UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE

Terminated (~~or cancelled~~) without certification. DMEA No. 2320

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

Left Side

Certificate of Audit (Final).

Interim Audit(s).

✓ Report of Review.

✓ Closing letter
Termination Notice or Agreement.

Recision Notice.

Assignment of Contract.

✓ Contract Amendments (latest on top).

✓ Contract with all exhibits and annexes.

Owner's Consent to Lien.

✓ Subordination Agreement.

✓ Leases and assignments of leases.

✓ Application and attachments.

Schedule of Collections.

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

Right Side

✓ Project summary.

✓ Work completed analysis.

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

✓ Final Field Team Report. (Tab)

✓ Operator's Final Report.

Interim Reports.

✓ On-site Exam Report(s). (Tab)

Settlement Sheets.

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

Maps in folder number 0

Operator's Monthly Reports in folder number 0

gla
Reviewer's Initials

7973

DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF REVIEW

I have reviewed the Monthly Reports of:

Glen Coughlin, 2037 Walnut Street, Boulder, Colorado, and Elmer L. Henderson, 2502 Bluff Street, Boulder, Colorado,

pertaining to Exploration Project Contract No. Idm-3326, DMEA Docket 2320, and including amendment No. 1, covering a project for exploration of Tungsten, for the months of July 31, 1952 to March 11, 1953.

My review included an examination of the Monthly Reports (Form MF-104) and supporting documents attached thereto, comparison of costs claimed with the contract and pertinent schedules, consultation with the Executive Officer of the Field Team in charge of the project, 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 reasons:

(1) The administrative costs to the Government of a site audit would be excessive in relation to the estimated amount of possible further disallowances.

(2) The contract or voucher files include evidence that the Government representative, who visited the project, examined the records of the Operator and determined the validity and propriety of the costs claimed.

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

Total cost as billed by Contractor		$5053.48
Exceptions:		
By DMEA Finance Officer Meno Meredith (schedule attached)	$4802.48	251.48
Total Accepted Cost		$4802.00

The contract calls for a 75 percent participation of exploration expenses by the United States Government. Therefore, payment to the contractor by the Government in the amount of Thirty Six Hundred and no/100 Dollars

- $3600.00 -

is considered valid and proper.

Dated: May 18, 1953

Donald T. Finch

Donald T. Finch, Auditor

COUGHLIN AND HENDERSON
Exploration Contract - Ydn-4326
Docket No. DMEA [illegible]

SCHEDULE OF DISALLOWANCES ATTACHED TO FINAL REPORT OF REVIEW

Rental on Stoping Machine (Not authorized by contract)		$37.50
Overcharge, Payroll Taxes		
Amount claimed by Operator	$35.03	
1½% of Wages of $600.00 subject to F.I.C.A.	9.00	
Overcharge (Disallowed)		26.03
Overcharge; Workmen's Compensation Insurance		
Amount claimed by Operator	$56.60	
2.51% of Wages of $1939.80, subject to Workmen's Compensation and Occupational Disease Insurance	48.69	
Overcharge (Disallowed)		7.91
Expenditures net of Disallowances in Excess of Contract Authorization of $4,800.00		182.04
Total Disallowances by Review		[illegible]

There were no unused materials, supplies, or other property to be disposed of for the joint account of the operator and the Government other than that covered by waivers.

Mr. Glen [illegible]
Mr. Glen [illegible]
2037 [illegible] Street
Boulder, Colorado

Re: Contract [illegible] - Jungston
Texas Vista Inc
Texas Vista [illegible]
Boulder County, Colorado
Contract [illegible]

Gentlemen:

This is with reference to the subject exploration contract between you (the [illegible]) and the Government.

The final audit of the contract expenditures and the final report of the [illegible] and of the Field Team have been received and reviewed by this Administration. Of the total amount of $4,000.00 authorized under the contract, the sum of $[illegible] was expended, 75 percent or $3,000.00, being based the average [illegible]. Copies are [illegible] determine, available or soon [illegible] to be [illegible]. [illegible] the joint account [illegible] the [illegible] and the Government. The exploration work was completed in a satisfactory manner.

Because the results of the exploration were [illegible], it is not [illegible] to [illegible] the [illegible] which [illegible] the [illegible] energy. [illegible], therefore, [illegible] the [illegible] to the project. Our attention is now [illegible] to [illegible] the [illegible], which requires [illegible] to [illegible] and [illegible] and [illegible] for at least [illegible] years after [illegible] of the subject [illegible] under this contract.*

Your interest in the exploration [illegible] Uranium Production Administration and your willingness to notify us of any [illegible] are appreciated.

T Chapman/jh
7/22/53
cc. to: Secret
Adv. Mailing File
[illegible] Comm.
Code 200 (2)
Code 300
D. [illegible] Emmons, [illegible]
W. W. Greenan, [illegible]
DMEA Field Team, Region IV, (2)

Sincerely [illegible]

C. O. Mittendorf

Administrator

file cy here

No. 1

AMENDMENT OF CONTRACT: No. Idm-E326

Contract Docket No. DMEA 2320, dated May 23, 1952, between the United States of America and Glen Coughlin and Elzor L. Henderson is hereby amended as follows effective as of the date of said contract:

> Referring to article "3. Exploration Project," of Exploration Project Contract Form MF-200, delete "(8) eight months" and in lieu thereof substitute "eleven (11) months."

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

Dated January 29, 1953

By Glen Coughlin
Glen Coughlin

UNITED STATES OF AMERICA

By Elzor L. Henderson
Elzor L. Henderson

By W. H. King
Executive Officer DMEA

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 2 1953

January 5, 1953

United States
Department of the Interior
Defense Minerals Administration
224 New Customhouse
Denver 2, Colorado

Attention Mr. W. H. King:

Dear Sir:

Due to sickness and accident and having trouble with the motor on the compressor, and extreme cold weather. Wewould like an extending of 90 days on contract Idm-E326, Docket DMEA 2320.

Sincerely yours,

Glen Coughlin

E. L. Henderson

MF-200
(June 1951)

DMEA-2320
Docket No. XXXX
Commodity Tungsten

Idm-E326

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

EXPLORATION PROJECT CONTRACT [1]

It is agreed this 23rd day of May, 1952, between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and [2] a partnership composed of: Glen Coughlin
2037 Walnut St., Boulder, Colorado
and Elzor L. Henderson
2502 Bluff St., Boulder, Colorado
hereinafter called the "Operator," as follows:

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

2. *Operator's property rights.* The exploration project shall be conducted on that certain property situated in the State of Colorado, County of Boulder described as follows: [3] Range View Mine, situated on the Range View Lode Mining Claim, more particularly described in the location certificate thereof, recorded in Book 690, page 503, in the records of the office of the County Clerk and Recorder of Boulder County, Colorado,

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

~~(a) That he is the owner in possession and entitled to possession, and that the property is subject only to the following liens, encumbrances, or claims, a schedule of which is attached hereto~~

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

3. *Exploration project.* The Operator, within (60) sixty days from the date of this contract shall commence work on a project of exploration for [5] Tungsten; shall prosecute the work efficiently, expertly, in a workmanlike manner, in accordance with good mining standards, with suitable and adequate equipment, materials, and labor, all properly designed to bring the project to completion within a period of [6] (8) eight months from the date of this contract. The exploration project and the work to be performed are more fully described on Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, is made a part of this contract.

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

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

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

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

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

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

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

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

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

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

13. *Payment to the Operator.* The monthly progress report (invoice), to the extent approved by the Government, shall be processed for payment by the Government. Payment shall be made in the amount of 75 percent of the approved costs incurred; *Provided,* That the aggregate total of all sums paid by the Government under this agreement shall not exceed $ 3,600.00, which is 75 percent of the agreed estimated total cost of this project, $ 4,800.00.

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

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

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

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

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

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

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

Executed in sextuplicate the day and year first above written.

Elzora L. Henderson
(Operator)

Glen Coughlin

THE UNITED STATES OF AMERICA

By W. H. King

Executive Officer, DMEA
Field Team, Region IV

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

MF-202

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner of an undivided one-half interest in fee simple of that certain parcel of ground in the county of Boulder, State of Colorado, described in a certain Exploration Project Contract dated May 23, 1952, between a partnership consisting of Glen Coughlin and Elzor L. Henderson, the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated November 27, 1951, does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

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

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

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

Dated this 23rd day of May, 1952

Glen Coughlin

U. S. GOVERNMENT PRINTING OFFICE 16—64582-1

MF-202

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner of an undivided one-half interest in fee simple of that certain parcel of ground in the county of Boulder, State of Colorado, described in a certain Exploration Project Contract dated May 23, 1952, between a partnership consisting of Glen Coughlin and Elzor L. Henderson, the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated November 27, 1951, does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

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

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

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

Dated this 23rd day of May, 1952

X John Coughlin

U. S. GOVERNMENT PRINTING OFFICE 16—64582-1

OFFICE
REGION IV
MAR 2 8 1952
BUREAU OF MINES
DENVER, COLORADO

EXHIBIT "A"

Exploration Project

The Exploration Project consists of the following:

(a) Rehabilitation of the portal of the Range View adit, cleaning drifts, and installing track and air line to the starting points of work outlined under (b).

(b) Drifting or raising to the extent of approximately 150 feet to be divided between the northern and southern fissures. Said drifting or raising is limited as follows: Drifting on the northern fissure is limited to approximately 50 feet unless promising mineralization is encountered within that distance. Drifting on the southern fissure is limited to approximately 50 feet unless the vein steepens appreciably within that distance or promising mineralization is encountered. In the event both drifts are discontinued short of the total footage authorized, any remaining funds may be expended in raising on the southern fissure at locations acceptable to the D.M.E.A. representative.

Total estimated cost of the project - $4,800.00

The proposed work is shown on the attached map.

Summary

Estimated Costs of Project

Equipment Purchases	$100.00	
Equipment Rentals	1000.00	
Labor and Supervision	2316.00	
Material and Supplies	1384.00	
Total Estimated Cost of Project -		$4,800.00

Fixtures and Improvements

None

Operating Equipment

To be Purchased:

Item	Estimated Cost
1 Mine Car (used)	$ 75.00
1 Water Pressure Tank (used)	25.00
Total estimated cost	$100.00

To be Rented:

Item	Established Rental
1 Mounted Jackhammer	$ 70.00 per month
1 Drill Column (complete)	20.00 per month
1 210 c.f.m. Compressor	160.00 per month
Total estimated cost of rental -	$1000.00

To be Furnished by Operator:

None

Labor and Supervision

Labor

Number	Class	Maximum base rate of pay
2	Miner-Timberman	$1.65 per hour*

* The above rate of pay is based on a 40-hour week, any time in excess thereof is an allowable cost to the project at one and one-half times the base hourly rate.

Supervision

None

Total estimated cost of Labor and Supervision - $2,316.00

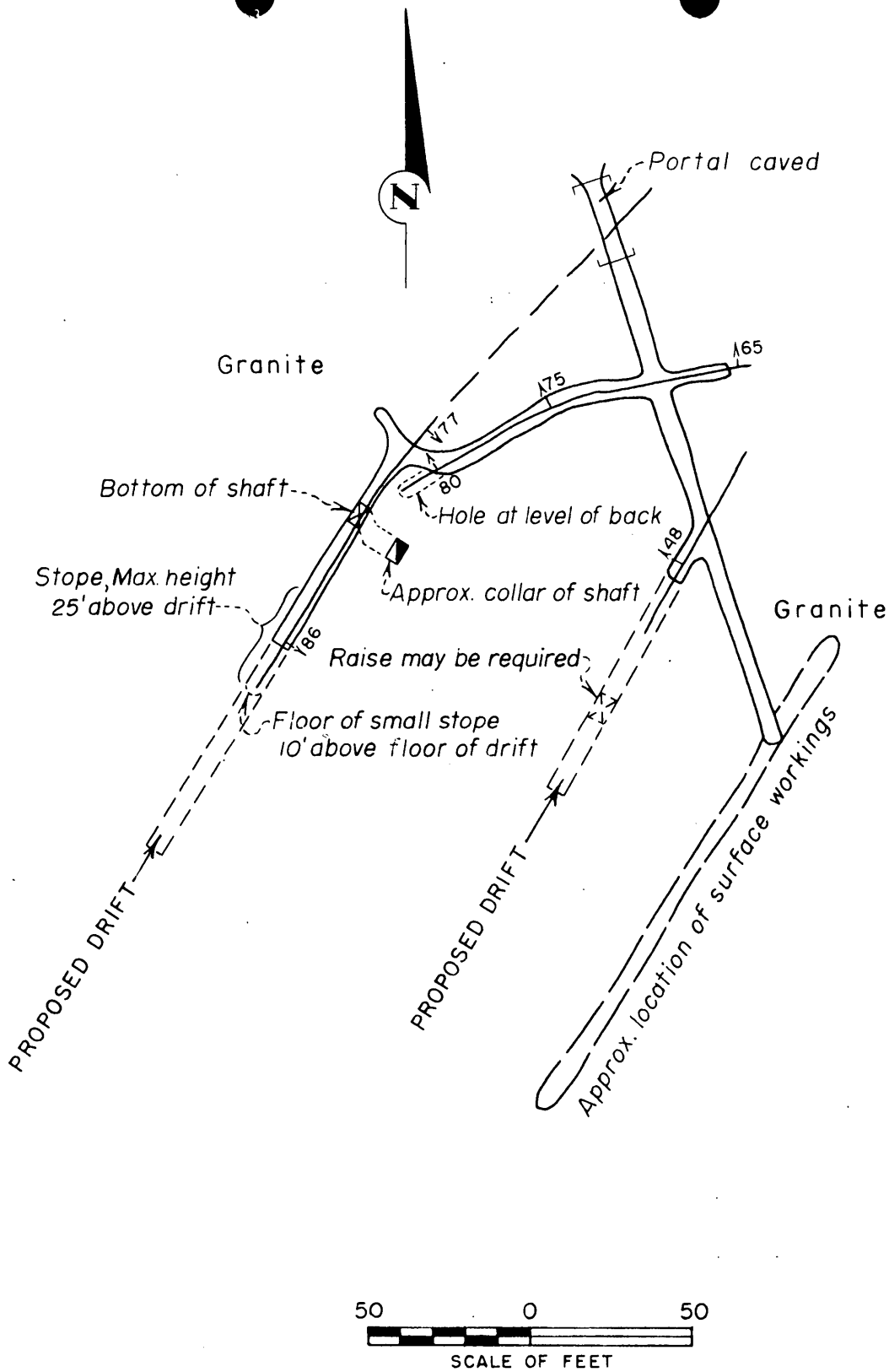
Rehabilitation and Repairs

None

Allowable Costs of the Project:

Material and supplies consisting of Hand tools, timber and lumber, explosives, air and water hose, mine rail, pipe and fittings, drill steel and bits, and other necessary small items costing less than $50.00 each.

Estimated total cost of material and supplies - $1,384.00.



NOTE: MAP, GEOLOGY AFTER
OGDEN TWETO U.S.G.S.

COLORADO BRANCH- MINING DIVISION- REGION IV
BUREAU OF MINES

FIG. PLAN, RANGE VIEW MINE, BOULDER TUNGSTEN DIST., BOULDER CO., COLO. DMEA 2320

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

MF-103 Should Be Filed With General Technical Data Form MF-100

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

Not To Be Filled in by Applicant

Docket No. DMEA-2320
Metal or Mineral
Date Received 1-7-52
Amount $
Participation (Government %)

GLENN COUGHLIN
2037 Walnut Street, Boulder, Colorado

E. L. HENDERSON
2502 Bluff Street, Boulder, Colorado

Name and address of applicant

Date December 24, 1951

If you have already filed MF-100, give date filed _____, type of assistance requested _____,

DMA Docket Number (if available) _____

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 7 1952

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four copies each, of the signed application form, General Technical Data Form MF-100, and answers to questions as specified, to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive office thereof, with your name and address on each sheet of the application and all accompanying papers. If you have previously filed MF-100, it is not necessary to file it again. However, you should indicate in space provided above the type of assistance previously applied for (loans, procurement contracts, etc.) and DMA Docket Number, if available. *When a question is inapplicable it should be so stated in the form.* Additional sheets should be attached in answering any questions or in supplying additional information. IF YOU CANNOT ANSWER A QUESTION, SO STATE.

1. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.

   (*b*) If you are not the owner of the property, submit a copy of the lease, purchase option, or other agreements under which you are authorized to operate the property with each copy of your application.

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

   NOTE: (1) If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*c*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

   (2) If applicant is not the owner of the property or if there are any liens or encumbrances against the property, copy of agreements of claimants, lienors, encumbrances, and lessors subordinating their interests in the property to the interest of the Government under the Exploration Project Contract will be required for attachment to the Contract.

2. (*a*) What metals or minerals do you expect to find?

   (*b*) Furnish statement of the geologic features of your property, giving type of ore deposit and reasons for expecting to find commercial ore bodies. Illustrate with maps or sketches. If you have a geologic or engineering report, or assay maps showing width and grade, please send them with application, stating whether or not you wish to have them returned.

The information requested in questions 3, 4, 5, 6, 7, 8, and 9 below should be answered specifically and in detail, as this information will be attached to and incorporated as part of the Exploration Project Contract, if such contract is entered into with you by the Government.

ANSWER EACH QUESTION ON SEPARATE SHEETS OF PAPER AND SUBMIT A COPY OF EACH ANSWER FOR EACH COPY OF YOUR APPLICATION.

3. (*a*) Describe fully the proposed work and give the total cost of the project.

   (*b*) State the time required to start the project and to complete it.

4. Submit a map or sketch of the property involved showing a plan (and cross section, if needed) of the present mine workings and the *location of the proposed exploration work* as related to geologic features, such as contacts, veins, ore-bearing beds, etc.

5. Furnish an itemized list of existing facilities, buildings, installations, and fixtures with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition.

6. Furnish a detailed list of additional facilities, buildings, and fixtures to be purchased, installed, or erected by you, with the estimated cost of each item.

7. Furnish a detailed list of operating equipment, separated into items to be—

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

   with the rental, purchase price, or depreciation of each item, as the case may be, to be charged as a cost of the project.

8. Furnish an itemized schedule of labor, by numbers and classes (miners, muckers, etc.) and of supervisors by numbers and positions, with the maximum wages or salaries to be paid to each.

9. Furnish a detailed list with estimated cost of each item for materials, supplies, engineering, assaying, accounting, power, water, utilities, and any other items not provided for above.

10. (*a*) How much are you prepared to invest in the proposed project?

    (*b*) Is this amount sufficient to pay your part of the cost of the project, in accordance with the regulations on Government participation (Sec. 9 of MO–5)?

11. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

CERTIFICATION

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

Glen Coughlin
(Name of ~~company~~ applicant)

By E. L. Hendrickson
(Signature of authorized ~~official~~)

December 28 — 1951
(Date)

(Title)

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

U. S. GOVERNMENT PRINTING OFFICE 16—64067-2

I.

(a) Range View Lode Mining Claim, and Range View Mine.

(b) Copy of Lease attached.

(c) Range View Lode Mining Claim, more particularly described in the location certificate thereof, recorded in Book 690, at Page 503, in the records of the office of the County Clerk and Recorder of Boulder County.

2.

(a) Tungsten only

(b) The deposit is Ferberite, and the formation is granite with pegmatite dykes typical of the Nederland District. The reason for expecting to find ore is: that a definite tungsten ore shoot, I70 feet in length was opened in a cut and tunnel on the surface and mined out to the surface, and, based on the history of the Nederland District these ore bodies continued downward for a depth of several hundred feet. There is attached herewith a sketch of the claim and all workings thereon, and a sketch of the surface ore shoot along and upon a big, strong vein. We have no assay maps or reports available. We have only such information as we can obtain from old miners who knew the previous operation.

3.

(a) We propose to do I50 feet of drifting on the two veins on the property after the workings have been revamped and put in shape for operation, and we propose to equip the property with a small air compressor plant, together with air drills and other necessary equipment. We estimate that the total cost of this project will be $4000.00.

(b) The time required to start operations will be 30 days and to complete the project will require one year.

4. Map or sketch of the property involved showing the workings and the proposed drifts are hereto attached.

5. There are no facilities or buildings on the ground

6. A list of facilities and fixtures to be placed on the property is hereto attached with estimated cost of each item.

7.

(b) We will purchase a small gas-driven compressor at the estimated cost of $600.00.

(c) We have no equipment available of our own.

8. A shedule of labor will be limited to the two applicants, at least until the property is placed on production. The maximum wage or salary will be $I.65 per hour, which is the current rate in this district.

