Cu.		Expanded W	% Cu
15"	12.7	3.20	48"	3.97
42"	3.2	1.14	48"	2.81
31"	2.12	1.55	48"	1.37
12"	4.34	4.00	48"	1.09
34"	0.33	1.41	48"	0.23
52"	0.14	—	48"	0.14
42"	1.06	1.14	48"	0.92
19"	9.70	2.53	48"	3.83
35"	0.86	1.37	48"	0.63
39"	2.45	1.23	48"	1.99
38"	0.82	1.26	48"	0.65
20"	5.29	2.40	48"	2.20
48"	0.48	—	48"	0.48
20"	1.49	2.40	48"	0.62
20"	3.84	2.40	48"	1.60
30"	1.73	1.60	48"	1.08
24"	4.76	2.00	48"	2.38
			48"	17) 25.99

1.53% Cu

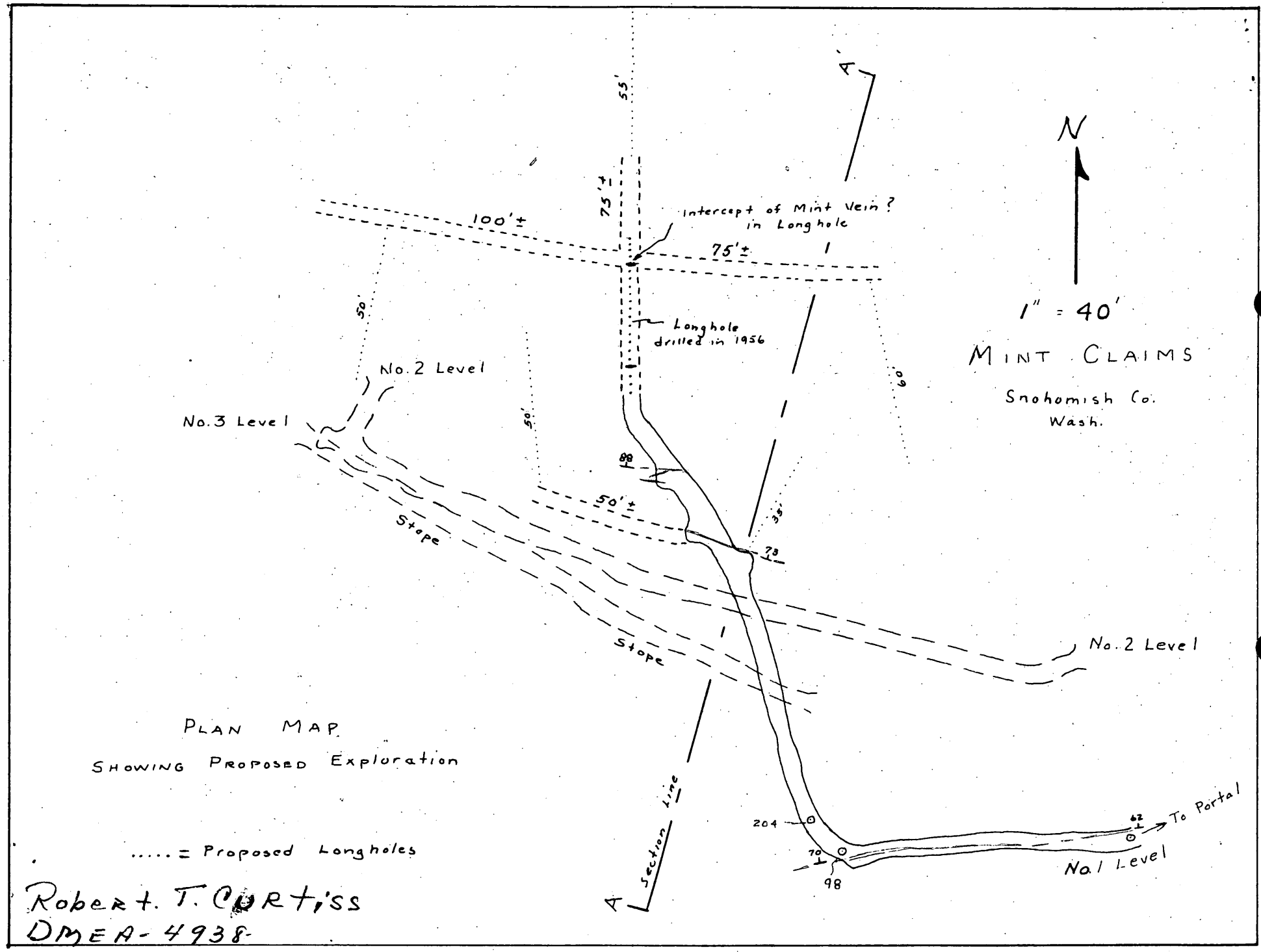

N
1" = 40'
MINT CLAIMS
Snohomish Co.
Wash.
100'±
75'±
75'±
55'
50'
50'
50'
50'±
35'
60'
Intercept of Mint Vein ?
in Longhole
Longhole
drilled in 1956
No. 2 Level
No. 3 Level
Stope
Stope
No. 2 Level
88
73
204
70
98
62
To Portal
No. 1 Level
Section Line
A
A
PLAN MAP
SHOWING PROPOSED Exploration
..... = Proposed Longholes
Robert T. Curtiss
DMEA-4938

FIGURE I

ORIGINAL FILE COPY
DMEA
RECEIVED FEB 6
INITIALS | CODE

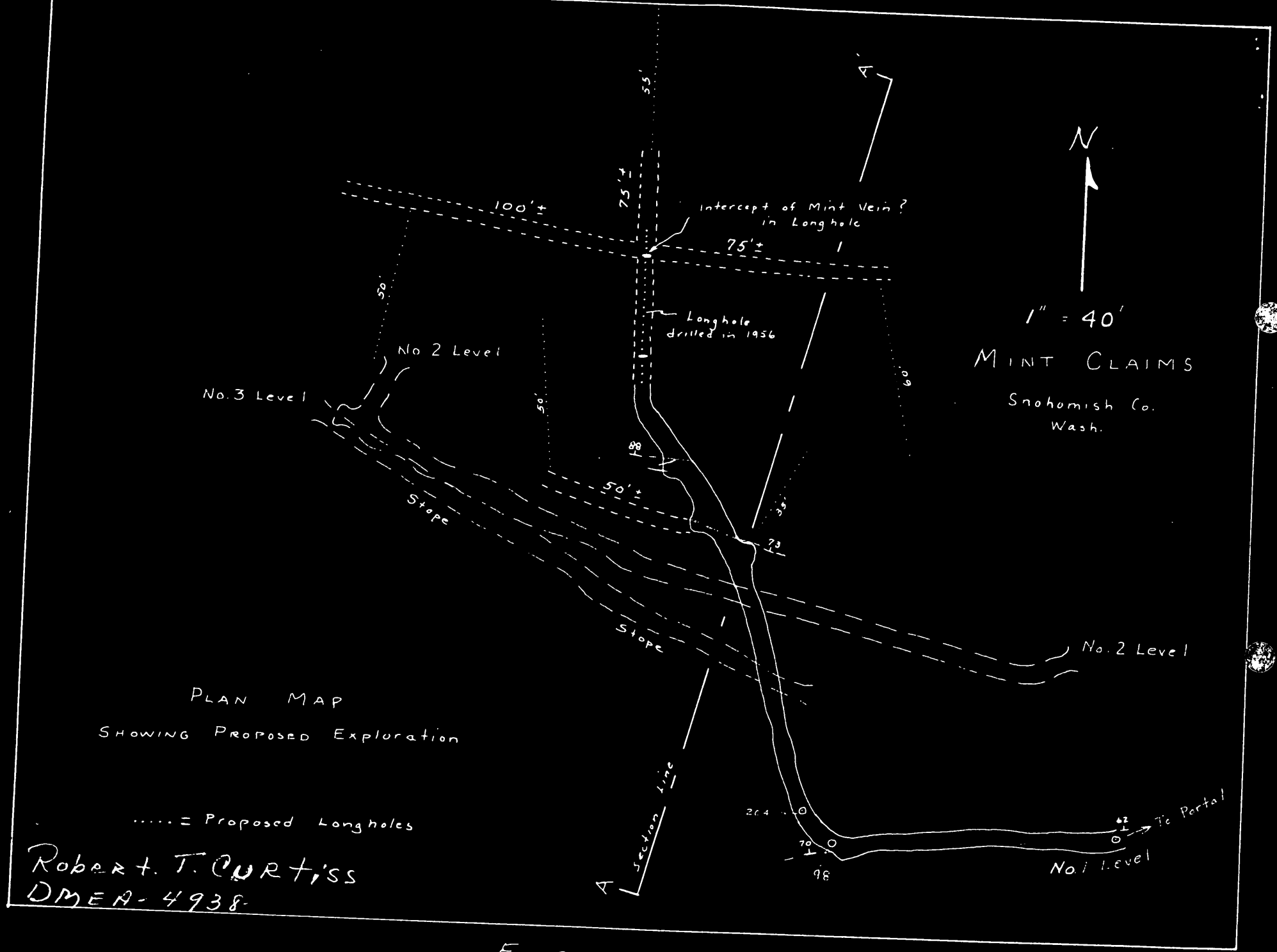
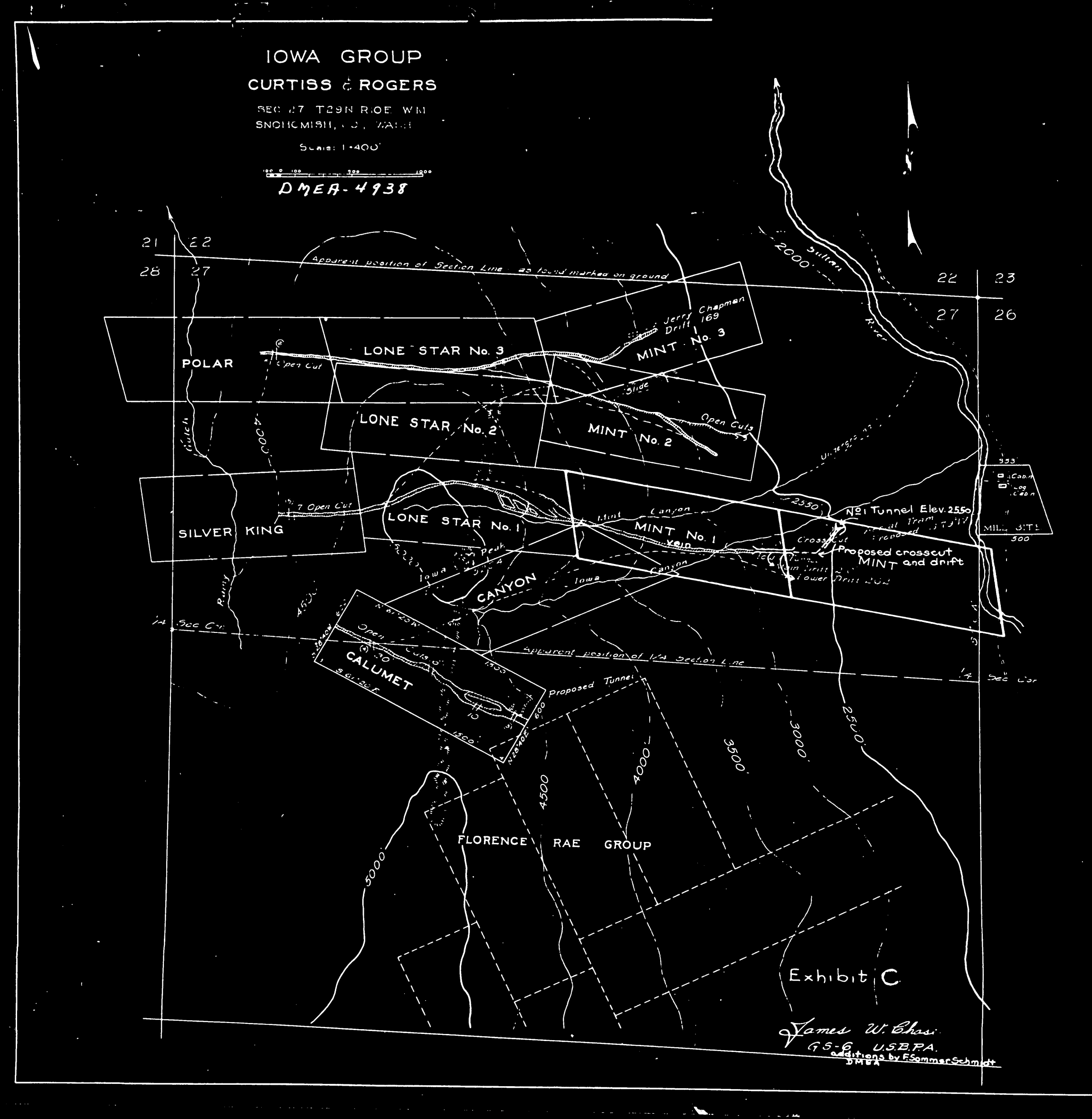

N
1" = 40'
MINT CLAIMS
Snohomish Co.
Wash.
100'±
75'±
55'
75'±
Intercept of Mint Vein ?
in Longhole
Longhole
drilled in 1956
50'
No 2 Level
No. 3 Level
50'
50'
88
50'±
35'
73
Stope
Stope
No. 2 Level
PLAN MAP
SHOWING PROPOSED Exploration
..... = Proposed Longholes
Section Line
A
A
204
70
98
62
To Portal
No. 1 Level
Robert T. Curtiss
DMEA-4938

FIGURE I


IOWA GROUP
CURTISS & ROGERS
SEC 27 T29N R10E WM
SNOHOMISH, CO., WASH
Scale: 1"=400'
DMEA-4938
Apparent position of Section Line as found marked on ground
POLAR
LONE STAR No. 3
MINT No. 3
Jerry Chapman Drift 169
Open Cut
Slide
LONE STAR No. 2
MINT No. 2
Open Cuts
SILVER KING
Open Cut
LONE STAR No. 1
MINT No. 1
Mint Canyon
Vein
No. 1 Tunnel Elev. 2550
Proposed crosscut MINT and drift
Lower Drift
CANYON
Iowa Peak
Iowa
Sultan River
MILL SITE
Cabin
Log Cabin
CALUMET
Open Cuts
Proposed Tunnel
Apparent position of 1/4 Section Line
1/4 Sec Cor
FLORENCE RAE GROUP
2000
2500
3000
3500
4000
4500
5000
Exhibit C
James W. Chasi
GS-6 U.S.B.P.A.
additions by F. Sommerschmidt DMEA

