MME Form 9
Rev. Mar. 59

UNITED STATES
DEPARTMENT OF THE INTERIOR
Office of Minerals Exploration

OFFICIAL DOCKET FILE

Contract No. 14-23- 921 Docket No. MME-3981

Application
- [ ] Denied
- [ ] Withdrawn

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

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

Folder No. 1:

Left Side

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

Right Side

- [x] Project Summary (final)
- [ ] Work Completed Analysis (final)
- All other material filed in chronological order including the following reports if checked:
- [x] Field Team Semiannual Report for Certified Project Folder 2
- [x] Final Field Team Report (Tab)
- [x] Operator's Final Report (Tab)
- [x] Interim Field Team Reports Folder 2
- [x] Operator's monthly reports and all attachments Folder 2
- [x] On-site Exam. Report (Tab)
- [x] Settlement Sheets Folder 2
- [ ] Drill Logs

Additional Folders:

Left Side

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

Right Side

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

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

Folders No._____: Settlement Sheets

Folders No._____: Drill Logs

Folders No._____: Royalty Material

52615

OFFICE OF MINERALS EXPLORATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF ROYALTY REVIEW

I have reviewed the files of the Washington office pertaining to Contract Idm-E921, Docket DMEA-3981 (tungsten), dated February 21, 1956, with

Elmer Hetzer, George Prime, Richard Betasso,
and Ernest Betasso
c/o Ernest Betasso
Nederland, Colorado

for the purpose of determining the amount of royalty payable to the U. S. Government on sales of minerals from property referred to as the Pennsylvania Lode located in Boulder County, Colorado, during the period August 15, 1959, through December 23, 1962.

A certification of discovery or development was issued on March 29, 1957, and, in accordance with Article 7 of the contract, royalty is payable on all minerals produced from the land described in Article 2 of the contract for a period of 10 years from the date of the contract or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first. A Report of Review dated December 18, 1956, indicated accepted costs under the exploration contract amounting to $13,530.00 with the Government's contribution on a 75 percent basis being $10,147.50.

The status of the project, the scope of review, and the reasons therefor are stated on page 2.

This review found no sales subject to the Government's royalty subsequent to the period covered by a prior Report of Royalty Review which found the sales subject to the Government's royalty through August 14, 1959, to be $456.48. The royalty account as of August 14, 1959, was:

Total Royalty Payable	$16.23
Total Royalty Paid	18.97
Overpayment of Royalty	$ 2.74

As of December 23, 1962, the royalty account of this project was found to be:

Total Royalty Payable	$16.23
Total Royalty Paid	18.97
Overpayment of Royalty	$ 2.74

January 7, 1963

E. D. Talbert, OME Auditor

STATUS OF PROJECT, SCOPE OF REVIEW
AND REASONS THEREFOR

This contract provides that the Operator, as principal if the producer or as surety if not the producer, shall pay to the Government a percentage royalty on all minerals produced from the land thereunder. The land consists of portions of two patented (Pennsylvania and Comet) and one unpatented (Thanksgiving) claims located in the NW¼ of sec. 31, T. 1 N., R. 71 W. and the NE¼ of sec. 36, T. 1 N., R. 72 W., 6th P.M., Sugar Loaf mining district. At the time the contract was executed, the Operator was in possession by virtue of a five-year lease granted on August 24, 1955, and supplemented on December 10, 1955, by Joseph Rafter, 817 Pearl Street, Boulder, Colorado. In consideration of the contract Mr. Rafter executed a Consent to Lien on December 30, 1955.

Mr. Hatzer died on July 10, 1956. By County Court Order No. 8888 of July 28, 1956, Consuelo Hatzer (sole beneficiary and executrix of Mr. Hatzer's estate) was authorized and directed to continue in the partnership.

Exploration work under the contract was terminated on September 30, 1956, by an agreement dated November 9, 1956. Production during the exploration period and shortly thereafter resulted in sales to the Marion Mill of the Wah Chang Corporation of an aggregate of 51.787 S.D.T. of tungsten ore averaging .667% WO_3. These sales, on which the proceeds totaled $456.48, are covered by a Report of Royalty Review dated August 18, 1959. The $2.74 overpayment of royalty was due to the payment at 5%, rather than the proper 2% rate, on the $91.14 proceeds on a January 23, 1957, settlement and purchase order No. 380.

The mine was closed and allowed to flood during the first part of 1957. Subsequent inspections and inquiries by DMEA and OME regional representatives found the property to be inactive through February 19, 1960. In a December 23, 1962, reply to a MME Form 63 inquiry the landowner stated that neither change in property status nor production has occurred since February 19, 1960.

This review was made in lieu of an on-site audit of the Operator's accounts and records for the following reasons:

(1) The files indicate that the property has been inactive during the period covered by this review;

(2) Prior sales of production have been reported and proper royalty, except as indicated above, has been remitted; and

(3) The administrative cost to the Government of an on-site royalty audit at this time would be excessive in relation to the amount of possible additional royalty which might be disclosed.

OFFICE OF MINERALS EXPLORATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF ROYALTY REVIEW

I have reviewed the files of the Executive Officer, OME Field Team, Region III, Denver, Colorado, pertaining to Contract Idm-E921, Docket No. DMEA 3981, (Tungsten) dated February 21, 1956, with

Emer

Consuelo Hetzer, Executrix,
Estate of William Hetzer, George
Prime, Ernest Estasso and Richard Estasso
Sugar Leaf Star Route
Boulder, Colorado

for the purpose of determining the amount of royalties due the United States Government on the sale of tungsten ores produced from the Pennsylvania Lode, located in Boulder County, Colorado, during the period February 21, 1956 to August 14, 1959.

The status of the project, scope of the review and reasons therefor are stated on page 2.

My review established the total sales of tungsten ores for this period to be $456.48, (See Schedule attached). Royalty due the United States Government at the contract rates of 1½ percent to 5 percent is $16.23. The royalty paid and the balance due are as follows:

Total Royalty Due	$16.23
Total Royalty Paid	18.97
Overpayment of Royalty	$ 2.74

August 18, 1959

Donald T. Finch
Donald T. Finch
OME Auditor

EXTRA COPY
O. M. E.
RECEIVED AUG 21 1959

DATE	INITIALS	CODE

CONTRACT NO. IEM-E921 DOCKET NO. DMEA 3981

STATUS OF PROJECT, DESCRIPTION OF REVIEW AND REASONS THEREFOR

A Certificate of Discovery or Development was issued on March 29, 1957, and accordingly royalty is payable on all production from the land described in Article 2 of the contract for a maximum period of 10 years from the date of the contract. A Report of Review in lieu of Final Cost Audit, dated December 18, 1956, indicates accepted costs under the exploration contract of $13,530.00, with the Government contribution on a 75 percent basis being $10,147.50.

According to the Field Team's Semi-Annual Report of Certified Project for the period January 1, 1957 to June 30, 1957, the mine was inactive and full of water. Subsequent semi-annual reports of the Field Team for the period July 1, 1957 to December 31, 1958, report the property is inactive.

My review included a tabulation and recomputation of all ore purchase orders from the purchaser of the ore in the files of the Executive Officer, OME Field Team, for the period February 21, 1956 to August 14, 1958, reconciliation of ore production with the Field Team's Semi-Annual Reports for the period and reconciliation of royalty payments received with the records of the OME Finance Office, Denver, Colorado.

The review was made in lieu of an on-site audit of the producer's accounts for the following reasons:

(a) All reported production was adequately supported by copies of purchase orders from the purchaser of the ore who made royalty payments direct to the Government.

(b) Production was reconciled with the Field Team's Semi-Annual Reports for Certified Projects.

(c) The administrative cost to the Government of an on-site audit at this time would be excessive in relation to the amount of possible additional royalty which might be disclosed.

CONSUELO HETZER, EXECUTRIX, ESTATE OF WILLIAM HETZER,
GEORGE FRIDE, ERNEST ENTASSO AND RICHARD ENTASSO

CONTRACT NO. IBM-N921 DOCKET NO. DMRA 3981

SUMMARY OF PRODUCTION, SALES AND ROYALTY
For the period February 21, 1956 to August 12, 1959

All Sales to Wah Chang Corporation	Tungsten Ore	
Gross Weight, Pounds	106644	
Moisture Content, Pounds	3070	
Dry Weight, Pounds	103574	
Dry Weight, Tons	51.787	
WO_3 Assay	0.667%	
Pounds of WO_3	691	
S T U WO_3	34.57	
Average Price per S T U	$ 13.20	
Gross Value	456.48	
Average Value per Dry Ton of Ore	$ 8.81	
Average Royalty Percentage	3.56	
Total Royalty Due	$ 16.23	
Total Royalty Paid	18.97	
Overpayment on Purchase Order No. 380 dated January 23, 1957		$2.74

MME Form 22
April 59

DEPARTMENT OF THE INTERIOR
Office of Minerals Exploration

CHECK SHEET OF EXAMINING ENGINEER

Operator's Name Consuelo Hetzer, Executrix, Estate of ~~William Hetzer, George Prime, Ernest~~ Betasso and Richard Betasso
Elmer T.

Address Sugar Loaf Star Route

Boulder, Colorado

Exploration Contract No. Idm-E921 Docket No. DMEA 3981

PENNSYLVANIA LODE
Boulder County, Colorado

			Check One Yes	Check One No
1.	(a)	Does the Operator stockpile ore subject to royalty repayment?		
	(b)	If so, is segregation and identification procedure adequate?		
2.	(a)	Does Operator commingle production subject to DMEA or OME royalties with exempt production?		
	(b)	If so, do you consider the allocation of the commingled production equitable?		
3.	(a)	Does the Operator stockpile mine or mill rejects (low grade ore, tailing, middlings, etc.) that may have potential value within the royalty payment period?		
	(b)	If so, are adequate records maintained on such material to protect the Government's interest?		
4.		Do you consider the assay controls in effect are adequate?		
5.		Do you consider that the manner of disposing of production gives the Government its fair royalty returns?		
6.		Do your periodic examinations of operations indicate the Operator is properly reporting his production of ores subject to DMEA or OME royalties?		
7.		Does the Operator buy from or sell to other Operators?		
8.		Comment on any item 2 (b) to 6 if answer is No.		

9. Remarks: Questions 1-7 inclusive not applicable. To the best of my knowledge the property has been inactive for some time. The latest information available is contained in the "Statement in Lieu of Semi-Annual Report" dated January 23, 1959.

August 18, 1959
Date

Mining Engineer
Executive Officer, OME
Field Team, Region III

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
3/19	Holt	400
3/19	Martin	400
3-21	Chambers	800
	Britin	140
"Appd. Sol. Off."	Sayre	140
3/28	Selfridge	130
"	Johnson	110
"	Mitteudorf	100
4/11	C	220

Holliday
Lamb
Kilsgaard

CERTIFICATION BY THE UNITED STATES OF AMERICA
OF A DISCOVERY OR DEVELOPMENT UNDER
AN EXPLORATION PROJECT CONTRACT

To: Mr. Ernest Betasso, Attorney in Fact
Hetzer, Prime, Betasso and Betasso
Sugar Loaf Star Route
Boulder, Colorado

Pursuant to the provisions of Exploration Project Contract No. Idm-E921, executed February 21, 1956, (Docket No. DMEA 3981), hereinafter called the "Contract", between Elmer Hetzer, (now deceased), George Prime, Richard Betasso, and Ernest Betasso, partners, and the United States of America, hereinafter called the "Government"; to establish and fix the Government's percentage royalty on production and its lien therefor and on the land described in the contract, the Government considers and therefore certifies that a discovery or development from which production may be made has resulted from the exploration.

The nature of said discovery or development is described broadly or indicated as follows:

Shaft sinking and subsequent drifting on the 80-foot level have indicated the presence of tungsten ore occurring as ferberite in pegmatitic quartz-feldspar veins in granite.

THE UNITED STATES OF AMERICA

Dated: MAR 29 1957

By C O Mitteudorf
Administrator, Defense Minerals
Exploration Administration

SPHolt:am 3/19/57
cc to: Docket
Code 400
Admr. Read. File
Oper Comm.
Audit Division
FT REG III
Finance Office

cc to: Messrs. F. D. Lamb, USBM
R. W. Holliday, USBM
T. H. Kiilsgaard, USGS
F. E. Johnson - 110
C. A. Fredell, GSA
Ernest Betasso

Joseph Rafter

8623

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
3/23	RM Smith	120
		110
		220

Mrs. Gracenie Hetner
Executrix, Estate of Elmer Hetner,
Messrs. George Prime, Richard Estasse,
and Ernest Estasse
c/o Mr. George Prime
Box 242
Nederland, Colorado 80466

MAR 24 1966

Re: DMEA-3981 (Tungsten)
Elmer Hetner, et al.
Pennsylvania Lode
Boulder County, Colorado
Contract Idm-2971

Dear Mrs. Hetner and Gentlemen:

By the terms of the referenced Exploration Project Contract and the certification of discovery or development, dated March 29, 1957, all minerals mined or produced from February 21, 1956, to February 21, 1966, were subject to the Government's royalty as set forth in said contract.

As the period during which production was subject to royalty has now expired, the Government according to its present records retains no claim or lien against the property subject to the contract or any future production therefrom. We, therefore, are closing our books and records on this contract. Your attention, however, is called to the provisions of the contract which require the Operator to keep and preserve certain records for the periods indicated.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

In quadruplicate

cc: Director's Reading File
Division File
Economic Geol. File
Br. of Budget & Finance
OME File
OME Region III
OME Reading File
Mr. Smith
120M

RMSmith/gla 3-24-66

23263

DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF REVIEW

I have reviewed the Monthly Reports of:

Consuelo Hetzer, Executrix of Estate of Elmer Hetzer, Deceased
Ernest Betasso, George Prime, Richard Betasso, Partners,
Ernest Betasso, Agent
Sugar Loaf Star Route
Boulder, Colorado

pertaining to Exploration Project Contract No. Idm-E921, Docket No. DMEA-3981, and Termination Agreement dated November 9, 1956, for the months of March, 1956 to September, 1956, inclusive, covering a project for the exploration of Tungsten on property known as Pennsylvania Lode located in Boulder County, Colorado.