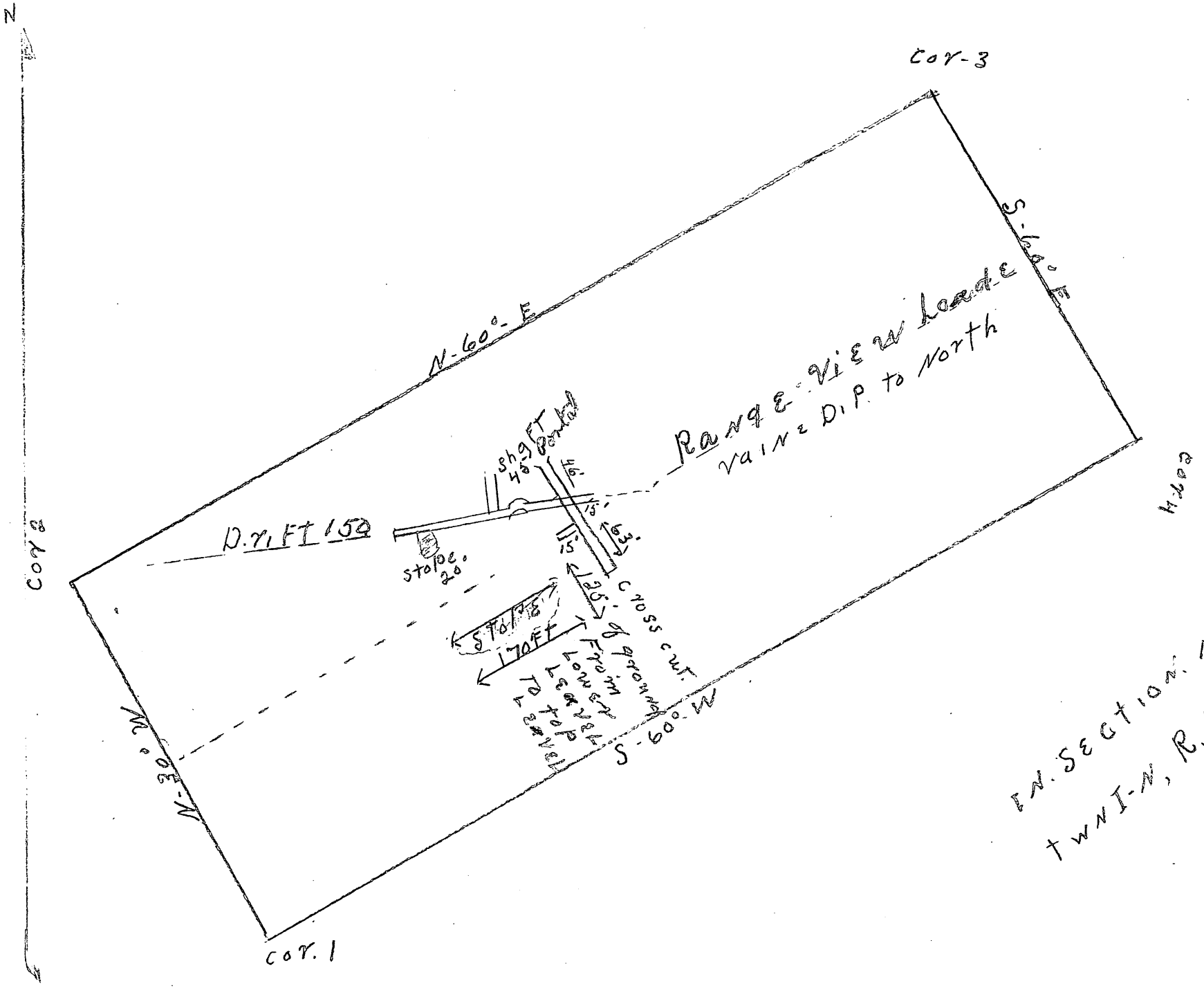
9. The answer is set forth in our answer to No. 6, with itemized statement of materials.

IO.

(a) We are prepared to invest $IOOO.00 in the project to match the $3000.00 loan.

(b) The answer is "yes" to the best of our knowledge and belief.

II. We have a thorough knowledge of this tungsten area and have had long experience in mining tungsten deposits, and, if the known ore deposit continues downward, we feel the property can be very quickly placed on production of an excellent grade of tungsten ore.


N
Cor-3
N-60°-E
S-60°-E
Range-View Lode
Vein Dip to North
Shaft
45° Bonded
46.
15
15
63.
Drift 150
Stope
20
Stope
170 ft
Cross cut
20 ft
Ground
From
Lower
Level
To top
Level
S-60°-W
N-30°-W
Cor 2
Cor 1
North
Sec. 34
T.W.N.I-N, R.72-W

SCHEDULE OF EQUIPMENT REQUIRED
AND APPROXIMATE COST OF IT

Black Pipe-2 inch-	400 Ft.	$I60.40
½ Inch Pipe	200 Ft.	24.00
2 Inch Pipe Dies	200 Ft.	38.50
I Pipe Cutter		I0.79
2 Picks		7.20
2 Round Point Shovels		4.30
2 Square Point Shovels		4.25
50 water hose		22.85
50 Air Hose		23.50
I2 Pounds Nails		I.56
I Mine Car		I50.00
50 Pounds Track Spikes		7.50
I00 Pounds Carbide		8.50
I5 Pounds Track Bolts		3.00
2 sets Drill Steel		36.60
I00 Timken Bits		50.00
I Seven Inch Column		94.00
I Arm		34.00
I Saddle		30.I0
I Jack Hammer		365.00
I Shell		I75.00
I Compressor		600.00
I Small Compressor House and Shop I0 x 6		200.00
		$203I.05

Form MF-103
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA
FOR USE UNDER THE
DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMEA-2320

Date received 1-7-52

GLENN COUGHLIN
2037 Walnut Street, Boulder, Colorado

E. L. HENDERSON
2502 Bluff Street, Boulder, Colorado

Name and address of applicant

Date December 24, 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 7 1952

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production _____

   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:

   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation		Life Insurance Carried for Benefit of Applicant	
				Common (e)	Preferred (f)	Amount (g)	Net Cash Surrender Value After Loans (h)
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					0
Indicated (probable)					

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

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

Glen Coughlin
(Name of ~~company~~ applicant)

By E. L. Humphreys
(Signature of ~~authorized official~~ applicant)

December 28 - 1951
(Date)

(Title)

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

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

I.
(a) The chief mine product is tungsten only.
(b) None

2.
(The Name of the mine and claim is Range View.
(a) Shaft 45 feet.
(b) Drifts 180 feet.
(c) Adits 184 feet.
(d) Open cut and adit 170 feet.
Mine is drained by tunnel and no pumping problem exists.

3.
(a) Seven miles Southwest of Nederland, Colorado.
(b) Sugar Loaf
(c) Section 34, T.3, N.R. 73 West
(d) Boulder County, Colorado

4.
(a) No
(b) By the owner as to a half interest, and by the lessee, as to the other half interest.

5.
Production in 1915 - 1916 - - 1942 - 1943. Production of property idle since said date. Estimated date when production will begin is about May 1, 1952.

6.
Glenn Coughlin, 6 years experience; E. L. Henderson, 40 years experience.

7.
(a) This property was worked by the then owners, Carlin brothers, for a period of about three years, more or less, from about 1915 - 1918. There are two tungsten veins traversing the property. On one of these veins along tungsten ore shoot, about 170 feet in length was opened up and developed by an open cut, and an adit drift on the vein to maximum depth of about 50 ft., and the ore was stoped to the surface; about the time the surface ore deposit was exhausted, the property was closed for want of any tungsten market at which the ore could profitably be sold; in as much as a considerable capital expenditure was then required to open the ore shoot at greater depth. In 1943 and 1943, G. Jett operated this property and claims to have shipped ore at the value of $2200.00, but he has lost the copies of his settlement sheets for this production. The Carlin brothers are all dead, and no settlement sheet showing their production can be obtained. As shown by the surface workings, the pay streak was about eight inches wide, and Mr. Jett reports that the ore averaged about 20% tungsten.
(b) The neighboring properties are the Oregon Mine, the Ophir Mine, the Pennsylvania and the Pride. The Oregon is one of the big mines, formerly owned by the Primos Chemical Company, and it had been one of the largest and most profitable productive properties of the district, which is credited with a very large record production. The other properties, above-mentioned, have also had a very substantial production, which dates back to about the year 1915, but, at least, as to most of these properties, the production record is not available.
(c) No Mine reports are available.

10.
(I) None

(2) None
(3) None

II.

The property is idle.

I2.

(a) There is a defined ore shoot on a very strong vein that is I70 feet in length; presumably this ore body will continue on down below where it has been mined out. This vein has been cut in the main cross cut tunnel on the property and drifted on for a distance of I5 feet. By extending this drift a distance of 75 feet, it is possible to open this ore shoot at an approximate depth of I25 feet below the point where it has been worked. The cross cut opens a second and smaller vein along which I50 feet of drifting has been done. A stope has been started 22 feet in length at one point where a small ore shoot is evident, or indicated.

(b) (I) No assay map is abailable showing any ore reserves.
(2) Assuming that the known ore shoot continues down to an additional depth of I25 feet, with an average width of about eight inches, There is indicated about I250 tons of ore which should average a minimum of I0% tungsten.

I3.

This property is connected by excellent mountain roads about thirteen or fourteen miles from Boulder, shipping, supply and residence point.

I4. No water is required in this operation, but there is sufficient water available for compressor unit.

I5. Property is unequipped with electric power lines or any other power. Gasoline power will be used for the operation of a compressor or other equipment, if needed.

I6. Applicants expect to operate this property without the need of employment of other miners until the property is on production. The current wage is $I.65 per hour for miners in this district.

I7. None

I8. There is no particular condition effecting this operation The portal of the tunnel will have to be timbered; the bottom of the tunnel will have to be lowered in some places and the drift will have to be straightened out in places.

No. 90. MINING LEASE—Short Form.—The Bradford-Robinson Ptg. Co., Mfrs. Robinson's Legal Blanks, 1824 Stout St., Denver, Colo.

THIS INDENTURE, Made this Twenty Seventh day of November in the year of our Lord one thousand nine hundred and Fifty One between JOHN COUGHLIN

of the first part, and ELZOR L. HENDERSON

of the second part, WITNESSETH, that the said party of the first part, for and in consideration of the rents, covenants and agreements hereinafter expressed to be paid, kept and performed by the said parties of the second part, has leased, let and demised, and by these presents does lease, let and demise unto the said parties of the second part, the following described premises, situate, lying and being in SUGAR LOAF Mining District, in the County of BOULDER and State of COLORADO, to-wit:

An undivided one half interest in and to The Range View Lode Mining Claim, more particularly described in the location certificate thereof, recorded in Book 880, at Page 503, in the office of the Clerk and Recorder, of Boulder County, Colorado.

TO HAVE AND TO HOLD THE SAME, for the purpose of mining, for the term of THREE YEARS from the date hereof, unless sooner terminated under any of the provisions herein contained, with no power to assign this lease or any interest thereunder, or to sublet the whole or any part of said premises except upon the written consent of the party of the first part.

And the said party of the second part, for and in consideration of the leasing of said premises, covenants and agrees with said party of the first part to commence work on said premises on or before January 10, 1952 and thereafter to work the same continuously, in a thorough and workmanlike manner, employing at least One Man ~~XXXX~~ underground,

and working at least.....Twenty Fifteen.....shifts each calendar month; to keep the same securely timbered, drained and clear of loose rock and rubbish; to keep accurate accounts, and to render .....Annual.....statements to the said party of the first part, ...his.....agent or attorney, showing the amount and character of work done, and to pay to said party of the first part, ...his..... agent or attorney, as rental for said premises royalty upon all ore taken and sold therefrom as follows, to-wit:

Eight per cent upon all classes and grades of ore

And it is expressly understood and agreed by and between the parties hereto, that the said party..... of the first part reserves the property and right of property in and to all ores extracted from said premises during the term hereof, and that all settlements for royalty shall be made upon the assay value of the mineral in the ore that may be taken from said premises less the actual cost of railroad transportation and treatment; and the sampling works, mill, smelter, or ore buyer purchasing any such ore shall retain the amount of the royalty herein stated and shall pay the same to the party..... of the first part at each settlement for ore purchased.

It is expressly understood and agreed that before commencing work on said premises, the party of the second part shall fully comply with the Workmen's Compensation Act of Colorado by taking out Workmen's Compensation Insurance on all of lessee's operations and that until this clause of the lease has been fully complied with by lessee, this lease shall not become in force and effect and that in the event the lessee shall fail to maintain said compensation insurance, this agreement shall be automatically forfeited to the lessor on the date any policy of insurance carried by the lessee shall lapse or be cancelled.

And the said part...y... of the second part furthermore covenant..s... and agree..s... that the said part...y.. of the first part, ...his.....agent or attorney, shall have the right at any and all times to enter upon and descend into any and all parts of said premises to inspect the same, make surveys thereof, or take samples therefrom, and that the said part...y.. of the second part will render to.....him..... all the assistance in.....his.....power in so doing. And the said part...y.. of the second part furthermore covenant.s..... and agree..s... to occupy and hold all side veins, spurs, feeders, cross-lodes, parallel lodes, or mineral deposits of any kind which may be discovered by the said part...s.. of the second part or by any person working under.....him.....in any manner, by working within or from the aforesaid premises, as the property of the said part...y... of the first part and as part of the premises demised, and to not allow any person not in privity with the parties hereto to take or hold possession of said premises or any part thereof under any pretense whatever, and to pay in due season all taxes and assessments levied against said demised premises on account of the production of ore under this lease.

And the said part...y... of the second part furthermore covenant.s..... and agree.s..... that in case.....he..... fail..s.... in any respect to keep and fulfill any one or more of the covenants or agreements herein expressed or implied, then, and in that case it shall be lawful for the said part...y... of the first part,...his..... agent or attorney, to declare said term ended, and with or without process of law to enter upon and take possession of said premises, and in such case, and also at the expiration of this lease by limitation, said part...y... of the second part agree....s.. to surrender, yield and deliver to said part...y.... of the first part quiet and peaceable possession of said premises in good condition, and that time shall be of the essence hereof, and that all of the covenants and agreements herein contained shall extend to and be binding upon the heirs, executors, administrators, successors and lawful assigns of the respective parties hereto.

IN WITNESS WHEREOF, The parties hereto have executed these presents the day and year first above written.

John Coughlin .....[SEAL]

Elzor L. Hendrickson .....[SEAL]

.....[SEAL]

.....[SEAL]

.....[SEAL]

.....[SEAL]

MINING LEASE

FROM

.....

TO

.....

STATE OF COLORADO,
County of..... } ss.

I hereby certify that this instrument was filed for record in my office, at..... o'clock.....M., on the.....day of ....., A. D. 19....., and is duly recorded in book....., page.....

.....
Recorder.

By.....
Deputy.

Fees, $.....

6-44 THE BRADFORD-ROBINSON PTG. CO., DENVER

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of February + Mar. 1953 Docket No. DMEA 2320 Contract No. IDM E326
Operator's Name Glen Coughlin and Elzor Henderson Minerals Tungsten
Address 2037 Walnut St., Boulder, Colorado
Contract Amount, $ 4800.00 Government Participation: 75 % Amount, $ 3600.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent / Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	580.80	2368.80	2949.60			
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives	10.97	171.59	182.56			
Pipe	.95	166.44	167.39			
Track		43.81	43.81			
OTHERS	25.73	299.33	325.06			
(4) Operating Equipment:						
Rental	277.50	820.00	1097.50	240.00	820.00	1,060.00
Purchase		45.00	45.00			
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	3.33	97.60	100.93			
Sampling and Analysis						
Payroll Taxes F.I.C.A.		35.03	35.03			
Liability Insurance STATE	10.00	46.60	56.60	2.09	46.60	48.69
(8) Contingencies (specify):						
FREIGHT		50.00	50.00			
				863.87	4,144.20	5,008.07
				*- 26.03		*- 26.03
TOTALS	909.28	4144.20	5053.48	**-182.04		**-182.04
				655.80	4,144.20	4,800.00

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

Date June 30 53 *Payee Coughlin and Henderson

Per Glen Coughlin Title Partner

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

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

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$491.85

Signature [illegible]
(Authorized Certifying Officer)

Date 6/29/53 Vou. No. DMA 53-145
(See other side)

* Overcharge claimed on taxes
** Excess of contract - expenditures

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E-326 in accordance with the terms of the contract.

Signature R. P. Palmer, #49185 DMA Title Mining Engineer Date Mar. 26, 1953

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. H. King Title Executive Officer Date JUN 22 1953

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

Form MF-102A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of Feb. & Mar. 3 Docket No. DMEA 2320 Contract No. [illegible] 326
Operator's Name Glen Coughlin and Elzor Henderson Minerals Tungsten
Address 2037 Walnut St., Boulder, Colorado

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting		288.37	11	2149.84	72 ft.	29.80		Not specif
Crosscutting								
Raising		620.91	26	620.91	26	23.88		
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Mob. Equip. underground		000.00		2237.73				Not specif
		909.28		5008.48				
TOTAL DISTRIBUTED COSTS								TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased				45.00				100.00
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		909.28		5053.48				4800.00

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

Date 3-13-53 Operator Coughlin & Henderson

Per Glen Coughlin Title Partner

REMARKS:

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

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

R. DR.

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
REGION IV

DEPARTMENT OF THE INTERIOR
Bureau of Mines
Received
JUL 3 1953

Administrative Audit Difference Statement

Date: June 25, 1953
Payee's Reference: Progress Report - Feb. & March, 1953 Final

Glen Coughlin & Elsor L. Henderson
2037 Walnut Street
Boulder, Colorado
I-DMA-E-326

Upon examination of the above Payee's Reference a difference was found which made it necessary to suspend your account accordingly:

Amount Claimed $909.28

Difference $253.48

Amount Approved $655.80

The reason for the difference was due to:

Payroll Taxes, claimed by operator	$35.04	
1½% of $600.00 ~~(overcharge)~~ allowed	9.00	
		$ 26.03
Workmen's Comp. - claimed	56.60	
Allowed 2.51% of $1939.80	-48.69	
Overcharge		7.91
Excess of contract (expenditures)		182.04
Rental on Stoping Machine - Not authorized by contract.		37.50
		$253.48

Any reclaim for deductions made above must be supported by the ORIGINAL of this form.

Very sincerely yours,

N. E. Stokes
Audit Section

R-IV-B & F Form No. 4
4-15-52 D

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

224 New Customhouse
Denver 2, Colorado

July 1, 1953.

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, DMEA Field Team, Region IV

Subject: Form MF-104, DMEA Docket 2320, Contract Idm-E326 (Tungsten), Glen Coughlin and Elzor L. Henderson, a partnership, Boulder County, Colorado.

Enclosed are two copies of the Operator's Final Progress Report MF-104 and MF-104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data for the period of February and March 1953.

The Government under date of May 13, 1953 waived interest in any property acquired under the contract.

This report constitutes final payment under the contract which was made in conformance with the Final Report of Review by the Contract Administration and Audit Division dated May 18, 1953 and released to this office June 18, 1953. The Final Operator's, Engineer's and Geologist's Reports were forwarded to Washington by our memorandum dated June 22, 1953.

W. H. King
W. H. King

Enclosures

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

224 New Customhouse
Denver 2, Colorado

June 22, 1953.

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region IV

Subject: DMEA Docket 2320, Contract Idm-E326 (Tungsten), Glen Coughlin and Elzor L. Henderson, a partnership, Boulder County, Colorado. Operator's Monthly Progress Report for the period of February and March 1953.

Enclosed are the original and four copies of Form MF-104 and Form MF-104A, Narrative Report, and Engineer's Report for the above period. This report constitutes the Operator's final claim under the terms of the contract. The Operator has complied with the terms of the contract and has rendered his final report and accounting. A copy of the Government waiver of interest in any property acquired under the contract is attached to each copy of the report. Final payment is recommended as follows which is in conformance with the Final Report of Review by the Contract Administration and Audit Division dated May 18, 1953, which was released June 18, 1953.

Basis for Final Payment

Total allowable costs of project	$4,800.00
Government participation 75%	3,600.00
Total prior payments	3,108.15
Balance due Operator	$491.85

Reconciliation with amount claimed by Operator on final report

Amount claimed by Operator	$909.28
Deduction - Excess overauthorized cost of project	253.48
Allowable gross amount of claim	655.80
Government participation 75%	491.85
Balance due Operator	$491.85

W. H. King
W. H. King

Enclosures

JWT:cwm
cc: Secretary to the Oper. Comm. (2)
Contract
WMTraver
Chron.
JWTeymsend

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
224 New Customhouse
Denver 2, Colorado
WASHINGTON 25, D. C.

To: Glen Coughlin and
Elmer L. Sanderson
Operators under Exploration Project Contract Idm-X326
Docket No. DMEA-2320, dated May 23, 1953

The United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, under the terms of the above described contract, hereby waives its interest in all property acquired under that contract.

THE UNITED STATES OF AMERICA

By W. H. King
W.H. King, Executive Officer,
DMEA Field Team, Region IV

Dated May 13, 1953

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
March 30, 1953

Memorandum

To: Executive Officer, Field Team, Region IV

From: Chief, Mineral Resources Branch, Mining Division, Region IV

Subject: DMEA 2320, Contract Idm-E326 (Tungsten), Coughlin and Henderson (Range View mine), Boulder County, Colorado - Progress report for February and March 1953

Enclosed please find the original and four copies of the subject progress report--forms MF-104 and MF-104A, with narrative and supporting documentation--and the original and six copies of R. L. Bolmer's memorandum covering underground progress inspection and checking of accounts.

Measurements of total progress since inspection of the project, comprising 42 feet advance of the North drift, 30 feet advance of the South drift, and 26 feet of raise from the South drift, confirm the units to date reported by the contractor and are allowed by contract. DMEA representatives closely followed operations throughout the life of the contract.

The accounts and documentation are in order within the limits of our authority to verify and costs claimed are approved except:

Item 4, Operating Equipment:		
Rental: Stoper and accessories	$37.50	(not allowed by contract)
Item 7, Miscellaneous:		
State Compensation Insurance, February and March	5.00	(not documented)
Disallowed	$42.50	
Total contract	$4,800.00	
Claimed and approved to January 31, 1952	4,144.20	
Balance available for February and March	$ 655.80	

Of this sum, $655.80, 75 percent or $491.85 is approved for payment and certified on the MF-104A forms, subject to the usual Region IV audit.

As stated by the operators in the narrative the project is completed without an ore discovery resulting and it is recommended the usual procedure in such instances be followed.

W. M. Traver

W. M. Traver

enclosures

WMT:amh

cc: 4
E326
DMEA Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
March 30, 1953

Memorandum

To: Chief, Mineral Resources Branch, Mining Division, Region IV

From: R. L. Bolmer

Subject: DMRA 2320, Contract Idm-E326 (Tungsten), Coughlin and Henderson (Range View mine), Boulder County, Colorado - Progress report for February and March 1953

The Range View mine was inspected March 24, 1953, and final measurement of the progress under the subject contract was made at that time. The mine was not in operation on the date of inspection and the operators could not be contacted; presumably all work under the contract stopped on or about March 11, 1953, the approximate date that contract funds were expended. Work under the contract was not performed during January and a progress report covering that period was not submitted. The operators have submitted a combined progress report for the work performed in February and March.