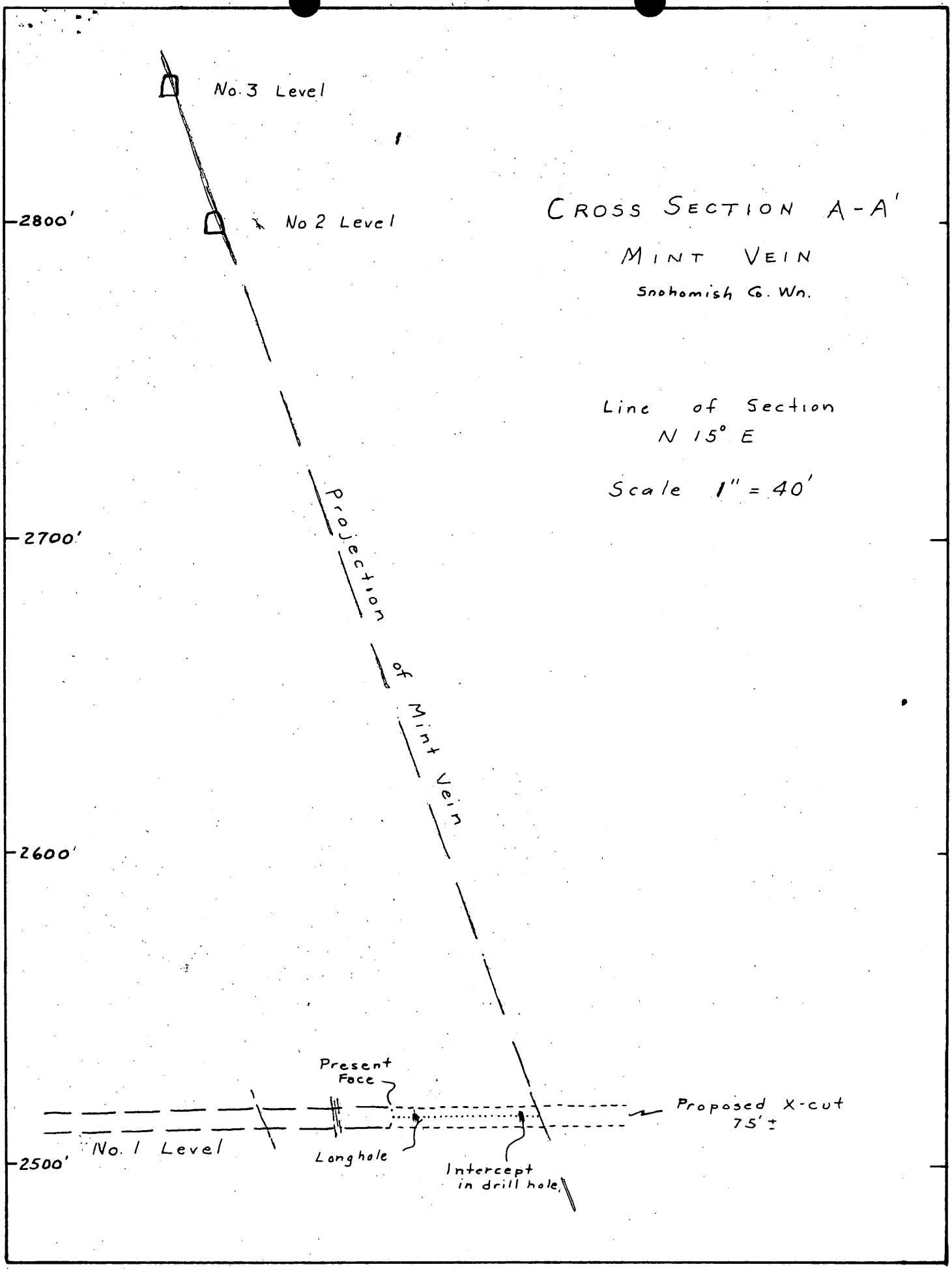

No. 3 Level
No 2 Level
2800'
2700'
2600'
2500'
Projection of Mint Vein
Present Face
Long hole
Intercept in drill hole
No. 1 Level
Proposed X-cut 75' ±
CROSS SECTION A-A'
MINT VEIN
Snohomish Co. Wn.
Line of Section
N 15° E
Scale 1" = 40'

FIGURE II

OFFICIAL FILE COPY
DMEA
RECEIVED FEB 6

DATE	INITIALS	CODE

N ADMINISTRA
IGTON 25, D. C.

IAL BUSINESS

Docket copy

225

Project Summary Report

By: J. W. Alt

February 18, 1960

1. Docket No. DMEA-4938 (Copper)
Contract No. Idm-E1179

Operator - Robert T. Curtiss, an individual
RFD No. 1, Box 156
Monroe, Washington

Property - Mint Claims
Snohomish County, Washington

Operator's Property Rights - Lessee

Lease and Option to Purchase Sultan Basin Mining Company to Robert Curtiss and John C. Robers, dated April 5, 1950.
Assignment to Robert Curtis, dated May 25, 1954
Consent to Lien and Subordination Agreement, dated January 6, 1958

2. Contract, Form MF-200A (April 1956), dated March 19, 1959.
Work to start on or before May 1,1958.
Work to be completed within 8 months.

Description of the Work

On the No. 1 level, crosscut north a maximum distance of 75 feet, to cut through the mineralized zone that was intersected, at a distance of approximately 40 feet ahead of the face of the crosscut, by long hole drilling. Drift east and west along this mineralized zone for not to exceed an aggregate of 175 feet.

Drift a maximum of 50 feet on the structure previously intersected by the crosscut described above.

Timber crosscut and drifts as necessary, not to exceed 200 feet of timgering.

Perform not to exceed 250 feet of long hole drilling.

Not to exceed 50 samples to be assayed for gold, silver and copper.

Initial repairs to a compressor, compressor building, and tramway are allowable costs to the project if approved by the Government.

Estimated Costs of the Project

Fixed Unit Costs

Drifting and crosscutting, 300 feet @ $31.00/ft.		$9,300.00
Timbering 200 feet @ $7.00/ft.		1,400.00
Long hole drilling, 250 feet @ $1.00/ft.		250.00
Initial Repairs		
Compressor	$100.00	
Tramway	300.00	
Compressor	100.00	
		500.00
Assays, 50 samples assayed @ $3.40/sample		170.00
Estimated total cost of new work		$11,620.00
Government Participation @ 50%	$5,810.00	
Total cost of Docket No. DMEA-2435 (Prior Contract)		$15,936.76
Government Participation @ 50% (Repayable under this contract, See Annex II).	7,968.38	
Estimated Total Cost of Both Projects		$27,556.75
Government Participation @ 50% (Repayable under this contract)	$13,778.38	

Amendments -

No. 1 agreed November 4, 1958, effective October 17, 1958.
Change in the description of the work.
Suspends work beginning December 1, 1958, and ending not later than June 15, 1959.
Completion time extended from November 19, 1958 to September 19, 1959.
Royalty payment period increased from 10 years to 11 years.
Effective December 1, 1958, if the work has not been resumed on or before June 15, 1959.
Effective September 19, 1959 if the work is resumed on or before June 15, 1959, but is not completed on or before September 19, 1959.
If the above conditions are not met, there is a pseudo certification contained in this amendment.

Work Completed

Crosscutting and drifting 300 feet @ $31.00/ft.		$9,300.00
Long hole drilling 250 feet @ $1.00/ft.		250.00
Compressor	$100.00	
Tramway	300.00	
Compressor building	100.00	
		500.00
Sampling and analysis, 14 samples @ $3.40/sample		47.60
Total Cost		$10,097.60

Final Reports

Operator's final report dated August 23, 1959 received August 26, 1959.
Field Team's final report dated January 1960 received February 1, 1960.
Work on the project under the terms of the contract was commenced on April 26, 1958, and was completed on September 19, 1959.

3. Audit Report of Review, made in lieu of a final audit, dated September 21, 1959.

Total cost as billed by Contractor	$10,192.80
Exceptions	95.20
Total Accepted Cost	$10,097.60
Government Participation @ 50%	$5,048.80

4. Certification of discovery - None issued.

5. Comments -

The contract work was carried out in a satisfactory manner.

The work done under the contract was a continuation of the work performed under Contract No. Idm-E417, Docket No. DMEA-2435. Under this previous contract, a certification was not made as there was no significant discovery of copper ore.

Seventy-one feet of crosscutting and a 55-foot long hole from the end of the No. 1 level crosscut indicated that the structures previously intersected were very probably the downward extension of the structures exposed in the upper workings. Two hundred twenty-nine feet of drifting westerly on the south structure (No. 3 vein) failed to encounter copper mineralization in commercial quantities.

5. Comments (continued) -

The Operator cut a series of 13 samples in the back across the structure (No. 3 vein) in a portion of the west drift. These samples, with an average width of 2.7 feet over a distance of 110 feet, had a weighted average of 1.92 percent copper, 0.23 percent MoS_2, trace of gold, and 0.57 ounces of silver per ton. If we assume this mineralization continues above and below the level for a distance of 110 feet, we have an estimate of 2,722 tons. Expanding this width to 4 feet would give a weighted average of 1.29 percent copper, 0.15 percent MoS_2, trace of gold, and 0.38 ounces of silver per ton. Using the same assumption as above, we would have an estimate of approximately 4,000 tons computed at the expanded width and its corresponding grade.

An ore body with an average width of 2.7 feet and a length of 110 feet would certainly not be practical to mine, and the expanded width of 4 feet would result in an ore not of economic grade.

An economic analysis showing results of a proposed mining and milling of this ore would give the following results:

Market price 33¢/lb. copper
90¢/oz. silver

Assumed mill extraction - 92% Cu, 85% Ag.

100 tons ore 1.29% Cu, 0.38 Ag.
100 x 1.29 x 92% = 1.187 tons Cu.
100 x 0.38 x 95% = 32.30 oz. Ag.

Assume concentrate grade 30% Cu. = 3.957 tons concentrate 30% Cu.
8.16 oz. Ag.

Smelter Liquidation

Copper price 33¢ - 4¢ (refining and delivery charges) = 29¢ per lb.

Copper lbs. 600 - 10 lbs. (smelter penalty) = 590 lbs. x 29¢		$171.10
Silver 8.16 x 95% x 90¢		6.97
Concentrate value per ton		$178.07
Less treatment	$8.00	
Less freight	5.00	
	$13.00	
Net concentrate value per ton		$165.07
3.957 tons x $165.07 =		$653.18
$653.18 ÷ 100 tons =		$6.53 value per ton of ore

5. Comments (continued) -

Assume mining and milling costs $15 per ton crude ore.

$15.00	cost
6.53	value
$ 8.47	operating loss per ton.

Therefore, the above ore is hopelessly below grade and should not be certified as a discovery.

The Division of Minerals concurs with the recommendation of the Field Team that a certification of discovery not be issued.

Vein No. 4 warrants further exploration to the west to determine whether or not it contains minable ore.

J. W. Alt

JWAlt/kb/gla/fw
cc to: Director's Reading File
Mr. Alt
Docket
Chron.

Mr. Griswold

Report should show basis for justifying our decision, not just relying on Field Team

Report should show economic analysis Korean Mission has given. AL

5. Comments (continued) -

The Operator cut a series of 13 samples in the back across the structure (No. 3 vein) in a portion of the west drift. These samples, with an average width of 2.7 feet over a distance of 110 feet, had a weighted average of 1.92 percent copper, 0.23 percent MoS_2 trace of gold, and 0.57 ounces of silver per ton. If we assume this mineralization continues above and below the level for a distance of 110 feet, we have an estimate of 2,722 tons. Expanding this width to 4 feet would give a weighted average of 1.29 percent copper, 0.15 percent MoS_2 trace of gold, and 0.38 ounces of silver per ton. Using the same assumption as above, we would have an estimate of approximately 4,000 tons computed at the expanded width and its corresponding grade.

An ore body with an average width of 2.7 feet and a length of 110 feet would certainly not be practical to mine, and the expanded width of 4 feet would result in an ore not of economic grade. Therefore, this project should not be certified as a discovery.

The Division of Minerals concurs with the recommendation of the Field Team that a certification of discovery not be issued.

Vein No. 4 warrants further exploration to the west to determine whether or not it contains minable ore.

J. W. Alt

JWAlt/kb/gla
cc to: Director's Reading File
Mr. Alt
Docket
Chron.

Form 17
. 59

OFFICE OF MINERALS EXPLORATION

WORK COMPLETED ANALYSIS

___ Certified — After final audit or review report is received, prepare in duplicate. File original in official docket. Send copy to Code 210.

Operator: ROBERT T. CURTISS — Actual Cost

State: WASHINGTON — Agreed Unit Cost X

Final Report of Audit — Commodity: COPPER — Docket No. DMEA-4938

Final Report of Review 9/21/59. — Contract No. Idm-E1179

Type of Work (Use these categories only)	Authorized by Contract and Amendments		Completed and Paid for		Net cost after sale of Gov't. Property
	Units	Cost 1/	Units	Cost 1/	
5' x 7' Drifting & Crosscutting	300' @ $31.00/ft.	$ 9,300.00	300'	$ 9,300.00	$ 9,300.00
~~XXXXXXX~~ Timbering	200' @ $7.00/ft.	1,400.00			
Shafts					
Winzes					
Drilling (Specify) Long-hole	250' @ $1.00/ft.	250.00	250'	250.00	250.00
Surface Excavation					
Underground Excavation					
Roads and Trails					
Operating Equipment Purchased					
Initial ~~XXXXXXX~~ Compressor Rehabilitation & Repairs		100.00		100.00	100.00
~~XXXXXXXXXXXXXXXXXXXXXXXXXXXX~~ Tramway		300.00		300.00	300.00
~~XXXXXXXXXXXXXXXXXXXXXXXXXXXX~~ Compressor Bldg.		100.00		100.00	100.00
Other (Specify) Assays--50 samples @ $3.40/sample		170.00	14	47.60	47.60
Totals for this contract.		$11,620.00		$10,097.60	2/ $10,097.60
Total of DMEA-2435		15,936.76		15,936.76	
Total		$27,556.76	Spent	$26,034.36	

1/ Round off to dollars.
2/ Net cost total must agree with final report of audit or review.

Prepared by W. P. Klugescheid Date 10/2/59.

52616

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
1/27	Johnson	110
	Selfridge	120
		220

JAN 27 1966

Mr. Philip L. Heaton
Assistant Regional Forester
U. S. Department of Agriculture
P. O. Box 3623
Portland, Oregon 97208

Re: DMEA-4938 (Copper)
Robert T. Curtiss
Mint (Iowa) Claims
Snohomish County, Washington
Contract No. Idm-E1179

Dear Mr. Heaton:

This is with reference to your January 11, 1966, letter regarding certain maps on the following two properties in connection with DMEA applications:

Norman Chapman - Claimant
Doris Group of Lode Mining Claims
Sultan Basin Mining District
Snohomish County, Washington
DMEA Docket No. 3133 (Copper)

R. T. Curtiss - Claimant
Mint Group of Claims
Sultan Basin Mining District
Snohomish County, Washington
DMEA Docket No. 4938 (Copper)
(Continuation of DMEA Docket No. 2435)

We are enclosing a copy, in two sections, of a map titled "Geology of the No. 1 Level and Upper Workings, R. T. Curtiss, Mint Claims, Snohomish County, Washington," for confidential use of the Government only. We believe this map shows the data mentioned in your letter. A check of the DMEA storage files on applications to explore for copper in Snohomish County, Washington, fails to reveal any application on the Doris Group of Claims. The Docket No. 3133 which you gave as reference is for a mica application in New Hampshire. If you have the name of the applicant and correct DMEA Docket Number for the Doris Group we will check our records again for the map you requested.

cc: Director's reading file
Division file
Economic Geology file
OME file
OME reading file
OME Region I

FEJohnson/bih 1/27/66

Enclosures

Sincerely yours,

(signed) FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

23263

UNITED STATES DEPARTMENT OF AGRICULTURE
FOREST SERVICE
PACIFIC NORTHWEST REGION
POST OFFICE BOX 3623
PORTLAND, OREGON 97208

OFFICIAL COPY
O. M. E.
RECEIVED
JAN 14 1966
INITIALS | CODE
110

IN REPLY REFER TO

2810

January 11, 1966

AIRMAIL

Mr. Frank Johnson
Chief, O.M.E. Branch
United States Geological Survey
Washington 25, D. C.