My review included an examination of the Monthly Reports (Form MP-104) and supporting documents attached thereto, comparison of the costs claimed with the contract and pertinent schedules, consultation with the Executive Officer, DMEA Field Team, and a determination of the reasonableness and propriety of the costs.

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

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

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

Total cost as billed by Contractor:		$13,530.00
Net cost as claimed by Contractor:		13,530.00
Exceptions:		
By DMEA Finance Officer	$0.00	
Herewith	0.00	0.00
Total Accepted Cost		$13,530.00

The contract calls for a 75 percent participation of exploration expenses by the United States Government. Therefore, payment to the contractorby the Government in the amount of Ten thousand, one hundred forty-seven and 50/100ths Dollars

** $10,147.50 **

is considered valid and proper, provided that the Regional Executive Officer, the Administrator, or other competent official has accepted or will accept the project as having otherwise met the terms of the contract.

December 18, 1956

T. H. Brading, Auditor

Docket copy

TERMINATION AGREEMENT

It is agreed this 9th day of November, 1956, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and the Estate of Elmer Betzer, and George Prime, Richard Betasso, and Ernest Betasso, partners, hereinafter called the "Operator," parties to that certain Exploration Project Contract Idm-E921 (Docket No. DMEA-3981), dated February 21, 1956, that:

1. No work or operations provided for in said contract shall be performed after September 30, 1956.

2. The Government shall contribute only to the fixed unit costs of work performed prior to October 1, 1956.

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

4. All rights of the Government provided for in the contract with respect to certification of discovery or development, percentage royalty and liens for its payment, records, audits, and recovery of any overpayment, are preserved.

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

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

THE UNITED STATES OF AMERICA

By Frank E. Johnson
Administrator, Defense Minerals
Exploration Administration

THE ESTATE OF ELMER BETZER, and
GEORGE PRIME, RICHARD BETASSO,
and ERNEST BETASSO

By Ernest Betasso
Ernest Betasso, Attorney-in-Fact

Indexed 11/5/56
Lloyd
("Appd. Sol. Off.")
Chapman
Martin
Chapman
Selfridge

Docket Copy

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MAR - 5 1956

MF-200A
(Revised June 1954)

Docket No. DMEA 3981

Commodity Tungsten

Contract No. Idm-E 921

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
EXPLORATION PROJECT CONTRACT[1]
(Short Form)

It is agreed this FEB 21 1956 day of ....., 195...., between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and [2] Elmer Retzer, George Prime, Richard Betasso and Ernest Betasso, partners

whose mailing address is Elmer Retzer Box 641, Boulder, Colorado

hereinafter called the "Operator," as follows:

ARTICLE 1. *This contract* is entered into under the authority of the Defense Production Act of 1950, as amended. It consists of this form (MF-200A), the attached Exhibit "A," Annex I, and maps numbered Figure 2 and Figure 3.

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

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

(b) The Operator represents and undertakes that:

(1) The Operator is the [4] lessee of [5] all mineral rights in the land, in possession and entitled to possession for all of the purposes of this contract, under and by virtue of a lease and Supplement and Addition, [6] ....., [7] recorded in Book ....., page ....., official records of said County; and

(2) The Operator's right, title, or interest (whether as owner, lessee, or otherwise) is subject only to the following claims, liens, or encumbrances: lease royalty

(c) The Subordination Agreement of the holder of any claim, lien, or encumbrance listed above, and (if the Operator does not hold the legal title) the Consent to Lien of any holder of the legal title of the land (lessor, seller, optionor, etc.), are attached, as follows Consent to Lien

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

16—70918-1

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

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

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

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

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

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

ARTICLE 8. *Termination of the Government's obligations.*—(a) If in the opinion of the Government operations at any time have failed to achieve anticipated results that indicate the probability of making a worthwhile discovery, and in the opinion of the Government further operations are not justified, the Government may give the Operator written notice thereof, and thereupon the Government shall be free of all obligation to pay on account of units of work not then performed, and the Operator shall be free of all further obligation to prosecute the work other than such as may be necessary and incidental to winding up, reporting, and accounting.

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

(c) The giving of any notice by the Government under the provisions of this Article 8 shall not affect the Government's rights as provided for in the contract with respect to a percentage royalty, and such rights shall be fully preserved.

ARTICLE 9. *Notices to be given by the Government* may be delivered to the Operator, or may be sent by registered mail addressed to the Operator at his mailing address stated in this contract. If mailed, notices are deemed to have been delivered five days after the date of mailing.

ARTICLE 10. *Officials not to benefit.*—No member of or delegate to Congress or resident commissioner shall be admitted to any share or part of this contract or to any benefit that may arise therefrom; but this provision shall not be construed to extend to this contract if made with a corporation for its general benefit.

ARTICLE 11. *Changes and added provisions.*—

Executed in sextuplicate the day and year first above written.

By Elmer Betasso (Partner)
(Operator)

By George Pisani (Partner)

By Richard Betasso (Partner)

By Ernest Betasso (Partner)

THE UNITED STATES OF AMERICA

By C O Mitchendorf
Administrator, Defense Minerals Exploration Administration

Indexed 2/9/56
Dwyer
"Appd Sol. Off."
Chapman
Martin
Chambers
H Johnson

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

.....

[CORPORATE SEAL]

U. S. GOVERNMENT PRINTING OFFICE 16—70618-1

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MAR - 5 1956

EXPLORATION PROJECT CONTRACT
ELMER BETZER, ET AL.
DOCKET NO. DMSA-3981

ANNEX I

The land referred to in Article 2 of the Contract consists of two patented and one unpatented lode mining claim, known as the Pennsylvania, Comet, and Thanksgiving, respectively.

These claims are shown on the map entitled "Figure 2 - Map of the Pennsylvania Group of Mining Claims, Boulder County, Colo., showing applicants' property rights. (Elmer Betzer et al. DMSA-3981)," which is attached hereto and made a part hereof. The claims are located in the NW¼ of section 31, T. 1 N., R. 71 W., and the NE¼ of section 36, T. 1 N., R. 72 W., Sixth Principal Meridian, Boulder County, Colorado, and are described and recorded as follows:

Claim Name	Survey Number	Records of County Recorder Book No.	Page No.
Pennsylvania	19740 Patented		
Comet	19740 Patented		
Thanksgiving	Unpatented	998	106

The above-noted claims are owned by Joseph Rafter. By a lease dated August 24, 1955, a part of the Pennsylvania Claim (outlined in green on map Figure 2) was leased to George Prime, Elmer Betzer, Richard Betzer and Ernest Betzer. By a "Supplement and Addition to Mining Lease," dated December 10, 1955, the parties thereto agreed that those portions of the Thanksgiving lode mining claim as are not in conflict with prior claims (outlined in heliotrope on map Figure 2) and that part of the Comet lode mining claim, to wit: seventy-five feet on each side of the Pennsylvania vein which crosses said Comet claim (outlined in blue on map Figure 2), shall be included in and be a part of the original lease of August 24, 1955.

MF-203
Revised March 24, 1955

For Government's Use Only
EXPLORATION PROJECT CONTRACT
Operator Elmer Hetzer, et al.
Docket No. DMEA- 3981
Contract No. Idm-E
Contract Date

RECEIVED
JAN 6 1956

CONSENT TO LIEN

To the United States of America:

Referring to that certain land in the County of Boulder, State of Colorado, described as follows:1/

That part of the Pennsylvania Lode (U. S. Survey 19740) lying between East end line and angle corners; that part of the Comet Lode (U. S. Survey 19740) to wit: 75 feet on each side of the Pennsylvania Vein which crosses said Comet Lode; and the unpatented Thanksgiving Lode mine claim recorded in Book 998 at Page 106 in the official records of said County.

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

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

2. Grants to the Government a lien upon all of the undersigned's right, title, and interest in the land and upon any production of minerals therefrom to secure the payment to the Government of a percentage royalty on production as may be provided for by the contract;2/ and represents and undertakes that there are no claims, liens, or encumbrances upon the undersigned's right, title, or interest in the land prior to that hereby granted to the Government other than the following:3/

None

3. Undertakes and agrees neither to commit any act nor assert any claim in conflict with the provisions of this Consent to Lien; and to give advance notice of the Government's rights under this Consent to Lien to any subsequent transferee, mortgagee, encumbrancer, or lessee of any of the undersigned's right, title, or interest in the land; and

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

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

3/ Write "none" if that is the case. Do not leave lines blank.

4. Consents to all amendments and assignments of the contract without notice thereof, and agrees that this Consent to Lien shall extend and apply thereto.

5. Added provision: None

Dated this 30th day of December, 1955.

Joseph Rafter [Seal]

[Seal]

[Seal]

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

_____

[Corporate Seal]

EXPLORATION PROJECT CONTRACT
ELMER NETHER, ET AL.
DOCKET NO. IMEA-3981

Exhibit "A"

Description of the Work

Attached hereto and made a part hereof is a map entitled "Figure 3 - Longitudinal Section along the Pennsylvania Lode, Boulder County, Colo., showing location and extent of recommended exploration. (Elmer Netner et al. IMEA-3981 (Tungsten)."

1. From the bottom of an existing inclined shaft located on the apex of the Pennsylvania vein near the northeastern end of the Pennsylvania claim, extend the inclined shaft an additional 75 feet along the dip of the vein. The new shaft shall be timbered, two compartments, and the cross-sectional dimensions shall be 7 feet by 3½ feet in the clear of timber.

2. At a depth of 80 feet below the collar of the above shaft, drift a total of 250 feet southwesterly along the Pennsylvania vein. The drift shall be timbered as necessary and be a minimum of 4½ feet by 6½ feet in the clear of timber.

3. Dependent on mineralization and at a point and for a distance to be approved by the Government, raise a maximum of 30 feet on the vein. The raise shall be timbered as necessary, with two compartments and approximately 8 feet by 4½ feet in rock section.

4. Sample and assay for WO_3 the mineralized sections along the drift and in the raise.

Estimated Cost of the Project

Fixed Unit Costs

Sinking shaft, not in excess of 75 feet @ $80.00/ft.	$6,000.00
Drifting, not in excess of 250 feet @ $30.00/ft.	7,500.00
Timbering, not in excess of 100 feet @ $7.00/ft.	700.00
Raising, not in excess of 50 feet @ $35.00/ft.	1,750.00
Assaying, not in excess of 30 samples for WO_3 @ $5.00 each	150.00
Estimated Total Cost of Project	$16,100.00
Government Participation @ 75%	$12,075.00

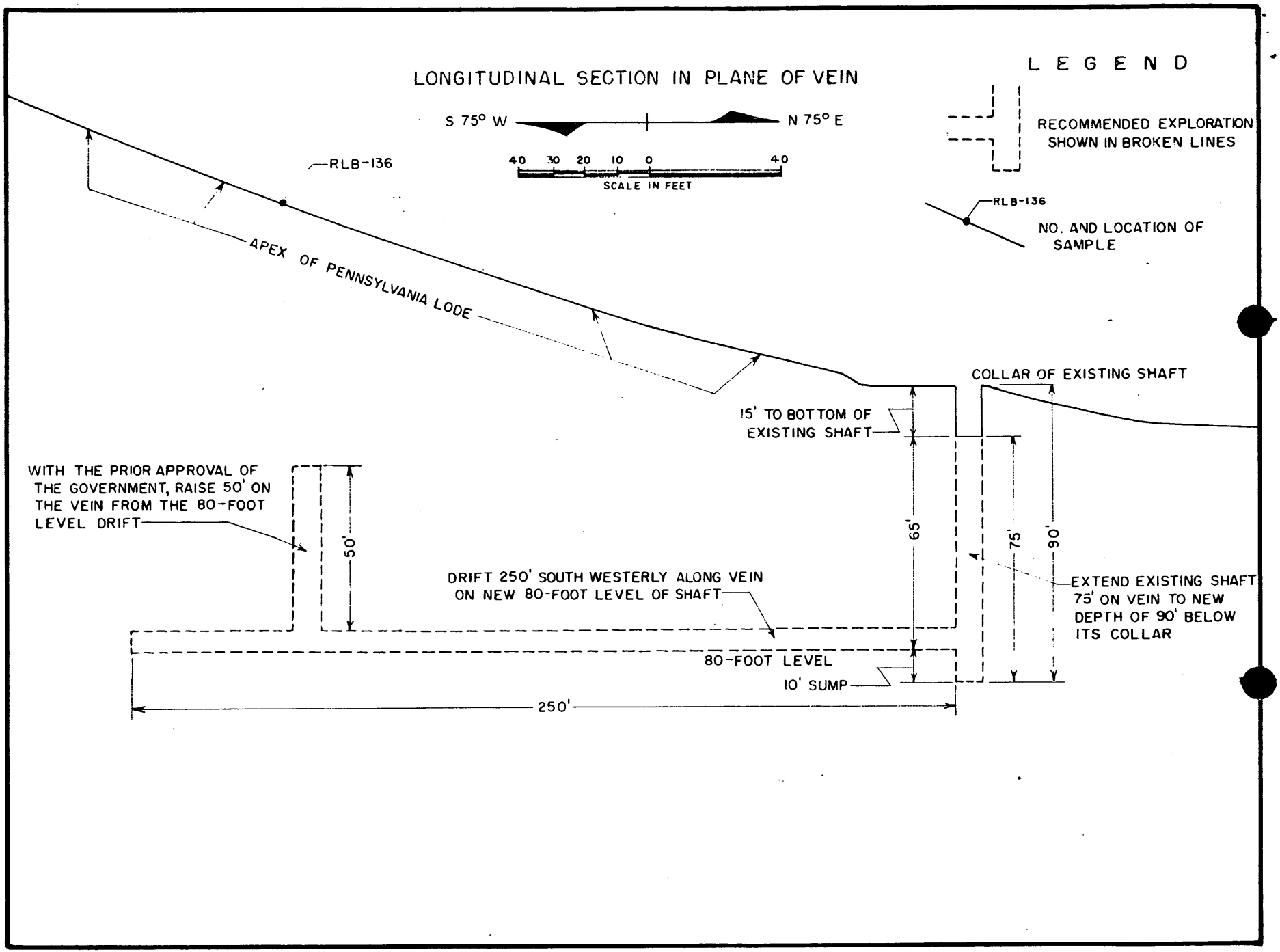


FIGURE 3 - LONGITUDINAL SECTION ALONG THE PENNSYLVANIA LODE, BOULDER COUNTY, COLO., SHOWING LOCATION AND EXTENT OF RECOMMENDED EXPLORATION. (ELMER HETZER ET AL. DMEA 3981 (TUNGSTEN)

RECEIVED
MAR - 5 1956

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

RECEIVED
SEP 19 1955

September 16, 1955

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Application for DMEA Aid, (Tungsten), Elmer Hetzer, Pennsylvania Mine, Boulder County, Colorado

Enclosed are three copies of the subject application in the amount of $15,294.16. One copy of the application is being retained in our file.