The progress completed in February and March is shown correctly on the operators' progress report, form MF-104A. Measurements made during the final inspection show that the following exploration was accomplished since the start of the project on July 21, 1952:

North drift	42 feet
South drift	30 feet
Raise from south drift	26 feet

In addition, certain underground preparation work was accomplished. A discovery was not made as the result of any work performed under the subject contract.

The operators' accounts for February and March have been checked. Except as noted below, the individual costs incurred are documented, conform to the contract, and appear reasonable and justified:

Rental of stoper, steel, steel puller	$37.50	(not allowed by contract)
State Compensation Insurance, February and March	5.00	(not documented)
Total	$42.50	

The remainder of the costs claimed this period, totaling $866.78, individually are approved. Costs totaling $4,144.20 previously have been approved from the contract amount of $4,800.00 and, therefore, only $655.80 of the amount claimed in February and March remains unexpended and is allowable.

Payment of 75 percent of the allowable costs, or $491.85, is recommended.

R. L. Bolmer

R. L. Bolmer
Mining Engineer

RLB:amh

cc: 6
E326
DMEA Chron.

NARRATIVE REPORT

FEBRUARY and MARCH 1953

We didn't work any in January due to illness and lack of motor. On the third of February we got another engine for the compressor. We started drifting on the fourth and work on that until receiving your letter asking us to stop drifting and to start raising. We started doing this on the sixteenth. After that we did have a bad storm so we did lose a few days.

In March we worked most of the first half of the month. Then as the money was used up we were not able to keep working, so we have decided to quit.

Glen Coughlin

Distribution Sheet Feb. 28-1953 & March 1953.

		Invoice	Total Amount	Labor Operation Labor	Explosives	Materials & Supplies Pipe	Track	Other	Operating Equip. Rental	~~Repairs~~	Repairs	Misc. Compensation Purchase	State
2/6	53	Industrial Engineering & Supply Co	3.33								3.33		
2/5	53	" " " "	37.74		2.15	.95		12.14	22.50				
2/18	53	" " " "	3.42		2.77			.65					
3/28	53	Snaude Coughlin	160.00						160.00				
2/28	53	Pay Roll.	369.60	369.60									
1/30	53	State Compensation Ins. Fund	5.00										5.00
2/28	53	" " " " "	5.00										5.00
3/5	53	Industrial Engineering & Supply Co.	.77					.77					
3/6	53	" " " "	16.16					1.14	15.00				
3/10	53	" " " "	6.62		6.05			.57					
3/3	53	R. A. Friedman	10.44					10.44					
3/12	53	Snaude Coughlin	80.00						80.00				
3/12	53	Pay Roll	211.20	211.20									
		Totals	909.28	580.80	10.97	.95		25.73	277.50		3.33		10.00

			Drifting	Raise
Operating Mat. & Supplies	Labor	$580.80	$144.80	$396.00
	Explosives	10.97	2.15	8.82
	Pipe	.95	.95	
	Other	25.73	12.14	13.59
Operating Equip & Rental		277.50	80.00	197.50
Misc.	Repairs	3.33	3.33	
	Compensation	10.00	5.00	5.00
Total		$909.28	$288.37	$620.91

Glen Coughlin

Distributor Sheet December 31 - 1952

Invoice			Total Amount	Labor	Operating Expense	Materials + Supplies Pipe	Track	Other	Operating Rental	Purchase	Misc Repairs	State Compensation	FICA
12/1	52	Industrial Engineering & Supply Co	29.99		6.85			23.14					
12/9	52	" " " "	59.99		22.85			36.98					
12/13	52	Allen Auto	2.93					2.93					
12/19	52	Brand-Coughlin	166.02						166.02				
12/31	52	R.C. Friedman	34.54					34.54					
12/30	52	State Compensation	18.02									18.02	
12/31	52	State Compensation	8.02									8.02	
12/30	52	Payroll	327.60	327.60									
12/30	52	Emp Share FICA	4.91										4.91
		Total	639.07	327.60	29.60			87.59	166.02			18.02	4.91

Glen Coughlin

[illegible] [illegible] [illegible]

[illegible] [illegible] 1933

[illegible]

[illegible]	4	5	6	7	11	12	13	14	16	17	18	26	27	28	[illegible]	[illegible]	[illegible]
[illegible]	8	8	8	8	8	8	8	8	8	8	8	8	8	8	112	$1.65	$184.80
[illegible]	4	5	6	7	11	12	13	14	16	17	18	26	2	728			
[illegible]	8	8	8	8	8	8	8	8	8	8	8	8	8	8	112	1.65	184.80
TOTAL															224		369.60

[illegible]

[illegible]	3	4	5	6	7	9	10	11	[illegible]	[illegible]	[illegible]
[illegible]	8	8	8	8	8	8	8	8	64	$1.65	$105.60
[illegible]	3	4	5	6	7	9	10	11			
[illegible] TOTAL	8	8	8	8	8	8	8	8	64	1.65	105.60
									128		211.20
	[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]								352 hr.		$ 580.80

Glen Coughlin

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 0 1953

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of December, 1952 Docket No. DMEA 2320 Contract No. 1Cm-5326
Operator's Name Glen Coughlin and Elzor Henderson Minerals Tungsten
Address 2037 Walnut Street, Boulder, Colorado
Contract Amount, $ 4800 Government Participation: 75 % Amount, $ 3600

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent / Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	327.60	2041.20	2368.80			
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives	29.60	141.99	171.59			
Pipe		166.44	166.44			
Track		43.81	43.81			
OTHER	97.56	201.77	299.33			
(4) Operating Equipment:						
Rental	160.00	660.00	820.00			
Purchase		45.00	45.00			
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment		97.60	97.60			
Sampling and Analysis						
Payroll Taxes F.I.C.A.	4.91	30.12	35.03			
Liability Insurance STATE	18.00	28.60	46.60			
(8) Contingencies (specify): FREIGHT		50.00	50.00			
TOTALS	637.67	3506.53	4144.20	637.67	3506.53	4144.20

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

Date Jan 10 *Payee Coughlin and Henderson

Per Glen Coughlin Title Partner

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

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

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$478.25

Signature [illegible]
(Authorized Certifying Officer)

Date 1/28/53 Vou. No. DMA 53-91

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E-326 in accordance with the terms of the contract.

Signature L. L. Palmer #478.25 Title Mining Engineer Date Jan. 15, 1953

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE: R.B.C

Signature W. H. King Title Executive Officer Date JAN 2 6 1953

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

U. S. GOVERNMENT PRINTING OFFICE 205675

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration

FEB 9 1953

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of December 1952 Docket No. DMEA 2320 Contract No. Idm-E326
Operator's Name Glen Coughlin and Elmor Henderson Minerals Tungsten
Address 2037 Walnut Street, Boulder, Colorado

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting	Feet	637.67	14	1861.47	61	30.52	150	Not Specified
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Rehlirep.underground		000.00		2237.73			Not	Specified
TOTAL DISTRIBUTED COSTS		637.67		4099.20				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased				45.00				100.00
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		637.67		4144.20				4800.00

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

Date Jan. 10 Operator Coughlin and Henderson

Per Glen Coughlin Title Partner

REMARKS:

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

(Instructions on reverse)

(For Government use only)

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Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

U. S. GOVERNMENT PRINTING OFFICE 205676

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

400

224 New Customhouse
Denver 2, Colorado

February 4, 1953

Memorandum

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 9 1953

WSM

To: Secretary to the Operating Committee

From: Executive Officer, Field Team, Region IV

Subject: Form MF-104, DMEA Docket 2320, Contract Idm-E326 (Tungsten) Coughlin and Henderson (Range View Mine) Boulder County, Colorado

Enclosed are two copies of the Operator's Monthly Progress Report MF-104 and 104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data for the month of December, 1952, pertaining to DMEA Docket 2320, Contract Idm-E326, Coughlin and Henderson.

John F. Shaw

John F. Shaw for
W. H. King

Enclosures

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

224 New Customhouse
Denver 2, Colorado

January 26, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
FEB 6 1953

Memorandum

To: T. A. Christensen

From: Executive Officer, Field Team, Region IV

Subject: DMEA Docket 2320, Contract Idm-8396 (Tungsten) Coughlin and Henderson (Range View Mine) Boulder County, Colorado Operator's Monthly Progress Report for the period of December, 1952

Enclosed are the original and four copies of Form MF-104 and Form MF-104A, Narrative Report, and Engineer's Report for the above period.

Work performed could not be verified due to shutdown, but will be checked for the next monthly Progress Report.

Payment is recommended for 75 percent of the amount as reported on Form MF-104, contingent on your verification of the correctness of applicable rates and arithmetical accuracy of computations.

The $10.00 charge to State Compensation Insurance Fund is a reclaim of an amount previously disallowed as not being properly supported by invoices. The $8.00 charge to State Compensation Insurance Fund is for the present month. Although not documented, it seems to be a proper charge and is passed for payment.

Remarks:

Date of Report - January 10, 1953
Date Received in Field Office - January 13, 1953
Date Received in Region Office - January 20, 1953
Date Processed for Payment - January 23, 1953

W. H. King
W. H. King

Enclosures

RDB:ec
cc: Contract
Secretary to the Operating Committee (2)
WMTraver
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
January 19, 1953

Memorandum

To: Executive Officer, Field Team, Region IV

From: Chief, Mineral Resources Branch, Mining Division, Region IV

Subject: BMEA 2320, Contract I4m-2326 (Tungsten), Coughlin and Henderson (Range View mine), Boulder County, Colorado - Progress report for December 1952

Please find enclosed five copies of the above progress report--forms MF-104 and MF-104A, with narrative and required documentation--and seven copies of R. L. Bolmer's memorandum covering attempted underground inspection and checking of the reports.

The underground progress, reported in the narrative as 14 feet, is small and is again passed subject to future confirmation. Costs claimed conform with the contract, charges are properly documented, invoices certified paid, and entries on the report forms are correct and passed.

Payment is approved of $478.25, or 75 percent of the total $637.67 claimed by the contractor, subject to Region IV audit.

Wm. Traver, Jr.

W. M. Traver, Jr.

enclosures

WMT/amh

cc: 4
2326
BMEA Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20
Denver Federal Center
Denver 14, Colorado
January 19, 1953

Memorandum

To: Chief, Mineral Resources Branch, Mining Division, Region IV

From: R. L. Bolmer

Subject: DMEA 2320, Contract Idm-E326 (Tungsten), Coughlin and Henderson (Range View mine), Boulder County, Colorado - Progress report for December 1952

The Range View mine was visited January 13, 1953. On that date, the mine was not in operation. The portal was locked and the progress reported for December 1952 was not confirmed. The operators have been written for information as to when the mine will be available for inspection. The work reported and the costs incurred this period are small and conform to the terms of the contract; therefore, the operators' voucher is being passed subject to verification at a later date of the work reported.

The supply and service costs incurred this period are considered necessary and do not appear excessive. The costs claimed this period have been supported by the required documentation and are being passed. Payment of 75 percent of the December claim is recommended.

R. L. Bolmer

R. L. Bolmer
Mining Engineer

RLB/mh

cc: 6
E326
DMEA Chron.

DARLINGTON PLANT

[illegible] 1952

This month we haven't accomplished much, as after the first week we have had a lot of motor trouble and cold weather. Mr. Henderson fell and broke a rib and injured the others. We decided we would have to have another motor. It will be replaced as soon as possible and by that time Mr. Henderson will be able to return to work.

Glen Coughlin

CERTIFIED COPY OF PAY ROLL

DECEMBER 1952

December	1	2	3	4	5	8	9	10	11	12	15	20	22	HOURS	RATE	TOTAL AMOUNT
R. SLADE	8	8	8	8	8	8	8	8	8	8	8	8	8	104	$1.50	$156.00

December	1	2	3	4	5	8	9	10	11	12	15	20	22			
McDANIEL	8	8	8	8	8	8	8	8	8	8	8	8	8	104	1.65	171.60
FINAL TOTAL														208		327.60

Glen Coughlin

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 1 1953

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of November, 1952 Docket No. DMEA 2320 Contract No. 1[illegible]320
Operator's Name Glen Coughlin and Elmer Henderson Minerals Tungsten
Address 2057 Walnut, Boulder, Colorado
Contract Amount, $ 4500.00 Government Participation: 75 % Amount, $ 30.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	597.00	1562.40	2160.00	478.80	1,562.40	2,041.20
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives	5.40	136.59	141.99			
Pipe		100.44	100.44			
Track	1.80	42.01	43.81			
Other	34.21	167.56	201.77			
(4) Operating Equipment:						
Rental	100.00	500.00	600.00			
Purchase						
~~Depreciation~~ purchase		45.00	45.00			
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment		97.00	97.00			
Sampling and Analysis						
Payroll Taxes						
Liability Insurance Workmen's Comp.	10.00	28.60	38.60	00	28.60	28.60
Soc. Sec.	8.96	22.94	31.90	7.18	22.94	30.12
(8) Contingencies (specify):						
Miscellaneous		50.00	50.00			
TOTALS	647.97	2819.14	3657.11	687.39	2,819.14	3,506.53

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

Date 12-3-52 *Payee Coughlin & Henderson

Per Glen Coughlin Title Partner

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

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

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 5.15.54

Signature [illegible] (Authorized Certifying Officer)

Date 12-30-52 Vou. No. 53-75-A

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E-326 in accordance with the terms of the contract.

Signature R. L. Rolman, $523.04 Title Mining Engineer Date Dec. 15, 1952

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE: R. D. B.

Signature [illegible] Title Executive Officer Date 12/22/52

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(*a*) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(*b*) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(*c*) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 1 5 1953

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of [illegible] 195[illegible] Docket No. DMEA [illegible] Contract No. [illegible]
Operator's Name [illegible] Minerals [illegible]
Address [illegible]

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting	[illegible]	[illegible]	33	[illegible]	47	[illegible]	150	[illegible]
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
[illegible]		0.00		[illegible]				
TOTAL DISTRIBUTED COSTS		[illegible]		[illegible]				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased				45.00				[illegible]
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		[illegible]		[illegible]				[illegible]

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

Date 12-3-52 Operator [illegible]

Per [illegible] Title [illegible]

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

REMARKS:

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 1 1953

224 New Customhouse
Denver 2, Colorado

January 7, 1953

WSM

Memorandum

To: Secretary to the Operating Committee
Defense Minerals Exploration Administration

From: Executive Officer, Field Team, Region IV

Subject: Form MF-104, DMEA Docket 2320, Contract Idm-E326 (Tungsten) Coughlin and Henderson (Range View Mine) Boulder County, Colorado

Enclosed are two copies of the Operator's Monthly Progress Report Form MF-104, and MF-104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data for the period of November, 1952, pertaining to DMEA Docket 2320, Contract Idm E326 (Tungsten) Coughlin and Henderson (Range View Mine) Boulder County, Colorado.

John F. Shaw for
W. H. King

Enclosures

53-75-A

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
REGION IV

Administrative Audit Difference Statement

Date: December 30, 1952
Payee's
Reference: Progress
Report, November, 1952

Glen Coughlin & Elmer Henderson
2037 Walnut
Boulder, Colorado

Upon examination of the above Payee's Reference a difference was Found which made it necessary to suspend your account accordingly:

Amount Claimed $817.97

Difference $130.58

Amount Approved $687.39

The reason for the difference was due to:

Not allowed by contract (wages of third man)	118.80
Social Security on above disallowances	1.78
Lack of Documentation on State Compensation	10.00
	130.58

Any reclaim for deductions made above must be supported by the ORIGINAL of this form.

Very sincerely yours,

Alfred K. Olson

~~M. E. Stokes~~
Audit Section

R-IV-B & F Form No. 4
4-15-52 D

53-75

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

New Customhouse
Denver 2, Colorado

December 22, 1952

Memorandum

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 12 1953

To: T. A. Christensen

From: Executive Officer, Field Team, Region IV

Subject: DMA Docket 2380, Contract Idm-2386 (Tungsten) Coughlin and Henderson (Range View Mine) Boulder County, Colorado Operator's Monthly Progress Report for the period of November, 1952

Enclosed are the original and four copies of Form MF-104 and Form MF-104A, Narrative Report, and Engineer's Report for the above period.

The small amount of progress reported did not warrant an inspection, therefore, subject to subsequent verification of work reported and contingent on your verification of the correctness of applicable rates and arithmetic accuracy of computations, we recommend that payment be made to the operator for 75 percent of the amount claimed on the Form MF-104, with the following exceptions.

Labor - $118.80 - Not allowed by contract
Social Security - $1.78 - Claimed for above labor
State Compensation Insurance - $10.09 - Lack of proper documentation.

Remarks:

Date of Report - December 3, 1952
Date Received in Colorado Branch Office - December 12, 1952
Date received in Region IV Office - December 18, 1952
Date processed for payment - December 19, 1952

W. H. King
W. H. King

Enclosures

RDB:oc
cc: Contract
Secretary to the Operating Committee (2)
WMTraver
Chron.
AHKoschmann (2)

Region IV

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
December 16, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 1 1952

Memorandum

To: Executive Officer, Field Team, Region IV

From: Chief, Colorado Branch, Mining Division, Region IV

Subject: DMEA 2320, Contract Idm-E326 (Tungsten), Coughlin and Henderson (Range View mine), Boulder County, Colorado - Progress report for November 1952

Enclosed please find five copies of the above progress report--forms MF-104 and MF-104A, with proper documentation--and seven copies of R. L. Belmer's memorandum covering inspection of the accounts.

The underground progress reported by the contractor in his narrative will be inspected on a trip planned shortly to the district. Belmer disallows the wages of one man and social security in the total amount of $120.58 as unauthorized by the contract and charged after the contractor had been cautioned regarding the charge on the previous month. He will again be advised regarding the extra labor charge on the proposed inspection trip.

The $120.58 disallowance from $817.97 claimed by the contractor leaves a balance of $697.39. Of this sum 75 percent, or $523.04, is recommended for payment, subject to Region IV audit.

W. M. Traver, Jr.

W. M. Traver, Jr.

enclosures
WMT/cb
cc 4
AMKoschmann
E326
DMEA Chron

Region IV

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 1 1953

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
December 16, 1952

Memorandum

To: Chief, Colorado Branch, Mining Division, Region IV

From: R. L. Bolmer

Subject: DMEA 2320, Contract Idm-E326 (Tungsten), Coughlin and Henderson (Range View mine), Boulder County, Colorado - Progress report for November 1952

Thirty-three feet of drifting is the reported progress under the subject contract during November. The work reported conforms to the terms of the contract and has been shown correctly on form MF-104A.

One consideration in the original recommendation of the project was that the work could be performed by two men. The two partners, Coughlin and Henderson, indicated that they could perform all the necessary work and the contract subsequently drawn up stipulated that the work was to be performed by two miner-timbermen. One of the partners later became ill and a third man was hired in his place. This period it is noted that claim has been made for the labor of all three men. The contractors were cautioned last period that only two men were necessary to perform the required work; therefore, the wages claimed this period for Coughlin in the amount of $118.80 and the employer's share of social security on this amount, $1.78, are not approved.

The remainder of the costs incurred this period, or $697.39, are considered necessary and are approved. Payment of 75 percent of the approved costs, or $523.04, is recommended.

R. L. Bolmer

R. L. Bolmer
Mining Engineer

RLB/eb

cc 6
AHKoschmann
E326
DMEA Chron

[illegible]

[illegible] 1956

[illegible]

Glen Coughlin

Distributor Sheet Nov 1952

	Invoice	Total amount	Labor Labor	Operating Explosives	Material and supplies pipe	track	Other	Operating Rental	Misc. purchase	repair	State compensation	F.I.C.A.
11/1	52 Industrial Engineering and supplies	4.85		2.70			2.15					
11/20	52 " "	12.10				1.80	10.30					
11/4	52 " "	17.83					17.83					
11/29	52 " "	6.63		2.70			3.93					
11/9	52 Maud A. Coughlin	160.00						160 00				
11/29	52 State Compensation	10									10.	
11/29	52 payroll	597.60	597.60									
11/29	52 Emp share F.I.C.A	8.96										8.96
	Total	$817.97	597.60	5.40		1.80	$34.21	160.00			10.	8.96

Glen Coughlin

[illegible] [illegible] [illegible]

[illegible] 1952

[illegible]	1	3	4	5	6	8	10	11	12	13	15	15	[illegible]	[illegible]	[illegible]
[illegible]	8	8	8	8	8	8	8	8	8	8	8	8	88		
[illegible]	17	18	19	20	21	25	28	29							
[illegible]	8	8	8	8	8	8	8	8					64		
[illegible]													152	$1.50	$228.00
[illegible]	3	4	5	6	8	10	11	12	13	14			[illegible]	[illegible]	[illegible]
[illegible]	8	8	8	8	8	8	8	8	8	8			88		
[illegible]	17	18	19	20	21	25	28	29							
[illegible]	8	8	8	8	8	8	8	8					64		
[illegible]													152	$1.65	$250.80
[illegible]	8	10	13	14	17	19	20	21	29				[illegible]	[illegible]	[illegible]
[illegible]	8	8	8	8	8	8	8	8	8				72		
[illegible]													72	$1.65	$118.80
[illegible]													376		597.00

Glen Coughlin

MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of [illegible], 195[illegible] Docket No. DMEA [illegible] Contract No. [illegible]
Operator's Name [illegible] Minerals [illegible]
Address [illegible]
Contract Amount, $[illegible] Government Participation: 75% Amount, $[illegible]

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	[illegible]	[illegible]	[illegible]			
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber	[illegible]	[illegible]	[illegible]			
Explosives	[illegible]	[illegible]	[illegible]			
Pipe		[illegible]	[illegible]			
Track	[illegible]	[illegible]	[illegible]			
(4) Operating Equipment:						
Rental	[illegible]	[illegible]	[illegible]			
Purchase		[illegible]	[illegible]			
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	[illegible]	[illegible]	[illegible]			
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]		[illegible]			
(8) Contingencies (specify):						
[illegible]		[illegible]	[illegible]			
				930.52	1,892.69	2,823.21
					*- 4.07	4.07
TOTALS	[illegible]	[illegible].69	[illegible]	930.52	1,888.62	2,819.14

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

Date [illegible] *Payee [illegible]

Per Glen Coughlin Title [illegible]

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

→ NOTE.—Title 18, U. S. Code (Crimes), section 001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 12 1952

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 697.89

Signature [illegible]
(Authorized Certifying Officer)

Date 12/4/52 Vou. No. DMA-53-67

(See other side)

* Previous Deductions

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E-326 in accordance with the terms of the contract.