Dear Mr. Johnson:

We have been examining mining claims in the Sultan Basin of Washington within the Snoqualmie National Forest as a result of verified statements received under Public Law 84-167. This law, often referred to as the Multiple-Use Mining Law, prescribes certain procedures whereby the Government may obtain the right to manage the surface of unpatented mining claims, with the condition that such management will not materially interfere with mining, prospecting, processing operations, or uses reasonably incident thereto. The law also provides that a mining claimant may retain his surface rights on claims located prior to the law (July 23, 1955) by filing a verified statement noting the claims and locations. In the latter instance we must examine all such claims to determine if the asserted rights are valid. This involves a field examination of the claims by qualified geologists or mining engineers and the preparation of a report of their findings. The reports are similar to those prepared by the U. S. Geological Survey and contain data on areal and economic geology, history and production, together with maps and assays. We have, in fact, sent copies of some 75 of these mineral reports from this Region of the Forest Service to the U. S. Geological Survey in Washington, D. C. We send these reports periodically as the cases involving the reports are closed.

In the course of our examination of the mining claims for which surface rights are asserted, we have encountered the following two properties which were examined by the USGS in connection with DMEA loan applications:

Norman Chapman - claimant	R. T. Curtis - claimant
Doris Group of Lode Mining Claims	Mint Group of Claims
Sultan Basin Mining District	Sultan Basin Mining District
Snohomish County, Washington	Snohomish County, Washington
DMEA Docket #3133 (copper)	DMEA Docket #4938 (copper)
	(Continuation of DMEA Docket #2435)

The access to the Chapman property is particularly difficult. An attempt was made last summer to find the workings on this group, but the trails

were in such poor condition that no workings were reached. The workings on the Curtis property were found; however, only one working was accessible. Consequently, we were unable to make a satisfactory examination of either property.

The owner, or their heirs, in both cases informed our engineer of the DMEA examinations. They each produced their copy of the geological and assay map from the DMEA report and allowed our engineer to examine it. From his brief study of their maps, the engineer involved believes that in both instances the geological and assay data appeared to be favorable for developing a valuable mineral deposit. Both claimants gave their permission for us to obtain a copy of this map with assay data prepared by the USGS. This is the only part of the report or data in each case that we would need. Both maps were prepared by Willard P. Puffett on a scale of 1" = 20' and were dated September 20, 1953, and 1952-1959, respectively.

Your cooperation in furnishing us a copy of each of the maps would save the Government a considerable amount of expense in trying to obtain data that you already have gathered. We wish to assure you that the maps and information will be kept confidential and that, since the mineral values in both instances are appreciable, the data will be of benefit to the mining claimants.

Sincerely yours,

Philip L. Heaton

PHILIP L. HEATON
Assistant Regional Forester

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
2/19	ALP	500
	Hirsch	500
2/26	Faldut	800
2/26	Selfridge	120
		~~110~~
3-8	gad	220
		225

Held until

MAR 8 1960

Mr. Robert T. Curtiss
R.F.D. 1, Box 156
Monroe, Washington

Re: Docket No. DMEA-4938 (Copper)
Robert T. Curtiss
Mint (Iowa) Claims
Snohomish County, Washington
Contract No. Idm-E1179

Dear Mr. Curtiss:

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

We sincerely regret that the work performed did not result in a certification of discovery or development 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 project. Your attention, however, is called to the provisions of the contract which require the operator to keep and preserve certain records for the period indicated.

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

Sincerely yours,

Frank E. Johnson

Acting Director

Copy to:
Sultan Basin Mining Company
R.F.D. 1, Box 156
Monroe, Washington

GLAult/a
2-19-60
cc to: Director's Reading File
CA&A Division
OME Field Team, Region I (2)
Docket

Chron
Code 500

43683

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
2/19	[illegible]	500
	[illegible]	500
Held until 2/26	[illegible]	800
2/26	[illegible]	120 ~~110~~
3-8	gad	220
		225

MAR 8 1960

Sultan Basin Mining Company
R.F.D. 1, Box 156
Monroe, Washington

Re: Docket No. DMEA-4938 (Copper)
Robert T. Curtiss
Mint (Iowa) Claims
Snohomish County, Washington
Contract No. Idm-E1179

Gentlemen:

Enclosed is a copy of a self-explanatory letter of today to the Operator under the above-cited contract.

This correspondence relates to the Consent to Lien and Subordination Agreement signed by you on January 6, 1958, under the DMEA program.

Sincerely yours,

Frank E. Johnson (for)

Acting Director

Enclosure

GLAult/a
2-19-60
cc to: Director's Reading File
OME Field Team, Region I (2)
Code 500
Docket
Chron

43683

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

OFFICIAL FILE COPY
O. M. E.
RECEIVED FEB 4 1960

DATE	INITIALS	CODE
2/4	RCW	225
2/5	alt	500

February 4, 1960

Memorandum

To: W. R. Griswold, Office of Minerals Exploration

From: Commodity Specialist, Branch of Base Metals

Subject: Review of final Field Team Report, Docket No. DMEA 4938, Robert T. Curtiss, Mint Claims, Snohomish County, Washington, Contract No. Idm-E1179, $10,097.60

The examiners report that the completed exploration exposed a mineralized area in which 13,000 tons of material averaging 1.92 percent copper is indicated and another 13,000 tons of the same material is inferred. They conclude that this reserve is not ore under present or forseeable economic conditions and recommend that a certificate of discovery not be issued.

I concur in the examiners' recommendation.

A. D. McMahon

A. D. McMahon

Copy to: Division of Minerals (2)
Branch of Base Metals (2)
Harold Kirkemo, U.S.G.S.
F i l e s

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
So. 157 Howard Street
Spokane 4, Washington
January 28, 1960

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2-1	gad	220
2-1	HB	130
"	JEG	110
2-5	HB.	130
2-8	ALT	220

Memorandum

To: Chairman, Operating Committee, OME

From: OME Field Team, Region I

Subject: Docket No. DMEA-4938 (Copper)
Robert T. Curtiss
Mint Claims
Snohomish County, Washington
Contract No. Idm-E1179

Enclosed are three copies of a Field Team final report on the referenced project by E. A. Magill, Mining Engineer, Bureau of Mines, and R. D. Sample, Geologist, Geological Survey.

The work completed included 300 feet of crosscutting and drifting, 250 feet of long-hole drilling, and the taking and assaying of 14 samples. The total cost of the project was $10,097.60, of which the Government's share was $5,048.80 or 50 percent.

Although the project was successful in discovering a small body of submarginal ore, Magill and Sample believe that it is doubtful that this material can be profitably mined under foreseeable economic conditions and therefore they recommend that no certification of discovery be made. They conclude that further exploration to the west is warranted on the No. 4 vein.

We concur with these conclusions and recommendations.

By Field Team, Region I

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

Stephen A. Tolchak
for O. M. Bishop, Member
U. S. Bureau of Mines

Enclosures

Reviewed by
OME OPERATING COMMITTEE
2-5-60
(date)

FINAL F.T. REPORT

DEPARTMENT OF THE INTERIOR

OFFICE OF MINERALS EXPLORATION

FIELD TEAM, REGION I

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FINAL REPORT

Contract Idm-E1179

by

E. A. Magill
Mining Engineer
U. S. Bureau of Mines

R. D. Sample
Geologist
U. S. Geological Survey

ROBERT T. CURTISS
Route 1, Box 156
Monroe, Washington

Docket No.:	DMEA-4938
Commodity:	Copper
Contract date:	March 19, 1958
Completion date:	September 19, 1959

Reviewed by
OME OPERATING COMMITTEE
2-5-60
(date)

Mint Claims
Sultan Basin Mining District
Snohomish County, Washington

Spokane, Washington

January 1960

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ILLUSTRATIONS

Plate 1. Location map	In pocket
2. Claim map	In pocket
3. Section A-A'	In pocket

FINAL REPORT

ROBERT T. CURTISS
Mint Claims
Sultan Basin Mining District
Snohomish County, Washington

Contract Idm-E1179

* * * *

INTRODUCTION

This report describes the results of an exploration project for copper ore at the Mint claims in the Sultan Basin, Snohomish County, Washington. The project was conducted jointly by the Defense Minerals Exploration Administration and Robert T. Curtiss, Operator, and was supplemental to the project described in a Field Team final report on DMEA Docket 2435, Contract Idm-E417.

Summary

An exploration project contract in the amount of $11,620 was entered into on March 19, 1958, and was completed on September 19, 1959. Total expenditure under the contract was $10,097.60, of which the Government's share was 50 percent or $5,048.80.

The purpose of the project was to test with long hole drilling, crosscutting, and drifting for the downward extension of the Iowa vein which occurs in granodiorite. Three hundred feet of crosscutting and drifting and 250 feet of long hole drilling were used to explore an area 300 feet beneath the upper workings where the vein had previously been exposed (pl. 3). This work was a continuation of the work carried out under Contract Idm-E417.

Seventy-one feet of crosscutting and a 55-foot long hole from the end of the No. 1 level crosscut indicated that the structures previously intersected were very probably the downward extension of the structures exposed in the upper workings. Two hundred twenty-nine feet of drifting westerly on the south structure

(No. 3 vein) failed to encounter copper mineralization in commercial quantities. A series of channel samples taken by the Operator at 10-foot intervals along a 110-foot section of the drift averaged 1.92 percent copper and 0.23 percent MoS_2 across an average width of 2.7 feet.

Fifty feet west of the crosscut the drift intersected a body of peridotite which caused the mineralized structure to flatten in dip and swing southwesterly. This change in strike and dip casts some doubt as to whether the structure can be correlated to the vein in the upper workings.

The project was completed on September 19, 1959, with the total expenditures amounting to $10,097.60, the Government's share being $5,048.80. There was completed under the contract 229 feet of drifting and 71 feet of crosscutting at a unit cost of $31 per foot and 250 feet of long hole drilling at a unit cost of $1 per foot. Rehabilitation and repairs amounted to $500. Assays cost $142.80.

The exploration work was instrumental in discovering 13,000 tons of indicated ore and 13,000 tons of inferred ore with an average grade of 1.92 percent copper and 0.23 percent MoS_2.

Recommendations

Although the project was successful in discovering a small body of submarginal ore, it is doubtful that this material can be profitably mined under foreseeable economic conditions. Therefore it is recommended that no discovery be certified.

LOCATION AND ACCESSIBILITY

The Mint claims are located in secs. 26, 27, and 28, T. 29 N., R. 10 E., W.M., Sultan Basin Mining District, Snohomish County, Washington. The property is on the steep northeast slope of Red Mountain near the headwaters of the Sultan River and is generally inaccessible due to snow from late November to May. Sultan, Washington, on U. S. Highway 2 and the Great Northern Railroad is about 27 miles to the southwest via good Forest Service, logging, and mine-to-market roads (pl. 1).

PROPERTY

The property subordinated under the exploration project contract consists of the following unpatented lode mining claims (pl. 2):

Claim	Book	Page
Mint	40	108
Mint No. 1	40	108
Lone Star No. 1	40	158
Silver King	43	230

The claims are owned by the Sultan Basin Mining Company and are leased to Robert T. Curtiss.

The mine was first worked in the early 1900's, long before there was a road into the Basin. At that time it was necessary to pack all supplies in from the railhead at Sultan, some 27 miles distant.

In 1915 the property produced 104 tons of ore averaging 20 percent copper, 0.223 ounce gold, and 3.23 ounces silver per ton. Between 1937 and 1940, 96 tons of hand-sorted ore were produced. This production came from the narrow high-grade shoots of bornite and chalcopyrite on the No. 2 and 3 levels with one stope continuing through to the surface.

The property is developed on three levels; the highest level, the No. 3, is at an altitude of 2,839 feet, the No. 2 level is at 2,793 feet, and the No. 1 (DMEA) level is at 2,500 feet above sea level. Underground workings total approximately 1,550 linear feet.

The No. 1 level stands well and has required only a few stulls. The No. 3 level required some timber which is now rotted out and the drift has caved, as have the timbered portals of both the No. 2 and 3 levels. The workings make just sufficient water for drilling purposes.

Mine facilities consist of two cabins at river level, a jig back tram to service the No. 1 level, and a shed at the portal of No. 1 level which houses the compressor and mine tools.

GEOLOGY

The regional geology of the Sultan Basin District has been described by Ward Carithers and A. K. Guard in Washington State Division of Mines and Geology Bulletin 36 under the title of "Geology and Ore Deposits of the Sultan Basin, Snohomish County, Washington, 1945." Their report summarizes the geologic formations as follows:

> "The oldest formation recognized in the Sultan Basin is an extensive and complex series of metamorphosed rocks considered to be Paleozoic age. This formation is overlain by a younger series of continental beds--conglomerates, sandstones, and argillites--and is intruded by peridotite which is almost completely serpentinized. These formations are intruded by a batholith of quartz diorite which crops out over a large part of the basin. Unconsolidated morainal material and thin deposits of lacustrine clay occur on the valley floors as a result of Pleistocene glaciation."

No attempt was made by the writers to detail the complex stratigraphy or to correlate the formations with other areas. Further geological studies of the district will be necessary before adequate interpretations over a broad area can be made.

The deposits consist mostly of veins and mineralized faults cutting the quartz diorite and peridotite bodies. They carry quartz and carbonates with which are associated pyrite or other iron sulfides, chalcopyrite, molybdenite, galena, sphalerite, bornite, scattered amounts of scheelite, and small amounts of gold and silver. The gold and silver were the chief metals of value sought in the early days of mining. The veins are believed to be genetically related to the quartz diorite of Tertiary age. It is also believed that the veins represent fillings along complex shear zones, sometimes with many diverging offshoots, and that mineralization was controlled not only by structure but also by temperature, chemical composition of the wall rocks, and nature of the ore solutions. Within a vein or fracture zone the ore may be localized as pods and lenticular bodies at junctions of main and branch structures, at fracture intersections, or in portions of the more favorable west-striking structures.

Local Geology

The geology at the Mint property has been adequately described in the final report of Contract Idm-E417, dated November 1957. The present report (Contract Idm-E1179) is merely a continuation of the former report (pl. 3). The only significant difference in the continued program was the change in rock

character found by the westward drifting and drilling. In the former contract all the crosscutting, drifting, and drilling was within quartz diorite. The extended northerly crosscut, under the latter contract, continued for a distance of approximately 70 feet plus a 55-foot drill hole in the same quartz diorite rock (pl. 3). However, the drift westerly from the crosscut and along slightly mineralized shears ran out of the quartz diorite at about 55 feet and into a black, slightly altered peridotite dike or stock. The structures continue through the contact and into the peridotite body for 175 feet to the face of the drift. There was no increase of mineralization in the vein where it passed from quartz diorite into the peridotite although for a short distance the rocks were slightly more shattered and altered.