The only copy of the Mining Lease which was attached to the application is forwarded you herewith.

W. M. Traver

Enclosures

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DMEA
Date Rec'd.
SEP 16 1955

Form Approved.
Budget Bureau No. 42-R1035.2.

BUREAU OF MINES
Denver, Colorado

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

RECEIVED
SEP 19 1955

Not to be filled in by applicant

Docket No. DMEA-3981
Metal or Mineral Tungsten
Date Received 9/19/55
Estimated Cost $15,294.16
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: Elmer Hetzer P. O. Box 641, Boulder, Colorado A partnership as follows; Elmer Hetzer, Boulder Colorado George Prime, Nederland, Colorado Richard Betasso, Boulder, Colorado Ernest Betasso, Boulder, Colorado

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract Pennsylvania Lode, Clain No. 19740, Being in the Sugar Loaf Mining District, Boulder County, Colorado.

(*b*) State any mine name by which the property is known. Pennsylvania

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Leased from Joseph Eafter

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property.

(*e*) If you own the land, describe any liens or encumbrances on it

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice.

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points.

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore Tungsten

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

(*c*) The work will start within 5 days and be completed within 3 months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

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

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)?

(*b*) How do you propose to furnish your share of the costs?

[X] Money [X] Use of equipment owned by you [ ] Other

Explain in detail on acompanying paper. Have constructed Hoist & Compressor building, also Head frame and have cribbed colar of shaft, Ready for sinking.

CERTIFICATION

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

Dated September 15, 1955

Elmer Witzer
(Applicant)

By

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—66551-1

RECEIVED
SEP 19 1955

Elmer Hetzer, Boulder, Colorado

4.

(a) Open pits not to exceed 10 feet showing Ferberita, which runs 1% to 8% WO_3.
All workings are accessible for examination now.

(b) This is a new discovery, with no production.

(c) Fissure
Fisher vein from 2 feet to 4 feet with Ferberite showing.

(d) Accessible road to property, One mile from Sugar Loaf highway, Approximately nine (9) miles from Nederland Mill.

(e) Manpower, material, supplies & water available, Gasoline hoist & Compressor.

5.

(b) Proposed work includes;

	75	feet sinking on vein from surface
	250	feet of drifting from 60 foot level
	50	feet raise
Total	375	feet of work

(d) Elmer Hetzer has had forty (40) years mining experience.
George Prime, will supervise the operation, with twenty (20) mining experience in this district.

6.

(a) Independent contracts as follows;

75 feet sinking	at $45.00 per foot	$3,375.00	
250 feet drifting	at 20.00 per foot	5,000.00	
50 feet raise	at 12.00 per foot	600.00	
			$8,975.00

(b) One Foreman	$2.00 per hour	$1,232.00	
One Hoistman	1.70	1,047.20	2,279.20

(c) Powder	1 3/4 Tons	$ 827.00	
Caps		145.00	
Fuse		98.00	
Timken threaded steel		200.00	
Lamp carbide		24.00	
Track spikes		24.00	
Gasoline		800.00	
Oil & Grease		78.00	
Timber		80.00	
Nails		23.00	
Mine rail		196.00	
Rail bolts, spikes & fish plates		23.00	2,518.00

Elmer Hetzer, Boulder, Colorado

RECEIVED
SEP 19 1955

6.

(d) Air Compressor
Hoist
Jack leg
Jack hammer
2 Buckets
Bucket dolly
16 cu. ft. Mine car
Dump sheet

Estimated use allowance on all equipment;
$235.00 per month for 3 months — $705.00

(g)

Operating equipment, repairs & maintenance	$250.00	
Accounting	100.00	
Workmans compensation insurance	163.20	
Employers Tax	243.76	756.96

(h) Bit grinding — 60.00

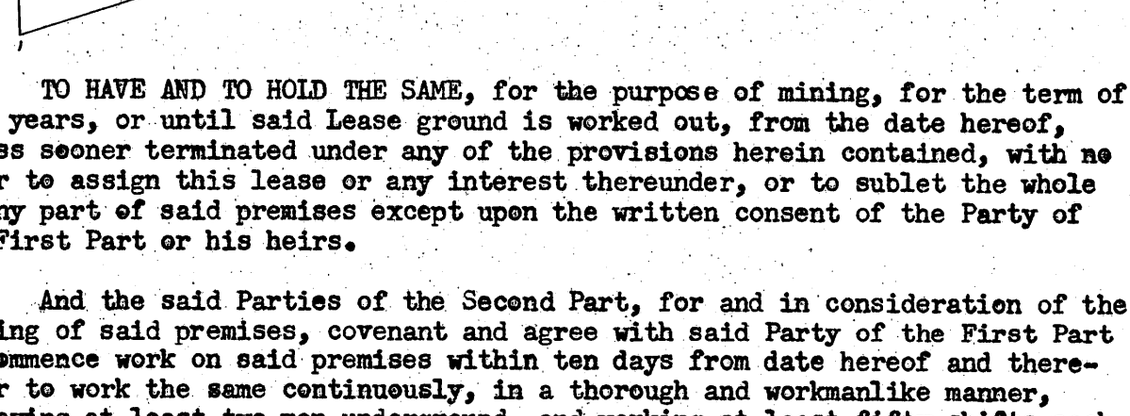
TOTAL ESTIMATED COST OF PROPOSED EXPLORATION

Independent contracts	$8,975.00
Labor ——— including supervision	2,279.20
Material & supplies	2,518.00
Use allowance on equipment	705.00
Operating equipment, repair & maintenance	756.96
Contingencies Not a contingency because grinding (sharpening) will unquestionably be necessary unless "throw aways" are used	60.00
Total	$15,294.16

MINING LEASE

THIS INDENTURE, Made this 24th day of August in the year of our Lord one thousand nine hundred and fifty-five between JOSEPH RAFTER, Party of the First Part, and GEORGE PRIME, ELMER HETZER, RICHARD BETASSO and ERNEST BETASSO, Parties 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:

That part of the Pennsylvania Lode (Survey 19740) lying between East end line and angle corners.



TO HAVE AND TO HOLD THE SAME, for the purpose of mining, for the term of five years, or until said Lease ground is worked out, 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 or his heirs.

And the said Parties of the Second Part, for and in consideration of the leasing of said premises, covenant and agree with said Party of the First Part to commence work on said premises within ten days from date hereof and thereafter to work the same continuously, in a thorough and workmanlike manner, employing at least two men underground, and working at least fifty 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 monthly 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:

On all ores not milled a royalty of 25% of returns less the cost of umpire assaying and on all ores milled a royalty of 20% of the returns from sale of said concentrates less the cost of umpire assaying, and to assume and pay in due season 78% of the production taxes on ore and concentrates produced under this Lease, and the said Parties of the Second Part shall sell all said ores and concentrates in open market to the highest responsible bidder.

To insure themselves and employee with Workmens Compensation issued by the State of Colorado.

To leave a solid block of ground on each side of shaft about ten feet in length.

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 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.

To place stulls five feet apart center to center, stulls to measure at least 8½ inches at small end.

To comply with all state and government laws and regulations.

And the said Parties of the Second Part furthermore covenant and agree that the said Party 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 Parties of the Second Part will render to him all the assistance in their power in so doing. And the said Parties of the Second Part furthermore covenant and agree 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 Parties of the Second Part or by any person working under them in any manner, by working within or from the aforesaid premises, as the property of the said Party 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 Parties of the Second Part furthermore covenant and agree that in case of failure 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 Party 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 Parties of the Second Part agree to surrender, yield and deliver to said Party 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.

Joseph Rafter (SEAL)
Joseph Rafter

George Prime (SEAL)
George Prime

Elmer Hetzer (SEAL)
Elmer Hetzer

Richard Betasso (SEAL)
Richard Betasso

Ernest Betasso (SEAL)
Ernest Betasso

Form 7
(56)

OFFICIAL FILE COPY

Date	Surname	Code
3/18	Holt	400
3/18	Martin	400
		800
		140
		140
		130
		110
		100

March 18, 1957

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Holliday
Lamb

Subject: General Summary of Contract and Results Obtained
Docket No. DMEA 3981 - Tungsten
Elmer Hetzer et al
Pennsylvania Lode
Boulder County, Colorado
Contract No. Idm-E921

Operator: Elmer Hetzer (now deceased, and replaced by the Estate of Elmer Hetzer), George Prime, Richard Betasso, and Ernest Betasso, partners, Sugar Loaf Star Route, Boulder, Colorado

Operator's Property Rights:

The Operator controls, by lease from the owner, Joseph Rafter, Sugar Loaf Star Route, Boulder, Colorado, one unpatented and two patented lode mining claims, situated in the NW ¼, sec. 31, T. 1 N., R. 71 W., and the NE ¼, sec. 36, T. 1 N., R. 72 W, 6th P. M., Sugar Loaf Mining District, Boulder County, Colorado, as follows:

Claim Name	U. S. Survey Number	Recorded Book	Recorded Page
Pennsylvania (patented)	19740		
Comet (patented)	19740		
Thanksgiving (unpatented)	—	998	106

The book and page recording numbers refer to the records in the office of the County Recorder at Boulder, Colorado. The original lease, dated August 24, 1955, covered that part only of the Pennsylvania claim lying northeasterly from a line between corners 3 and 6 of said claim. By a "Supplement and Addition to Mining Lease" dated December 10, 1955, those parts of the Thanksgiving lode not in conflict with prior claims, and that part of the Comet claim located within 75 feet of each side of the center line of the Pennsylvania vein were added to and included in the lease of August 24, 1955.

Contract:

(a) Executed February 21, 1956 (on Form MF-200A (short form).

(b) Completion period: Work to be started on or before March 15, 1956, and to be completed on or before November 1, 1956.

(c) Work authorized:

Fixed Unit Costs

Shaft sinking, not in excess of 75 feet, @ $80.00/ft.	$6,000.00
Drifting, not in excess of 250 feet, @ $30.00/ft.	7,500.00
Timbering drift, not in excess of 100 feet, @ $7.00/ft.	700.00
Raising, not in excess of 50 feet, @ $35.00/ft.	1,750.00
Assaying not in excess of 30 samples for WO_3, @ $5.00/each	150.00
Estimated Total Cost of Project	$16,100.00
Government Participation @ 75 percent	$12,075.00

(d) Work Completed:

Fixed Unit Costs

Shaft sinking, 75 feet @ $80.00/ft.	$6,000.00
Drifting, 250 feet @ $30.00/ft.	7,500.00
Assaying, 6 samples for WO_3 @ $5.00/ea.	30.00
Total Accepted Cost of Contract	$13,530.00
Government Participation @ 75 percent	$10,147.50

Work on the contract began March 5, 1956, and was stopped without completing the raising authorized, on September 20, 1956. The contract was terminated, at the Operator's request, by a mutual termination agreement dated November 9, 1956, effective as of September 30, 1956.

Audits: A review in lieu of final audit, dated December 18, 1956, was received December 21, 1956.

Reports: The Operator's Final Report, dated November 28, 1956, was received by the Field Team on December 6, 1956. The Final Report of the Field Team, dated February 18, 1957, was received February 25, 1957.

Past Production:

The earlier work on the claims consisted of prospect pits and trenches and 15 feet of shaft, and only a small amount of ore, (reported as "several tons" assaying about 8 percent WO_3), had been shipped prior to the date of the contract.

Present Production:

Since the date of the contract, to January 23, 1957, 51.788 tons of ore have been shipped, on which $18.97 royalty has been paid to the Government.

Certification:

As recommended by the Field Team, a certification of discovery or development was issued by this office on _____, ___, 1957.

Comments: The project consisted of work on the Pennsylvania group of claims to explore for tungsten, which occurs as a fine- to moderately coarse-grained cement of ferberite in brecciated vein material and as fillings along minor fractures throughout the width of a pegmatitic quartz-feldspar vein in granite. Reserves of tungsten ore discovered by project work were estimated by the Field Team as about 700 tons of indicated and inferred ore, average grade 0.9 percent WO_3, containing about 630 short ton units of WO_3.