Signature R. L. Bolmer #697.89 Title Mining Engineer Date November 19, 1952

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. H. King Title Executive Officer Date 12/1/52

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

U. S. GOVERNMENT PRINTING OFFICE 205675

TMF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of December 1952 Docket No. DMEA [illegible] Contract No. [illegible]
Operator's Name Glen Coughlin and Alan Rosecrans Minerals [illegible]
Address [illegible], Denver, Colorado

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting	foot	530.41	14	530.41	14	30.31	150	not specified
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Gen. & Ad. Other Items	-	394.11	-	2201.60	-	-	not specified	
TOTAL DISTRIBUTED COSTS		930.52		2778.21				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased		0.00		45.00				100.00
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		930.52		2823.21				4000.00

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

Date 1-9-53 Operator Glen Coughlin & Alan Rosecrans

Per Glen Coughlin Title partner

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

REMARKS:

(Instructions on reverse)

(For Government use only)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 12 1952

INSTRUCTIONS

Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

U. S. GOVERNMENT PRINTING OFFICE 205676

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

224 New Customhouse
Denver 2, Colorado

December 9, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 12 1952

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, Field Team, Region IV

Subject: Form MF-104, DMEA Docket 2320, Contract Idm-E326 (Tungsten) Coughlin and Henderson (Range View Mine) Boulder County, Colorado

Enclosed are two copies of the Operator's Monthly Progress Report MF-104 and 104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data for the month of October, 1952, pertaining to DMEA Docket 2320, Contract Idm-E326, Coughlin and Henderson.

W. H. King

W. H. King

Enclosures

The compressor is a rental item. It was rented in August 1952

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

224 New Customhouse
Denver 2, Colorado

December 1, 1952

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region IV

Subject: DMEA Docket 2320, Contract I4m-2326 (Tungsten) Coughlin and Henderson (Range View Mine) Boulder County, Colorado Operator's Monthly Progress Report for the period of October, 1952

Enclosed are the original and four copies of Form MF-104 and Form MF-104A, Narrative Report, and Engineer's Report for the above period.

Work has been accomplished as authorized in the contract and payment is recommended for 75 percent of the amount as reported on Form MF-104, contingent on your verification of the correctness of applicable rates and arithmetical accuracy of computations, except for the following deductions.

Three laborers are allowed as the number of man-shifts for the month is not exceeded.

W. H. King
W. H. King

Enclosures

RDB:oc
cc: Contract
Secretary to the Operating Committee (2)
WMTraver
Chron.
AHKoschmann (2)

Region IV

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
November 20, 1952

Memorandum

To: Executive Officer, Field Team, Region IV

From: Chief, Colorado Branch, Mining Division, Region IV

Subject: DMEA 2320, Contract Idm-E326 (Tungsten), Coughlin and Henderson (Range View mine), Boulder County, Colorado - Progress report for October 1952

Enclosed please find five copies of the above progress report--forms MF-104 and MF-104A, with proper documentation--and seven copies of R. L. Belmar's memorandum covering inspection of the underground progress and accounts.

The underground progress is reported correctly and Belmar approves the accounts as explained in his report, with which I am in accord.

Payment of $697.89, or 75 percent of the total $930.52 claimed by the contractor, is approved subject to Region IV audit.

W. M. Traver, Jr.

W. M. Traver, Jr.

enclosures

WMT/eb

cc 4
AHKoechmann
E326
DMEA Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
November 20, 1952

Memorandum

To: Chief, Colorado Branch, Mining Division, Region IV

From: R. L. Balmer

Subject: RMEA 2320, Contract Idm-E326 (Tungsten), Coughlin and Henderson (Range View mine), Boulder County, Colorado - Progress report for October 1952

During October the contractors advanced the north drift a distance of 14 feet and continued preparatory work in the south drift. A section in the north drift below an old stope was timbered. The turn-off into the south drift was widened and caved ground near the breast cleaned out. A break down of the operator's compressor delayed drifting operations during October.

The work performed this period is in conformance with the contract and is as reported on form MF-104A.

The costs claimed on form MF-104 this period are substantiated by the required documentation and are approved in the amount of $930.52. It is noted that the employer's share of F. I. C. A. for the period July to November 1952 is claimed this month. This cost has not been claimed previously. The amount claimed is slightly less than 1.5 percent of the total payroll reported to date and, therefore, is being passed. It is not so indicated, but the workmen's compensation claimed this month is figured on the wages of Slade and Henderson only, at a rate of $2.09. The project was approved on the basis that only two men would be employed and it is so stipulated in the contract. The operators are aware of this limitation. The cost of a third man employed this period is being passed because the set limit of man-shifts per month was not exceeded.

It is recommended that 75 percent of the approved amount, or $697.89, be paid.

R. L. Balmer

R. L. Balmer
Mining Engineer

RLB/eb

cc 6, AHKoschmann
E326, RMEA Chron.

[illegible] PAY ROLL

[illegible] 1952

[illegible]	1	[illegible]	9	10	11	13	14	15	[illegible]	[illegible]	[illegible]
[illegible]	8	8	8	8	8	8	8	8	8	72		
[illegible]	16	17	20	21	22	23	24	29	31			
[illegible]	8	8	8	8	8	8	8	8	8	72		
[illegible]										144	~~1.05~~ 1.50	$216.00

[illegible]	1	8	8	9	10	11	13	14	15	[illegible]	[illegible]	TOTAL [illegible]
[illegible]	8	8	8	8	8	8	8	8	8	72		
[illegible]	16	17	20	21	22	23	20	29	31			
[illegible]	8	8	8	8	8	8	8	8	8	72		
TOTAL										144	1.05	$237.60

[illegible]	1	8	8	9	10	11	13	14	15	[illegible]	[illegible]	TOTAL [illegible]
[illegible]	-	-	-	-	-	-	-	-	-	---		
[illegible]	16	17	20	21	22	23	24	29	31			
[illegible]	-	-	-	-	-	-	-	8	8	16		
TOTAL										16	1.05	26.40

[illegible] 504 [illegible] $480.00

Glen Coughlin

[illegible] RECORD

[illegible] 1952

In the month of [illegible] on air lines, [illegible] were house and [illegible] were having the engine of the compressor overhaul. [illegible] had [illegible] drifting, [illegible] the south drift, [illegible] trucks. We tagged the old stope, where it [illegible] out and ran down into the drift.

Glen Coughlin

Distribution Sheet Oct 30-1952

Invoice			Total Amount	Labor	Labor Operating Materials & Supplies: Employer	Pipe	Track	Others	Operating Exp. Misc.: Rental	Purchase & Repair	State Compensation	F.I.C.A.
10/8	52	Industrial Engineering & supply Co	30.22			2.53		21.19		16.50		
10/10	52	" "	114.76		104.70			10.06				
10/19	52	Maud Coughlin	160.00						160.00			
10/4	52	Central Supply Co	6.06							6.06		
10/11	52	Joe Weaver	63.56							63.56		
10/30	52	Verbel Federal Mogul	9.98							9.98		
10/31	52	Maud Coughlin	40.00			40.00						
10/31	52	State Compensation	9.00								9.00	
10/31	52	Elbor Henderson	237.60	237.60								
10/31	52	Dick Slade	216.00	216.00								
10/31	52	Glen Coughlin	24.40	24.40								
10/31	52	Employers Share F.I.C.A.	22.94									July to w/l 22.94
		Total	930.52	480.00	104.70	42.53		21.25	160.00	90.10	9.00	22.94

			Underground Job	Drifting
Labor	480.00		240.00	240.00
Employer	104.70		13.09	91.61
Operating Mat. & Supplies: Pipe	42.53			42.53
Others	21.25			21.25
Operating Expense Rental	160.00		80.00	80.00
Misc. Rep. to equip	90.10		45.06	45.06
			4.50	4.50
Compensation	9.00		11.47	11.47
F.I.C.A. employers	22.94			
			394.11	536.41

Glen Coughlin

Form MF-101 (Rev.)
(April 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.3.
Approval Expires 6-30-53.

DEPARTMENT
Defense Minerals Administration
RECEIVED
NOV 2 - 1952

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of September, 1952 Docket No. DMEA 2320 Contract No. 10m-320
Operator's Name Glen Coughlin and Elmer Henderson Minerals Tungsten
Address 2037 Walnut St., Boulder, Colorado
Contract Amount, $ 4800.00 Government Participation: 75 % Amount, $ 3600.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent / Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	435.60	646.80	1082.40			
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives		31.89	31.89			
Pipe	46.94	76.97	123.91			
Track		42.01	42.01			
Other	106.11	40.20	146.31			
(4) Operating Equipment: Saddle						
Rental Compressor & Air	180.00	160.00	340.00			
Purchase Water Tank	25.00	20.00	45.00			
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	6.07	5.50	11.57	2.00	5.50	7.50
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
State Compensation	7.00	12.00	19.00			
(8) Contingencies (specify):						
Freight		50.00	50.00			
TOTALS	806.72	1085.97	1892.69	802.65	1,085.97	1,888.62

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

Date 10-3-52 *Payee Glen Coughlin & Elmer Henderson

Per Glen Coughlin Title Partner

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

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

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 601.99

Signature [illegible]
(Authorized Certifying Officer)

Date 11/18/52 Vou. No. DMA 53-61

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E-826 in accordance with the terms of the contract.

Signature R. L. Bolmer, #605.04 Title Mining Engineer Date November 6, 1952

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE

Signature W. H. King Title Executive Officer Date 11/13/52

MONTHLY REPORT OF OPERATOR

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(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
[illegible]
NOV 24 1952

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of September 1952 Docket No. DMEA 2 320 Contract No. Ion 320
Operator's Name Glen Coughlin and Elzor Henderson Minerals Uranium
Address 2 037 Walnut St., Boulder, Colorado

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Underground Rehabilitation		781.72	1065.97	1647.69				
TOTAL DISTRIBUTED COSTS								TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased		25.00	20.00	45.00				100.00
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		806.72	1085.97	1692.69				4800.00

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

Date October 3, 52 Operator Glen Coughlin & Elzor Henderson

Per Glen Coughlin Title Partner

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

REMARKS:

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

224 New Customhouse
Denver 2, Colorado

WASHINGTON 25, D. C.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
NOV 20 1952

November 19, 1952

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, Field Team, Region IV

Subject: Form MF-104, DMEA Docket 2320, Contract Idm-E326 (Tungsten) Coughlin and Henderson (Range View Mine) Boulder County, Colorado

Enclosed are two copies of the Operator's Monthly Progress Report MF-104 and 104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data for the month of September, 1952, pertaining to DMEA Docket 2320, Contract Idm-E326, Coughlin and Henderson.

for John T. Shaw
W. H. King

Enclosures

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

[illegible] Customhouse
Denver 2, Colorado

November 13, 1952

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region IV

Subject: DMEA Docket 2320, Contract Idm-M386 (Tungsten) Coughlin and Henderson (Range View Mine), Boulder County, Colorado - Operator's Monthly Progress Report for the period of September, 1952

Enclosed are the original and four copies of Form MF-104 and Form MF-104A, Narrative Report, and Engineer's Report for the above period.

Work has been accomplished as authorized in the contract and payment is recommended for 75 percent of the amount as reported on Form MF-104, contingent on your verification of the correctness of applicable rates and arithmetical accuracy of computations, except for the following deductions.

Charges of $4.07 for radiator repair and parts from Al's Radiator Shop, Boulder, Colorado, is not an allowable charge as the subject contract makes no allowance for a transportation car or truck or for repair to same.

This charge may have been for compressor repair but this seems unlikely. If this is the case it should be so stated and resubmitted with the October Form MF-104.

W. H. King
W. H. King

RDB:oc

cc: Contract
Secretary to Operating Committee (2)
WMTraver
Chron.
AHKoschmann (2)

Region IV

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
November 7, 1952

Memorandum

To: Executive Officer, Field Team, Region IV

From: Chief, Colorado Branch, Mining Division, Region IV

Subject: DMEA 2320, Contract Idm-E326 (Tungsten), Coughlin and Henderson (Range View mine), Boulder County, Colorado - Progress report for September 1952

Enclosed please find five copies of the above progress report--forms MF-104 and MF-104A, with proper documentation--and seven copies of R. L. Bolmer's memorandum covering inspection of the underground progress and accounts.

The underground progress is correctly reported and the accounts are in order.

Payment is approved of $605.04, or 75 percent of the total $806.72 claimed by the contractor, subject to Region IV audit.

W. M. Traver, Jr.

W. M. Traver, Jr.

enclosures

WMT/eb

cc 4
AHKoschmann
E326
DMEA Chron.

Region IV

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
November 7, 1952

To: Chief, Colorado Branch, Mining Division, Region IV

From: R. L. Bolmer

Subject: DMEA 2320, Contract Idm-E326 (Tungsten), Coughlin and Henderson (Range View mine), Boulder County, Colorado - Progress report for September 1952

Progress under the subject contract was inspected October 20, 1952, with the operators. Work during September consisted entirely of underground preparation and rehabilitation. Track and pipe were extended to both the north and south drifts. Two sharp curves in the drift were widened and timbered. Heavy ground along the drift was caught up and timbered. On the date of the inspection the operators had advanced the north drift approximately 12 feet on a narrow quartz vein. One operator has been ill and unable to work underground. A third miner was hired in his place.

The work performed this period is in conformance with the contract and is as reported on form MF-104A.

The supply and service charges claimed this period are considered necessary and do not appear excessive.

Project costs this period are approved in the amount claimed, or $806.72. Payment of 75 percent of the approved amount, or $605.04, is recommended.

R. L. Bolmer

R. L. Bolmer
Mining Engineer

RLB/cb

cc 6
AHKoschmann
E326
DMEA Chron.

November 17, 1952

Progress
Report - September 1952

Glen Coughlin
2037 Walnut St.
Boulder, Colorado

We are unable to find reason for reference a difference can [illegible] to reconcile your account [illegible]

[illegible]	$ 806.72
[illegible]	$ 4.07
[illegible]	$ 802.65

The reason for the difference was due to:

Al's Radiator Shop invoice - This service is not chargeable under the terms of the contract.

Any reclaim for deductions made above must be supported by the ORIGINAL of this form.

Very sincerely yours,

N. E. Stokes
Audit Section

[illegible]-R & F Form No. 4

NARRATIVE REPORT STORY

October 3, 1952

In September we finished cleaning and straighting our tunnel,timbered drift where we had to straighten the tunnel. We finished putting 298 feet of tracks and 215 feet of air line in. We made two sumps for our water.

Glen Coughlin has been off account of illness and has man starting October 1.

Glen Coughlin

Distribution Sheet Sep. 30. 1952

		Invoice	Total amount	Labor Operating Expenses	Materials & Supplies Pipe	Track	Fibre	Rental	Operating expense purchases	Misc. repair	State compensation
9/1	52	Valentine Hardware	2.14	Labor			2.14				
9/4	52	A. Radiator Shop	4.07							4.07	
9/2	52	Industrial engineering & supply co	20.00					20.00			
9/4	52	" "	6.54		1.40		5.14				
9/3	52	" "	47.14		2.90		17.24		25.00	2.00	
9/4	52	" "	5.95		2.47		3.48				
9/3	52	" "	4.20		.17		4.03				
9/14	52	Maude Coughlin	140.00					140.00			
9/16	52	R. A. Friedman	7.48				7.48				
9/3	52	State compensation	7.00								7.00
9/30	52	Jennie Coughlin	40.00		40.00						
9/30	52	Elgar Henderson	277.20	277.20							
9/30	52	Glen Coughlin	158.40	158.40							
		Total	804.72	435.60	46.94		106.11	180.00	25.00	6.07	7.00

Glen Coughlin

COUGHLIN & HENDERSON RANGE VIEW MINE BOULDER COUNTY COLORADO CONTRACT Idm-E326

DISTRIBUTION OF COSTS ** JULY AND AUGUST 1952

INVOICE	AMOUNT	LABOR	OPERATING MATERIALS & SUPPLIES				OPERATING EQUIPMENT		MISCELLANEOUS		
			Explosives	Pipe	Track	Other	Purchased	Rented	Repairs	Liability Insurance	Freight
Indust. Eng. & Supply Co. 7/31/52	33.98		31.89	2.09							
P.A.Slattendale 7/19/52	60.00				30.00	10.00	20.00				
Maud Coughlin 8/19/52	160.00							160.00			
R.A.Freedman 8/28/52	11.81					11.81					
Al's Radiator Shop 8/29/52	5.50								5.50		
Indust. Eng. & Sup. Co. 8/31/52	102.93			74.88	12.01	16.04					
R.C.Hoover 8/6/52	50.00										50.00
Valentine Hdwr. 8/9/52	2.35					2.35					
July Payroll	158.40	158.40									
August Payroll	488.40	488.40									
~~Workmans Comp. and~~ Occupational Disease Insurance: ~~$323.40 of July, August payroll at $2.51 per $100.00~~	12.60 ~~8.11~~									12.60 ~~8.11~~	
Advance premium											
TOTALS	~~1081.48~~	646.80	31.89	76.97	42.01	40.20	20.00	160.00	5.50	~~8.11~~ 12.60	50.00

CERTIFIED COPY OF PAY ROLL

SEPTEMBER 1952

September	2	3	4	5	6	9	10	11	12	13	HOURS	RATE	TOTAL AMOUNT
G. Coughlin	8	8	8	8	8	8	8	8	8	8	80		
September	15	16	17	18	19	22	23	24	25	26	30		
G. Coughlin	8	8									16		
TOTAL											96	$1.65	$158.40

September	2	3	4	5	6	9	10	11	12	13			
E. Henderson	8	8	8	8	8	8	8	8	8	8	80		
September	15	16	17	18	19	22	23	24	25	26	30		
E. Henderson	8	8	8	8	8	8	8	8	8	8	8	88		
TOTAL												168	$1.65	$277.20

Final Total 264 hr $435.60

Glen Coughlin

Form MF-104 (Rev.)
(April 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

Defense Minerals Administration
RECEIVED
OCT 6 1952

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of July, August, 1952 Docket No. DMEA 2320 Contract No. Idm E326
Operator's Name Glen Coughlin and Elmer Henderson Minerals Tungsten
Address 2037 Walnut Street, Boulder, Colorado
Contract Amount, $ 4,800.00 Government Participation: 75 % Amount, $ 3,600.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	646.80		646.80			
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives	31.89		31.89			
Pipe	76.97		76.97			
Track	42.01		42.01			
Other	40.20		40.20			
(4) Operating Equipment:						
Rental Compressor	160.00		160.00			
Purchase Mine car	20.00		20.00			
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	5.50		5.50			
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
State Compensation	12.60		12.60			
(8) Contingencies (specify):						
Freight on compress.	50.00		50.00			
TOTALS	$1085.97		$ 1085.97	1085.97		1085.97

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

Date Sept. 4, 1952 Payee Glen Coughlin

Per _____ Title Partner

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

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

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 814.48

Signature _____
(Authorized Certifying Officer)

Date 10/1/52 Vou. No. DMA 53-40

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E-326 in accordance with the terms of the contract.

Signature R. L. Bolmer, #81448 Title Mining Engineer Date September 15, 1952

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE: #81448

Signature ..... Title ..... Date .....

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

U. S. GOVERNMENT PRINTING OFFICE 205675

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 6 1952

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of July and August 1952 Docket No. DMEA 2320 Contract No. Idm E 326

Operator's Name Glen Coughlin and Elsor Hendersen Minerals Tungsten

Address 2037 Walnut Street, Boulder, Colorado

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Underground Rehabilitation	-	1,065.97	-	1,065.97	-	-		
TOTAL DISTRIBUTED COSTS								TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased		20.00		20.00				100.00
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
				$1,085.97				
TOTAL COSTS		$1,085.97						$4,800.00

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

Date Sept. 4, 1952 Operator Glen Coughlin

Per _____ Title Partner

REMARKS:

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

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

U. S. GOVERNMENT PRINTING OFFICE 205676

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

224 New Customhouse
Denver 2, Colorado

October 3, 1952

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, Field Team, Region IV

Subject: Form MF-104, DMEA Docket 2320, Contract Idm-E326, (Tungsten) Coughlin and Henderson, Boulder County, Colorado

Enclosed are two copies of the Operator's Monthly Progress Report MF-104 and MF-104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data for the months of July and August, 1952, pertaining to DMA Docket 2320, Contract Idm-E326, Coughlin and Henderson, Boulder County, Colorado.

W. H. King

W. H. King

Enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Mining Division
Region IV

September 19, 1952

Memorandum

To: T. A. Christensen

From: Acting Chief, Mining Division, Region IV

Subject: DMEA Docket 2320, Contract Idm-E326 (Tungsten) Coughlin and Henderson, Boulder County, Colorado - Operator's Monthly Progress Report for the period of July and August, 1952.

Enclosed are the original and four copies of Forms MF-104 and MF-104A, Narrative Report, and Engineer's Report for the above period.

Work accomplished is in accordance with the contract and payment is recommended for the amount of $814.48, which is 75 percent of the total of $1085.97.