The width of mineralization along the shear structures in the peridotite varies from a fraction of an inch to almost a foot in places. Beginning at about 50 feet from the contact and continuing for a 20-foot interval, the mineralized zone consists of 0.5 foot of solid sulfides, principally chalcopyrite but with some bornite, molybdenite, and galena. A sample (59-2) 0.5 foot in width representing this area shows the following results: Gold, trace; silver, 1.68 ounces per ton; copper, 15.6 percent; and molybdenum, 0.78 percent. Another sample (59-1) 0.3 foot in width shows: Gold, trace; silver, 23.84 ounces per ton; copper, 16.1 percent; and molybdenum, 0.40 percent. These samples represent the better mineralized portions of the faulted structures and not the true average grade.

The peridotite in and near the shear structures is strongly serpentinized and is in contrast to the dark, almost black peridotite away from the structures. A sample of the peridotite which is strongly magnetic was sent to H. D. Hess, Head, Petrographic Laboratory, U. S. Bureau of Mines, Albany, Oregon, who states:

> "The sample consists essentially of massive serpentine with some associated fine-grained magnetite and chlorite and small amounts of chrysotile and secondary calcite.
>
> "The magnetic mineral is magnetite, which is very finely disseminated throughout the sample."

Although small pods and thin lenses of good ore appeared sporadically along the structures in the vest drift, none appeared favorable for developing into a minable ore body. There are no criteria for believing that the slightly mineralized structure (No. 3 vein) will ever lead to a sizable ore shoot.

THE PROJECT

The Mint claims have been explored under two DMEA contracts. The first contract, Idm-E417, was entered into on October 7, 1952, and completed on October 7, 1956. The work carried out under that contract has been described in a final report by E. A. Magill, Bureau of Mines, and D. F. Kellum, Geological Survey, dated November 1957. The work carried out under the second DMEA contract (Idm-E1179) is the subject of this report.

Prior to any DMEA exploration about 200 tons of good-grade copper ore had been selectively mined from the Iowa vein on the No. 2 and 3 levels. A lower level (No. 1) had been started 293 feet beneath the No. 2 level in an attempt to locate the vein on that horizon. This level had been advanced as a crosscut for 225 feet at the time the first contract was granted the Operator. Under this contract the crosscut was continued for 73 feet; at 58 feet a weak north-dipping shear zone (Vein No. 1) was intersected. This shear zone was followed westerly for 230 feet. As the work advanced, it became apparent that this structure could not be the downward extension of the Iowa vein. Consequently, the heading was turned northward and advanced 148 feet (all the footage remaining in the contract) to bring the heading beneath the upper workings. This crosscut intersected three structures (Veins No. 2, 3, and 4), two of which were well mineralized. The Operator applied for additional exploration assistance, but it was denied in that he no longer controlled the property, it being then under lease to Howe Sound Company.

Contract Idm-E1179 was entered into on March 19, 1958. The work under this contract was undertaken to determine if the structures encountered in the crosscut during the previous contract were the downward extensions of the Iowa vein and to drift on the most promising structure. Three hundred feet of crosscutting and drifting and 250 feet of long hole drilling were authorized under the contract. Work was commenced on April 26, 1958, and was completed on September 19, 1959. There was only one amendment to the contract.

Amendment No. 1, dated November 4, 1958, provided that all the drifting could be on one of the structures previously intersected. It also recessed the exploration work from December 1, 1959, until not later than June 15, 1959. Completion date was extended from November 19, 1958, to September 19, 1959. Period for royalty payments was increased from 10 to 11 years from the date of the contract.

The exploration work failed to develop ore reserves of sufficient grade or size to warrant operation of the property under present or foreseeable conditions.

The Operator cut a series of channel samples in the back across the structure (No. 3 vein) in a portion of the west drift. These samples, with an average width of 2.7 feet over a distance of 110 feet, had a weighted average of 1.92 percent copper, 0.23 percent MoS_2, trace of gold, and 0.57 ounce silver per ton. If we assume this mineralization continues above and below the level an equal distance, we have:

$$\frac{110 \times 110 \times 2.7}{12 \text{ cu. ft.}} = 2{,}722 \text{ tons}$$

for which sufficient samples have been cut to give a reasonably accurate estimate of its grade. Although the mineralization is lenny and sporadic, it is believed that the area sampled is about representative for the vein structure along the entire length of the drift, a distance of 240 feet. Assuming that the mineralization extends vertically as far as horizontally, we have a total indicated tonnage of:

$$\frac{240 \times 240 \times 2.7}{12} = 12{,}960, \text{ say } 13{,}000 \text{ tons which includes the } 2{,}722 \text{ tons estimated above.}$$

An inferred tonnage can be assumed to be equal that indicated, or 13,000 tons.

The assumed grade of both the above estimates would be:

1.92 percent copper

0.23 percent MoS_2

Trace ounce per ton gold

0.57 ounce per ton silver

There also remains the possibility that Vein No. 4 contains some reserves, although it has not been developed sufficiently to be able to credit it with any tonnage. Two samples cut across the mineralized structure on either wall had an average width of 1.5 feet and contained 4.28 percent copper, 0.06 ounce gold per ton, and 2.0 ounces silver per ton.

Exploration Possibilities

The No. 3 vein which has been explored under this contract is not of commercial grade under present or foreseeable conditions. It is believed that Vein No. 1 has been adequately explored. Vein No. 2 does not appear strong enough to warrant any work. Vein No. 3 has been adequately explored at least until more information is available on the relationship of the peridotite to the mineralized structures.

Vein No. 4 warrants further exploration to the west to determine its relationship with the peridotite and whether or not it contains minable ore. It is possible that the dark, green basic dike which accompanies Vein No. 4 is a part of the peridotite body which was intersected in the No. 3 vein drift. Drifting, or a steeply inclined raise to the westward on No. 4 vein would give the answer.

Summary of Factual Data

	Units authorized	Units completed	Unit cost	Total cost
(1) Independent Contracts				
Crosscutting and drifting	300 ft	300 ft	$31.00	$ 9,300.00
Long hole drilling	250 ft	250 ft	1.00	250.00
(5) Initial Rehabilitation and Repairs				
Compressor	$100.00	$100.00	$100.00	100.00
Tramway	300.00	300.00	300.00	300.00
Compressor building	100.00	100.00	100.00	100.00
(7) Miscellaneous				
Sampling and analysis	50 each	14 each	$3.40	47.60
Total cost				$10,097.60

Total amount of contract	$11,620.00
Government's share at 50 percent	5,810.00
Total amount expended	$10,097.60
Government's participation	5,048.80
Total amount unexpended	$ 1,522.40
Government's share unexpended	761.20
Royalty payments received	none

No ore was sold during the project.

All costs involved in the project were on a unit cost basis.

The Government has no equity in operating equipment or supplies used on the project.

Discussion of Conclusions

The contract work was carried out in a satisfactory manner.

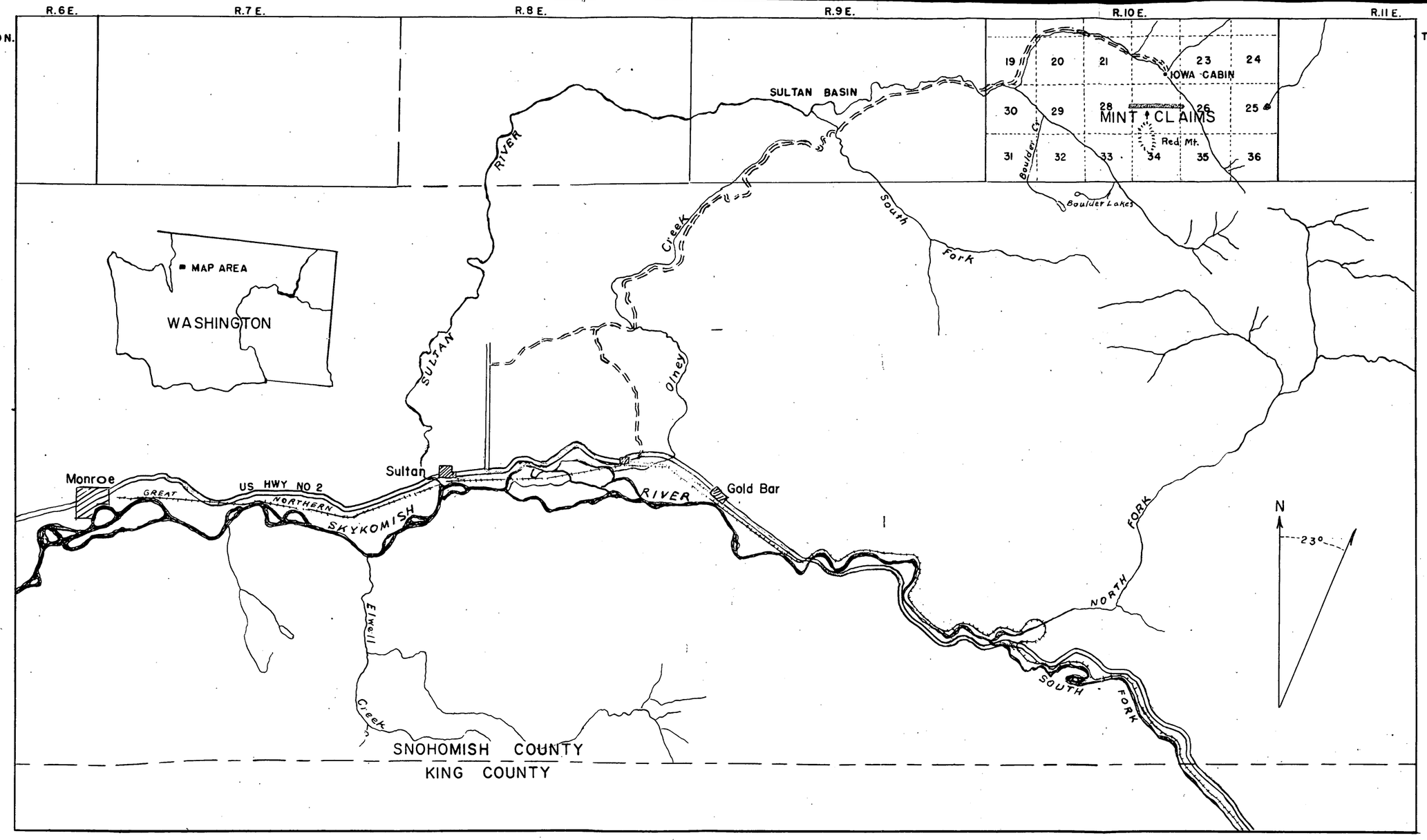
There remains some doubt as to whether or not the No. 3 and No. 4 veins constitute the downward extension of the Iowa vein. This doubt has been caused by the flattening of the dip and change in strike of the No. 3 vein when it encountered the peridotite.

Further exploration on the No. 4 vein to the westward is warranted to determine its relationship with the peridotite and whether or not the No. 4 vein contains a minable ore shoot in that area. An inclined raise, or diamond drill holes, which would intersect the structure above the No. 3 level would determine if the No. 4 vein is the downward extension of the Iowa vein.

Enclosures
Distribution:
CMB(3)
USBM(3)
USGS(SRO)
Docket
Sample

UNITED STATES
DEPARTMENT of the INTERIOR

OFFICE [redacted]



LOCATION MAP

MINT (IOWA) CLAIMS

ROBERT T. CURTISS

Snohomish County, Washington

0 1 2 3 4 MILES
R.D.S.

Sept. 1959 Docket No. DMEA-493B PLATE I

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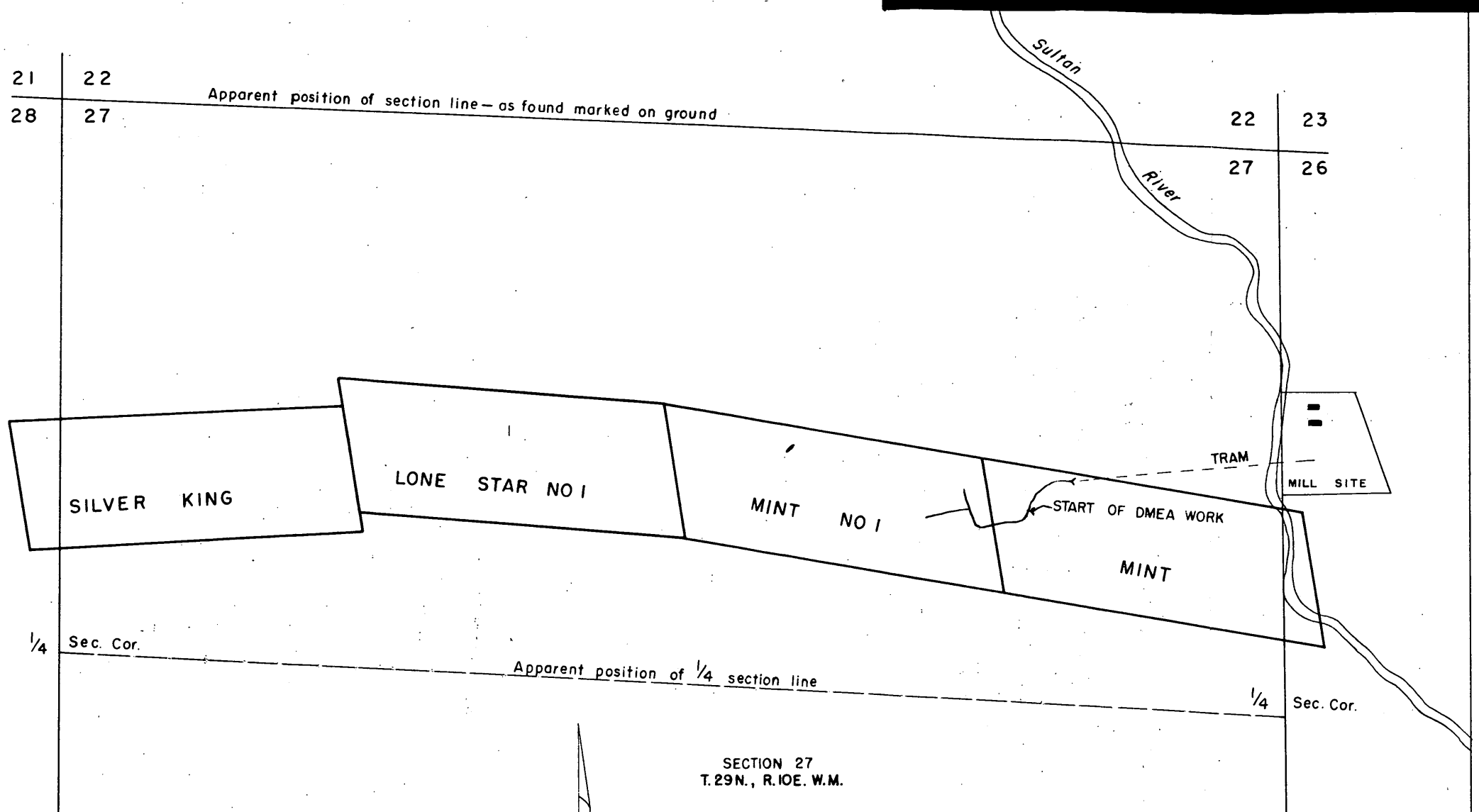
UNITED STATES
DEPARTMENT OF THE INTER

PREPARED FOR
OFFICE OF MINERALS EXPLORATION
FINAL REPORT

[redacted]



Note: Slightly modified from applicants map

CLAIM MAP

MINT (IOWA) CLAIMS

ROBERT T. CURTISS

Snohomish County, Washington

1" = 400'

100 0 100 500 1000 FEET

R.D.S.