W. S. Martin

W. S. Martin, Chief
Iron and Ferro-Alloys Division

SPHolt:am
cc to: Docket
Code 400
Admr Read. File
Oper. Comm.
Mr. F. E. Johnson

DMEA Form 18
Feb. 58

D[illegible]NSE MINERALS EXPLORATION ADMIN[illegible]RATION

ANALYSIS OF SEMIANNUAL REPORT OF CERTIFIED PROJECT

Prepare in duplicate. File original in Official Docket. Send copy

To: Statistics Branch (Code 210)

From: Division of **Iron and Ferro-Alloys**

DMEA No.	Operator	Report Period	Contract No.
3981	**Elmer Hetzer et al.**	**1.1-6.30.57**	**Idm-E921**

ORE ESTIMATES

	Tons	Analysis
DMEA	700	0.9 % WO_3
Operator to date	-	
Total	700	0.9 " "
Production to date	38 *	0.9 " " *
Ore in ground	762 *	0.9 " " *

INVESTMENT

Type	Size	Feet	Cost
Shafts	4'x8'	80	$6,400.00
Winzes			
Drifts and Crosscuts	5'x7'	291.5	8,745.00
Raises	4'x10'	100	-
Drilling	Type		
Rehabilitation	Description		

FACILITIES

Mine Plant		
Mill		
Roads		

REMARKS

"The mine is closed and full of water. All equipment is at mine. Seventy feet west of crosscut the ore stripped in a 15-foot raise is estimated to contain 2 to 3 percent WO_3."

*** Reported tonnage adjusted to "Official" grade.**

Confer to W. Chamberlain

Prepared by Stephen P. Holt Date 3.18.58

31398

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
3/23	RMSmith	120
"	Johnson	170

MAR 2 4 1966

Memorandum

To: The File

From: R. M. Smith

Subject: DMEA-3981 (Tungsten)
Elmer Hetzer, et al.
Pennsylvania Lode
Boulder County, Colorado
Contract Idm-E921

The contract is being closed out this date without requesting the Operator to submit a final MME Form 63 covering the 8-month period June 24, 1965, through February 21, 1966. The possibility of any production subject to Government royalty during this period is virtually nil because at last report the owner and the principal partner were both dead, the lease had lapsed, the mine was flooded, and the grade of the reserves (0.9 WO_3) was not commercial at this location at a price of $22.00 per unit. Subsequent price increases were not in time to allow reopening prior to February 21, 1966.

R. M. Smith

R. M. Smith

cc to: Director's Reading File
Division File
Economic Geology File
OME File
OME Reading File
Mr. Smith

RMSmith/gla 3-23-66

23263

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
3/23	RM Smith	120
		110
		220

MAR 24 1966

Mrs. Joseph Rafter
817 Pearl Street
Boulder, Colorado

Re: MMA-3981 (Tungsten)
Elmer Hatter, et al.
Pennsylvania Lode
Boulder County, Colorado
Contract Idm-2921

Dear Mrs. Rafter:

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

This correspondence relates to the Consent to Lien signed by Mr. Joseph Rafter on December 30, 1955.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

Enclosure

cc: Director's Reading File
Division File
Economic Geology File
OME File
OME Region III
OME Reading File
Mr. Smith
120M

RMSmith/gla 3-24-66

23263

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

June 16, 1965

REGISTERED MAIL
RETURN RECEIPT REQUESTED

Re: DMEA-3981 (Tungsten)
Elmer Hetzer, et al.
Pennsylvania Lode
Boulder County, Colorado
Contract Idm-E921

Mr. George A. Prime
Box 242
Nederland, Colorado 80466

Dear Sir:

After the completion of the approved exploration work under the contract identified above, we asked to be informed about changes in the status of the property and production from it during the period of royalty obligation.

To assist you to furnish this information and to assure the accuracy of our records, please answer the questions on the back of this letter and return two copies to this office with copies of any pertinent documents.

Sincerely yours,

George C. Selfridge

George C. Selfridge, Chief
Division of Exploration Operations

OFFICIAL COPY
O. M. E.
RECEIVED
JUN 28 1965

INITIALS	CODE
	120
	114
6/29 m	120
	120

MME Form 63
Revised 3-62

DMEA-3981
Idm-E921

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since March 1964, has there been a change in ownership, lease, or sublease? If yes, please state details of the transaction below and provide a true or signed copy of the pertinent documents, unless they have been provided before. Yes ☐ No ☒

   Is the Mining Lease of August 24, 1955, as supplemented on December 10, 1955, still in full force and effect? If not, please give details. Yes ☐ No ☒

2. Since March 1964, has there been any production from the land subject to the contract? Yes ☐ No ☒

   A. If so and it was shipped, give quantity, value, and name and address of purchaser.

	Quantity	Value

   B. If stockpiled awaiting sale, state quantity, grade, and location.

Type	Quantity		Estimated Grade	Location
Ore		Tons		
Concentrates		Tons		
Other		Tons		

3. Since, has any production been transported through workings (see of contract)? Yes ☐ No ☐

   A. If so, state quantity, value, and disposition of material.

Disposition of Material	Quantity	Value

Submitted by:

Name George A. Prime Title

Address Nederland Colo. Date 6-24-65

4511

220

INSTRUCTIONS TO DELIVERING EMPLOYEE

☐ Deliver *ONLY* to addressee

☒ Show address where delivered

(Additional charges required for these services)

RECEIPT

Received the numbered article described on other side.

SIGNATURE OR NAME OF ADDRESSEE *(must always be filled in)*

George A. Prime

SIGNATURE OF ADDRESSEE'S AGENT, IF ANY

Carolyn Marlett

DATE DELIVERED	SHOW WHERE DELIVERED *(only if requested)*
6/19/65	Box 242 - Nederland Colo

C55—16—71548-5—F GPO

3981

DM & A 3981

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

March 4, 1964

Re: DMEA-3981 (Tungsten)
Elmer Hetzer, et al.
Pennsylvania Lode
Boulder County, Colorado
Contract Idm-E921

Mr. George A. Prime
Box 242
Nederland, Colorado, 80466

Dear Sir:

After the completion of the approved exploration work under the contract identified above, we asked to be informed about changes in the status of the property and production from it during the period of royalty obligation.

To assist you to furnish this information and to assure the accuracy of our records, please answer the questions on the back of this letter and return two copies to this office with copies of any pertinent documents.

Sincerely yours,

W. R. Griswold

W. R. Griswold, Chief
Division of Minerals

OFFICIAL FILE COPY
O. M. E.
RECEIVED MAR 18 1964

DATE	INITIALS	CODE
3/18		800
		100
3/18		110
	Griswold	500
		520

MME Form 63
Revised 3-62

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since January 1, 1962, has there been a change in ownership, lease, or sublease? If yes, please state details of the transaction below and provide a true or signed copy of the pertinent documents, unless they have been provided before. Yes ☐ No ☒

2. Since January 1, 1962, has there been any production from the land subject to the contract? Yes ☐ No ☒

   A. If so and it was shipped, give quantity, value, and name and address of purchaser.

	Quantity	Value

   B. If stockpiled awaiting sale, state quantity, grade, and location.

Type	Quantity		Estimated Grade	Location
Ore		Tons		
Concentrates		Tons		
Other		Tons		

3. Since , has any production been transported through workings (see of contract)? Yes ☐ No ☒

   A. If so, state quantity, value, and disposition of material.

Disposition of Material	Quantity	Value

Submitted by:

Name Geo. A. Prime Title

Address Nederland Colo. Date 3-16-64

4511

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
Building 20 - Federal Center
Denver, Colorado 80225

OFFICIAL FILE COPY
O. M. E
RECEIVED DEC 23 1963

DATE		CODE
	On leave	~~120~~ 800
12/30	~~[illegible]~~	~~500~~
December 17, 1963		
		220

Memorandum

To: George C. Selfridge, Chief
Division of Field Operations, OME
Washington, D. C. 80225

From: Acting Field Officer, OME, Region III

Subject: DMEA-3981 (Tungsten)
Contract Idm-E921
Elmer Hetzer, et al.
(Pennsylvania Lode)
Boulder County, Colorado

Attached are two copies of Mr. Sweeney's letter to me and two copies of my reply.

Mr. Joseph Rafter was very old and it is possible that he was dreaming about this shipment of ore for which we have no record.

In view of Mr. Sweeney's statement that we received all the royalty due, I recommend that we drop the case.

Hugh M. Connors

Hugh M. Connors

Attachments

Building 20 - Federal Center
Denver, Colorado 80225

December 17, 1963

O. M. E
RECEIVED DEC
DATE

Mr. Earl Sweeney
1061 Grant
Boulder, Colorado

Re: IMBA-3981 (Tungsten)
Contract Idm-E921
Elmer Retzer, et al.
(Pennsylvania Lode)
Boulder County, Colorado

Dear Mr. Sweeney:

Thank you for your letter of December 16, 1963 regarding a reported shipment of ore from the subject property.

Wishing you a Happy Holiday Season, I am

Sincerely yours,

Original signed by

Hugh M. Connors
Acting Field Officer, OME
Region III

cc Chief, Division of Field Operations, OME
w/copies of Mr. Sweeney's letter
Royalty Corres. E921
Chron
HMC/lm

Boulder, Colo.
Dec 16, 1963

Mr. Hugh M. Connors
Field Office, OME Region 3
Dept of Interior
Office of Minerals Exploration
Building 20 - Federal Center
Denver, Colo. 80225

OME
DEPARTMENT OF THE INTERIOR
DEC 17 1963
REGION III
DENVER, COLORADO

E 921

Dear Mr. Connors,

Referring to your letter of Dec 6 regarding one shipment from the Pennsylvania Lode, to the Wah Chang Mill at Sugar Loaf. I was running this mill for the Wah Chang Corp until July 1959, at which time I bought the Mill. If I recall correctly, the shipments you refer to were made the latter part of 1957. at any rate, it was up to the end of the Grant purchase program. The mining & shipping was done by Betasso Bros & Prime, and you should receive a copy of each & every settlement sheet along with the Royalty due on the OME Loan against the property.

Mr. Prime said you were investigating the possibility of a high grade shipment having been made that ran 30 or 40%. I don't recall such a shipment, but if it were made, it would have been a few hundred pounds

by the truck load had to be hand sorted to make them run around 1%. A small shipment such as this would probably be added to a truck load shipment. In any event, I assure you the royalty was paid on all ore received at the Mill.

You may check with Wah Chang Corp at their New York office, but you will find that the copies of all settlements in this office are exact copies of the ones sent to your dept.

Sincerely

Earl B. Lowery
1061 Grant
Boulder, Colo.

OME
DEPARTMENT OF THE INTERIOR
DEC 17 1966
REGION III
DENVER, COLORADO

Building 20 - Federal Center
Denver, Colorado 80225

OFFICIAL FILE COPY
RECEIVED DEC 9 1963

DATE		CODE
12/9		800
12/10	Murphy	500
		220

December 6, 1963

Mr. Earl Sweeney
1061 Grant
Boulder, Colorado

Re: DMEA-3981 (Tungsten)
Contract Idm-E921
Elmer Ratzer, et al.
(Pennsylvania Lode)
Boulder, County, Colorado

Dear Mr. Sweeney:

I have been informed that a shipment of ore from the captioned property was consigned to your mill several years ago by Mr. Joseph Rafter and Mr. George Prime.

Royalty on all production from this property is due the Government until February 21, 1966.

Will you please forward this office two copies of the settlement sheet for the lot of ore you received from Rafter and Prime.

Sincerely yours,

Initial signed by

Hugh M. Connors
Acting Field Officer, OME
Region III

cc Chief, Division of Field Operations, OME
Royalty Corres. Idm.E921
Chron
HMC/lm

OME
DEPARTMENT OF THE INTERIOR

DEC 6 1963
REGION III
DENVER, COLORADO

Dec. 5 - 1963
Nederland Colo.

Mr Hugh M. Conner's
Dear Sir:
I'm sorry I misplaced your first letter of March 26 - 1963.
In reply to your recent letter of November 21 - 1963:
On November 30th of this year I went to the mill, operated by Mr. Earl Sweeny and asked him about the shipment you refered too, in your letter.
To my knowledge, there was a small shipment of Sup to seven hundred pounds that ran between 6 to 7% in Tungsten.
Mr. Sweeny has the records on shipments that were

DME
DEPARTMENT OF THE INTERIOR

DEC 6 1953

sent into the mill. If you would like to check the records, I would suggest that you contact Mr. Sweeney at his home address 1061 Grant Boulder Colo.

Sincerely
Geo. H. Prime
Nederland Colo.
Box 242 - 80466

OFFICIAL FILE COPY

Building 20 - Federal Center
Denver, Colorado
80225

1963

CODE

120
~~200~~
500

~~11/22 Murphy~~

~~November 21, 1963~~

200

Mr. George Prime
P. O. Box 242
Nederland, Colorado

Re: DMEA-3981 (Tungsten)
Contract Idm-E921
Elmer Betzer, et al.
(Pennsylvania Lode)
Boulder County, Colorado

Dear Mr. Prime:

On March 26, 1963 I wrote you regarding a shipment of ore to the Sweeney Mill from the captioned property.

I have received no reply to that letter so I am again asking you if you can give me any information concerning that lot of ore, since Mr. Betzer had told us that he would contact you regarding the details of that shipment of ore.

I will appreciate very much receiving this information.

Sincerely yours,

Original Signed by

Hugh M. Connors
Acting Field Officer, OME
Region III

cc Chief, Division of Field Operations, OME
Royalty Corres E921
Chron
HMC/lm

Building 20 - Federal Center
Denver 25, Colorado
80225

Original
COPY
O. M. E
NOV 26 1963
RECEIVED
DATE

November 21, 1963

Mr. Harvey C. Craig
P. O. Box 150
Boulder, Colorado

Re: EMEA-3981 (Tungsten)
Contract I4m-E921
Elmer Betzer, et al.
(Pennsylvania Lode)
Boulder County, Colorado

Dear Harvey:

Thank you for your letter of November 19, 1963 which stated the whereabouts of Mr. George Prime.