W. H. King
W. H. King

Enclosures

WLD:cc

cc: Contract
Secretary to the Operating Committee (2)
WMTraver
Chron.
Koschmann (2)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Room 137, Building 20
Denver Federal Center
Denver 14, Colorado
September 16, 1952

Memorandum

To: Executive Officer, Field Team, Region IV

From: Chief, Colorado Branch, Mining Division, Region IV

Subject: DMEA 2320, Contract Idm-R326 (Tungsten), Range View mine, Boulder County, Colorado - Progress report for July and August 1952

Please find enclosed the Coughlin and Henderson initial progress report, forms MF-104 (revised) and MF-104A, with narrative, distribution of cost, payroll, and one copy only of certified invoices for the months of July and August, and seven copies of R. L. Belmer's memorandum covering inspection of the accounts and underground progress.

We are passing the certification by Glen Coughlin on the MF-104 (revised) and MF-104A forms and assume it will be acceptable to you and the accounts and audits section.

Payment of $814.48, or 75 percent of the total $1,085.97 claimed by the contractor, is approved.

W. M. Traver, Jr.

W. M. Traver, Jr.

enclosures

WMT/amh

cc 4
AHKoschmann
R326
DMEA Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Room 137, Building 20
Denver Federal Center
Denver 14, Colorado
September 16, 1952

Memorandum

To: Chief, Colorado Branch, Mining Division, Region IV

From: R. L. Bolmer

Subject: DMEA 2320, Contract Idm-E326 (Tungsten), Range View mine, Boulder County, Colorado - Progress report for July and August 1952

Progress under the subject contract was inspected on September 12, 1952, with the operators. Contract work commenced July 21, 1952. The contractors, Glen Coughlin and Elmer Henderson, are performing the work themselves. Progress for July and August is as reported in the operators' narrative. The mine's portal was opened and the first 20 feet of the crosscut adit was timbered and lagged. Mine track and compressed air pipe were extended from the portal as the workings ahead were cleaned of caved material. Two short radius curves were widened to facilitate tramming. A shallow sump was established in a stub crosscut to collect drilling water. On the date of inspection, track and pipe had been extended to the start of both the north and south drifts, a distance of approximately 175 feet.

The operators installed their compressor near the portal. A shop and compressor shelter was constructed. Facilities for dumping waste were provided near the portal. The 1/4-mile access road from Sugar Loaf highway to the portal was improved. The cost of surface buildings and road work was not charged as a cost to the project. All work to date has been performed efficiently and in accordance with good mining practice.

The work performed during July and August, for which claim is made, is in conformance with the contract and is as reported on form MF-104A.

The supply and service charges claimed this period are considered necessary and do not appear excessive. All charges are properly documented. The operators claim an advance premium of $12.60 which was paid to the State Compensation Insurance Fund for

occupational disease insurance on Henderson only. Coughlin, as owner, cannot be covered. This premium is payable in advance and is figured at a rate of $0.42 per $100.00 of payroll on an estimated annual payroll of $3,000.00. Workmen's Compensation, at a rate of $2.09 per $100.00 of Henderson's wages, will be claimed monthly as it is paid. The premium covering July and August will be claimed in September.

Project costs totaling $1,065.97 are approved. Payment of 75 percent of the approved amount, or $814.48, is recommended.

R. L. Bolmer

R. L. Bolmer

RLB/mah

cc 6
AHKoschmann
E326
DMRA Chron.

Narrative Report July - August 1952

We started on the Range View July 21, 1952. Our first tasks was to cut timbers and cleaning our portal. Next we move our compressor over from Gold Hill.

We had to frame timber and muck portal, then we started laying rails and timbering the portal of the tunnel. The rest of time has been spent on laying track, timbering, laying air line, and widening turn in drift.

Glen Coughlin

Name, ccupation	Hours worked during July																															Total Hours	Rate	Wages
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
,Coughlin, Miner																					8	8				8		8		8	8	48	$1.65	$79.20
. Henderson, [illegible] Miner																					8	8				8		8		8	8	48	$1.65	$79.20
																								Total, July 1952								96		$158.40

Name, ccupation	Hours worked during August																															Total Hours	Rate	Wages
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
. Coughlin, Miner	8	8		8	8	8	8	8			8	8	8	8				8	8			4 ~~8~~	8		8	8	8	8					148	$1.65	$244.20
. Henderson, [illegible] Miner	8	8		8	8	8	8	8			8	8	8	8				8	8			4	8		8	8	8	8					148	$1.65	$244.20
																								Total, August 1952								296		$488.40

Certified copy of payroll for the months of July and August 1952

by Glen Coughlin

STATEMENT OF ESTIMATED ADVANCE PREMIUM

STATE COMPENSATION INSURANCE FUND

660 State Capitol Annex, Denver, Colorado

Glen D. Coughlin &
E. L. Henderson
2037 Walnut St.
Boulder, Colo.

23404
1

Aug. 8, 1952

Policy Period From Mo.	Day	Yr.	To Mo.	Day	Yr.	Classification	Payroll	Workmans Compensation Rate	Workmans Compensation Premium	Occupational Disease Rate	Occupational Disease Premium	Previous Balance
7	19	2	8	1	3	1164	$3,000	2.09	$ 63	.42	$ 12.60	$ 12.60
7	19	2	8	1	3	0020			10			
ANNUAL						PREMIUM			73			
		0	D			ADVANCE					12.60	12.60
7	19	2	8	1	3	9998	CHG DEP		100			100.00
7	19	2	8	1	3	0041	MIN					
												$112.60T

Certified true copy

By Glen Coughlin

State Compensation Insurance Fund
PAID
Aug 11 1952

By /s/ A.K.

August 11, 1953

Memorandum

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Memorandum of Non-Discovery
Docket No. DMEA 2320 - Tungsten
Glen Coughlin and Elmer L. Henderson
Range View Lode Mining Claim
Boulder County, Colorado
Contract No. Idm-2326

This Division hereby concludes that the work done upon the subject property, as designated in the contract, has resulted in no discovery or development from which commercial production may be made.

1. The property on which the exploration was conducted, known as the Range View Lode Mining Claim, is unpatented and recorded in Book 690, Page 503 in the Book of Records, in the office of the County Clerk and Recorder of Boulder County, Colorado.

2. This exploration was for ores of tungsten, which occurs mainly as ferberite in this area.

3. This project consisted of rehabilitation of the old workings and drifting and raising on the north and south fissures. About 300 feet of track and pipe were installed in the old workings. The drift on the north vein was extended for 42 feet and as it showed no improvement work was stopped. The south vein drift was extended 30 feet and a raise was put up for 26 feet. No ore was found and as funds were exhausted the work was stopped.

4. The work was started in July 1952, and completed in March 1953. Some time was lost due to illness of lessees, and by Amendment No. 1 the time was extended from 8 months to 11 months.

5. A final audit of the contract showed that the full amount of the contract, $4,800.00, had been expended, of which the Government's share was 75 percent or $3,600.00.

6. By a letter of July ~~22~~ 28, 1953, the Operators were advised that the Government was closing its books and that no certification of discovery would be made and that there would be no lien against the property.

SIGNED

. . Martin, Acting Chief
Iron and Ferro-Alloys Division

cc: DOCKET
ADM. READ. FILE
OPER. COMM.
CODE 400
FIELD TEAM, REG. 4
D. M. LEMMON, USGS
R. W. GRAHAM, USBM

T.L.Chapman/ls 8/11/53

Yes Audited

No Certified

W[illegible] ANALYSIS SHEET - DMEA PROJECT[illegible]

Analysis as of ~~12/13/1954~~
Incl. Voucher for _____

Yes Actual Cost

Agreed Unit Costs

Name Glen Coughlin & Elzor L.Henderson

Docket No. ~~DMEA-2320~~

State Colorado

Commodity Tungsten

Idm-E No. ~~326~~

OPERATION	AUTHORIZED Units	AUTHORIZED Cost	COMPLETED Units	COMPLETED Cost	NET COST
Drifting & Crosscutting	~~100'~~	~~* 2,500.00~~	~~72'~~	~~2,089.03~~	~~29.01 ft.~~
Raising	~~150'~~	~~* 1,000.00~~	~~26'~~	~~452.06~~	~~17.39~~
Shafts					
Winzes					
Drilling (Specify)					
Surface Excavation					
Underground Excavation					
Roads and Trails					
Operating Equipment Purchased		100.00			
Surface Rehabilitation & Repairs		* 1,200.00		2,258.91	
Underground Rehabilitation					
New Building, Improvements, etc.					
Other (Specify)					
Totals		4,800.00		4,800.00	

* Costs of re-habilitation, drifting and raising not specified in contract. Hence costs were estimated.

Prepared by TLC

71626

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

224 New Customhouse
Denver 2, Colorado

June 22, 1953

Memorandum

To: Secretary to the Operating Committee
Defense Minerals Exploration Administration

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMEA 2320 (Tungsten), Contract Idm-E326, Glen Coughlin and Elzor L. Henderson, a partnership, Boulder County, Colo.

Enclosed are the following final reports pertaining to work performed under the subject contract:

1. Original and one copy of the Operator's final report.

2. Original and three copies of the final geologic report by the Geological Survey.

3. Original and three copies of the final engineering report by the Bureau of Mines.

A discovery or development of ore did not result from the exploration work, therefore no certification of discovery is recommended.

W. H. King
W. H. King

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
7-8-53
(date)

FINAL F.T. REPORT

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
May 4, 1953

Mining Division
Date Rec'd.
MAY 5 - 1953
BUREAU OF MINES
Denver, Colorado

Memorandum

To: Executive Officer, Field Team, Region IV

From: Chief, Mineral Resources Branch, Mining Division, Region IV

Subject: DMEA 2320, Contract Idm-E326 (Tungsten), Glen Coughlin and Elzor L. Henderson (Range View mine), Boulder County, Colorado - Final engineering report

Please find enclosed the original and eight copies of R. L. Bolmer's final engineering report on Contract Idm-E326. A discovery cannot be certified.

W. M. Traver

W. M. Traver

enclosures

WMT/cb

cc: 8
E326
DMEA Chron.

Reviewed by
DMEA OPERATING COMMITTEE
7-3-53
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

FINAL ENGINEERING REPORT

DMEA 2320, Exploration Project Contract Idm-E326

Glen Coughlin and Elzor L. Henderson, Operators

Range View Mine

Boulder County, Colorado

Tungsten

R. L. Bolmer, Mining Engineer
Bureau of Mines

April 27, 1953

Reviewed by
DMEA OPERATING COMMITTEE
7-3-53
(date)

DMEA 2320
Contract Idm-E326

GLEN COUGHLIN AND ELZOR L. HENDERSON, OPERATORS
RANGE VIEW MINE
BOULDER COUNTY, COLORADO

CONTENTS

Final Engineering Report	Page
Summary and introduction	1
Location	2
History and production	2
Ownership	2
Description of deposit	3
Work completed under the contract	4
Expenditures	6
Efficiency of operation	6
Equipment purchased for project	7
Conclusions and recommendations	9

ILLUSTRATIONS

Figure	Follows Page
1. Location map, Range View mine, Boulder County, Colorado	2
2. Plan of Range View mine, Boulder County, Colorado	5

DMEA 2320
Contract Idm-E326

GLEN COUGHLIN AND ELZOR L. HENDERSON, OPERATORS
RANGE VIEW MINE
BOULDER COUNTY, COLORADO

FINAL ENGINEERING REPORT

By

R. L. Bolmer

SUMMARY AND INTRODUCTION

Certain exploratory work for tungsten at the Range View mine, Boulder County, Colo., as provided under exploration project contract Idm-E326, dated May 23, 1953, between Glen Coughlin and Elzor L. Henderson of Boulder, Colo., and the United States of America, was completed March 11, 1953. A discovery was not made as a result of work completed under the contract and additional exploration of the property, financed either privately or by the Government, is not warranted or anticipated.

The exploration accomplished at the property conformed to the provisions of the contract and costs totaling $4,800.00 were incurred and approved, subject to final audit. The Government participated to the extent of 75 percent, or $3,600.00, in the total approved cost.

Work under the contract commenced July 21, 1953, and was pursued intermittently until the expenses incurred and approved had equaled

the contract amount. In addition to certain underground rehabilitation and preparation, the work involved drifting a distance of 42 feet on a north vein and drifting and raising distances of 30 and 26 feet, respectively, on a south vein. The efficiency of operations under the contract was about average for projects of the type authorized.

LOCATION

The Range View mine is located in the north central portion of the Boulder tungsten district, Boulder County, Colo., in sec. 34, T. 1 N., R. 72 W., sixth principal meridian (fig. 1). The property is in Gordon Gulch about 14 miles, via State Highway 119 and the Sugar Loaf road, west of Boulder, Colo.

HISTORY AND PRODUCTION

The mine reportedly was worked between 1915 and 1918 from surface trenches and pits. A short adit 50 feet below the surface was reported stoped to the surface and ore valued at $90,000.00 was reported to have been removed from the shallow workings. In 1942-43, development 50 to 100 feet below the surface workings was performed and ore valued at $2,000.00 reportedly was shipped.

OWNERSHIP

The veins and underground workings of the Range View mine are within the single, unpatented Range View lode mining claim. The location certificate is recorded in book 690, page 503, in the office of

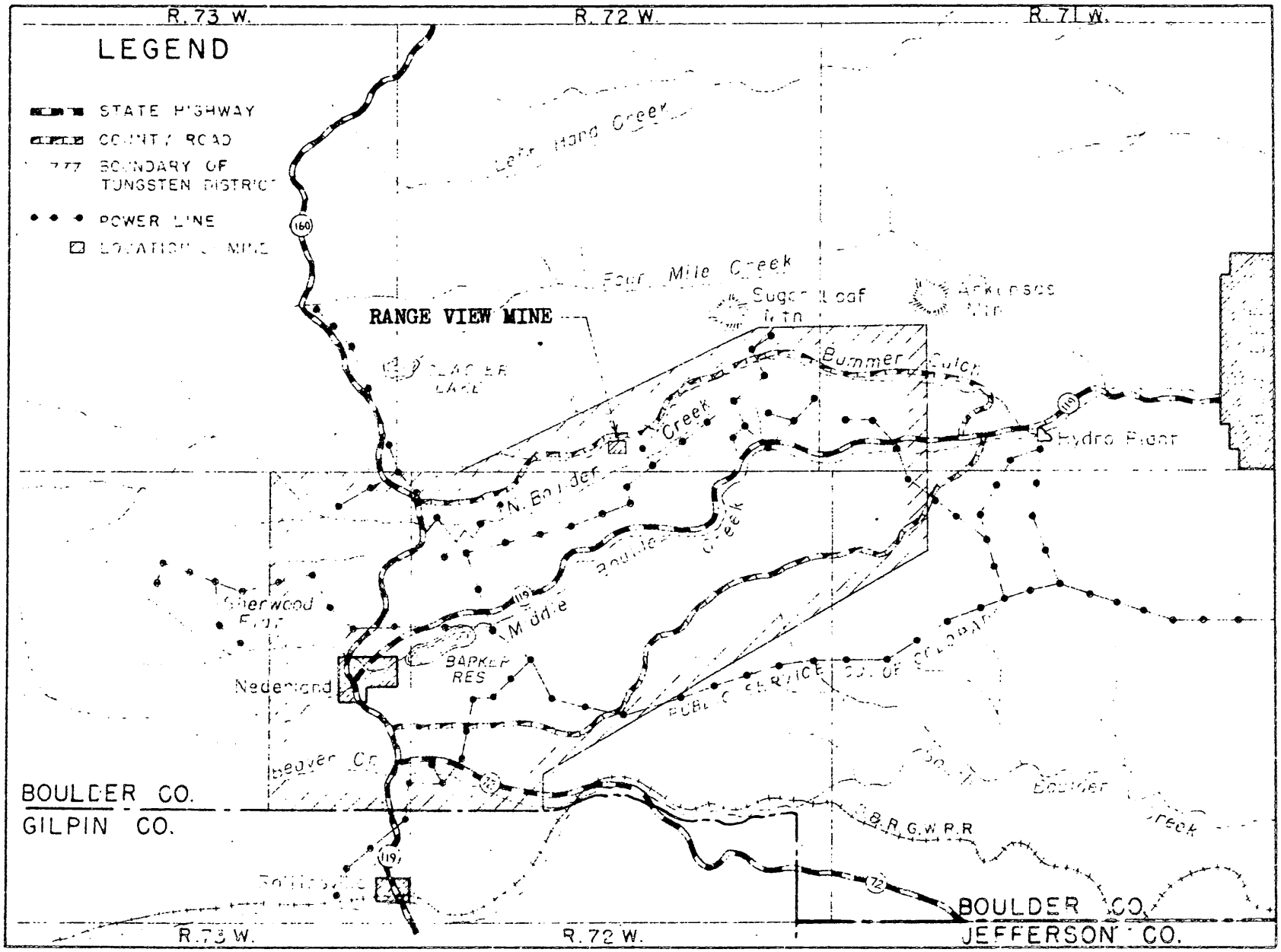

FIG. 1 – LOCATION MAP, RANGE VIEW MINE, BOULDER COUNTY, COLO. DMEA 2320

the County Clerk and Recorder, Boulder County, Colo. John Coughlin and Glen Coughlin, father and son, are the recorded owners. John Coughlin has leased his undivided one-half interest in the claim to Elzor L. Henderson. Henderson and Glen Coughlin, as partners, were the operators under the exploration project contract. John and Glen Coughlin each subordinated their rights in the Range View claim to the Government under the provisions of the contract.

DESCRIPTION OF DEPOSIT

Three veins have been exposed by the surface and underground development of the Range View mine. The development of these veins prior and subsequent to work under the exploration contract is shown on figure 2.

The south vein was worked for about 170 feet along the surface. These early-day workings are inaccessible but probably were extended 25 to 50 feet below the surface. More recently, a crosscut adit was driven to cut the vein at a lower depth. At the intersection, the vein was a rather flat shear zone in schist, 18 inches in width, and barren of tungsten mineral. Prior to the exploration contract, the south vein had not been explored to any extent at the elevation of the adit.

A second vein cut in the adit and explored by a drift to the west proved unproductive. The west drift intersected a tight shear zone

in granite and this third, or north, vein was followed for about 70 feet by the north drift. Near the breast of the north drift, the zone contained a few inches of quartz and ferberite and had been stoped for 35 feet along, and to a height of 25 feet above, the drift.

Measured or indicated reserves of tungsten ore had not been developed in the mine. The inferred reserves which did exist were based upon past production at the property, upon geologic evidence of the extension of the vein structure, and upon the occurrence of ore on similar veins in the district.

Approximately 150 feet of drifting or raising was approved for exploration of the property. The northern vein was not too promising and drifting on it was limited to approximately 50 feet unless promising mineralization was encountered within that distance. The southern vein was more worthy of exploration because of its productivity at the surface, but was not expected to contain ore unless it steepened. Drifting on this vein was limited to about 50 feet unless the vein steepened appreciably or mineralization was encountered. In the event both drifts were discontinued short of the footage authorized, any remaining funds could be spent in raising on the south vein.

WORK COMPLETED UNDER THE CONTRACT

The operators cleaned out and timbered the caved portal of the adit and extended compressed air pipe and track to the face of both the south and north drifts, a total distance of about 300 feet. Track also

was extended about 50 feet from the portal to a surface waste dump. Two short-radius curves were widened to facilitate tramming through the north and west drifts and several timber sets were placed in these drifts. The operators installed an air compressor on the surface and, at no cost to the project, erected a compressor shelter and shop building and improved the mine access road.

The drifts on the north and south veins were advanced 42 and 30 feet, respectively, towards the southwest (fig. 2). As neither vein improved appreciably within this distance and as contract funds were nearing exhaustion, the operators were requested to stop drifting and raise on the south vein as far as the remaining funds would permit. Accordingly, a prospect raise was started from the south drift and advanced 26 feet before contract funds were exhausted.

At the completion of contract work the breast of the north drift contained a 1- to 5-inch vein of horn quartz dipping vertically to 88° northwest in granite. Tungsten mineralization was not exposed in the drift, nor had it been encountered along the 42 feet of vein opened in drifting. The breast of the south drift contained a 7- to 12-inch shear zone dipping 43° - 44° northwest. The zone contained a few inches of horn quartz and small amounts of hematite. The vein, as opened in the raise, was similar to its exposure in the breast of the south drift. Ferberite was not encountered in the breast of the south drift, nor had it been exposed along the vein as opened in 30 feet of drift and 26 feet of raise.