Sept. 1959 Docket No. DMEA-4938

PLATE 2

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DATE	INITIALS	DE

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
So. 157 Howard Street
Spokane 4, Washington
October 21, 1959

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O. M. E.
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DATE	INITIALS	CODE
10/26	gad	VVO
10/26	[illegible]	500

Memorandum

To: Chairman, Operating Committee, OME

From: OME Field Team, Region I

Subject: Docket No. DMEA-4938 (Copper)
Robert T. Curtiss
Mint (Iowa) Claims
Snohomish County, Washington
Contract No. Idm-E1179

This is in reference to your memorandum of October 9, 1959, concerning certification under the cited contract.

Drifting has exposed a strong persistently mineralized structure, of which a section 110 feet long averages 1.92 percent copper and 0.23 percent MoS_2 across an average width of 2.7 feet. Assuming that the ore shoot persists 55 feet above and below the drift then there is indicated (110 x 110 x 2.7) ÷ 12 or 2,722 tons of ore. While this tonnage is not large, it is commensurable with the size of the project. However, the grade over a mining width is much lower than we had hoped to find. Such high-grade ore as exists is very narrow.

We doubt that material of this grade would be minable at normal prices and consequently are uncertain whether a Certification of Discovery or Development should be made.

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

Stephen W. Zoldok
Stephen W. Zoldok, Acting Member
U. S. Bureau of Mine

cc: USBM(2)
USBM(AD)
Sample

ROBERT T. CURTISS-ASSAYS IN DRIVE.

WIDTH AS TAKEN.		EXPANDED WIDTH.	
Width-Inches	% Cu.	Width-Inches.	% Cu.
15	12.7	48	3.97
42	3.20	48	2.81
31	2.12	48	1.37
12	4.34	48	1.09
34	0.33	48	0.23
52	0.14	48	0.14
42	1.06	48	0.92
19	9.70	48	3.83
35	0.86	48	0.63
39	2.45	48	1.99
38	0.82	48	0.65
20	5.29	48	2.20
48	0.48	48	0.48
20	1.49	48	0.62
20	3.84	48	1.60
30	1.73	48	1.08
24	4.76	48	2.38
	Total		25.99/17
	Average	48"	1.53% Cu.
	Length	235 feet---plus or minus.	

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O. M. E.
RECEIVED OCT 26 1959

DATE	INITIALS	CODE
10-26	gad	770
10/26	[illegible]	800
10/26	[illegible]	500

1201 N. Division St.
Spokane 2, Washington

October 22, 1959

Mrs. Dorothy Long, Certifying Officer
OME Field Team, Region I
1201 N. Division Street
Spokane 2, Washington

Re: Docket No. DMEA-4938 (Copper)
Robert T. Curtiss
Mint (Iowa) Claims
Snohomish County, Washington
Contract No. Idm-E1179

Dear Mrs. Long:

The work completed under the contract was done to the satisfaction of the Government. Work under the contract was completed by July 31, 1959. A final report evaluating the results of the exploration program has been presented by the Operator and accepted by the Executive Officer.

The Government has no interest in supplies or equipment purchased for use on the project.

A final Report of Review dated September 21, 1959, by OME Auditor Donald T. Finch, has been received.

As all contract requirements have been met, it is requested that final settlement of our account with the Operator be made.

Sincerely yours,

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

cc: OME (2)
USGS (●)
Contract Admin. & Audit Div. (2)
Docket

OME

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DATE	INITIALS	CODE
10-23	gad	rvo
10-23	[illegible]	[illegible]

So. 157 Howard Street
Spokane 4, Washington
October 20, 1959

Mr. Robert T. Curtiss
Route 1, Box 156
Monroe, Washington

Re: Docket No. DMEA-4938 (Copper)
Mint Claims
Contract No. Idm-E1179

Dear Mr. Curtiss:

Enclosed for your information and files is a Report of Review dated September 21, 1959, for the months of May to October 1958 and June to July 1959, inclusive, covering a project for the exploration of copper at the Mint Claims.

The audit discloses that there is a balance due you in the amount of $200.00 which is being scheduled for payment.

Sincerely yours,

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

Enclosure

cc: OME (2)
[illegible] Adm. & Aud. [illegible]
Mr. [illegible], Denver
[illegible]
A[illegible]

MME Form 7
(10-58)

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Date	Surname	Code
10/6	Klugescheid	500
	[illegible]	500
10/9	[illegible]	130
10/9	Johnson	110
10/12	RCW	220
		500

OCT 9 1959

Memorandum

To: Executive Officer, OME Field Team, Region I

From: Chairman, Operating Committee, OME

Subject: Docket No. DMEA-4938 (Copper)
Robert T. Curtiss
Mint (Iowa) Claims
Snohomish County, Washington
Contract No. Idm-E1179

We refer to your memorandum, dated September 9, 1959, in which you stated: "A pseudo-certification is incorporated in Amendment No. 1."

Amendment No. 1 contains a conditional pseudo-certification which would have required either that work was not begun before the expiration of the period specified for the recess, or that the work was not completed on the contract before the date set for completion. Neither of these conditions were fulfilled and therefore the pseudo-certification becomes null and void.

Will you kindly inform us as to whether you will recommend a certification of discovery or development and give us the necessary reasons and facts either pro or con.

George C. Selfridge

APPROVED:

Frank D. Lamb

Member, Bureau of Mines

Harold Kirkemo

Member, Geological Survey

WPKlugescheid/gla 10-6-59
cc to: Director's Reading File
Operating Committee
Mr. McMahon, USBM
Mr. Kirkemo, USGS
Docket
Chron

43683

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
10/2	RCa	220
10/9	[illegible]	[illegible]

OCT 1 1959

Memorandum

To: Mr. D. T. Finch, OME Auditor

From: E. D. Talbert, Acting Chief (Signed) E. D. Talbert
Contract Administration and Audit Division

Subject: Docket No. DMEA-4938 (Copper)
Robert T. Curtiss
Contract No. Idm-E1179

Your Report of Review in lieu of a final audit of the referenced project is acceptable and normal distribution is authorized after changing the month of "August" in the first paragraph to "July".

This correction has been made in the Washington copies.

EDTalbert/ama
October 1, 1959

Copy to: Docket
Director's Reading File
CA & A Division

Kluegl

43683

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

September 9, 1959

OFFICIAL FILE COPY O. M. E. RECEIVED SEP 14 1959		
DATE	INITIALS	CODE
9-14	gad	1V0
		1V0
9/15		800
9/16		600

Memorandum

To: Chairman, Operating Committee, OME

From: Executive Officer, OME Field Team, Region I

Subject: Docket No. DMEA-4938 (Copper)
Robert T. Curtiss
Mint Claims
Snohomish County, Washington
Contract No. Idm-E1179

Enclosed are the original and one copy of an Operator's Final Report dated August 23, 1959 and received August 26. This report is acceptable to the Field Team.

A pseudo-certification is incorporated in Amendment No. 1. ?

Also enclosed are the original and three copies of a final inspection report by E. A. Magill, Mining Engineer, U. S. Bureau of Mines.

A E Weissenborn
A. E. Weissenborn

Enclosures

Robert T Curtiss
Route 1. Box 156
Monroe, Wash.
Aug. 23 - 59

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BUREAU OF MINES
AUG 26 1959
SPOKANE, WASH.

Office of Minerals Exploration
1201 N Division st.
Spokane - 2 Wash.

Dear Sir;

Final report
Re. Docket no. 4938
Contract no. Idm-E 1179
Snohomish County, Wash.

Work performed prior to DMEA contract no Idm-E 1179 had advanced the workings as a cross cut Twenty five feet northerly past the intersection of shear zones no's 1 and no. 2 as shown on the accompanying sketch.

Based on the information gained from a fifty foot long hole driven notherly from face of this crosscut which had indicated some mineralization forty Two feet from the collar of the hole, and to eliminate possibilities of parallel shears, contract Idm-E 1179 called for advancing this crosscut northerly seventy five feet and to extend a long hole fifty five feet northerly from face of the cross cut.

This work was extended seventy one feet and the long hole driven. No significant mineralization was exposed.

Some mineralized fractures were cut and the enclosing quartz diorite showed considerable alteration.

At this point balance of the footage in contract Idm-E 1179 was diverted into drifting westerly on shear zone no. 1

First sixty five feet of this drift was enclosed by quartz diorite.

A fair amount of mineralization was present containg values in copper, gold, silver lead and zinc with considerable pyrite in some sections, gangue minerals were calcite quartz and highly altered quartz diorite. Strike of the vein here is nearly west and dips 85° to the North.

Widths and values represented are realitively narrow and are shown more clearly on the sketch.

About sixty five feet westerly from the crosscut the hanging wall of the drift contacted a mass of peridotite which became the hanging wall at this point. Here the strike changed several degrees south of west the dip flattened to 65° to the North and the structure tightened and became very narrow for about twenty five feet where the foot wall became peridotite and the structure entered the ultra basic rock.

At this point character of the mineral content changed no more zinc or lead being observed and the gold values disapeared almost entirely, however molybdenum now appeared in significant amounts and this character of mineralization remains thro out balance of the drift or about one hundred thirty nine feet.

Gangue minerals thro out this part of the drift consisted of calcite quartz and a white altered granite. All of this portion of the work is enclosed in peridotite.

The richer portion of the ore occurs on the foot wall side of the vein and would average ten inches to a foot in width some places showing considerable amounts of bornite and heavy amounts of molybdenum.

The overall width of the shear zone as observed is from three to five feet.

Assays shown on the accompanying sketch were conservatively cut over a minimum mining width to determine if a small mill would be feasible and do not represent any of the richer sections of ore.

The strike dip and position of this drift relative to the old Mint workings three hundred feet vertically above clearly show that there could be no connection one to the other.

It is now believed that the no.2 shear may be the downward extention of the old Mint vein and the original target for the exploration.

The no.2 shear at the cross cut shows one foot six inches of mineralization containing fair copper values with minor amounts of gold and silver a narrow basic dike with mineralized borders is carried between the vein walls.

Total vein width is about four and one half feet, both walls being quartz diorite, gangue minerals are quartz calcite.

A long hole intersected no.2 shear twenty feet east on strike which showed three and one half feet of mineralization very low in copper content but with good gold and silver values as indicated by assays shown on the attached sketch.

Surface rocks are well exposed in this area with no outcroping of any ultra basic rocks it is thought therefore that some exploration work is indicated in a vertical direction to determent the peridotite rock vertically and perhaps furnish a better condition for ore deposition

Some additional exploration is indicated on the no.2 shear as no footage has been driven here except the intersection with the crosscut.

As the peridotite does not cut the crosscut at any point it is possible that no.2 shear would by pass the ultra basic rock and provide a better enviornment for ore deposition

Some exploration of the nature outlined is now being seriously considered.

Respectfully Submitted

Robert T Curtis

RECEIVED
AUG 27 1959
U. S. G. S.
SPOKANE, WASH.

OFFICIAL FILE COPY
O. M. E.
RECEIVED SEP 8 1959

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1201 N. Division St.
Spokane 2, Washington

August 27, 1959

Mailed-8/31/59

CERTIFIED MAIL

MEMORANDUM

To: Donald T. Finch, OME Auditor

From: Certifying Officer, OME Field Team, Region I

Subject: Docket No. DMEA-4938 (Copper)
Robert T. Curtiss
Mint Claims
Snohomish County, Wash.
Contract No. Idm-E1179

Enclosed herewith is a memorandum from the Field Team, Region I, requesting a Report of Review, in lieu of final audit, of the subject contract. In addition, we are transmitting the following material needed to complete your review:

1. Contract and Correspondence File
(Includes Original Contract, Annex I and II, Exhibit "A" and Amendment No. 1).

2. Voucher File
(Mf-104 and 104A's, with attachments)

We have withheld an amount of $200.00, pending receipt of the Operator's final report and final audit.

Sincerely,

Dorothy F. Long

cc: Mr. Talbert
OME (2)
USGS (2)
USBM (AD)

OFFICIAL FILE COPY O. M. E. RECEIVED SEP 8 1959		
DATE	INITIALS	CODE
9-8	gad	110
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1201 N. Division St.
Spokane 2, Washington

August 27, 1959

Mailed - 8/31/59

MEMORANDUM

To: Donald T. Finch, OME Auditor

From: Executive Officer, OME Field Team, Region I

Subject: Docket No. DMEA-4938 (Copper)
Robert T. Curtiss
Mint Claims
Snohomish County, Wash.
Contract No. Idm-E1179

Work under the contract was completed to the satisfaction of the Government by July 31, 1959.

The number of units of work completed by the Operator and accepted by the Field Team as conforming to contract specifications were:

Item	Authorized	Completed
Drifting and crosscutting	300 ft.	300 ft.
Long hole drilling	250 ft.	250 ft.
Initial Repairs		
Compressor	$100.00	$100.00
Tramway	300.00	300.00
Compressor Building	100.00	100.00
Assays	50 ea.	14 ea.

An acceptable final engineering and geological report was received from the Operator on August 26, 1959.

The total amount of $4,848.80 has been paid to date to the Operator, $200.00 having been withheld pending final audit or review.

A Report of Review, in lieu of a final audit, is in order and requested.

A. E. Weissenborn

cc: Mr. Talbert
OME (2)
USGS (2)
USBM (AD)
Docket
DF

Monroe, Wash.
August 20, 1959

Office of Minerals Exploration
1201 N. Division St.,
Spokane 2, Wash.

Re: Robert T. Curtiss
Docket No. DMEA 4938
Contract Idm-E1179

Gentleman:

I notice that you have deleted $95.20 which was claimed for assays on my July 1959 voucher.

There have been 42 assays made. I am enclosing copies of the bills from the assayer to show the actual cost. As you will note the total cost is $168.00, while under the terms of the contract I can only claim participation in $142.80. I feel it is not the intent of the contract to place an unproportionate burden on the Operator.

I am enclosing a voucher for the 28 samples deleted from the July voucher. It is hoped that the above information will clarify the expense.

Respectfully submitted,

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O. M. E.
RECEIVED AUG 17 1959

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8/13	[illegible]	

1201 N. Division St.
Spokane 2, Washington

August 13, 1959

Mr. Robert T. Curtiss
Route 1, Box 156
Monroe, Washington

Re: Docket No. DMEA-4938 (copper)
Robert T. Curtiss
Mint (Iowa) Claims
Contract No. Idm-E1179
Monthly operating report
for July 1959

Dear Mr. Curtiss:

This is to inform you the subject voucher could not be paid in the full amount claimed.