I will be glad to see you when you come to the Federal Center and please be sure to look me up.

Best regards to you and Carl.

Original signed by

Hugh M. Connors
Acting Field Officer, OME
Region III

cc Chief, Division of Field Operations, OME
w/copy Mr. Craig's letter of 11/19/63
Royalty Corres. E921
Chron
HMC/lm

OME
DEPARTMENT OF THE INTERIOR
NOV 2 1 1963
REGION III
DENVER, COLORADO

Boulder, Colorado
November 19.1963

Mr. Hugh M. Connors
Acting Field Officer,OME
Region III
Building 20 - Federal Center
Denver, Colorado

Dear Hugh: Your letter of November 18th.

Mr. George Prime is still living in Nederland and is working at the Rex Mine for the Steen Mining Co. His Post Office Box is 242 but Nederland, Colorado should reach him.

The future of mining looks more encourageing and I hope to see you at the Federal Center before too long. Be sure to stop when and if you are in Boulder.

Belser sends his regards. If you need additional information on Prime, please advise,

Sincerely,

Harvey Craig

Harvey Craig
P.O. Box 150

Building 20 - Federal Center
Denver, Colorado
80225

November 18, 1963

OFFICIAL FILE COPY
O. M. E
RECEIVE NOV 21 1963

DATE	INITIALS	CODE
11/21	[illegible]	800
11/26	Murphy	500
		200

Mr. Harvey C. Craig
Craig & McCoy
250 Pearl Street
Boulder, Colorado

Re: DMEA-3981 (Tungsten)
Contract Idm-E921
Elmer Meter, et al.
(Pennsylvania Lode)
Boulder County, Colorado

Dear Harvey:

Will you please advise where I may contact Mr. George Prime? On March 26, 1963 I wrote him at Nederland, Colorado but received no reply and I am wondering his present whereabouts.

A self-addressed, franked envelope is enclosed for your reply and I thank you very much for your help in this matter.

Sincerely yours,

Original Signed

Hugh M. Connors
Acting Field Officer, OME
Region III

Enclosure

cc Chief, Division of Field Operations, OME
Royalty Corres. Idm E921
Chron

HMC/lm

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
11/13	Murphy	500
11/13	on leave	500
11/14	Talbert	800
	GCS	130
11/14	[illegible]	110
	[illegible]	100
		220

NOV 14 1963

Memorandum

To: Acting Field Officer, Region III

From: Chief, Division of Field Operations

Subject: DMEA-3981 (Tungsten)
Hetzer, Prime, Betasso, and Betasso
Pennsylvania Lode
Boulder County, Colorado
Contract Idm-E921

Kindly advise if you have received a reply to your letter of March 26, 1963, to Mr. George Prime, relating to production from the subject property.

George C. Selfridge (glr)

FMMurphy/mm
11/13/63
cc: Director's Reading File
Review Committee
Docket
Code 500

43683

OFFICIAL FILE COPY
O. M. E
RECEIVED APR 1 1963

DATE		
4/1	Check	8.00
	Returned	8.00
March 26, 1963		
		220

Building 20 - Federal Center
Denver 25, Colorado

Mr. George Prime
Nederland, Colorado

Re: DMEA-3981 (Tungsten)
Contract Idm-E921
Elmer Hatzer, et al.
(Pennsylvania Lode)
Boulder County, Colorado

Dear Mr. Prime:

We were sorry to hear of the death of Mr. Joseph Rafter. I heard of Mr. Rafter's death when I was in Boulder last week where I had gone to see him regarding a shipment of ore that you and he had made to the Sweeney Mill. Mr. Rafter had told us that he would contact you regarding the details of that shipment of ore.

I will appreciate receiving any information you can give me concerning that lot of ore and if you can give me the approximate date of the shipment that also will be helpful.

Enclosed is a self-addressed franked envelope for your reply.

Sincerely yours,

Original signed by

Hugh M. Connors
Acting Field Officer, OME
Region III

Enclosure
cc Chief, Division of Field Operations, OME
Royalty Corres. E921
Chron
HMC/lm

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
Building 20 - Federal Center
Denver 25, Colorado

OFFICIAL FILE COPY
O. M. E
RECEIVED MAR 25 1963

DATE		
March 21, 1963		800
		~~120~~
		~~500~~
		220

Memorandum

To: George C. Selfridge, Chief
Division of Field Operations, OME
Washington 25, D. C.

From: Acting Field Officer, OME, Region III

Subject: DMEA-3981 (Tungsten)
Contract Idm-E921
Elmer Hetzer, et al.
(Pennsylvania Lode)
Boulder County, Colorado

This responds to your memorandum dated November 21, 1962 on the subject contract.

I held your memorandum too long.

I learned today on my trip to the Katie mine that Mr. Rafter died six weeks ago. I was unable to contact George Prime and my main source of Boulder County mining information, Mr. Harvey Craig, was out of town.

I will followup on this next week and advise you.

Hugh M. Connors

Hugh M. Connors

Building 20 - Federal Center
Denver 25, Colorado

OFFICIAL FILE COPY
O. M. E
RECEIVED JAN 18 1963

DATE	INITIALS	
1.18	Holt	5-00
		220

January 16, 1963

Memorandum

To: Fiscal Section, Division of Administrative Services
Office of the Secretary, Department of the Interior
Washington 25, D. C.

From: Acting Field Officer, OME, Region III

Subject: [illegible]-3981 (Tungsten)
Contract Idm-E921
Batzer, Prime, Batzner, and Batzner
(Pennsylvania Lode)
Boulder County, Colorado

Attached is the original Report of Royalty Review dated January 7, 1963 on the subject property covering the period August 15, 1959, through December 31, 1962.

Richard [illegible]

Hugh M. Connors

Attachments

cc Chief, Division of Field Operations, OME
E. D. Talbert, Acting Chief
Contract Administration and Audit Division
Royalty Corres. Idm-E921
Chron

HMC/lm

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
		220

JAN 10 1963

Memorandum

To: Acting Field Officer, Region III

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

Subject: DMEA-3981 (Tungsten)
Hetzer, Prime, Betasso, and Betasso
Pennsylvania Lode
Boulder County, Colorado
Contract Idm-E921

The original and one copy of a Report of Royalty Review covering the subject contract are enclosed. If you concur in the facts stated therein, please make the following distribution:

(a) Original to the Fiscal Section, Division of Administrative Services, Office of the Secretary, U. S. Department of the Interior, Washington 25, D. C.; and

(b) One copy for your files.

This Report of Royalty Review is made for record purposes only; therefore, no copy for the Operator is provided.

As evidence of your concurrence, a copy of your memorandum transmitting the original report to the Fiscal Section should be furnished this Division. If for any reason you do not concur, both copies of the report should be returned to this Division with your comments.

Enclosures

EDTalbert/ama 1-10-63

cc:
Docket
Director's Reading File
CA & A Division
Fiscal Section

43683

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

Mr. Joseph Rafter
817 Pearl Street
Boulder, Colorado

NOV 21 1962

Re: DMEA-3981 (Tungsten)
Elmer Hetzer, et al.
Pennsylvania Lode
Boulder County, Colorado
Contract Idm-E921

Dear Mr. Rafter:

We thank you for the information contained in your letter replying to our Form 63 Request for Information on Certified Project and Project under Royalty Agreement, dated October 19, 1962.

We will greatly appreciate receiving any information you may obtain from Mr. George Prime, with whom you stated you would take up the matter of the shipment of tungsten concentrate, assaying 31.7%, sent to Sweeney's mill.

As you requested, enclosed is a true copy of the Consent to Lien signed by you on December 30, 1955, in connection with the subject contract.

Sincerely yours,

W R Griswold

W. R. Griswold, Chief
Division of Minerals

Enclosure

Dec 23-1962

I made a mistake sending you the wrong ore returns. it was ore shiped from the Roosevelt Lode by Paul Ruether, and assaying 31.7 W.O 3 -and not from the Pennsylvania Lode

Joseph Rafter

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
11/21	Holt	500
	Griswold	500
	Selfridge	120
11/21	Johnson	110
11	Ferrick	100
		220

NOV 2 1 1962

Mr. Joseph Rafter
817 Pearl Street
Boulder, Colorado

Re: DMEA-3981 (Tungsten)
Elmer Hetzer, et al.
Pennsylvania Lode
Boulder County, Colorado
Contract Idm-E921

Dear Mr. Rafter:

We thank you for the information contained in your letter replying to our Form 63 Request for Information on Certified Project and Project under Royalty Agreement, dated October 19, 1962.

We will greatly appreciate receiving any information you may obtain from Mr. George Prime, with whom you stated you would take up the matter of the shipment of tungsten concentrate, assaying 31.7%, sent to Sweeney's mill.

As you requested, enclosed is a true copy of the Consent to Lien signed by you on December 30, 1955, in connection with the subject contract.

Sincerely yours,

W. R. Griswold

W. R. Griswold, Chief
Division of Minerals

Enclosure

SPHolt/mm
11-20-62
cc: Director's Reading File
Region III w/2 copies of incoming letter
Docket
Code 500

43683

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
11/21	Holt	500
	[illegible]	600
	GCS	120
11/21	Johnson	110
11	[illegible]	100
		220

NOV 2 1 1962

Memorandum

To: Acting Field Officer, Region III

From: Chief, Division of Field Operations

Subject: [illegible]A-3901 (Tungsten)
Elmer Metzer, et al.
Pennsylvania Lode
Boulder County, Colorado
Contract Idm-E921

Please note the enclosed copies of letter from Joseph Rafter, and our reply concerning the subject project.

As we have not been able to locate in our files any record of the shipment mentioned by Mr. Rafter, it will be appreciated if, at any time you or anyone from your office has occasion to visit the Boulder district, inquiry be made concerning the shipment.

Enclosure

George C. Selfridge (gla)

SPHolt/mm
11-20-62
cc: Director's Reading File
~~K&G~~ Docket
Code 500

43683

United States
Dept of the Interior
Office of mineral Exploration
Washington D.C.

Dear Sir:- Received your request for information regarding Elmer Hetzer et al lease on the Pennsylvania lode, will say to my knowledge, only one shipment was made during lease that, to secretary's will at Sugar Loaf Boulder Colo. it ran 31.7% will have to take the matter up with George Prime his partner in the lease for further data. this property has been idle since they quit two years ago. understand they left many ore that wasn't shipped. Elmer Hetzer died last year, but George Prime is still alive at this time don't remember that I signed a lease please send a copy of it. I have not sold lease or sublessed yet

Yours truly
Joseph Rotter
817 Pearl St
Boulder Colo

OFFICIAL FILE COPY
O. M. E
RECEIVED NOV 19 1962

DATE		
11/20	~~Tolt~~ S.T.H.	SVV

DMEB
3981

AFTER FIVE DAYS RETURN TO

Joseph Rafter
817 Pearl St.
Boulder Colorado

BOULDER
NOV 15
1 PM
1962
COLO.

United States Dept. of the Interior
Office of Minerals Exploration
Washington D. C.

#1-INSTRUCTIONS TO DELIVERING EMPLOYEE

☐ Delive[illegible]ILY to addres[illegible]

☐ Show address where delivered

(Additional charges required for these services)

RETURN RECEIPT

Received the numbered article described on other side.

SIGNATURE OR NAME OF ADDRESSEE *(must always be filled in)*

SIGNATURE OF ADDRESSEE'S AGENT, IF ANY

Mrs Dana L Rafter

DATE DELIVERED

NOV 13 1962

ADDRESS WHERE DELIVERED *(only if requested in item #1)*

C55—16—71548-4 GPO

3981

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

October 19, 1962

Re: DMEA-3981 (Tungsten)
Elmer Hetzer, et al.
Pennsylvania Lode
Boulder County, Colo.
Contract Idm-E921

REGISTERED MAIL
RETURN RECEIPT REQUESTED

Mr. Joseph Rafter
Sugar Loaf Star Route
Boulder, Colorado

Dear Mr. Rafter;

After the completion of the approved exploration work under the contract identified above, we asked to be informed about changes in the status of the property and production from it during the period of royalty obligation.

To assist you to furnish this information and to assure the accuracy of our records, please answer the questions on the back of this letter and return two copies to this office with copies of any pertinent documents.

This is with reference to the Consent to Lien signed by you December 30, 1955. We will appreciate any information you can give us.

Sincerely yours,

W R Griswold

W. R. Griswold, Chief
Division of Minerals

OFFICIAL FILE COPY
O. M. E.
RECEIVED DEC 28 1962

DATE	INITIALS	CODE
12/27	MW	800
		~~120~~
12/27		~~110~~
12/28	~~MOT~~ S.1944	~~500~~ ✓
		220

MME Form 63
Revised 3-62

DMEA-3981
Idm-E921

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since February 19, 1960, has there been a change in ownership, lease, or sublease? If yes, please state details of the transaction below and provide a true or signed copy of the pertinent documents, unless they have been provided before. Yes ☐ No ☒

2. Since February 19, 1960, has there been any production from the land subject to the contract? Yes ☐ No ☒

   A. If so and it was shipped, give quantity, value, and name and address of purchaser.

	Quantity	Value

   B. If stockpiled awaiting sale, state quantity, grade, and location.

Type	Quantity	Estimated Grade	Location
Ore	None Tons		
Concentrates	Tons		
Other	Tons		

3. Since , has any production been transported through workings (see of contract)? Yes ☐ No ☒

   A. If so, state quantity, value, and disposition of material.

Disposition of Material	Quantity	Value

Submitted by:

Name Joseph Rafter Title Pennsylvania Lode

Address 817 Pearl St Date Dec 23-1982

Boulder Colorado

4511

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

August 31, 1962

Re: DMRA-3981 (Tungsten)
Elmer Hetzer, et al.
Pennsylvania Lode
Boulder County, Colo.
Contract Idm-E921

Mr. Joseph Rafter
Sugar Loaf Star Route
Boulder, Colorado

Dear Mr. Rafter:

After the completion of the approved exploration work under the contract identified above, we asked to be informed about changes in the status of the property and production from it during the period of royalty obligation.