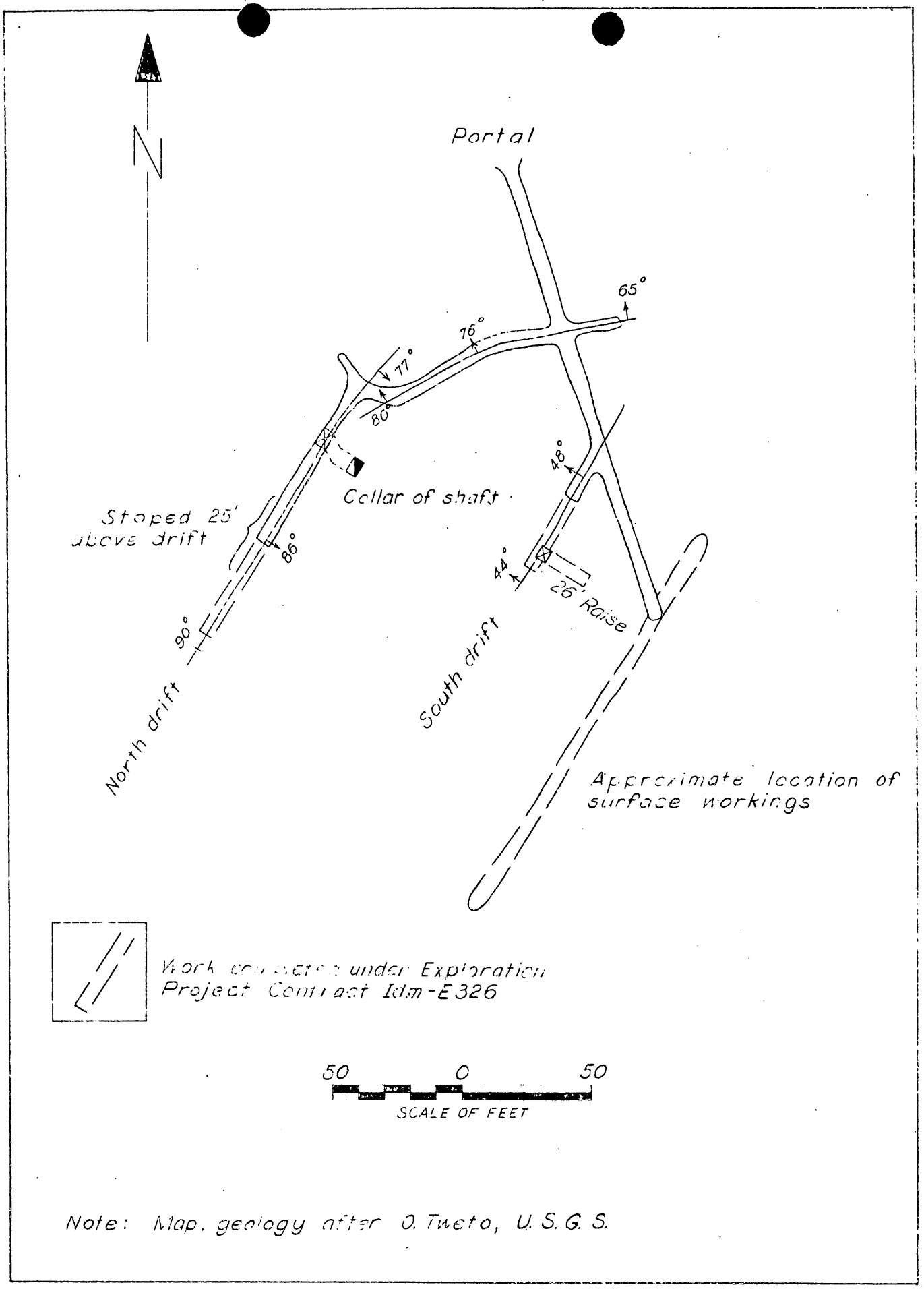

FIG. 2 - PLAN OF RANGE VIEW MINE, BOULDER COUNTY, COLO. DMEA 2320

EXPENDITURES

The table below summarizes the costs incurred and approved for operations under the contract. These costs shown are subject to final audit.

Labor	$2,738.62
Operating Materials and Supplies	
Explosives	182.56
Pipe	167.39
Track	43.81
Other	325.06
Operating Equipment	
Rental (compressor)	1,060.00
Purchase (mine car, water tank)	45.00
Miscellaneous	
Repairs to equipment	100.93
Payroll taxes	35.03
Workmans compensation	51.60
Contingencies (freight)	50.00
Total approved cost	$4,800.00

EFFICIENCY OF OPERATION

Total approved costs of the project are distributed to the various operations as follows:

	Cost	Units completed	Cost per foot
Drifting	$2,089.03	72 feet	$29.01
Raising	452.06	26 feet	17.39
Underground preparation and rehabilitation	2,258.91	-	-
	$4,800.00		

The unit costs experienced are about average for the type of operation carried out. Actual rehabilitation and preparation took longer and cost considerably more than had been estimated originally. More extensive and probably more elaborate preparation work was performed than was warranted for such a short program. This, more than any other reason, resulted in the exhaustion of contract funds before all the work authorized was completed.

For the most part, the exploration was performed by the two operators. All mucking and tramming was performed by hand. The operators furnished all timber used by the project and supplied drilling equipment and some hand tools at no cost to the Government. Without doubt, the expense to the operators was greater than their share of the approved costs indicate.

Breakdowns of equipment, weather conditions, illness and lost-time accidents of the operators, all caused a certain amount of delay in the operations and resulted in increased costs. The operators were experienced and proficient as miners, but lacked experience and knowledge in the more common business procedures.

EQUIPMENT PURCHASED FOR PROJECT

The following equipment was purchased jointly by the operator and the Government for use on the project:

	Purchase price	Government's contribution
16 cubic foot mine car (used)	$20.00	$15.00
1-foot diameter by 3-1/2-foot water pressure tank (used)	25.00	18.75
Total	$45.00	$33.75

The car and tank both were in used condition when purchased. Both are yet in good used condition and probably would have a salvage value approximately equal to their purchase price. As the equipment, both individually and together, cost less than $50.00, the Government, per article 7 of Exploration Project Contract, form MF-200, does not consider itself as joint owner of the equipment.

The Government does retain an interest in unexpended materials and supplies considered in groups or categories originally costing more than $50.00. The only unexpended material at the project falling within this classification is pipe.

	Purchase price	Government's contribution
Pipe, miscellaneous fittings (mostly 2-inch black iron)	$167.39	$125.54

The pipe was purchased second hand and would have a salvage value of approximately 40 percent of its purchase price, or about $66.95, if straightened and delivered to a buyer. Most of the pipe is in place in the mine. The labor for removing the pipe from the mine, straightening it, and delivering it to a prospective purchaser is estimated to approximate the amount that could be realized from its salvage. It is recommended, therefore, that the Government waive its equity in this material.

CONCLUSIONS AND RECOMMENDATIONS

Although only a portion of the program authorized for the property was completed, sufficient exploration was performed on the two veins to conclusively determine their merits and potentialities. Neither vein explored under the contract improved in appearance or encountered tungsten mineralization. The possibility of the veins improving with further exploration is considered remote. Under the circumstances, further exploration is considered unwarranted and is not recommended.

cb

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.
200 New Customhouse
Denver 2, Colorado

April 3, 1953

Memorandum

To: DMEA Field Team, Region IV

From: A. H. Koschmann

Subject: DMEA Docket 2320, Range View Tungsten Mine, Boulder County, Colorado. Final geologic report.

Attached are 8 copies of the final geologic report by D. R. MacLaren covering DMEA Docket 2320 (Contract Idm-E326), Range View Tungsten Mine, Boulder County, Colorado.

No ore was discovered and no certification of discovery can be made.

A. H. Koschmann

A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (8)

Reviewed by
DMEA OPERATING COMMITTEE
7-3-53
(date)

RANGE VIEW TUNGSTEN MINE

BOULDER COUNTY, COLORADO

DMEA DOCKET 2320

Final geologic report

by D. R. MacLaren
U. S. Geological Survey

Reviewed by
DMEA OPERATING COMMITTEE
7-3-53
(date)

RANGE VIEW TUNGSTEN MINE
BOULDER COUNTY, COLORADO

INTRODUCTION

Glen Coughlin and E. L. Henderson of Boulder, Colorado, applied to the Defense Minerals Exploration Administration for assistance to explore for tungsten in the Range View Tungsten Mine, Boulder County, Colorado. A limited exploration program was provided for in Contract Idm-E326. Under the contract an expenditure of $4,800 (Government's share $3,600) was authorized to drift approximately 40 feet on the north vein and 50 feet on the south. In the event that no improvement in the vein was encountered, the drifting was to be stopped, and a raise was to be driven near the southwest face of the south drift. This work has been completed and the funds have been exhausted.

No improvement in the veins was encountered, and no ore was discovered. No certification of discovery can be made.

GEOLOGY

Workings on the property showed the existence of three veins. The South vein, striking N. 20°-30° E. and dipping 80° NW., has been worked by trenches and shallow tunnels for a length of 170 feet and is said to have produced ore valued at $90,000. This vein is cut in the tunnel where the dip has flattened to 48° NW., and the vein is an iron-stained shear zone about 18 inches wide. About 60 feet north of this vein, the cross-cut intersects a small vein that strikes nearly east and west and dips 65°-80° N. This vein contains traces of ferberite and a little horn quartz, but has

not been productive. About 80 feet west of the cross-cut, the third vein, which strikes northeast and dips from 77° S. to 82° N., joins the second vein which terminates at the junction. Throughout most of the 80 feet that the third vein has been followed it is a tight sheeted zone with a few small stringers of horn quartz, and apparently contained some tungsten, as a stope 25 feet long and about 25 feet high has been made about 60 feet from the junction with the second vein. All veins are in granite.

EXPLORATION

After reopening the caved portal of the cross-cut, the drift on the third vein was extended about 37 feet to the southwest, and the drift on the South or first vein was extended about 38 feet. No improvement in the character of the veins was encountered, and no horny quartz or ferberite was seen. Drifting was discontinued in order that the funds remaining under the contract could be used to raise on the first vein in the hopes that it would show a tendency to steepen. The raise was driven about eight feet back from the face of the drift for a distance of 26 feet. No improvement in the character of the vein was seen, and there was no tendency to steepen.

CONCLUSIONS

The two veins that justified a limited exploration program have been explored sufficiently to indicate that no more work should be done. No ore was discovered, and no certification of discovery can be made.

Mining Division
Date Rec'd.
MAY 11 1953
BUREAU OF MINES
Denver, Colorado

FINIAL NARRATIVE REPORT

We started the Range Veiw Mine July 12, 1952, first cutting timber and cleaned portal. We layed rails and timbered portal, the rest of time laid track, and air line and widened the drift.

In September we finished cleaming and straightening the tunnel, timbered drift where had to after straightening. Finished 298 feet of tracks and 215 feet air line, made two sumps for water. Glen Coughlin was ill and had a man start in October.

The month of October worker on air line, fixed powder house and cut ties, started drifting, widened the south drift and laid trac k. Timbered the drift where broke and run down.

In Novermber drifted all month, laid 28 feet of track, cut our ties. Were unable to work 4 days on account of sub-zero weather.

Decmber did not accomplish much, motor trouble and cold weather. Mr. Henderson fell and broke a rib and injured others. Had to have another motor and was replaced as soon as possible and Mr. Henderson was able to return to work.

No work in January due to illness and lack of motor.

The third of Febuaruy we got another engine. We had drifted 72 feet when we received you letter advising us to raise which we started the 16, lost a few days on account of storms.

March worked half of month then the money was used up so desided to quit. We had raised 26 feet.

DMEA-2320

Glen Coughlin
Elzor. L. Henderson

FILE COPY
SURNAME:
800

Chambers

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

JUN 3 1953

Mr. Donald T. Finch
DMEA Auditor
224 New Customhouse Building
Denver 2, Colorado

Re: Contract No. Idm-E326
Docket No. DMEA-2320
Coughlin and Henderson

Dear Mr. Finch:

Thank you very much for your letter of May 25, 1953, in reply to my letter to you of May 22, 1953, re above-cited contract.

Your explanations have fully satisfied the questions raised in my letter.

On the first point, Payroll Taxes on Wages of Partners, I checked with the Bureau of Internal Revenue in Washington and find that your position on this point is correct.

Sincerely yours,

(Signed) J. L. Chambers

6-3-53

Jay L. Chambers, Chief
Contract Administration
and Audit Division

JLChambers/wb
June 3, 1953

Copy to: Docket
Admr. Reading File
Mr. Chambers

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

224 New Customhouse
Denver 2, Colorado

May 25, 1953

MAY 26 1953

Mr. Jay L. Chambers, Chief
Contract Administration & Audit Division
Defense Minerals Exploration Administration
Interior Building
Washington 25, D. C.

Dear Mr. Chambers:

Reference is made to your letter of May 22, 1953, returning the Report of Review Idm-E326, DMEA 2320, Coughlin and Henderson for revision.

Before amending the report, the following additional information is respectfully submitted for your consideration. After reviewing these additional facts, it will be appreciated if you will instruct us further concerning the matter.

1. Payroll Taxes on Wages of Partners
Amount disallowed $26.03

It is our understanding of a verbal ruling from the Wage and Hour Division, Bureau of Internal Revenue, where partners include and pay 1½% for F.I.C.A. on their quarterly payroll returns, they receive no credit to their individual accounts and must file a claim for refund, since such inclusion is in error. In fact, I am presently working on a case where such a refund was received. It is also understood that self-employed partners pay their social security tax as part of their personal income tax, and such tax is not considered a business expense, nor is it a deductible item in determining taxable income. Tom Brading and I rechecked with the Wage & Hour Division concerning this matter upon the receipt of your letter. In view of the foregoing, we are at a loss to determine the basis for allowing the item. Also, if such an item is allowable as contract costs, the question arises as to what rate should be allowed since self-employed coverage is based on 2 1/4% of the first $3600.00 of partnership profits or withdrawals during the taxable year.

2. Workmen's Compensation Insurance
Salary Base $1939.80-Amount Disallowed $7.91

Under Colorado law, the operator may elect to eliminate coverage of owner or owners. If owner coverage is elected, such coverage is based on the first $250.00 of each month's wages. In this case, the operator elected to eliminate coverage on Coughlin as owner. Wages paid

Henderson, Partner, totaled $1339.80 and employee Slade, $600.00, total wages applicable to Workmen's Compensation coverage - $1939.80.

The disallowance of $7.91 represented the unused portion of an advance premium of $12.60, which eventually the operator will recover.

3. Wages Paid third man October 1952 of $26.40

Analysis of the Payroll for October 1952, disclosed there were 23 possible working days without premium or overtime days. The maximum straight working shifts authorized by contract would amount to 46 for the month. The total shifts claimed for October 1952, by the operator amounted to 38. The Supervising Engineer's report for October 1952 contained the following statement.

"The project was approved on the basis that only two men would be employed, and it is so stipulated in the contract. The operators are aware of this limitation. The cost of a third man employed this period is being passed because the set limit of man-shifts per month was not exceeded."

The Executive Officer approved this report, and after conference this morning is still of the opinion that the inclusion of the wages paid the third man are allowable. Your further thinking concerning this type interpretation will be appreciated.

When your reply to this letter is received, I shall be glad to amend the Report of Review. The report will be limited to one page plus the schedule of exceptions. Your other instructions concerning the format of the report are helpful and will be effected.

Sincerely yours,

Donald T. Finch

Donald T. Finch
Auditor, Region IV

FILE COPY
SURNAME:
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Talbyt
Chamberlin

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

JUN 3 1953

Mr. Donald T. Finch
DMEA Auditor
224 New Customhouse Building
Denver 2, Colorado

Re: Idm-E326, DMEA-2320
Coughlin & Henderson

Dear Mr. Finch:

Returned herewith for further revision is the Report of Review, covering the referenced project, transmitted by your letter of May 18, 1953.

It appears that you have disallowed the Payroll Taxes on the wages of the two partners while self-employed as miners on the project. This is not understood since the present Social Security laws permit the coverage of self-employed persons. Therefore, if these taxes were paid, they are allowable costs.

Also, since your schedule of disallowances contains no explanation, it is not understood why you have used a salary base of $1,939.80 in computing the Workmen's Compensation Insurance costs. Why is not the total amount of wages paid the base for computation of this item of costs?

The Administrative Audit Difference Statement attached to the November MF-104 indicates the disallowance of wages for a third man as being not allowed under the contract. The records indicate that a third man also was employed during the previous month (October). If this is so, why isn't an exception required for the $26.40 paid the third man during that month?

I realize that these possible changes in the items disallowed will not affect the total accepted costs or the amount payable to the Operator, since a total disallowance of $253.48, the amount of costs in excess of the contract amount, is required regardless of these minor exceptions. However, in the interest of having the Report of Review accurately stated, I believe these items in question should have your further consideration.

In rewriting the Report of Review which incidentally should be confined to a single page, delete the words "d/b/a Couglin & Henderson" in order that your wording will agree with the contract. In the third line thereafter substitute the word "period" for "months". Also, I believe the following reason, instead of your number (1) reason for the review in lieu of audit, would be an improvement:

"The administrative costs to the Government of a site audit would be excessive in relation to the estimated amount of possible further disallowances."

Sincerely yours,

SIGNED

Jay L. Chambers, Chief
Contract Administration
and Audit Division

MDL
5-22-53

Enclosures

EDTalbert/ama
May 21, 1953

Copy to: Mails and Files
Admr. Reading File
Mr. Chambers

Docket Cy.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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FEB 2 1953

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

224 New Customhouse
Denver 2, Colorado

January 29, 1953

Memorandum

To: C. O. Mittendorf, Administrator, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Amendment No. 1 to Contract Idm-E326, Docket DMEA 2320, Glen Coughlin and Elzor L. Henderson

Enclosed are the original and two copies of Amendment No. 1 to Contract Idm-E326. Copies of this amendment have been given to the operator, the Fiscal Officer, Region IV, and a copy has been retained for our files.

Also enclosed are three copies of a letter from the operator requesting this amendment.

W. H. King

W. H. King

Enclosures

RECEIVED
FEB 27 1953
GENERAL COUNSEL
DEFENSE MINERALS
ADMINISTRATION

cac
2/2/53

Extracted from Monthly Report of Region IV for October 1952.

DMEA-2320 - Coughlin and Henderson

The compressor drive motor required overhauling and part of the period was devoted to that. When completed, drifting was started and the south drift was advanced 14 feet. After widening at some locations, track was laid and the stope above the drift caught up.

DMEA-2343 - George Jump

Preparatory work for sinking the winze from the lower, or Good Friday, tunnel and consisting of rehabilitation work was completed and one round drilled and blasted in the winze. Sinking started on good ferberite ore.

DMEA-2387 - A. W. Brown

The Blue Jay tunnel was advanced 10 feet for the period, with up to two or more ½-inch streaks showing. Operations have been slowed by the inability of the contractor to hire competent labor.

DMEA-2548 - Robitsch and Brewster

The contractor has notified the Colorado Branch office that he is attempting to negotiate a subcontract for underground drilling.

DMEA-2650 - Hallie "A" Mining Company

Operations started October 27 and a progress report is not expected before the end of November.

DMA-1392X - Cecil R. Woodman

Stage A, surface stripping by bulldozer, has been completed on both properties. The work on the Queen Bee revealed no mineralization or structures of significance. One zone of scheelite mineralization has been uncovered on the Yellow Hammer property. A decision is pending concerning additional work on this occurrence.

DMA-1906 - Louise W. Garrick

Work on project 2 was continued during October and an advance of 35 feet was made in the dirft. The direction of the drift has been changed slightly to the left. The entire advance has been along tungsten ore varying from 2 feet to 2½ feet in width.

Docket 913

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

224 New Customhouse
Denver 2, Colorado

August 15, 1952

Memorandum:

To: Frank E. Johnson, Chairman
Operating Committee

From: W. H. King, Executive Officer, Field Team,
Region IV

Subject: DMEA Docket 2320, Contract No. Idm-E326, Range View Tungsten Mine

In reply to your letter dated August 5, 1952 regarding final report on Docket No. DMEA 2320, we are enclosing four copies of a memorandum prepared by Ogden Tweto, U. S. Geological Survey.

W. H. King
W. H. King

Enclosures

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 18 1952

Copy retained 400

Leadville, Colorado
August 10, 1952

Memorandum

To: DMEA Field Team, Region IV

From: Ogden Tweto, U. S. Geological Survey

Subject: Letter of August 5, 1952, from Operating Committee, concerning DMEA Docket 2320, Range View tungsten mine, Boulder County, Colorado

The letter from the Operating Committee suggests that the shear zone 110 feet from the portal of the Range View tunnel is a normal fault that displaces the vein worked at the surface, and hence that the displaced segment of the vein should lie ahead of the present workings. This is, of course, a possibility, but I consider it a remote one--say one chance in a thousand--because faulting of this type is extremely rare in the tungsten district. The greatest displacement of a vein by dip-slip movement on a flat fault that I can recall from the hundred or more mines I have mapped in the district is about two feet, and that is in an area of much stronger veins, and presumably greater movement, than in the Range View area. If there are two fractures rather than one, i.e., the shear zone in the tunnel is not a direct continuation of the vein at the surface, then it is most likely that the vein simply ends downward against the flatter-dipping shear zone.

I know of no way to determine whether this is the case, or whether there is a single vein fissure, steep at the surface and flattening with depth, except by exploration. The records for this docket are

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 18 1952

not available at this time, but as I recall, the applicants wanted to drift 100 feet or so on the shear zone, and as this did not seem a good prospect unless the shear zone steepened, I suggested a short drift to see if the shear zone showed any sign of steepening to the southwest, and, if not, then a raise to bring the exploration to completion. I still think this the most logical procedure if the shear zone is to be explored at all. Obviously, unless the shear zone steepens upward, the raise need be driven only a few rounds.

The writer of the letter from the Operating Committee has apparently overlooked the notation "Approximate location of surface workings" on the map and has attempted to draw a precise cross-section, and drawn conclusions therefrom, with only a rough sketch as the source for his data. The upper workings are caved trenches and shallow shafts; at the time of examination the area was waist-deep in snow, and the upper workings were located roughly (by greater snow depths) merely to show the general relations. They were not seen anywhere; the dip of 80° was taken from the surface geologic map by Lovering and is shown, as I recall, at a pit 100 or 150 feet from those in question.

If a precise survey is desired in order to decide on what may be only a 20 or 25-foot raise, I am ready to make such a survey upon request.

Ogden Tweto

Noted
G.H. Koehmann
8/14/52

FILE COPY
SURNAME:

Chapman
Selfridge

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

AUG 5 1952

Mr. W. H. King
Executive Officer, Region IV
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMEA 2320 - Tungsten
Range View Mine
Boulder County, Colorado
Exploration Contract Idm-1126

Dear Mr. King:

We are in receipt of the U. S. Geological Survey and the U. S. Bureau of Mines field examination reports on the above mentioned project.

Study of a cross section based on the information given on the map suggests that the shear zone cut in the adit at 110 feet and dipping 48 degrees northwest, might be a fault rather than the vein which dips 80 degrees northwest in the old workings. Mr. Twete advises that the vein or shear zone, where cut in the tunnel, was only iron stained and about 18 inches wide. He does not mention any other mineralization. If the above shear zone was a normal fault, it is quite possible that the vein is still ahead of the present adit face.