The deletion is explained in the attached copy of a memorandum to the Field Team from the Certifying Officer, Region I.

By Field Team, Region I

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

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

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

OME Field Team, Region I

August 13, 1959

OME Certifying Officer, Region I

Robert T. Curtiss, Contract Idm-E1179
Monthly operating report for July 1959

The subject monthly operating report has been processed and forwarded to the Disbursing Officer for payment.

The Operator claimed $142.80 for 42 determinations. However, the contract authorizes 50 samples to be assayed for gold, silver and copper at $3.40 each sample not $3.40 per determination. Therefore, we have allowed 14 samples at $3.40 each or $47.60; resulting in a deletion of $95.20.

We are withholding an amount of $200.00 pending Operator's final report and final audit.

Dorothy P. Long

cc: OME (2)
USGS (2)
USBM (AD)
Contract Admin. (2)
Zoldok

OFFICIAL FILE COPY
O. M. E.
RECEIVED AUG 17 1959

DATE	INITIALS	CODE

COPY COPY

OME

Robert T. Curtiss
Route 1 Box 156
Monroe, Washington

June 8, 1959

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

Dear Sir:

In re: Contract No. Idm-E1179
Docket No. DMEA 4938
Snohomish County, Wash.

Wish to inform you that work was resumed the 15th of May, repairs to equipment was made, and completed first of June at which time drilling was started and is now being carried on as fast as conditions will permit.

Respectfully yours,

/s/ Robert T. Curtiss

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O. M. E.
RECEIVED JUN 15 1959

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Rec'd
June 10, 1959
USGS
Spokane, Wash.

(Ans. out 6/4/59)

OFFICIAL FILE COPY
O. M. E.
RECEIVED JUN 10 1959

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	J	

So. 157 Howard Street
Spokane 4, Washington

June 4, 1959

Mr. Robert T. Curtiss
Route 1, Box 156
Monroe, Washington

Re: Docket No. DMEA-1930 (Copper)
Robert T. Curtiss
Mint (Iowa) claim
Snohomish County, Washington
Contract No. Idm-11179

Dear Mr. Curtiss:

Item 2(a), Amendment No. 1, of your DMEA contract provides for a period of recess ending not later than June 15, 1959. Item 5(a)(1) further provides that if work has not been resumed on or before June 15 the contract will be automatically terminated as of December 1, 1959.

If you will not be able to resume work by June 15 for some reason beyond your control, you should immediately request an extension of the recess period giving the reason and the date on or before which work can be resumed. Whether or not the recess period could be extended we do not know.

Sincerely yours,

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

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

OFFICIAL FILE COPY
RECEIVED DEC 1 1958

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Office of Minerals Exploration
1201 N. Division St.
Spokane 2, Washington

12/11 C 220
14/14 800
~~12/16 Feb~~ 500

December 2, 1958

Mr. Robert T. Curtiss
Route 1, Box 156
Monroe, Washington

Re: Docket No. DMEA-4938 (copper)
Robert T. Curtiss
Mint (Iowa) Claims
Contract No. Idm-E1179
Monthly operating report for
October 1958

Dear Mr. Curtiss:

The subject monthly operating report has been processed and forwarded to the Disbursing Officer for payment.

We are withholding an amount of $50.00, pending resumption of work in the spring and upon receipt of your next voucher after work has been resumed.

By Field Team, Region I

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

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

cc: OME (2)
USGS (2)
Contract Admin. & Audit Div. (2)
USBM (AD)

So. 157 Howard Street
Spokane 4, Washington

November 10, 1958

OFFICIAL FILE COPY
O. M. E.
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11/14	C	220
11/14	[illegible]	800
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Mr. Robert T. Curtiss
Route 1, Box 156
Monroe, Washington

Re: Docket No. [redacted]EA-4938 (copper)
Robert T. Curtiss
Mint (Iowa) claims
Snohomish County, Washington
Contract No. Idm-E1179

Dear Mr. Curtiss:

In accordance with your request of October 14, 1958, our Washington office has prepared the original and four copies of Amendment No. 1, which are enclosed.

If the proposed amendment meets with your approval, would you please sign all copies, retain that copy marked for the Operator, and return the rest to this office. You will note that among other things, the amendment provides for a recess of contract work from December 1, 1958 to not later than June 15, 1959, and extends the completion date from November 19, 1958 to September 19, 1959. Item No. 5 also provides for automatic termination of the contract, depending on certain conditions.

If the amendment does not meet with your approval, please return all copies, including the Operator's Copy, unsigned, to this office with your comments.

Sincerely yours,

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

cc: OME (2)
USBM(@)
USBM(AD)
Albee

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
11-3	Klugescheid	500
	[illegible]	500
11-3	[illegible]	800
11/4	[illegible]	130
"	[illegible]	110
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11/5	[illegible]	225
		500

500

NOV 4 1958

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

Re: Docket No. DMEA-4938 (Copper)
Robert T. Curtiss
Mint (Iowa) Claims
Snohomish County, Washington
Contract No. Idm-E1179

Dear Mr. Weissenborn:

In accordance with your teletyped request, dated October 17, 1958, we are enclosing the original and four copies of proposed Amendment No. 1 (three pages) to the above contract, signed by the Acting Director for the Government. We are also enclosing two extra copies for the use of the Field Team.

If the amendment meets with your approval, kindly present it to the Operator for approval and signature and, when completed, distribute the copies in the usual manner. In the event that the amendment is not satisfactory and cannot be amended within your delegated authority, return all copies with your recommendations concerning any modifications.

Sincerely yours,

George C. Selfridge (esf)
Chairman, Operating Committee

Enclosures

APPROVED:

Richard H. Moto (esf)
Member, Bureau of Mines

N. E. Nelson (esf)
Member, Geological Survey

WPKlugescheid/er 11-3-58
Copies to: Docket
Dir Read File
Op. Committee
Mr. McMahon, USBM
Mr. Kiilsgaard, USGS
Chron.

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
	Klugescheid	

500

October 27, 1958

Memorandum

To: Associate Solicitor, Division of Mineral Resources

From: W. R. Griswold, Division of Base Metals

Subject: Preparation of Amendment No. 1 for Docket No. DMEA-4938
Robert T. Curtiss, Hint Claims, Snohomish County, Washington,
Contract No. Idm-E1179 (Copper)

Will you kindly prepare Amendment No. 1 for the cited contract as follows:

1. In Exhibit "A", Description of the Work":

   (a) In paragraph 2, delete the last sentence.

   (b) Delete paragraph 3 and substitute:

   "Drift a maximum of 225 feet on the structure previously intersected by the crosscut described above."

2. Work under the contract is to be suspended during the period beginning December 1, 1958, and ending not later than June 15, 1959.

3. The time fixed for the completion of the work is extended to September 19, 1959.

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

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

(i) effective December 1, 1958, if the work has not been resumed on or before June 15, 1959.

(ii) effective September 19, 1959, if the work is resumed on or before June 15, 1959, but is not completed on or before September 19, 1959.

(e) The Operator, as principal if the Operator is the producer, or as surety if the Operator is not the Producer, shall pay to the Government, the royalty on production provided for in the Contract, in the same manner and amount and for the full time provided in the Contract, as if certification of discovery or development had been made, such certification being hereby waived.

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

5. The Maximum period for royalty payments and lien for the payment thereof, provided for in the Contract is increased to eleven years.

The effective date of this amendment should be October 17, 1958.

WPKlugescheid/er
Copy to: Docket
Dir Read File
Chron.

W. R. Griswold

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code

October 27, 1958

Memorandum for the Files

From: W. P. Klugescheid, Mining Engineer
Division of Base Metals

Subject: Justification for Amendment No. 1, Docket No. DMEA-4938, Robert T. Curtiss, Mint Claims, Snohomish County, Washington, Contract No. Idm-E1179 (Copper).

The Operator requested permission to use the footage, which was supposed to be used for drifting near the face of the recently driven crosscut, for drifting along the showing in the drift which had only been allotted 50 feet of drifting.

The Field Team concurs with this plan as the structure which was found in the face of the crosscut was not mineralized, and the structure in the drift is now believed to be the Mint Vein.

Drifting on this structure would have definite possibilities of making a discovery which would warrant a Certification of Discovery or Development and would definitely be of advantage to the Government.

The recess and extension of completion time are necessary as winter conditions will not permit the completion of the work before the work will have to be recessed for the snow season, when the property becomes inaccessible.

A pseudo certification (conditional) will be included in order to safegaard the Government in case work is never resumed for some reason after the recess.

W.P. Klugescheid
W. P. Klugescheid

WPK/er
Copy to: Docket
Director Read. File
Chron.

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WASH. - COMMUNICATIONS

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SPOKANE WASH 10-22-58 1700U

GEORGE C. SELFRIDGE, CHAIRMAN OPERATING COMMITTEE

OFFICE OF MINERALS EXPLORATION, WA

REURTT OCTOBER 21, DOCKET 4938, ROBERT T. CURTISS, MINT CLAIMS. ESTIMATE OPERATOR WILL REQUIRE 90 DAYS TO COMPLETE DRIFTING. OPERATOR STILL WORKING BUT BECAUSE OF UNCERTAIN WEATHER CONDITIONS DO NOT KNOW HOW LONG HE CAN CONTINUE. SUGGEST 90 DAY EXTENSION WITH A RECESS TO JUNE 15 IF NECESSARY. PERIDOTITE NOT RECOGNIZED IN CROSSCUT. WILL CHECK ON NEXT INSPECTION.

A E WEISSENBORN, EXECUTIVE OFFICER, REGION I

21 4938 90 90 15

EKC 1704U

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
1-21	Klugescheid	500
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10/21	Nelson	130
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OCT 21 1958

W. R. GRISWOLD, Division of Base Metals, OME. Ext. 3669, Rm 4444

TELETYPE

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

1490108, Salaries & Expenses, Office of Minerals Exploration, Interior, 1959.

DATE:

TO: Mr. A. E. Weissenborn, Executive Officer, OME Field Team, Region I, Spokane, Washington

Reurtt of October 17, 1958, Docket DMEA-4938, Robert T. Curtiss, Mint Claims. Amendment being prepared as requested effective October 20, 1958, Operator may continue on present drift at own risk pending final approval of amendment. What is your recommendation for extension of completion time? Was peridotite identified in the cross-cut.

George C. Selfridge

ACTING Chairman, Operating Committee (HB)

WPKlugescheid/er 10-21-58
Copy to: Docket
Dir Read File
Director
Op. Committee
Mr. McMahon, USBM
Mr. Kiilsgaard, USGS
Chron.

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SPOKANE WASH 10-17-58 1610U

GEORGE C. SELFRIDGE, CHAIRMAN OPERATING COMMITTEE

OFFICE OF MINERALS EXPLORATION

DEPT. OF INTERIOR WASHN., DC

REDOCKET DMEA 4938 (COPPER), ROBERT T. CURTISS, MINT (IOWA) CLAIMS, SNOHOMISH COUNTY WASHINGTON CONTRACT E1179. FROM RESULTS OF 75 FEET OF CROSS CUT AND 55 FEET OF LONG HOLE NORTH NOW COMPLETED WE ARE NOW CONVINCED STRUCTURE MENTIONED IN PARAGRAPH 3, EXHIBIT "A" IS MINT VEIN WHICH IS THE EXPLORATION TARGET. THIS STRUCTURE HAS NOW BEEN FOLLOWED 64 FEET WESTERLY. VEIN CONTINUES STRONG (SEE MAGILL'S INTERIM DATED SEPT. 8, 1958). OPERATOR HAS NOW BLASTED SLAB ROUND NEAR DRIFT FACE ON FOOTWALL OF PERIDOTITE DIKE EXPOSING 20-IN. VEIN WITH QUARTS-DIORITE FOOT WALL AND PERIDOTITE HANGING WALL. CAN DRIFTING AUTHORIZED IN 2ND PARAGRAPH EXHIBIT "A" BE USED TO FOLLOW THIS VEIN FURTHER WITHOUT AN AMENDMENT OR WILL YOU PREPARE AMENDMENT IF REQUIRED? THERE IS NO CHANGE IN OBJECTIVE. POSITIVE IDENTIFICATION OF MINT VEIN IS THE ONLY CHANGE.

PLEASE ADVISE BY TELETYPE SO OPERATOR CAN PROCEED WITH MINIMUM DELAY.

A. E. WEISSENBORN, EXECUTIVE OFFICER, REGION 1

4939 E1179 75 55 3 "A" 64 8 1958 20 DIORITE PERIDOTITE 2ND "A"

VA 1614U

CCTN 11TH LN 5TH WD IS FOLLOW NOT FALLOW SRY TNX

BUREAU OF MINES
MAIL ROOM
WASHINGTON, D. C.

OCT 20 8 49 AM '58

1201 N. Division St.
Spokane 2, Washington

September 12, 1958

ORIGINAL FILE COPY
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9/20 | | 580

Mr. Robert T. Curtiss
Route 1, Box 156
Monroe, Washington

4938

Re: Robert T. Curtiss
Mint (Iowa) Claims
Contract No. Idm-21179
Monthly operating report
for August 1958

Dear Mr. Curtiss:

This is to inform you the subject voucher could not be paid in the full amount claimed.

The deletion is explained in the attached copy of a memorandum to the Field Team from the Certifying Officer, Region I.

By Field Team, Region I

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

Stephen W. Boldok
For: Wing G. Agnew, Member
U. S. Bureau of Mines

cc: DMEA (2)
USGS (2)
AD

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

OFFICIAL FILE COPY
DMEA
RECEIVED APR 28 1958
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April 24, 1958

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

Re: Docket No. DMEA-4938 (Copper)
Robert T. Curtiss
Mint (Iowa) Claims
Snohomish County, Washington
Contract No. Idm-E1179

Dear Mr. Selfridge:

Enclosed are the Government and Audit copies of the above referenced contract. Other copies of the contract have already been distributed. Mr. Curtiss stated in a letter dated April 21, 1958 (two copies attached) that weather conditions appear favorable and it is expected that work will start May 1.

Sincerely yours,

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

Enclosures

cc: USBM (2)
USBM (AD)
Albee

COPY

COPY

Robert T. Curtiss
Route #1, Box 156
Monroe, Wash.
April 21 - 1958

United States
Dept. of the Interior
D. M. E. A.
So. 157 Howard St.
Spokane 4, Wn.

Re: Docket No. DMEA-4938 (Copper)
Mint (Iowa) Claim
Snohomish County, Wash.

Dear Sir:

Enclosed are the four signed copies of the exploration contract.

Snow conditions appear to be favourable and it is expected that preparatory work will start the first of May.

Thank you for your kind attention.

Sincerely yours

/s/ Robert T. Curtiss

Received
APR 23, 1958
U.S.G.S.
Spokane, Wash.