To assist you to furnish this information and to assure the accuracy of our records, please answer the questions on the back of this letter and return two copies to this office with copies of any pertinent documents.

This is with reference to the Consent to Lien signed by you December 30, 1955. We will appreciate any information you can give us.

Sincerely yours,

W. R. Griswold

W. R. Griswold, Chief
Division of Minerals

MME Form 63
Revised 3-62

DMEA-3981
Idm-E921

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since **February 19, 1960**, has there been a change in ownership, lease, or sublease? If yes, please state details of the transaction below and provide a true or signed copy of the pertinent documents, unless they have been provided before. Yes ☐ No ☐

2. Since **February 19, 1960**, has there been any production from the land subject to the contract? Yes ☐ No ☐

   A. If so and it was shipped, give quantity, value, and name and address of purchaser.

	Quantity	Value
_____	_____	_____
_____	_____	_____

   B. If stockpiled awaiting sale, state quantity, grade, and location.

Type	Quantity		Estimated Grade	Location
Ore	_____	Tons	_____	_____
Concentrates	_____	Tons	_____	_____
Other	_____	Tons	_____	_____

3. Since _____, has any production been transported through _____ workings (see _____ of contract)? Yes ☐ No ☐

   A. If so, state quantity, value, and disposition of material.

Disposition of Material	Quantity	Value
_____	_____	_____

Submitted by:

Name _____ Title _____

Address _____ Date _____

4511

OFFICE OF MINERALS EXPLORATION

REGION III

Statement in Lieu of Interim Report
of Certified Project

Reporting Period: January 1, 1959 through February 19, 1960

Docket and Contract Number: DMEA-3981, Idm-E921 (Tungsten)

Operator: Elmer Hetzer etal (Pennsylvania mine)
Boulder County, Colorado

The project has been inactive during the reporting period [x]

Pertinent data relative to the subject contract has remained unchanged since the last report [ ]

Remarks:

The Watchman for Cold Spring reported no activity on this property during the reporting period.

Signed H. M. Connors
H. M. CONNORS

Date February 23, 1960

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
8/21	Alley	800
8/21	Fisher	800
8/24		~~220~~
		22J

AUG 21 1959

Memorandum

To: Mr. Donald T. Finch, OME Auditor

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

Subject: Docket No. DMEA-3981 (Tungsten)
Consuelo Hetzer, Executrix, Estate of William Hetzer,
George Prime, Ernest Betasso and Richard Betasso
Contract No. Idm-E921

? Ethel

Your Report of Royalty Review on the subject project is acceptable and normal distribution is authorized after changing the docket number in the heading on page 2 to DMEA-3981.

AMAlley/ama
August 21, 1959

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

43683

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
224 New Customhouse
Denver 2, Colorado

February 18, 1958

DMEA
FEB 21 1958
2/21 C 220
2/21 Com 100
" 110
2/24 EEF 800
225

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Semiannual Report of Certified Project for the period July 1, 1957 to December 31, 1957

DMEA Docket 3981 (Tungsten)
Contract Idm-E 921, Elmer Hetzer et al.) (Pennsylvania lode)
Boulder County, Colorado

Enclosed are the original and three copies of the subject report prepared in conformance with instructions contained in memorandum of January 6, 1956 from this office, Memorandum 29, and Special Notice in Minutes of Operating Committee Meeting No. 692.

WH King
Executive Officer, DMEA
Field Team, Region III

Enclosures
MHM:jy

cc: Semiannual Report File E921
Harshman
DMEA,DFC - 2
Chron.

DMEA
DEPARTMENT OF THE INTERIOR

FEB 10 1958
REGION III
DENVER, COLORADO

DMEA, REGION III

Statement in Lieu of Semiannual Report

Reporting Period July 1, 1957, to December 31, 1957.
Docket and Contract Number DMEA 3981, Idm-E921
Operator Elmer Hetzer et al (Pennsylvania lode), Boulder County, Colo.

The project has been inactive during the reporting period [X]

Pertinent data relative to the subject contract has remained unchanged since the last report [X]

Remarks:

No work has been done on the property in the past seven months. All machinery, except small pieces, is still at the property. Williams and Betasso are employed by the Boulder Sand and Gravel Company, and Barney Prime is working on the Moffat water tunnel.

Signed Carl Belser

Carl Belser

Date February 6, 1958

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DMEA
RECEIVED SEP 23 1957

DATE	INITIALS	CODE
9/23	C	220
"	Conu	100

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
224 New Customhouse
Denver 2, Colorado

September 19, 1957

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Semiannual Report of Certified Project for the period January 1, 1957 through June 30, 1957
DMEA Docket 3981 (Tungsten)
Contract Idm-E 921, Elmer Hetzer, et al (Pennsylvania Lode), Boulder, County, Colorado

Enclosed are the original and three copies of the subject report prepared in conformance with instructions contained in memorandum of January 6, 1956 from this office, Memorandum 29, and Special Notice in Minutes of Operating Committee Meeting No. 692.

J W Lansund

Alternate Acting Executive Officer
DMEA Field Team, Region III

Enclosures
MHM/vj

cc: Semiannual Report File E 921
DMEA/DFC (2)
Harshman
Chron.

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DMEA
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DATE | INITIALS | CODE

Semiannual Report of Certified Projects

Reporting Period	January 1, 1957 through June 30, 1957
Docket and Contract Number	DMEA 3981, Contract Idm-E921
Operator	Elmer Hetzer, et al
Commodity	Tungsten
Mine Name	Pennsylvania Lode
County and State	Boulder County, Colorado
Date of Contract	February 21, 1956
Date of Certification	March 29, 1957
Expiration Date of Royalty Payments	February 21, 1966
Date of Examination for this Report	September 11, 1957
Total Amount of Contract	$16,100.00
Total Expenditures under Contract	$13,530.00
Amount of Government Participation at 75 %	$10,147.50
Royalty Payments this Period	$4.56
Previous Royalty Payments	$14.41
Total Royalty Payments to Date	$18.97
% Loan Repayment Completed	0.19%
Amount of Royalty Due	None
Royalty Remarks	No market for ore

		Tons	WO_3 Analysis
Original Estimate of DMEA Reserve (Field Team Final Report) Mines [ ] Survey [ ] Joint [X]	Indicated	465	423 Stu
	Inferred	232	211
		697	634
Revised Estimate of DMEA Reserves (Field Team) Mines [X] Survey [ ] Joint [ ]	Indicated	413	388.4
	Inferred	232	211.0
		645	599.4
Increase of Reserves by work performed subsequent to DMEA project work			
Production DMEA ore	(This period)	* 10.170	7.12 Stu
	(Previous)	41.618	401.20
	(To Date)	51.788	5354.88
" Operator's ore found subsequent to DMEA work	(This period)		
	(Previous)		
	(To date)		

Percent Revised Reserves Mines 0.07% * Lot No. 380

(For Uranium Ores Only)

Initial Production Bonus:

Status of Operator: Ineligible [X] Applied for [ ] Rec'ing pmt [ ] Paid up [ ]

Pounds U_3O_8 produced this period eligible for Bonus _____

Amount of Bonus paid to Operator this period $_____

Total pounds U_3O_8 produced to date eligible for Bonus _____

Total amount of Bonus paid to Operator to date $_____

Bonus Royalty Paid $_____

Bonus Royalty Due $_____

Investment Data

Shafts

Size	Feet	Cost
4'x 8'	75'	$6,000.00
Total	80'	($80.00/ft)

Winzes

Size	Feet	Cost

Drifts & Crosscuts

Size	Feet	Cost
5'x 7'	250	$7,500.00
Total	291.5	($30.00/ft)

Raises

Size	Feet	Cost
4'x 10'	100	since contract

Drilling

Type & Size	Feet	Cost

Rehabilitation

Description	Cost

Facilities

Mine Plant

Description	Cost

Mill

Description	Cost

Roads

Description	Cost

Remarks

The mine is closed and full of water. All equipment is at mine. Seventy feet west of crosscut the ore stripped in a 15-foot raise is estimated to contain from 2 to 3 percent WO_3.

Signed Carl Baker (Engineer)

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
3/19	Holt	400
3/19	Martin	400
3-21	Chandler	800
	Rubin	140
	Dunger	140
3/28	Selbridge	130
"	Johnson	110
"	Mittendorf	100
		220

Holliday
Lamb
Kiilsgaard

MAR 29 1957

Mr. Ernest Betasso, Attorney in Fact
Hetzer, Prime, Betasso and Betasso
Sugar Loaf Star Route
Boulder, Colorado

Re: Docket No. DMEA 3981 - Tungsten
Pennsylvania Lode
Boulder County, Colorado
Contract No. Idm-E921

Dear Mr. Betasso:

Enclosed is a certification of discovery or development which covers all the land described in Article 2 of the contract.

By the terms of the Exploration Project Contract, as amended, and of the certification all minerals mined or produced from February 21, 1956, to February 21, 1966, are subject to the Government's percentage royalty as set forth in the contract until the sum of $10,147.50 is paid.

You should continue making royalty payments, as you have been doing, to Mr. E. N. Harshman, Acting Executive Officer, DMEA Field Team, Region III, 224 New Customhouse, Denver 2, Colorado. Checks should be made to the Defense Minerals Exploration Administration. The purchaser should be advised to deduct royalties from the amount due on each shipment and forward check direct to the Acting Executive Officer. Royalty payments to the Government should be accompanied by suitable evidence, such as settlement sheets, showing quantity and grade of the products sold, the name of the purchaser, and the charges certified to be correct by the purchaser.

You are requested to notify Mr. Harshman of any changes in ownership or production rights that might have any effect on the Government's right to its percentage royalty. Also, if production ceases at any time for any extended period, please notify Mr. Harshman at 6-month intervals that no production has been made, when that is the case.

Sincerely yours,

C. O. Mittendorf

Administrator

Enclosure

SPHolt:am 3/19/57
cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.
Audit Division
FT REG III

cc to: Messrs. F. D. Lamb, USBM
R. Holliday, USBM
T. Kiilsgaard, USGS
F. E. Johnson - 110

Joseph Rafter

8623

DMEA Form 7
(12-56)

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Date	Surname	Code
3/19	Holt	400
3/19	Martin	400
3-21	Chambers	800
		140
		140
3/28	Eldridge	130
"	Johnson	110
"	Mittendorf	100
		220

MAR 29 1957

Mr. Joseph Rafter
Sugar Loaf Star Route
Boulder, Colorado

Re: Docket No. DMEA 3981 - Tungsten
Elmer Hetzer et al
Pennsylvania Lode
Boulder County, Colorado
Contract No. Idm-E921

Holliday
Lamb
Kiilsgaard

Dear Mr. Rafter:

Enclosed is a copy of a certification of discovery or development, with copy of covering letter to the Operator, which has been issued pursuant to the terms of the above-cited contract.

This correspondence relates to the Owner's Consent to Lien signed by you on December 30, 1955. The Government's prior lien on the land and upon any production therefrom will continue in existence for the length of time mentioned in the enclosed copy of the letter to the Operator. You are obligated during that period to commit no act and to assert no claim in conflict with the Government's rights under the agreement signed by you, and to give advance notice of the Government's rights to any transferee or lessee of any part of your interest in the land or production therefrom.

Sincerely yours,

C. O. Mittendorf

Administrator

Enclosure

SPHolt:am 3/19/57
cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.
FT REG III
Audit Division

cc to: Messrs. F. D. Lamb, USBM
R. Holliday, USBM
T. Kiilsgaard, USGS
F. Johnson - Code 110

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
3/19	Holt	400
3/19	Martin	400
3-21	Chandler	800
		140
		140
3/28	Gallidge	130
4	Johnson	110
4	Mittendorf	100
		220

MAR 29 1957

Mr. Clarence A. Fredell, Acting Director
Technical Services Division
Defense Materials Service
General Services Administration
7th and D Streets, S. W.
Washington 25, D. C.

Re: Docket No. DMEA 3981 - Tungsten
Elmer Hetzer et al
Pennsylvania Lode
Boulder County, Colorado
Contract No. Idm-E921

Holliday
Lamb
Kiilsgaard

Dear Mr. Fredell:

Contract No. Idm-E921 for the exploration of the Pennsylvania Lode tungsten deposits was executed February 21, 1956. Expenditures up to $16,100.00 were authorized by the contract, of which the Government's share at 75 percent was $12,075.00. Cost of the work completed was $13,530.00, of which the Government's share was $10,147.50.

The object of the exploration program was to test the possible tungsten occurrences along and near the Pennsylvania quartz-feldspar vein in granite. The program employed shaft sinking and drifting to explore the mineralized zone.

The contract provided for sinking 75 feet of inclined shaft, 250 feet of drifting from the new bottom of the shaft, and 50 feet of raising. Work completed comprised 75 feet of shaft sinking and 250 feet of drifting.