Mr. Twete advises that it is not likely that ore would be found unless the vein steepens. A study of the cross section shows that there is very little possibility of the vein steepening until it reaches the bottom of the old workings. In fact, it is quite probable that the Operators stopped work when the vein turned or connected with the possible fault zone. If this is the case, there would be very little chance of finding ore in a raise.

The above thoughts are for your consideration.

Sincerely yours,

(signed) FRANK E. JOHNSON (JHB)

Chairman, Operating Committee
Defense Minerals Exploration
Administration

F.N.
8-5-52

cc: Admn. Reading File
Docket
R. W. Geehan, USBM
D. M. Lemmon, USGS
Field Team Reg. IV
Operating Committee
G. C. Selfridge
T. L. Chapman

Approved:

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

TLChapman'lm
8/4/52

D. M. Lemmon
Member, Geological Survey

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

224 New Customhouse
Denver 2, Colorado

July 15, 1952

Memorandum

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

From: Field Team, Region IV

Subject: Final Report, DMEA Docket 2320, (Tungsten) Range View Mine, Boulder County, Colorado

Attached are four copies of the final report on DMEA Docket 2320.

The contract has been signed and is in effect.

W. H. King
W. H. King

Donald R. Macharen
for
A. H. Koschmann

Enc.

ON-SITE EXAM. REPORT

Mining Division
Region IV

March 20, 1952

Memorandum

To: DMA Field Team, Region IV

From: Acting Chief, Mining Division, Region IV

Subject: Final Report, DMEA Docket 2320, Glen Coughlin and E. L. Henderson Range View Mine (Tungsten) Boulder County, Colorado

Enclosed are the original and seven copies of the Engineering Report by the Bureau of Mines pertaining to the application by Glen Coughlin and E. L. Henderson for Government assistance in Exploration work estimated by them to cost $4,000.00.

The examining engineer has recommended the project on the basis of a revised work program estimated to cost $4,800.00.

The brochure is enclosed also.

W. H. King
W. H. King

Reviewed by
DMEA OPERATING COMMITTEE
7-25-52
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20
Denver Federal Center
Denver 14, Colorado
March 4, 1952

Memorandum

To: Acting Chief, Mining Division, Region IV

From: Chief, Colorado Branch, Mining Division

Subject: DMEA 2320, Range View Tungsten Mine, Boulder County, Colorado

Please find enclosed the original and seven copies of an engineering report by R. L. Belmer on the above Defense Minerals Exploration Administration docket. The "Summary, Conclusions, and Recommendations" is being typed by the U. S. Geological Survey and will be submitted with their geologic report.

Belmer concludes that a revised exploration proposal, estimated to cost $4,800.00, is justified due to the present tungsten shortage and recommends approval of the loan. Two veins will be explored: the northern vein apparently is not too promising and, unless results are encouraging, drifting will be limited to 40 or 50 feet; the southern vein was productive at surface and 75 to 100 feet of drifting is suggested on it in the event its dip steepens. If within 50 or 60 feet the dip fails to steepen, drifting will be discontinued and any remaining funds expended in raising.

I concur with Belmer's conclusions and recommendations.

The brochure submitted with the memorandum of instructions for field examination from the Region IV Field Team is enclosed.

W. M. Traver, Jr.

W. M. Traver, Jr.

enclosures

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

200 New Customhouse
Denver 2, Colorado

February 8, 1952

Memorandum

To: DMEA Field Team, Region IV

From: A. H. Koschmann

Subject: DMEA Docket 2320, Range View Tungsten Mine, Boulder County, Colorado, Glenn Coughlin and E. L. Henderson, Applicants

Attached are 8 copies of the geologic report by Ogden Tweto covering the Range View tungsten mine, Boulder County, Colorado.

The Range View mine explores several tungsten veins in granite, and the applicant proposes to drive drifts 75 feet on each of two veins that reportedly carried ore. A modified program of exploration at an estimated cost of $4800 is recommended by Tweto, subject to further modification as the exploration continues, depending on geologic conditions.

I concur in this recommendation.

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

Enclosures (8)

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

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

DMEA 2320, Range View Tungsten Mine

Boulder County, Colorado

Tungsten

Ogden Tweto, Geologist
U. S. Geological Survey

R. L. Bolmer, Mining Engineer
Bureau of Mines

March 3, 1952

RANGE VIEW TUNGSTEN MINE

BOULDER COUNTY, COLORADO

GLENN COUGHLIN AND E. L. HENDERSON, APPLICANTS

DMEA DOCKET 2320

Geologic Report

By Ogden Tweto
U. S. Geological Survey
Denver, Colorado

RANGE VIEW TUNGSTEN MINE
BOULDER COUNTY, COLORADO

INTRODUCTION

The Range View mine is on the north slope of Peewink Mountain, about 150 feet above the bed of Gordon Gulch at a point opposite the Oregon mine, in the Boulder tungsten district, Colorado. The mine comprises a tunnel (fig. 1) at altitude 7900 feet, and several caved trenches and shallow tunnels about 100 feet higher on the hill. The tunnel is caved at the portal but is accessible by rope through a shaft 125 feet southwest of the portal. The workings are on a location claim held by Glenn Coughlin, one of the applicants.

Coughlin and E. L. Henderson have submitted an application for a DMEA loan of $4000 (Government participation 75%, or $3000) to reopen the tunnel and drift 75 feet on each of two veins, or a total of 150 feet.

GEOLOGY

The surface workings are mostly on a vein that strikes N. 20°-30° E. and dips 80° NW. This vein was worked in trenches and shallow tunnels for a length of 170 feet and is said to have produced ore valued at $90,000. The depth to which this vein was worked is not known, but it probably is not great, and there should be at least 75, and at places possibly 100, feet of virgin ground on the vein between the surface workings and the main tunnel. The vein was cut in the tunnel, where it is rather flat (dip 48° NW.) and is an iron-stained shear zone about 18 inches wide.

About 60 feet north of the main vein, the crosscut tunnel intersects a small vein of east-northeast strike. This contains a little horn quartz and traces of ferberite, but evidently has not been productive. A drift runs westward on this vein about 80 feet, and then turns onto an intersecting vein, of northeast strike, which was followed southwest about 85 feet. Through most of this distance the vein is a tight sheeted zone in granite, with a few small stringers of brown horn quartz. At the breast it contains about two inches of white horn quartz, and evidently contained some tungsten, for a stope about 25 feet high and 25 feet long has been made there.

All the workings are in granite.

CONCLUSIONS

The applicants propose to reopen the portal of the tunnel and drive drifts 75 feet southwest on each of the two veins, as shown in figure 1. With respect to the main or southern vein, such a project seems worthwhile because of the productivity of the vein at the surface. However, ore is not likely to be found unless the vein steepens. If the vein does not steepen in going southwest, a raise should be driven.

The applicants' reason for extending the drift southwest on the northern vein is that tungsten is supposed to have been found in a cut at the surface 35 feet ahead of the present breast. This vein does not look very promising, but in view of this reported occurrence, and the small stope at the breast, a short drift to the southwest is perhaps justified. Unless this shows ore, or a considerable improvement in the appearance of the vein, it should not be driven more than 40 or 50 feet, however.

The cost of equipping the mine, repairing the portal, and drifting and raising 150 feet is estimated at $4800 in the accompanying engineering report.

RECOMMENDATIONS

The project at an estimated cost of $4800 (Government participation 75%, or $3600) is recommended for approval, subject to the following modifications of the program submitted by the applicants: The drift on the northern vein should not be driven more than 40 or 50 feet, unless the vein improves going southwest. The drift on the southern vein should be stopped at 50 or 60 feet if the vein shows no sign of steepening in that distance, and any remaining funds should be used in raising at the end of the drift on this vein.

RANGE VIEW TUNGSTEN MINE

BOULDER COUNTY, COLORADO

GLENN COUGHLIN AND E. L. HENDERSON, APPLICANTS

DMEA DOCKET 2320

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

By Ogden Tweto, U. S. Geological Survey
and
R. L. Bolmer, U. S. Bureau of Mines

RANGE VIEW TUNGSTEN MINE
BOULDER COUNTY, COLORADO

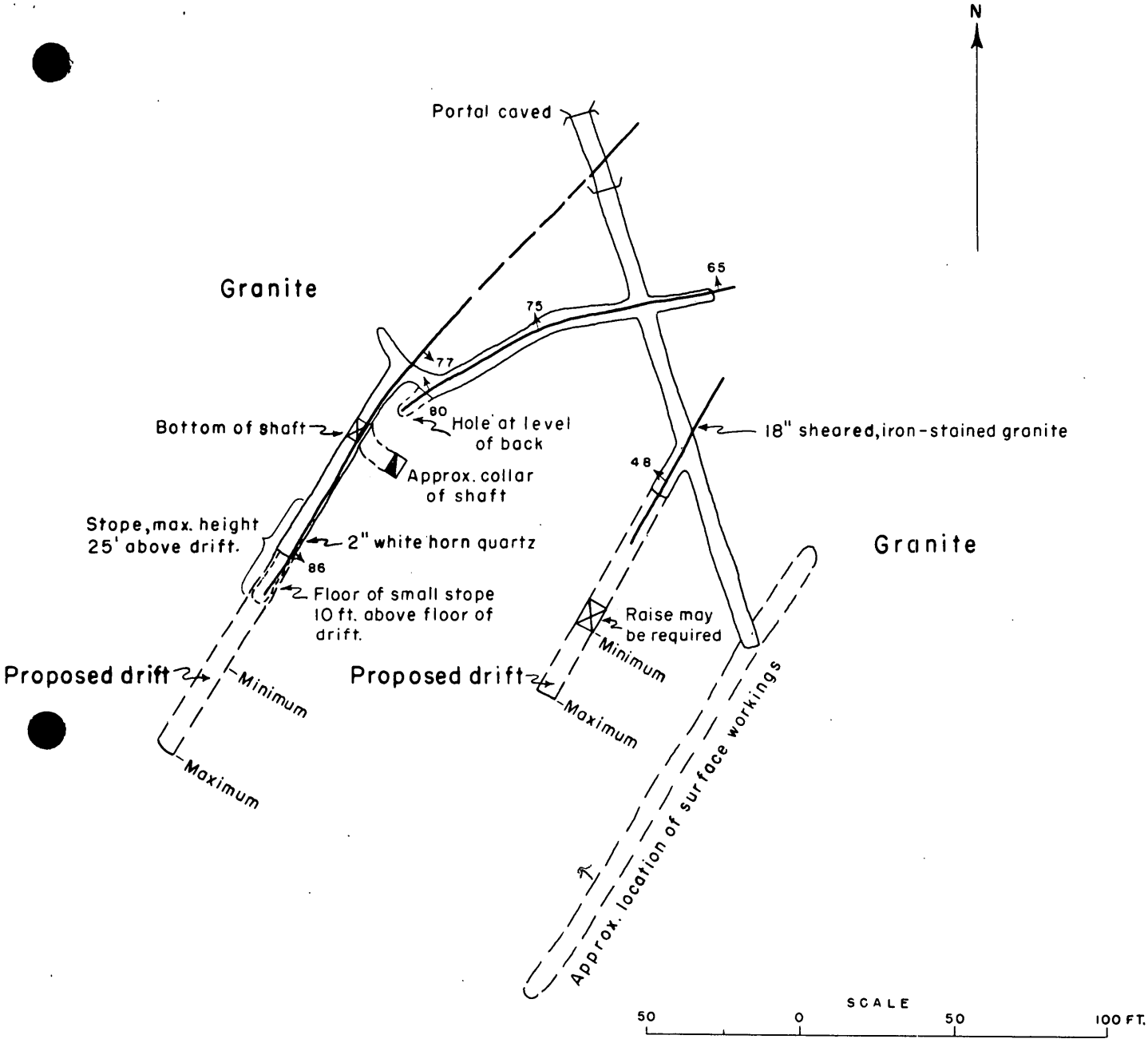
SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

The Range View tungsten mine is on a location claim held by one of the applicants. It is on the north slope of Peewink Mountain, a short distance above Gordon Gulch at a point opposite the Oregon mine, in Boulder County, Colorado. The mine comprises a tunnel and caved surface workings. The tunnel is a crosscut which intersects two veins on which short drifts have been driven. The northern vein is small and weak; a small stope was made on it at the breast of the drift, and ferberite is reported on it in a cut at the surface 35 feet ahead of the breast. The southern vein was worked in shallow tunnels and trenches for a length of 170 feet at the surface, where it dips steeply. Where cut in the tunnel it is flat and barren.

The applicants have submitted a request for a program estimated by them to cost $4000 to repair the portal of the tunnel and drive drifts 75 feet southwest on each of the two veins. Minor modification of this plan is recommended by the examining team. The northern vein does not appear very promising, and unless it improves greatly, or ferberite is found on it, the drift need not be driven more than 40 or 50 feet. The southern vein is worthy of exploration because of its productivity at the surface, 75 or 100 feet above the tunnel, but it is not likely to contain ore unless it steepens. If it is not found to steepen appreciably

in 50 or 60 feet, drifting should be stopped and any remaining funds should be used for raising.

This program is estimated to cost $4800. The project in this amount is recommended for approval (Government participation 75%, or $3600).



Department of Interior
U. S. GEOLOGICAL SURVEY

Sketch Map of the

RANGE VIEW MINE
Boulder Tungsten District, Colorado

DMEA Docket 2320

Ogden Tweto

January 1952

DMEA 2320

RANGE VIEW TUNGSTEN MINE
BOULDER COUNTY, COLORADO

Engineering Report

By R. L. Bolmer
Mining Engineer
Bureau of Mines

RANGE VIEW TUNGSTEN MINE
BOULDER COUNTY, COLORADO

CONTENTS

Engineering Report — Page

Introduction 1
Acknowledgments 1
Location, topography, and physical features 2
History and production 3
Ownership and extent 3
Description of the deposits 4
Minable ore reserves 5
Present status 6
    Exploration and development 6
    Mining and milling equipment and other facilities. 6
Project proposals, with costs 7
    Exploration and development 7
    New equipment and facilities 9
    Transportation, including access roads..... 9
    Manpower 9
    Power 10
    Water 10
    Other 10
Production plan 10
    Time schedule for completion of project 10
    Rate of production 11
    Mining and milling methods and costs 11
    Royalty 12
Summary: cost of project 12
Proposed financing 12
Conclusions 13
Recommendations 13

ILLUSTRATIONS

Figure — Follows Page

1. Location map, Range View mine, Boulder tungsten district, Boulder County, Colorado 2
2. Plan, Range View mine, Boulder tungsten district, Boulder County, Colorado 6

RANGE VIEW TUNGSTEN MINE
BOULDER COUNTY, COLORADO

ENGINEERING REPORT

By

R. L. Bolmer

INTRODUCTION

E. L. Henderson, lessee and part owner of the Range View mine in Boulder County, Colo., and Glen Coughlin have submitted a Defense Minerals Exploration Administration loan application for a project estimated to cost $4,000.00. The applicants propose to reopen the Range View mine and drift for 75 feet on each of 2 veins to explore for tungsten.

This property was examined by the U. S. Geological Survey and they have recommended approval of the project with slight modifications. The property was not examined for the preparation of the engineering report as sufficient data were on file with the Bureau of Mines to check and verify statements made in the application. The cost estimate made by the applicants was reviewed and the estimated cost of the proposed work revised upward.

ACKNOWLEDGMENTS

The files of the Colorado Branch, Mining Division, Bureau of Mines, on the Boulder County tungsten district were consulted freely in the preparation of this report. Figure 2 of this report was traced from a map by Ogden Tweto, U. S. Geological Survey.

LOCATION, TOPOGRAPHY, AND PHYSICAL FEATURES

The Range View mine is located in sec. 34, T. 1 N., R. 72 W., sixth principal meridian, in the north central portion of the Boulder County tungsten district, in Boulder County, Colo. The property is about 14 miles, mostly by mountain road, west of Boulder, a commercial center and shipping point 23 miles northwest of Denver. Nederland, a community of about 300 population, is 7 miles to the southwest.

The area is on the eastern slope of the Front Range and is characterized by rounded mountains and ridges separated by narrow and steep canyons. The mine, at an elevation of 8,000 feet, is on the north slope of Peewink Mountain, whose summit rises 300 feet higher. The area is drained by Gordon Gulch, a tributary of North Boulder Creek. The gulch contains a small flow of water the year round and probably would be the source of water for a mining operation. The gulch is about 150 feet lower than the mine.

Snowfall is fairly heavy at the elevation of the mine. The county road through the gulch generally is cleared of snow; however, the access road to the mine is not cleared. Timber in the area is small but should be suitable for most mining needs. Electric power lines pass within one-half mile of the property. (Figure 1 shows the mine location in respect to the tungsten district.)

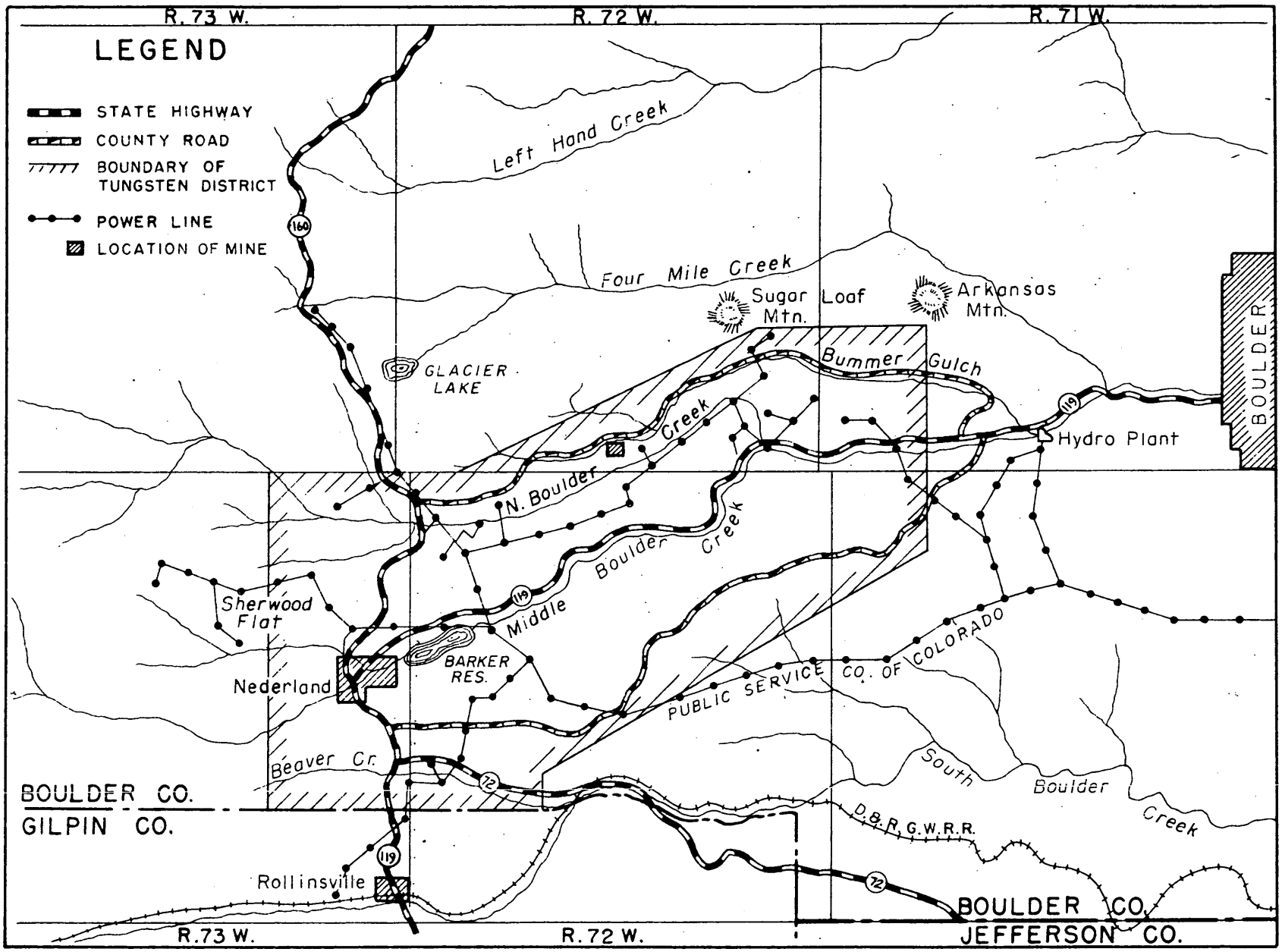


FIG. 1-LOCATION MAP, RANGE VIEW MINE, BOULDER TUNGSTEN DIST., BOULDER CO., COLORADO DMEA 2320

HISTORY AND PRODUCTION

This property was reported worked between 1915 and 1918 from surface trenches and pits. A short adit 50 feet below the surface was reported stoped to the surface. Ore valued at $90,000.00 was said to have been removed from these shallow workings. In 1942 and 1943, the present development (fig. 2), 50 to 100 feet lower than the surface workings, was performed and ore valued at $2,000.00 reported as shipped.

Other properties in the vicinity along Gordon Gulch and on Peewink Mountain have had important tungsten production. The Oregon mine owned by the Vanadium Corporation of America is across the gulch from the Range View property. Production from 3 veins developed by this mine was estimated as nearly one million dollars prior to 1918. It has been worked by lessees intermittently since 1941.

OWNERSHIP AND EXTENT

It is not specifically stated in the application but is implied that E. L. Henderson, one of the applicants, and John Coughlin are co-owners of the Range View lode mining claim. Henderson, according to a copy of a lease attached to the application, has leased Coughlin's undivided half interest in the claim. The lease, dated November 27, 1951, is for 3 years and provides for a royalty payment to Coughlin of 8 percent of all ore produced from the property. The veins and underground workings of the Range View mine are within the single, unpatented Range View lode mining claim. The location certificate is stated

as recorded in book 690, page 503, in the records of the office of the County Clerk and Recorder of Boulder County, Colo.