DMEA
RECEIVED APR 21 1958

So. 157 Howard Street
Spokane 4, Washington

April 16, 1958

Mr. Robert T. Curtiss
R. F. D. 1, Box 156
Monroe, Washington

Re: Docket No. DMEA-4938 (Copper)
Mint (Iowa) Claim
Snohomish County, Washington

Dear Mr. Curtiss:

Thank you for your letter of March 31, 1958. The statement you enclosed from Mr. John Lamb, former agent for Howe Sound Company, saying that Howe Sound Company had verbally relinquished its option on the Mint claims in October 1957 is satisfactory proof that they no longer have an interest in the property. Therefore, enclosed are the original and four copies of a proposed short-form contract, signed by the Administrator, Defense Minerals Exploration Administration, for the Government. It consists of the Form (MF-200A), Annex I (one page), Annex II (one page), Consent to Lien and Subordination Agreement (one page), Exhibit A (two pages), and two maps.

Article 1(a) of the contract provides that work is to begin on or before May 1, 1958. Please inform us when you intend to commence work. However, if it is not possible for you to begin work by May 1, it is suggested that you sign the contract and return it if it is otherwise satisfactory to you, telling us the approximate date you believe work can commence; we can then prepare an amendment providing for a later starting date.

Your attention is called particularly to Article 6 of the contract (and Annex II) which deals with repayment by the Operator from royalty on production. Any production from the land described in the contract is subject to the royalty provisions of the contract whether or not the ore was known to exist prior to the date of the contract or it is discovered or developed by the work under the contract. This applies to all production during the period in which the Government may certify or, if the project is certified, to all production during the repayment period specified in the contract.

If the contract meets with your approval, please sign all copies, retain the one marked for the Operator, and return the others to this office. If it does not meet with your approval, please return all copies of the contract, unsigned, with your comments.

Sincerely yours,

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

Enclosures

cc: DMEA (2)
USBM (2)
USBM (AD)
Albee

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
4/15	Klugescheid	500
	[illegible]	500
4/15	[illegible]	130
	[illegible]	140
		~~130~~
4/15	[illegible]	110
15	[illegible]	100
4/16	[illegible]	220
		500

APR 15 1958

WRGriswold/er Rm 4444, Ext. 3669

DMEA - Division of Base Metals

14X4401(01) Revolving Fund, Defense Production Act, Interior, (Transfer to Office of Secy.)

TELETYPE

DATE:

TO: MR. A. E. WEISSENBORN, EXECUTIVE OFFICER, DMEA FIELD TEAM, REGION I, SPOKANE, WASHINGTON

REURLET APRIL 8, DOCKET DMEA-4938, ROBERT T. CURTISS.

LETTER OF MR. LAMB SATISFACTORY, SEND CONTRACT TO MR. CURTISS FOR SIGNATURE.

George C. Selfridge (HB)

CHAIRMAN, OPERATING COMMITTEE

WPKlugescheid/er 4/15/58
Copy to: Docket
Admr R File
Op. Committee
Mr. McMahon, USBM
Mr. Kiilsgaard, USGS
CHRON.

W.K. [illegible]

8623

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

ORIGINAL FILE COPY
DMEA
RECEIVED APR 11 1958

DATE	INITIALS	CODE
4/11	C	220
~~4/14~~	~~Pkg~~	~~500~~

Air Mail

April 8, 1958

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

Re: Docket No. DMEA-4938 (Copper)
Robert T. Curtiss
Mint (Iowa) Claims
Snohomish County, Washington

Dear Mr. Selfridge:

Enclosed are two copies of a letter dated March 31, 1958, from Mr. Robert T. Curtiss and an accompanying statement dated March 27, 1958, from Mr. John Lamb, Geologist and former agent for Howe Sound Company.

Referring to the second paragraph of your letter of March 19, 1958, with which you forwarded a Short Form Contract No. Idm-E1179, it appears that there was no written notice given to Mr. Curtiss that Howe Sound was relinquishing its option on the property.

Please advise us by teletype if the statement by Mr. Lamb satisfies the request in your letter and if we may send the contract to Mr. Curtiss for signature.

By Field Team, Region I

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

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

Enclosures

cc: USBM (2)
Albee

COPY

Robert T. Curtiss
Route #1, Box 156
Monroe, Wash.
3/31/58

DMEA
RECEIVED APR 11 1958
DATE | INITIALS | CODE

Mr. A. E. Weissenborn
U. S. Dept. of Interior
D.M.E.A.
So. 157 Howard Street
Spokane 4, Wash.

re: Docket No. DMEA-4938
Mint(Iowa) Claims
Snohomish County, Wash.

Dear Mr. Weissenborn:

Our option with Howe Sound Co. was terminated verbally in Oct. 1957.

Enclosed you will find a letter from Mr. Lamb which will verify there verbal termination made Oct. 1957.

I hope Mr. Lambs letter will serve the purpose required.

Thank you for your very kind attention both past and present.

Sincerely yours,

/s/ Robert T. Curtiss

RECEIVED
APR 1 1958
U.I.C.S.
CONNE. WASH

744 Donegal Place
North Vancouver B.C.
March 27 1958

To Whom It May Concern

Have Sound Company on October 1st 1957 formally relinquished its option on the mining properties of Sultan Basin Mining Co. Ltd., located in Snohomish County, Washington. As agent for Have Sound at that time, the writer informed R. J. Curtiss (Sultan Basin Co. agent) that the payment due on October 1st 1957 would not be made. According to the contract between the two Companies this action was sufficient to terminate the option

See DMEA-2435

John Lamb
Geologist
former Agent for
Have Sound Company.

RECEIVED
APR 1 1958
U. S. G. S.
SPOKANE, WASH.

OFFICIAL FILE COPY
DMEA
RECEIVED APR 11 1958

DATE	INITIALS	CODE

So. 157 Howard Street
Spokane 4, Washington

March 26, 1958

RECEIVED MAR 28 1958
DATE | INITIAL | CODE
3/26 | C | 226
3/28 | [illegible] | 500

Mr. Robert F. Curtiss
R. F. D. 1, Box 156
Monroe, Washington

Re: Docket No. DMEA-4936 (Copper)
Mint (Iowa) Claims
Snohomish County, Washington

Dear Mr. Curtiss:

We have received from our Washington office the original and four copies of a proposed contract for an exploration project at the Mint property.

Before submitting the proposed contract to you for signature, we are required to have documentary proof that Howe Sound Company has relinquished its option on the property. If you have a letter or other written notice from Howe Sound stating that they have or intend to relinquish their option, please send us two photostatic copies. If you prefer you may send us the original and after we have made the copies, we will return it to you.

As soon as we receive this document, we will send you the contract.

Sincerely yours,

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

cc: DMEA (2)
USBM (2)
Albee

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
3/17	Klugescheid	500
"	Hiamel	500
"	Chambers	800
3/19	[illegible]	130
"	Johnson	110
		~~100~~
3/24	[illegible]	220
		500

500

MAR 19 1958

B

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

Re: Docket No. DMEA-4938 (Copper)
Robert T. Curtiss
Mint (Iowa) Claims
Snohomish County, Washington

Dear Mr. Weissenborn:

Enclosed are the original and four copies of a proposed short-form contract for the cited project, signed by the Administrator, Defense Minerals Exploration Administration. It consists of the Form (MF-200A), Annex I (one page), Annex II (one page), Consent to Lien and Subordination Agreement (one page), Exhibit A (two pages), and two maps. We are also enclosing two extra copies of Annex I, Annex II, Exhibit A and the maps for the use of the Field Team.

Before submitting the proposed contract to the applicant, be sure that you have documentary proof that the Howe Sound Company has relinquished its option on the property. We would like a copy of this proof for our files. A photostat of the document will be sufficient for our purposed.

If the proposed contract meets with your approval, kindly present it to the Applicant for approval and signature and, when completed, distribute the copies in the usual manner. In the event that the contract is not satisfactory, and cannot be amended within your delegated authority, return all copies to us with your recommendations concerning any modifications.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

Enclosures
APPROVED:

A. D. McMahon (ADM)
Member, Bureau of Mines

N. E. Nelson (NEN)
Member, Geological Survey

WPKlugescheid/er 3/17/58
Copy to: Docket
Admr R File
Op. Committee
Mr. McMahon, USBM
Mr. Kiilsgaard, USGS
Chron.

86

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
3/6	Klugeshied	500

500

March 6, 1958

Memorandum

To: Associate Solicitor, Division of Mineral Resources

From: Director, Division of Base Metals

Subject: Preparation of Contract for Docket No. DMEA-4938, Robert T. Curtiss, Mint Claims, Snohomish County, Washington.

Will you please prepare a contract for the cited project. A draft of the contract, Annex I, Exhibit "A" and 2 maps are attached to this memorandum.

This same Applicant carried on a project which was completed some time ago. The Docket No. DMEA-2435 is also included with the new docket. We wish to incorporate all costs from the former contract into this contract as we have mentioned under a proposed Annex II. Documentary proof that the Howe Sound Company has relinquished its option has been requested.

W. R. Griswold

WPKlugeshhied/er
Copy to: Docket
Chron.

8623

OFFICIAL FILE COPY
DMEA
RECEIVED FEB 28 1958

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

February 28, 1958

~~Memorandum~~

To: W. R. Griswold, Defense Minerals Exploration Administration

From: Commodity Specialist, Branch of Base Metals

Subject: New application, Docket No. DMEA 4938 (copper), Robert T. Curtiss, Mint (Iowa) Claim, Snohomish County, Washington $11,537.50

The work outlined for the new application by the Field Team is about the same as the additional work approved by the examiners for the previous contract Docket No. DMEA 2435. It is designed to test the target area and mineralized structures disclosed which the examiners reported warranted further exploration.

It is recommended that consideration be given to a new contract for the work and costs as proposed in the memorandum report attached to the Field Team's letter of February 6, 1958.

A. D. McMahon

A. D. McMahon

Copy to: Division of Minerals
Branch of Base Metals (2)
Thor Kiilsgaard, U.S.G.S.
F. D. Lamb
F i l e s

IN REPLY REFER TO:

OFFICIAL FILE COPY
DMEA
RECEIVED FEB 14 1958
DATE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

2/14 C 220
2/19 Alloy 500

February 13, 1958
Re: DMEA 4938
Robert T. Curtiss
Mint (Iowa) Claim
Snohomish Co., Washington
$12,063.50 - Copper

Memorandum

To: W. R. Griswold, Defense Minerals Exploration Administration

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of application

The applicant now requests assistance in doing work which would tend to complete the exploration begun under DMEA 2435, Idm-E417.

Commenting on that work and the recommendations of the examiners, under date of November 11, 1957, I said, "Inasmuch as most of the work was done on other than the target vein, 50-100 feet of additional work on the vein represented by sample S742A* may be justified. If the lenses are shown to be characteristically narrow and short further assisted work is not recommended". Extension of the crosscut to the structures cut in the long hole from the face of the crosscut may also be worthwhile.

Therefore, except that the work program should be staged, I concur with the recommendation of the Field Team.

Sample No.	Width	Au Oz	Ag Oz	Cu%	Pb%	Zn%
*S742A	1.6 ft	Tr	2.64	4.56	0.37	1.39

N. E. Nelson

N. E. Nelson

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

1201 N. Division St.
Spokane 2, Washington

February 6, 1958

DMEA
RECEIVED FEB 10 1958

DATE	INITIALS	CODE
2-10	C	220
~~2-10~~	~~Wing~~	~~500~~

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

Re: New Application (Copper)
Robert T. Curtiss
Mint (Iowa) Claim
Snohomish County, Washington

Dear Mr. Selfridge:

As promised in our letter of January 31, 1958, we are sending you three copies of a cost analysis for the proposed project on the Mint claim, Snohomish County, Washington.

Sincerely yours,

Wing G. Agnew

Wing G. Agnew, Member
DMEA Field Team, Region I

Enclosure

cc: USGS (2)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.
1201 N. Division St.
Spokane 2, Washington

DMEA
RECEIVED FEB 10 1958
DATE | INITIALS | CODE

February 6, 1958

MEMORANDUM

To: DMEA Field Team, Region I

From: Galen G. Waddell, Mining Engineer, Bureau of Mines

Subject: Cost analysis, New Application (Copper), Robert T. Curtiss, Mint (Iowa) Claim, Snohomish County, Washington

Mr. Robert T. Curtiss, Operator under Docket No. DMEA-2435 (copper), submitted an application, dated January 22, 1958, for additional work on the Mint claim. This is essentially the same program submitted by Mr. Curtiss on October 11, 1956.

Proposed Exploration Program

A summary of the applicant's proposed exploration and estimated costs is as follows:

300 feet drift and crosscut	@	$37.31/ft.	$11,193.00
250 feet long hole drill	@	1.00/ft.	250.00
50 assays for Cu, Au, Ag	@	5.00/ea.	250.00
50 feet timbering	@	7.41/ft.	370.00
Total			$12,063.50

The applicant's estimated costs appear to be in line with the exception of drifting and crosscutting which are a little high.

Recommended Exploration and Costs

Should the Government decide to participate in the additional work the following work units and costs are recommended for consideration:

Crosscut north a maximum of	75	feet
Drift E and W on Mint vein	175	"
Drift on other structures	50	"
Total	300	"
Long holes from drifts	250	"

It is estimated that it will take 5 months to complete this project.

The applicant is financially able to carry out the proposed exploration.

Operating Equipment

The applicant owns all the equipment necessary to carry out the proposed exploration. Some rehabilitation to surface facilities will be necessary.

Operating equipment to be furnished is listed below:

Item	Value	Mo. deprec.
Compressor, 230 cfm	$3,000	$50.00
Gas engine and blower	540	9.00
2 mine cars	600	10.00
Drill and jackleg	720	12.00
Drill sharpener	185	3.08
Water tank	75	1.25
		$85.33

Estimated Cost of Project

300 feet drifting and crosscutting
Estimated advance: 3.5'/day = 85 days = 4 months

1. Independent contracts — none

2. Labor, supervision, and consultants

Consultant mining engineer or geologist 4 days @ $75.00/day		$ 300.00
1 Supervisor-miner	85 days @ $20/day	1,700.00
1 Miner	85 days @ 18/day	1,530.00
1 Trammer	85 days @ 16/day	1,360.00
		$4,890.00

16.10/ft.