Tungsten ore discovered by project work was estimated by the Field Team as about 700 tons of indicated and inferred ore, average grade 0.9 percent WO_3, containing about 630 short ton units of WO_3.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

Enclosure

SPHolt:am 3/19/57
cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.
Audit Division

cc to: FT REG III
Messrs. F. D. Lamb, USBM
T. H. Kiilsgaard, USGS
R. Holliday, USBM
F. E. Johnson - 110

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		225

March 15, 1957

3981
Idm-E921
Tungsten
Hetzer, Prime, Betasso Partshp.
Pennsylvania Lode
Boulder County, Colorado

W. S. Martin, Chief, Iron and Ferroalloys Division-DMEA HWR
Through: Chief, Br. of Ferrous Metals & Ferroalloys

R. W. Holliday, Commodity Specialist, Branch of Ferrous Metals & Ferroalloys

Final Report

2/18/57 3/6/57

Yes [ ] No [x]

Yes [ ] No [x]

Yes [ ] No [x]

Yes [ ] No [x]

e. Proposed exploration method [ ]
f. Alternate exploration method [ ]
g. Costs [ ]
h. ______ [ ]

e. Disagree with Field Team [ ]
f. Suggest alternate plan [ ]
g. Request another examination [ ]
h. Approval [ ]

d. [x]

Although only a small quantity of ore was developed it is recommended that a Certification of Discovery be made.

R W Holliday
R. W. Holliday

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

224 New Customhouse
Denver 2, Colorado

February 20, 1957

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DATE	INITIALS	CODE
2/25	C	220
2/26/57	Feg	730
3/4	C	220
4	Com	100

Memorandum

To: Chairman, Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Docket No. DMEA 3981 (Tungsten), Contract No. Idm-E921, Hetzer, Prime, Betasso and Betasso, a Partnership (Pennsylvania Lode), Boulder County, Colorado - FINAL Report

Enclosed are the original and three copies of a joint final engineering and geologic report, dated February 18, 1957, by Walden P. Pratt, Geologist, Geological Survey, and Carl Belser, Mining Engineer, Bureau of Mines, and transmittal thereof, dated February 19, 1957, from John F. Shaw and E. N. Harshman, pertaining to work completed under the subject Contract.

The original and one copy of the Operator's final report were forwarded by memorandum of December 6, 1956.

The Contract was terminated before completion of all work provided for in the Contract by an Agreement, dated November 9, 1956, which was made effective September 30, 1956.

The exploration work completed consisted of 75 feet of incline shaft sinking and 250 feet of drifting, at a total accepted cost of $13,530.00, toward which the Government contributed 75%, or an amount of $10,147.50.

Final payment to the Operator was processed by this office December 18, 1956, in conformance with the Report of Review of reported project costs by the Contract Administration and Audit Division, DMEA, dated December 18, 1956.

Reviewed by
DMEA OPERATING COMMITTEE
3-1-57
(date)

The exploration work resulted in the discovery or development of an estimated 465 tons of indicated ore and 232 tons of inferred ore, estimated to contain 423 and 211 short ton units WO_3, respectively.

Under the circumstances, it is recommended that the project be certified as a discovery or development.

DMEA Field Team, Region III

W. M. Traver

E. N. Harshman

Enclosures

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Defense Minerals Exploration Administration
Denver Federal Center
Denver, Colorado

DMEA
DEPARTMENT OF THE INTERIOR
FEB 19 1957
REGION III
DENVER, COLORADO

February 19, 1957

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: John F. Shaw
E. N. Harshman

Subject: DMEA Docket 3981 (Tungsten), Contract Idm-E 921, Elmer Hetzer et al., (Pennsylvania lode), Boulder County, Colorado

Enclosed are the original and eight copies of a joint final report describing the results of exploration under the subject contract.

The contract, signed February 21, 1956, provided for 75 feet of shaft sinking, 250 feet of drifting and 50 feet of raising at a estimated total cost of $15,294.16. Work began March 5, 1956, and on September 20, 1956, the shaft sinking and drifting were completed. At the request of the operator the contract was terminated without completing the 50 feet of raising. The effective date of termination was September 20, 1956. Total cost of the project was $13,530, Government participation 75 percent or $10,147.50.

The exploration resulted in the discovery of indicated and inferred ore reserves containing about 633 short-ton units of WO_3,

An attempt is being made to mine the ore and it is recommended that a Certificate of Discovery be issued. Additional exploration may be warranted but is not recommended at this time.

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[redacted]
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		220

Enclosures (9)

John F. Shaw
Supervising Mining Engineer

E. N. Harshman
Member, Field Team

Reviewed by
DMEA OPERATING COMMITTEE
3-1-57
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
FRED A. SEATON, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

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DMEA 3981

Contract Idm-E 921

Elmer Hetzer, et al.

Pennsylvania lode

Boulder County, Colorado

Tungsten

Joint Final Engineering and Geological Report

by

Walden P. Pratt, Geologist
Geological Survey

Carl Belser, Mining Engineer
Bureau of Mines

February 18, 1957

Reviewed by
DMEA OPERATING COMMITTEE
3-1-57
(date).

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Location and geography..... 2

History and production..... 3

Ownership and extent..... 3

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Description of work performed..... 8

Cost of the project..... 9

Results of the project and ore reserves..... 9

Conclusions and recommendations..... 11

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ILLUSTRATIONS

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1.	Index map of the Boulder County tungsten district, Colorado, showing location of the Pennsylvania lode	2
2.	Map of the Pennsylvania group of mining claims, Boulder County, Colorado, showing applicants' property rights	11
3.	Longitudinal section along the Pennsylvania lode, Boulder County, Colorado, showing location and extent of recommended exploration	6
4.	Geologic plan and section of the Pennsylvania mine, Boulder County, Colorado	6

DMEA 3981

Contract Idm-E 921

ELMER HETZER, ET AL.
PENNSYLVANIA LODE
BOULDER COUNTY, COLORADO

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INTRODUCTION

A partnership composed of Elmer Hetzer (now deceased and replaced by the Estate of Elmer Hetzer), Richard Betasso, Ernest Betasso, all of Boulder, Colorado, and George Prime of Nederland, Colorado, applied for Government aid in exploring for tungsten on the patented Pennsylvania lode mining claim in the Sugar Loaf mining district, Boulder County, Colorado.

The application, Docket DMEA 3981, was submitted on September 16, 1955. The project proposed by the applicant consisted of 75 feet of sinking, 250 feet of drifting, and 50 feet of raising at a total estimated cost of $15,294.16.

The property was inspected by an examining team on November 3, 1955, and the project was recommended at a revised estimated cost of $15,600. A contract (Idm-E 921) was signed on February 21, 1956; work began March 5, 1956, and the shaft and 250 feet of drifting was completed by September 20, 1956.

At the request of the operator the contract was terminated on November 9, 1956; effective date of termination, was September 30,

Reviewed by
DMEA OPERATING COMMITTEE
3-1-57
(date)

1956. Work completed consisted of 75 feet of shaft sinking and 250 feet of drifting at a total cost of $13,530. Government participation at 75 percent was $10,147.50.

LOCATION AND GEOGRAPHY

The greater portion of the property is in the NW 1/4 sec. 31, T. 1 N., R. 71 W., 6th P.M., Boulder County, Colorado (figs. 1 and 2); a small portion extends westerly into the adjoining township. The property lies on the west side of Black Tiger Gulch, a tributary of Middle Boulder Creek. It is 5-1/2 miles due west of Boulder, Colorado, and about 7 miles northeast of Nederland, Colorado.

The property is accessible over a steep, rough mine road that branches north from State Highway 119 about 5 miles west of Boulder. The mine road extends up Black Tiger Gulch past the property, and eventually connects with the county road through Bummer Gulch.

The area is characterized by rounded mountain tops and flat ridges separated by broad valleys and steep canyons. The general level of the upland surface ranges in altitude from about 7,500 feet in the eastern part to 8,500 feet in the western part. The altitude at the property ranges from 7,000 to 7,400 feet.

Red spruce, suitable for mining purposes, grows on the property. Water for mining purposes can be pumped from the mine. The service

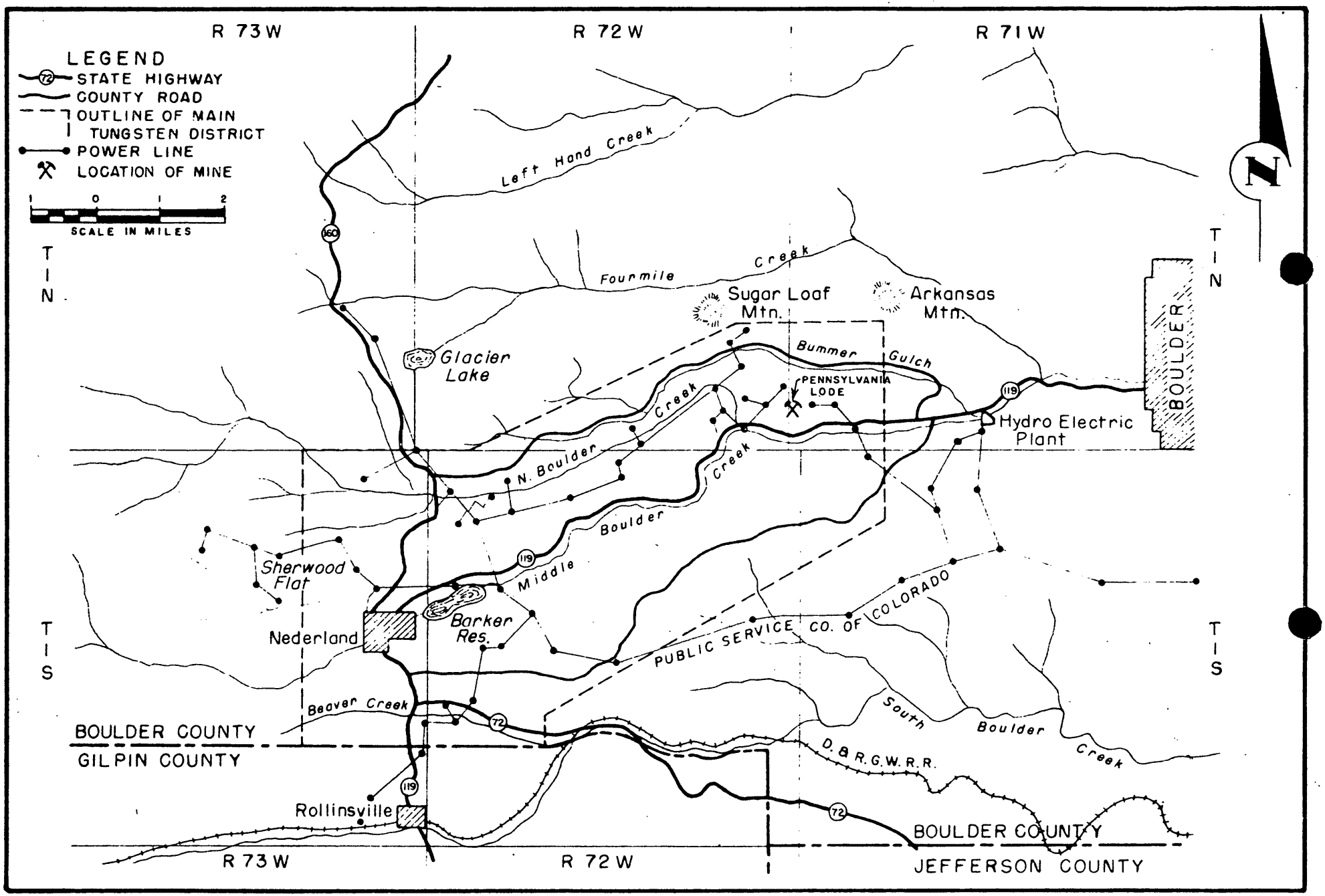

FIGURE 1 - INDEX MAP OF THE BOULDER COUNTY TUNGSTEN DISTRICT, COLO., SHOWING LOCATION OF THE PENNSYLVANIA LODE. (ELMER HETZER ET AL., DMEA 3981)

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FEB 25 1957
D.M.E.A.

lines of the Public Service Company of Colorado pass within half a mile of the property. Ore can be concentrated in mills in Bummer Gulch and Nederland. Labor can be obtained in the district. Boulder is the nearest supply point and railhead.

HISTORY AND PRODUCTION

The Comet claim was located November 4, 1902, and the Pennsylvania claim February 18, 1916. Both claims were patented September 18, 1916. Very little work was done on the claims and only a small amount of ore has been shipped.

The property is in a highly productive area which includes the Roosevelt, Annie L., Black Prince, Pueblo Belle, Good Friday, and Eureka mines, whose past production is estimated to be about 140,000 short-ton units of WO_3.

OWNERSHIP AND EXTENT

The patented Pennsylvania and Comet mining claims (Sur. No. 19,740) are owned by Joseph Rafter (fig. 2). The Pennsylvania claim is a prior location and takes precedence over the conflicting Susie L. claim (Sur. No. 18,036). The unpatented Thanksgiving claim was staked by the operator on November 26, 1955, and is recorded in Book 998 page 106 of the records of Boulder County.

The Pennsylvania and Comet claims were leased to the operator by Joseph Rafter on August 24, 1955. The lease is for a period of five years.

PREVIOUS DEVELOPMENT

Prior to the DMEA project, the property was developed only by old prospect pits and trenches along the outcrop of the Pennsylvania vein, and one recent shaft on the vein sunk to a depth of 15 feet. The shaft was cribbed to its foot, divided to provide for manway and hoisting compartments, and covered by a headframe with facilities for dumping a shaft bucket.

GEOLOGY

District setting

The Boulder County tungsten district is at the northeast end of the Front Range Mineral Belt. The district is underlain by Precambrian rocks including coarse-grained gneissic granite (quartz monzonite), schist, gneiss, pegmatite, and aplite. The Precambrian rocks are intruded by dikes of various rock types all believed to be Tertiary in age.

The most conspicuous structural feature in the district is a series of persistent northwest-striking brecciated zones known as breccia reefs. They are probably Paleocene in age and pre-date the northeasterly- to easterly-trending fractures that contain the ferberite-bearing veins.