DESCRIPTION OF THE DEPOSITS

Three veins have been exposed by surface and underground development on the property. The attitude and relationship of these are shown clearly on figure 2. The country rock on the property is granite; however, pegmatite is found in adjacent areas.

A vein striking N. 20° -30° E. and dipping steeply to the northwest was worked for about 170 feet along the surface. These early-day workings are caved and inaccessible but the vein probably was worked 25 to 50 feet below the surface. A recent crosscut adit driven about 100 feet vertically from the surface exposures cut this vein but it was barren of mineralization at the intersection and was not explored to any extent. The vein as exposed in the adit was rather flat (dip 48° NW.) and was a shear zone about 18 inches wide.

A second vein, striking nearly east, which was cut also by the adit, contained a little horn quartz and traces of ferberite mineralization. It was drifted on for about 80 feet to the west but was not productive. The west drift intersected a third vein, roughly parallel to the first but dipping steeply to the southeast. This vein was followed about 85 feet to the southwest. This vein is a tight-sheeted zone in granite with a few small stringers of brown horn quartz. At the breast it contained 2 inches of white horn quartz and probably some ferberite as it was stoped here for 35 feet along the vein to a height of 25 feet above the drift.

The granite wall rock is strong enough to stand with only occasional timbering in the drifts. As the veins are narrow, stoping to a minable width would entail dilution but the practice in the district is to keep stopes as narrow as possible and to sort the gangue from the ferberite in the stopes. Larger stopes require support but an occasional stull or a pillar of barren vein material usually suffices in the smaller openings. Often the waste sorted from the ore bin in the stopes is used for support.

MINABLE ORE RESERVES

Reserves of tungsten have not been developed. The inferred reserves which do exist are based upon past production at the property, upon geologic evidence of the extension of the vein structure, and upon the occurrence of ore on similar veins in the district. These reserves are not measurable. As in the case of other small mines in the district, development did not progress ahead of the mining of the encountered ore. The most favorable location for the existence of indicated ore is in depth on the vein worked from the surface. The extent of surface work is undeterminable but it is believed not to extend 50 feet from the surface. Thus, if ore is discovered on this vein, 75 feet, and in places 100 feet, of the vein could be stoped. A distance of 170 feet along the vein was worked at the surface but the present development indicates not over half of this distance could be expected at the adit level.

PRESENT STATUS

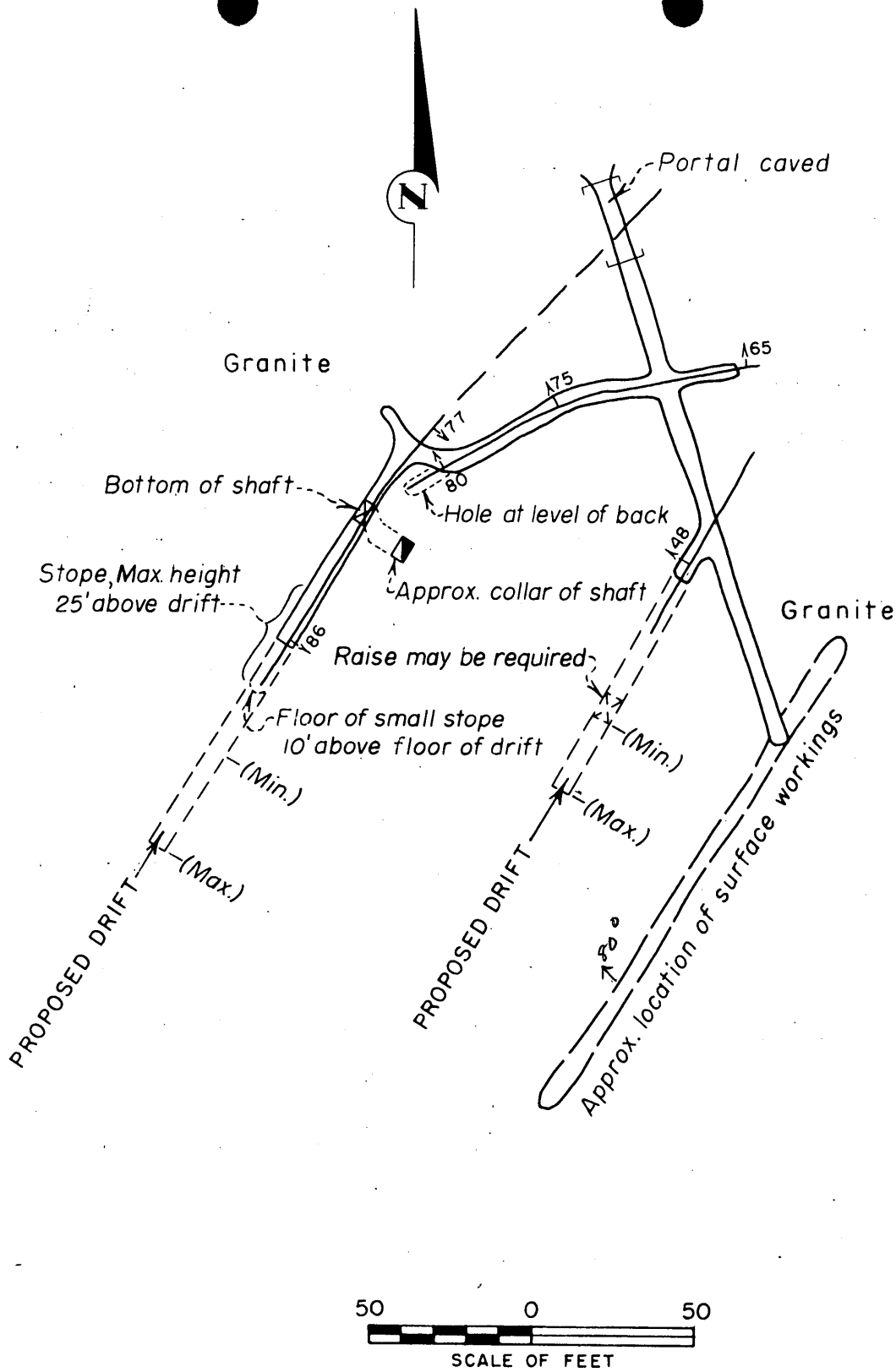
Exploration and Development

The exploration and development of this deposit consists of the old surface workings, at present caved and inaccessible, and the underground crosscutting and drifting shown on figure 2. The mine was developed by a crosscut adit driven 185 feet to the southeast and approximately 100 feet vertically below the surface workings. The vein which was worked on the surface was explored by a 10-foot drift driven to the southwest.

A vein cut by the adit at 65 feet from the portal was drifted on 20 feet to the east and about 80 feet to the west and southwest but proved unproductive. A short crosscut from the southwest drift cut a third vein which was drifted on for about 70 feet. This vein for the most part was barren of ore but near its face was stoped for about 35 feet along its length to a maximum height of 25 feet. This latter drift is connected to the surface by a shaft or raise from its central portion. This shaft is the only access to the underground workings as the first 25 feet of the adit portal has caved.

Mining and Milling Equipment and Other Facilities

There are no facilities for a mining operation on the property and the applicants have no mining or milling equipment available for the project. All pipe and track have been removed from the mine.



NOTE: MAP, GEOLOGY AFTER
OGDEN TWETO U.S.G.S.

COLORADO BRANCH- MINING DIVISION- REGION IV
BUREAU OF MINES

FIG. 2-PLAN, RANGE VIEW MINE, BOULDER TUNGSTEN DIST., BOULDER CO., COLO. DMEA 2320

PROJECT PROPOSALS, WITH COSTS

Exploration and Development

The applicants have submitted a request for a program costing $4,000.00 to reopen the adit portal and probably retimber this section and to drive drifts 75 feet southwest on each of 2 veins. Track and air line would have to be extended to both the present drift faces.

This proposal in general has been recommended for approval in the accompanying geological report. The northern vein is not considered very promising and, unless ferberite mineralization is encountered along it, the drift on this vein should not be extended more than 50 feet. The southern vein was productive on the surface but is not considered as likely to contain ore unless it steepens. It has been recommended in the geologic report that, unless it steepens within 50 to 60 feet, drifting should be stopped and the remaining funds used for raising.

Raising costs per foot should approximate those for drifting and the following cost analysis for the project is based on drifting a total of 150 feet. An equivalent footage of raising could be performed in lieu of any drifting allowance not undertaken. The cost arrived at in the following analysis is slightly over the applicants' estimate of $4,000.00.

(1) Rehabilitate portal, timber if necessary, lay 300 feet of track and pipe to present faces:

Muck out portal	5 shifts
Stand 5 sets of timber	2
Lay 300 feet of track and pipe	7
Total preparatory work	14 shifts

Summary of Costs

Labor:

14 shifts at $26.40	$ 369.60	
Compensation, et cetera	16.40	$ 386.00

Supplies:

Track, ties	$ 190.00	
Pipe	90.00	
Timber	34.00	314.00
Preparatory cost		$ 700.00

(2) Drift a total of 150 feet.
Estimated time for completion: 70 shifts.

Summary of Costs

Labor:

70 shifts at $26.40	$1,848.00	
Compensation, et cetera	82.00	$1,930.00

Supplies:

Explosives	$ 435.00	
Track, ties	115.00	
Air, water hose-line oiler	100.00	
Pipe	35.00	
Drill steel, bits	90.00	
Gasoline for compressor	140.00	
Small tools, miscellaneous supplies, et cetera	155.00	1,070.00
Total drifting cost		$3,000.00

Cost per foot = $\frac{\$3,000.00}{150 \text{ feet}}$ = $20.00 per foot.

New Equipment and Facilities

As no mining equipment or other facilities are available at the property the following equipment must be either purchased or rented:

Purchases

Mine car (used)	$ 75.00	
Water pressure tank (used)	25.00	
Total purchases		$ 100.00

Rentals

Mounted jackhammer, 4 months at $70.00	$ 280.00	
Column, arm, saddle, 4 months at $20.00	80.00	
110 c.f.m. portable compressor, gasoline engine, 4 months at $160.00	640.00	
Total rentals		$1,000.00

Transportation, Including Access Roads

No provision has been made by the applicants for transporting men or supplies to the mine. The county road through Gordon Gulch is good and the access road to the property is suitable for truck travel. The county has agreed to grade the access road in the spring.

Manpower

The two applicants, both experienced in mining in the Boulder tungsten district, plan to do the proposed exploration work themselves. The rate of pay requested by them is $1.65 per hour, the standard rate for miners in this district. The cost and time estimates for the project have been based on a 40-hour week and overtime payments are not included.

Power

The only anticipated power requirement for this project is for the compressor. Provisions have been included for the rental of a gasoline-powered compressor. The extension of electric power lines to the property is considered too expensive and is not a necessity.

Water

Water from the nearby Gordon Gulch is ample for wet drilling, the only anticipated need. It probably will be hauled to the mine by truck. It was not considered necessary to extend water pipe into the mine. The water requirements will be small and a pressure tank near the face is considered sufficient.

Other

The work proposed, that of extending each of two drifts a distance of 75 feet on a straight course, is elementary. No inclusion has been made in the cost estimate for engineering service and none was requested. The cost of the project is small and relatively little accounting will be required. It is assumed this will be performed by the applicants gratis. An allowance for assaying is not considered necessary and has not been included.

PRODUCTION PLAN

Time schedule for completion of project

In this type of work and with only two men on the job, advance is expected to be slow. Slightly over 2 feet advance

per shift is the average rate estimated. Mucking will be by hand and the tramming distance is fairly great.

Time Schedule

Muck out cave at portal	5 shifts
Stand 5 timber sets	2
Lay 300 feet of track, pipe	7
Drift a total of 150 feet	70
Total	84 shifts

On the basis of 5 shifts per week, the average number of working shifts per month would be approximately 21. It is estimated the work proposed could be completed in 4 months, assuming no delays and generally efficient work by the applicants.

Rate of Production

The rate of production can not be estimated until the exploration work has been completed and reserves, if found, are measured. In this type of operation, with narrow veins and only a couple of men working, a low rate of production is anticipated.

Mining and Milling Methods and Costs

If ore is discovered, it probably would be stoped by overhand open stoping above the drift. If discovered by raising, a sublevel in the ore probably would be driven and both overhand and underhand methods employed. The stopes would be kept as narrow as possible and the ore and waste sorted in the stope. Costs could be expected to be high and tons produced per man, low.

The hand-sorted ore probably would be trucked to the vicinity of Nederland and sold direct to a custom mill.

These mills have purchasing schedules based upon the WO_3 content of the ore. Greater amounts per unit of WO_3 are paid for higher grade ores.

Royalty

E. L. Henderson, owner of an undivided one-half interest in the Range View lode mining claim, has leased the other half of the claim from John Coughlin for a royalty of 8 percent on all classes and grades of ore. Henderson and Glen Coughlin are applicants for the Government assistance loan and will work the property apparently as partners. The applicants have not submitted a subordination agreement from John Coughlin with their application.

SUMMARY: COST OF PROJECT

The cost of the proposed exploration project is summarized as follows:

Rehabilitate portal, lay track, pipe		$ 700.00
Drift a total of 150 feet		3,000.00
Equipment:	Purchase	100.00
	Rental	1,000.00
Total cost of the project		$4,800.00

The Government's participation on this amount is 75 percent, or $3,600.00, and the applicants', 25 percent, or $1,200.00.

PROPOSED FINANCING

The applicants submitted a proposal which they estimated to cost $4,000.00. They stated that they are prepared to invest 25 percent of this amount, or $1,000.00, in the project.

Their estimated cost for the work proposed is considered too low by an amount of $800.00. Their participation in this increase is $200.00 and would increase their total participation to $1,200.00. Such a small increase should not affect their ability to participate in the project.

CONCLUSIONS

It is concluded that the exploration work proposed at the Range View mine is justified in the light of the national tungsten shortage. The work proposed is technically feasible and can be performed for an estimated cost of $4,800.00. The year's time estimated by the applicants to complete the project is considered excessive. The project should be completed in 4 to 5 months.

RECOMMENDATIONS

It is recommended that the exploration project proposed by the applicants with modifications recommended in the accompanying geological report be approved and that an exploration loan in the amount of $4,800.00 (Government participation, 75 percent, or $3,600.00) be approved.

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

224 New Customhouse
Denver 2, Colorado

June 23, 1952

Memorandum

To: Frank E. Johnson, Chairman, Operating Committee
Defense Minerals Exploration Administration

Coughlin & Henderson

From: Executive Officer, Field Team, Region IV

Subject: Range View Mine (Tungsten), Docket DMEA 2320, Contract Idm-E326

In reply to your letter dated June 17, 1952, regarding the dates of the leases involved under Contract Idm-E326, the date of both of the leases is November 27, 1951. entry.

W. H. King
W. H. King

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 27 1951

Copy retained 400

Noted
L. S.

FILE COPY
SURNAME:

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

110

JUN 17 1952

Mr. W. H. King
Executive Officer
DMEA Field Team, Region IV
224 New Customhouse Building
Denver 2, Colorado

Re: Range View Mine
Boulder County, Colorado
DMEA-2320, Idm-K326 (Tungsten)

Dear Mr. King:

Enclosed herewith are the Operator's copy and your office copy of the subject contract.

Your attention is called to the fact that the date of the lease was omitted in the Landlord's Subordination Agreement. In all cases where the subordination agreement is required, the date of the lease or document transferring control should be given. Will you kindly advise us of the date of the lease so that we can insert it in the copies we have retained in this office with the contract.

Sincerely yours,

(signed) FRANK E. JOHNSON

(HB)

Frank E. Johnson
Chairman, Operating Committee
Defense Minerals Exploration
Administration

APPROVED:

C. N. Johnson (HB)
For Bureau of Mines

S. M. Lemmon (HB)
For Geological Survey

Enclosures (2)

FEJohnson/hb
6/17/52
Copy to: Adm. Reading File
Docket File ✓
Operating Committee
Mr. Selfridge
FEJohnson

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

224 New Customhouse
Denver 2, Colorado

May 23, 1952

REGISTERED MAIL

Memorandum

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

From: Executive Officer, Field Team, Region IV

Subject: Contract, Docket DMEA 2320, (Tungsten) Glen Coughlin and Elzor L. Henderson

Enclosed are six copies of a contract between the Government and a partnership composed of Glen Coughlin and Elzor L. Henderson. All copies have been signed by the applicants and by the Executive Officer, DMEA Field Team, Region IV.

Kindly assign a contract number and return the required number of copies to this office.

W. H. King

W. H. King

Enclosures

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
MAY 26 1952

SDS-630-52

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

224 New Customhouse
Denver 2, Colorado

March 20, 1952

Defense Minerals Exploration Administration
MAR 24 1952

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Washington 25, D. C.
Attention: Code 210

From: Field Team, Region IV

Subject: Final Report, DMEA Docket 2320, Glen Coughlin, 2037 Walnut, Boulder, Colorado and E. L. Henderson, 2502 Bluff St., Boulder, Colorado - Range View Mine (Tungsten) Boulder County, Colorado

The application for Government assistance in exploration work estimated to cost $4,800.00, has been approved by us and a contract is being prepared.

Government participation will be 75 percent, or $3,600.

Four copies of the Final Report will be forwarded after the contract has been processed in this office.

Attached are the original and one copy of Form 3b.

W. H. King
W. H. King for
J. H. East, Jr.

A. H. Koschmann
A. H. Koschmann

REGION 4 CASE

Docket, DMEA 2320, Tungsten

Range View Mine, Coughlin and Henderson, Boulder County, Colorado.

Rehabilitation	$700.00	
Rentals	1,000.00	
Purchases	100.00	
L50 feet of drifting	3,000.00	$4,800.00

Spent on rehabilitation to date	$2,282.73
Balance for drifting Oct 31, 1952	$2,517.27

DMEA 2320 TUNGSTEN Idm-E-326

Glen Coughlin
2037 Walnut St.
Boulder, Colorado

and
Elzor L. Henderson
2502 Bluff St.
Boulder, Colorado

Range View Mine
Boulder County, Colorado

Loan - $4,800
75% -- $3,600

Landlord Subordination agreement signed by Glen & John Coughlin of an undivied ½ interest.

CONTRACT:
Dated - May 23, 1952
Start - 60 days
Run - 8 months
End - Jan. 23, 1953

Dmea 2320, Idm E 326 Amend. #1

REGION IV. CONTRACT
CONTRACT IDM-E 326.
REHABILITATON. $700.00
150 FT. DRIFT. 3000.00
PURCHASE 100.00

DOCKET OMEA 2320, RANGE VIEW MINE, COUGHLIN & HENDERSON. BOULDER CO. COLO
RENTAL TUNGSTEN 1,000.00
TOTAL $4,800.00

RESUME OF PERFORMANCE

MONTH	WORK	FEET ADVANCE MONTH	FEET ADVANCE TO DATE	COST MONTH	COST TO DATE	WAGES	EQUIPMENT	SUPPLIES	OTHER	COST PER FOOT MONTH	COST PER FOOT TO DATE
JULY-AUG. 52	REHABILITATION.			108597	108597	64680	23000	19107	1810		
SEPT. 52	" "			80265	188862	43560	20500	15305	900		
OCT. 52	" "			39411	228273	20333	6778	6520	5780		
OCT. 52	DRIFTING, RAISING	14	14	53641	53641	27667	9222	10328	6424	3838	3838
NOV. 52	"	33	47	68939	122580	47880	16000	4141	718	2083	2604
DEC. 52	"	14	61	63567	186147	32760	16000	12716	2291	4555	3052
FEB-MCH 53	" "	11 O 26 R.	72 O 26 R	86387	[illegible]	58080	24000	3765	1542		
	DISALLOWANCE 26.03 TAXES OVERCHARGE 182.04 EXCESS CONTRACT BALANCE 208.07			-208.07 635.80	2517.27						
	TOTAL,				4,800.00						
	GOVT. SHARE, PAID				3,600.00						

Partners

Slade	Henderson	Coughlin	Total	Fuf 1½%	Ins $2.51/100
$156.00	$171.60	—	327.60	4.91 ✓	8.00 10.00
228.00	250.80	—	478.80	7.18 ✓	0
216.00	237.60	26.40	480.00	22.94*	9.00
—	277.20	158.40	435.60	—	7.00
—	323.40	323.40	646.80	—	12.60 Deposit
$600.00	$1260.60	$508.20	$2368.80	$35.03	$46.60**

* Undercharge of $.50

** Effective Coughlin (as owner?)
$.10 undercharge

Slade	Henderson	Total	Ex.	Ins
$156.00	$171.60	327.60	4.91	18.00

DIGEST
and
CROSS - REFERENCE

In official docket can be found a "REPORT OF REVIEW", dated December 17, 1952, by George Mavor, Auditor, pertaining to DMEA 2310, Idm-E377, Tungsten Prospecting Associates.

States review included exam of MF-104's & supporting documents, cost comparisons, consultation with Govt. representatives who visited the project & determination of reasonableness & propriety of cost. Review made in lieu of audit of Operator's accounts & records because:

a. - admin. cost to Govt. of audit would be excessive compared to estimated amount of possible disallowances
b. - MF-104's were supported by ducmentary proof of costs
c. - Major portion of costs covered labor & rental of equipment

Total cost as billed by Contractor -	$1,676.27
Exceptions:	
Herewith (Schedule attached)	235.34
Total accepted cost	$1,440.93

75% by Govt. was $1,080.70.

Exceptions:

(1)	Rental of Equipment claimed	$325.50	
	Less: Maximum allowed under contract	280.00	
			45.50
(2)	Insurance Premium for Public Liability and Property Damage not allowable cost under contract		189.63
(3)	Miscellaneous Supplies claimed	$22.45	
	Should have claimed per invoices	22.24	.21
	Total amount of exceptions		$235.34