3. Operating materials and supplies

Ventilation tubing	300 feet @ $0.95/ft.	285.00
2" air pipe	300 " @ 0.58/ft.	174.00
1" water pipe	300 " @ 0.28/ft.	84.00
Coupling, fittings, valves - 25% of pipe cost		64.50
16# rail	600 feet @ 12.50/100#	400.00
		$1,007.50
50% salvage		503.75

3. Operating materials and supplies - continued: 503.75 Brt. fwd.

Repair parts	@ $1.00/ft. advance	$300.00
Ties (6"x4"x3')	150 @ 75.00/M = 45¢ ea.	67.50
Splice bars, bolts, spikes - 10% of rail		40.00
Track switches	2 @ 30.00/ea.	60.00
Drill steel and bits, aver. 400' drilling/each	20 @ 18.50	370.00
Powder, 10#/ft. drift advance (300 ft.) =	3000# @ $25/100#	750.00
Blasting caps	1500 @ $25/1000	37.50
Safety fuse	15,000' @ 13.50/1000	202.50
Ignitor wire	2,000' @ 13.00/M	26.00
Connectors	1,500 @ 20.00/M	30.00
1 50-ft. hose, 1"	@ 41.70 complete	41.70
1 50-ft. hose, 1/2"	@ 28.80 "	28.80
Gasoline, 25 gal/day, 85 da.	@ 0.30/gal	637.50
Oil and lub, etc., 10% of fuel		63.75
Line oiler and oiler hose		36.90
		$3,195.90

4. Operating equipment

	Value	Mo. deprec.	4 months
Compressor, 230 cfm	$3,000	$50.00	
Gas engine and blower	540	9.00	
2 mine cars	600	10.00	
Drill and jackleg	720	12.00	
Drill sharpener	185	3.08	
Water tank	75	1.25	
		85.33	$ 341.32

5. Initial rehabilitation

Repair compressor	100.00
Tramway repair	300.00
Repair on compressor building	100.00
	500.00

6. New buildings none

7. Miscellaneous

Unempl. comp., Indust. insur., etc. 14.9% of payroll ($4,590)	$ 683.91
Wash. State sales tax on materials & supplies 3-1/3% of $3195.90	106.53
Assays for Au, Ag, Cu (incl. transp. & container) 50 samples @ $3.35/ea.	167.50
Long hole drilling, 250 feet @ $1.00/ft.	250.00
	$1,207.94
Total cost	$10,135.16

Cost of Drifting & Crosscutting Only

Consultant	$300.00
Assays	167.50
Long hole drilling	250.00
	$717.50

$10,135.16 - 717.50 = $9,417.66 for drifting 300 feet

= 31.39/ft. - SAY $31.40

Assays 167.50
Long Hole Drilling 250.00
Repairs 500.00
917.50

10,135.16
917.50
9,217.66
300 | 30.72

Drift Xcs - Say 31.00/foot = 9,300.00
Timbering 1,400.00
Long Hole Drilling 250.00
Repairs 500.00
assays 170.00
11,620.00

Timbering (200 feet allowed for drifting 5'x7' in clear)
Advance: 4 sets or 20 feet per day

1. Independent contracts — none

2. Labor and supervision

1 Supervisor-miner	10 days @ $20/day	$200.00
1 Miner	10 days @ 18/day	180.00
1 Trammer	10 days @ 16/day	160.00
		540.00

3. Operating materials and supplies

Timber

		No.	Bd. Ft.		
Posts (8"x8"x8')	x	82	3,499		
Caps (8"x8"x7')	x	41	1,531		
Girts (4"x6"x4.3')	x	80	688		
Lagging (2"x8'x5')	x	40	3,200		
Blocking (3"x2'x1')x		40	240		
			9,158	@ $75/M	$686.85
Wedges - 75¢/bundle	x	20			15.00
Nails - 100# @ 15¢/lb.					15.00
Total timber					716.85
Small tools					30.00
Gasoline - 50 gal. @ 30¢/gal.					15.00
					$761.85

4. Operating equipment

	Per mo.	½ mo.	
1 Timber car	$5	$2.50	
1 Fan and gas engine	9	4.50	7.00

5. Rehabilitation — none

6. New buildings — none

7. Miscellaneous

Unemploy. comp., Indust. insur., etc.
14.9% of payroll ($540) — 80.46

Total — $1,389.31

Cost per foot $6.95 - SAY $7.00 ✓

ESTIMATED COST OF PROJECT

Long hole drilling	250 feet @ $1.00/ft.	$	250.00
Consultant mining engineer or geologist	4 days @ 75.00/day		300.00
50 assays for Au, Ag, Cu (including transp., etc.)	@ 3.35/ea.		167.50
Drifting and crosscutting,	300 feet @ 31.40/ft.		9,420.00
Timbering,	200 feet @ 7.00/ft.		1,400.00
Total		$	11,537.50
Government participation @ 50%		$	5,768.75

Distribution:
DMEA (3)
USGS (2)
Docket
Engineer

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

February 7, 1958

Mr. Robert T. Curtiss,
R. F. D. 1 Box 156
Monroe, Washington

Subject: DMEA-4938

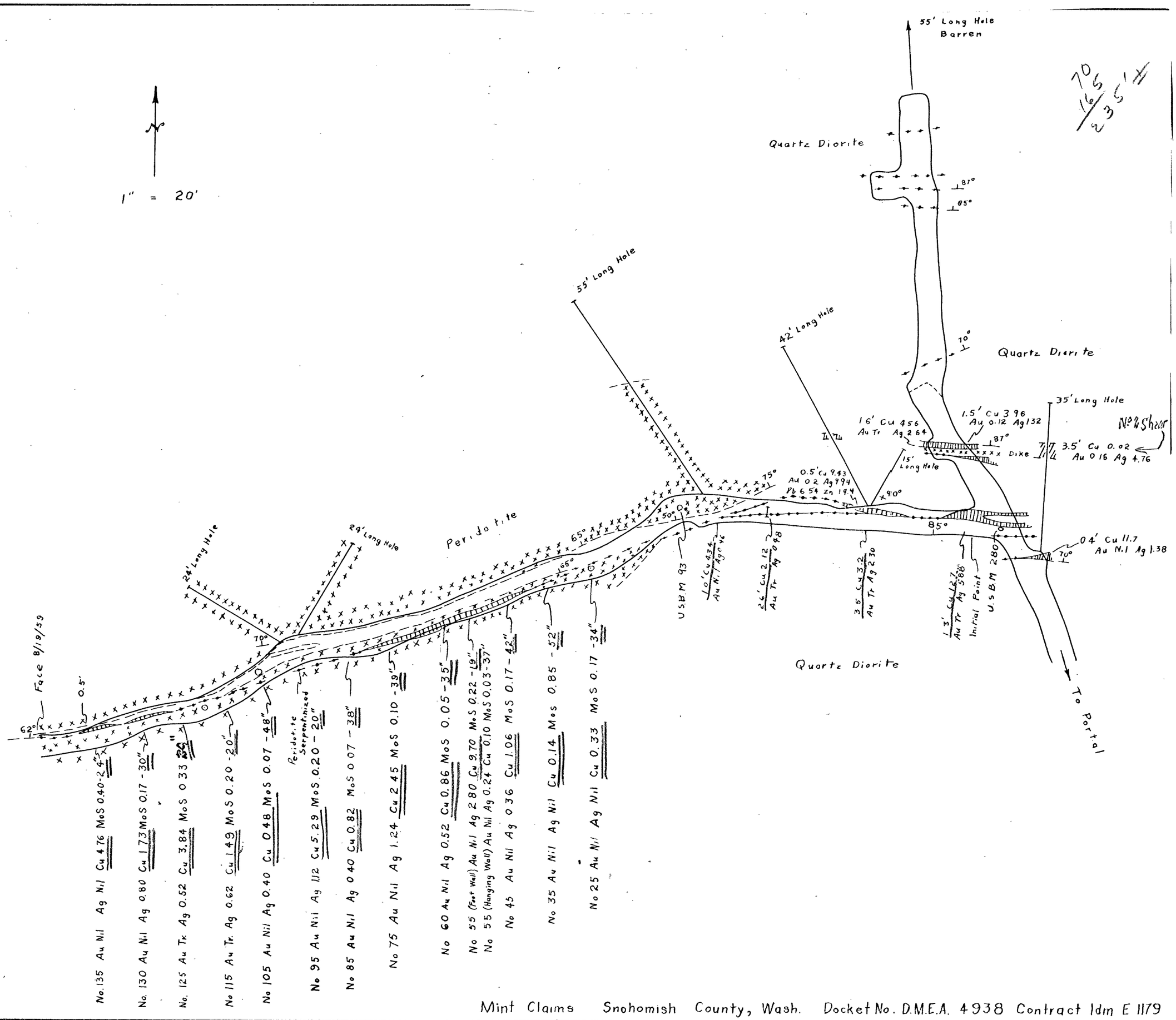
Dear Mr. Curtiss:

Your application for exploration assistance, dated January 22, 1958 submitted to our office at Spokane, Washington has been assigned Docket Number DMEA-4938 and referred to the Base Metals Division in the Washington office. Kindly identify all future correspondence relating to your application by this Docket Number.

Sincerely yours,

Allen S. Dakan, Director
Operations Control and
Statistics Division

Copy to: Region I

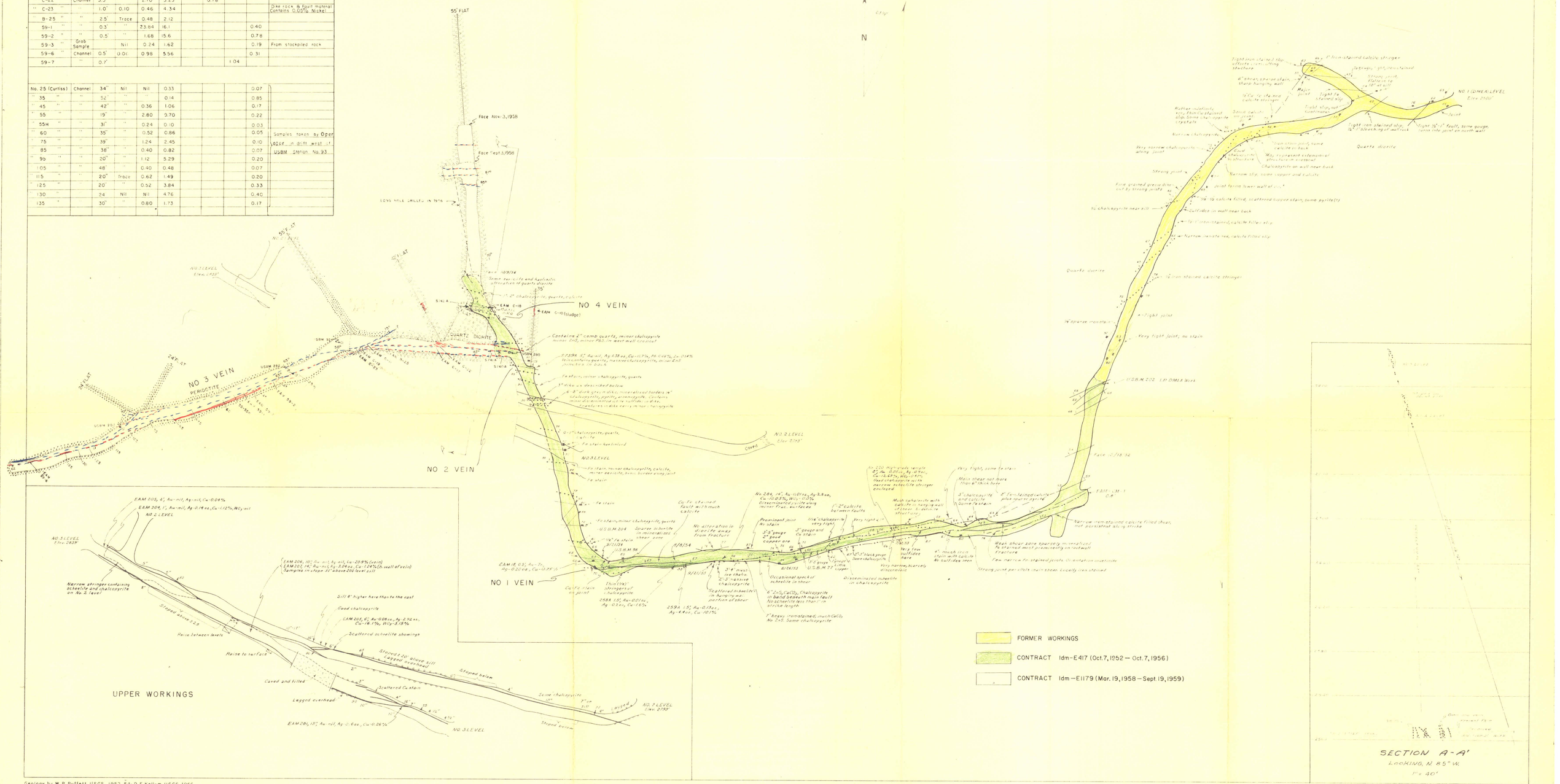


8/19/59

Mint Claims Snohomish County, Wash. Docket No. D.M.E.A. 4938 Contract Idm E 1179

UNITED STATES
DEPARTMENT OF THE INTERIOR

ASSAYS											
Sample No.	Type	Length	Gold Oz. Ton	Silver Oz. Ton	Copper %	Lead %	Zinc %	Tung. %	Moly. %	Remarks
S740A	Channel	0.3'	Nil	0.14	0.11	0.09	Nil			
S741A	"	1.3'	Trace	5.88	12.7					
S742A	"	1.6'	"	2.64	4.56					
EAM C-10(USBM)	Sludge	3.5'	0.16	4.74	0.02					From 23.5-27' in L. H. Massive Terpentine, fine-grained Magnetite
" C-11 "	Peridotite Sample									
" C-17 "	Channel	0.5'	0.02	9.94	9.43	6.54	19.0			
" C-18 "	"	1.5'	0.12	1.32	3.96					
" C-19 "	Peridotite Sample									0.05% Nickel
" C-21 "	Grab Sample		Trace	1.28	2.63	Nil	0.84	Nil		From stockpiled rock
" C-22 "	Channel	3.5'	"	2.70	3.23	"	0.78	"		
" C-23 "	"	1.0'	0.10	0.46	4.34					Dike rock & fault material Contains 0.05% Nickel
" B-25 "	"	2.5'	Trace	0.48	2.12					
59-1 "	"	0.3'	"	23.84	16.1				0.40	
59-2 "	"	0.5'	"	1.68	15.6				0.78	
59-3 "	Grab Sample		Nil	0.24	1.62				0.19	From stockpiled rock
59-6 "	Channel	0.5'	0.01	0.98	5.56				0.31	
59-7	"	0.7'						1.04		
No. 25 (Curtiss)	Channel	34"	Nil	Nil	0.33				0.07	Samples taken by Operator in drift west of USBM Station No. 93
" 35 "	"	52"	"	"	0.14				0.85	
" 45 "	"	42"	"	0.36	1.06				0.17	
" 55 "	"	19"	"	2.80	0.70				0.22	
" 55H "	"	31"	"	0.24	0.10				0.03	
" 60 "	"	35"	"	0.52	0.86				0.05	
" 75 "	"	39"	"	1.24	2.45				0.10	
" 85 "	"	38"	"	0.40	0.82				0.07	
" 90 "	"	20"	"	1.12	5.29				0.20	
" 105 "	"	48"	"	0.40	0.48				0.07	
" 115 "	"	20"	Trace	0.62	1.49				0.20	
" 125 "	"	20"	"	0.52	3.84				0.33	
" 130 "	"	24	Nil	Nil	4.76				0.40	
" 135 "	"	30"	"	0.80	1.73				0.17	



Geology by W. P. Puffett, USGS, 1952-54; D. F. Kellum, USGS, 1956
Transit survey of No. 1 Level by E. A. Magill, USBM, D. F. Kellum, 10/9/56

Additions (Contract No. IDM-E1179) by E. A. Magill & R. D. Sample, Sept. 1959

GEOLOGY OF THE NO. 1 LEVEL AND UPPER WORKINGS — R. T. CURTISS, MINT CLAIMS, SNOHOMISH COUNTY, WASHINGTON

0 20 40 60 80 100 120 Feet

Docket No. DMEA-4938

PLATE - 3