Pennsylvania lode

The property is in the eastern part of the Boulder tungsten district and is underlain by gneissic granite of the Boulder Creek batholith. Dikes of aplite are exposed on and adjacent to the claims. The Livingston breccia reef is exposed just east of the Pennsylvania claim and a very prominent gabbro dike outcrops a few hundred feet east of the breccia reef.

The Pennsylvania vein is exposed intermittently for a distance of some 340 feet on the northeastern end of the Pennsylvania claim. On the surface it is a strong structure consisting of 2 to 5 feet of pegmatitic vein material, primarily feldspar and quartz, containing some horn quartz and significant amounts of ferberite. The vein strikes about N. 75° E. and dips 60° to 80° northwest.

Ferberite is present as a fine- to moderately coarse-grained cement in brecciated vein material and as fillings along minor fractures. It is disseminated throughout the width of the vein. One sample taken across a 5-foot width of the vein exposed in a

shallow trench on the Pennsylvania claim (RLB-136 on fig. 3) assayed 2.16 percent WO_3 and only 0.01 percent phosphorous. A composite sample derived from several selected specimens of the more highly mineralized vein material that were obtained from the various surface exposures of the structure assayed 4.88 percent WO_3 and 0.02 percent phosphorous. As exposed in the drift (fig. 4) the vein is much thinner and less continuous than on the surface. From the east end of the drift to a point 100 feet west the vein is about 6 inches thick and consists of fine-grained veinlets and fillings of ferberite and horn-quartz in a brecciated granite. At 100 feet it widens to a 2-foot zone of clay and ferberite-bearing quartz, but a few feet west disappears in the footwall; where it reappears it has thinned to a few inches, and slightly farther west the quartz becomes barren. The barren vein continues about 35 feet to an 18-foot length of ferberite-bearing horn quartz, 1 to 2 inches thick, and then is barren again. In the last 45 feet of the drift the fine-grained ferberite and quartz is less than an inch thick. In the face the vein occupies a fault cutting 1-foot wide coarse, white, granite dike in the wall rock; a subsidiary 1/2- to 1-inch ferberite-quartz vein with opposite dip approaches the main vein but does not join it. In summary, the vein is about 6 inches thick and continuous in the easternmost 100 feet of the drift, but farther west is thin and discontinuous.

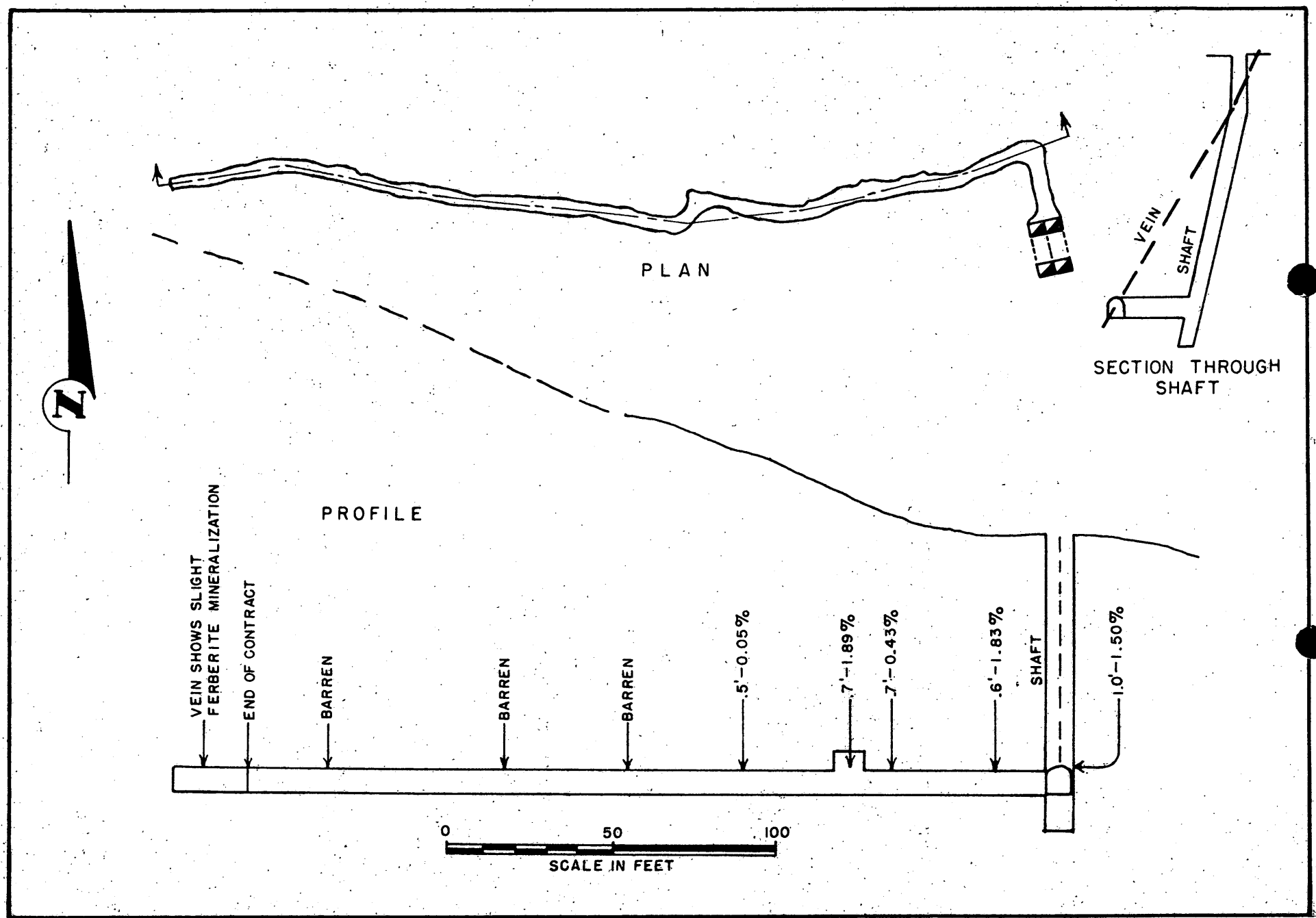

FIGURE 3 – MAP OF THE PENNSYLVANIA MINE SHOWING SAMPLING, BOULDER COUNTY, COLO. (ELMER HETZER ET. AL., DMEA 3981)

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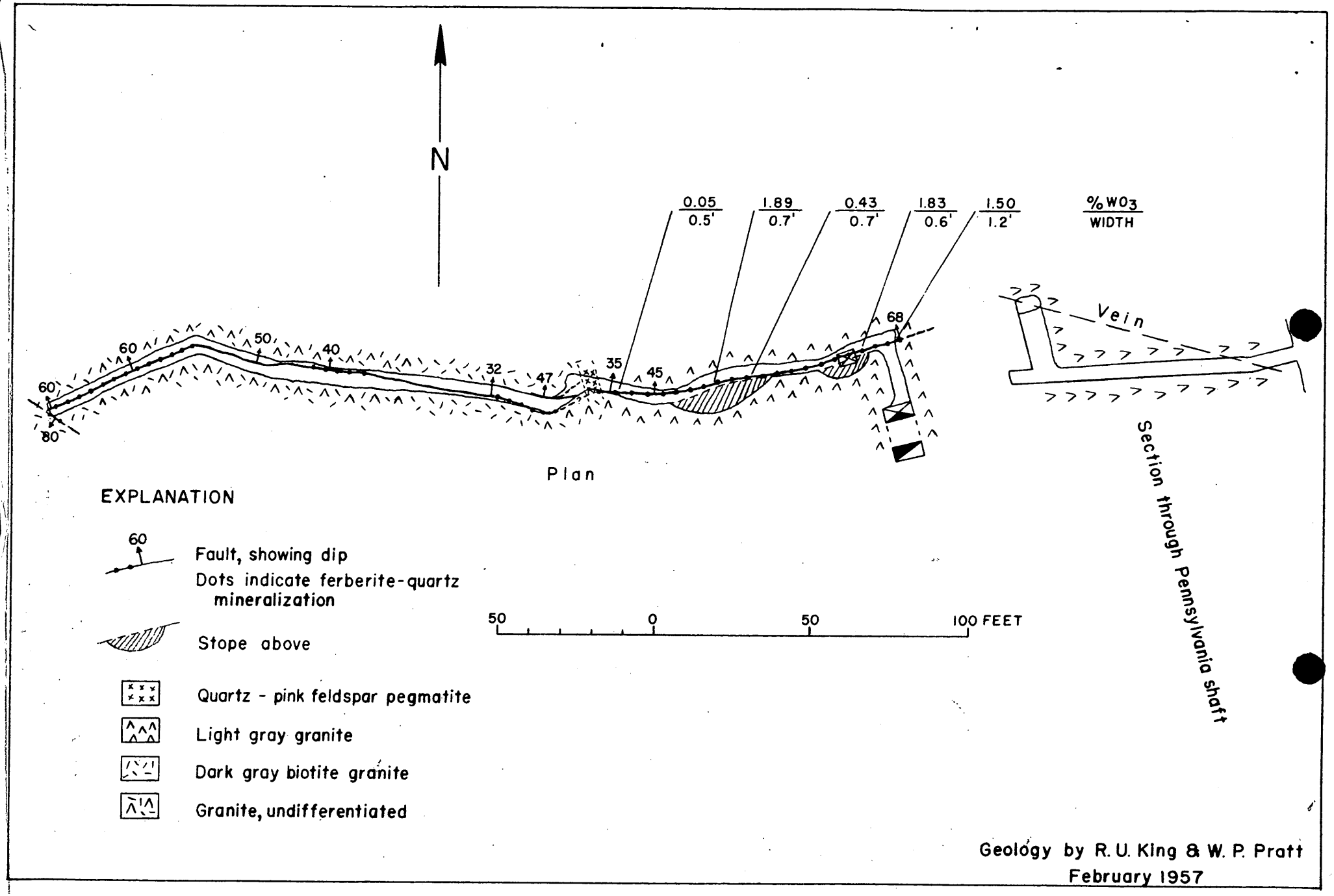

Figure 4. Geologic plan and section of the Pennsylvania Mine, Boulder County, Colo.

DMEA 3981

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DATE	INITIALS	CODE

Geologic basis for exploration

The dimensions and grade of the Pennsylvania vein as exposed on the surface, coupled with the assumption that ~~it would continue~~ similarly mineralized to a moderate depth below the surface, led to the conclusion that the deposit contained significant ore reserves; rough calculations, assuming extension to a depth of 100 feet below the surface, gave a figure of over 4,000 tons of inferred ore containing some 8,500 units of WO_3. Such reserves were considered sufficient justification for the Government to participate in the cost of exploring the deposit.

APPLICANT'S PROJECT PROPOSAL

The applicants proposed to explore the Pennsylvania vein at moderate depths by sinking an inclined shaft 75 feet along the vein from a point on its outcrop near the northeast end of the claim, drifting from the shaft 250 feet southwest along the vein at a depth of 60 feet below the surface, and raising 50 feet on the vein from the new drift.

PROJECT OPERATIONS

Description of contract

DMEA Contract Idm-E 921 was executed on February 21, 1956. It provided for essentially the same program proposed by the applicants:

sinking an existing inclined shaft 75 feet to a depth of 90 feet, drifting southwesterly 250 feet along the vein from a depth of 80 feet below the collar of the shaft, and raising a maximum of 50 feet on the vein, dependent on mineralization and at a point to be approved by the Government (fig. 3). Assaying a maximum of 30 samples for WO_3 was also authorized. The starting date was March 15, 1956, and the completion date November 1, 1956. Total estimated cost of the project was $16,100, with Government participation of 75 percent, or $12,075 (this included $700 for timbering, which was not provided for in the recommendation of the examining team).

Description of work performed

Work under the contract began on March 5, 1956. The dip of the vein was too flat to follow with a good working shaft, and the shaft was sunk on an incline in the country rock. At the 80-foot level a crosscut was driven 18 feet to the vein, and a sump dug below the shaft; both were done at the operator's expense. From the crosscut, a drift was driven 273.5 feet westerly along the vein; the 250 feet of contract drift was completed by September 20, 1956 (fig. 4). The operator then requested that the contract be terminated, since the work remaining under the contract--raising along the vein from the end of the drift--would have little or no exploratory value.

Cost of the project

The contract allowed for a maximum of 75 feet of sinking, 250 feet of drifting, 50 feet of raising and 30 assays to be taken, not to exceed the following amounts and costs:

Shaft sinking, 75 feet at $80/ft.	$ 6,000.00	
Drifting, 250 feet at $30/ft.	7,500.00	
Timbering, 100 feet at $7/ft.	700.00	
Raising, 50 feet at $35/ft.	1,750.00	
30 assays at $5 each	150.00	
Estimated total maximum cost of project		$16,100.00
Government participation at 75 percent		$12,075.00

The ground was firm and required no timbering; only six samples were taken; no raising was done. Actual contract costs follow:

75 feet of shaft sinking at $80/ft.	$ 6,000.00	
250 feet of drifting at $30/ft.	7,500.00	
6 assays for WO_3 at $5 each	30.00	
Total cost of project		$13,530.00
Government participation at 75 percent		$10,147.50

RESULTS OF THE PROJECT AND ORE RESERVES

Exploration on the 80-foot level has shown the original estimates of ore potential on the Pennsylvania vein to have been overly optimistic.

Although the grade of the vein material found on the 80-foot level is about the same as in the vein outcrop, average vein widths decreased from 30 inches on the surface to 6 inches on the 80-foot level.

Five samples taken in the drift contained an average (weighted) of 0.91 percent WO_3 for an average thickness of 0.74 feet, over a length of 92 feet (fig. 4). From this information the ore reserves can be calculated as follows: The 5-foot sample taken on the surface (see under Pennsylvania lode) is probably better disregarded because it was taken 120 feet west of the westernmost sample in the drift; but the vein can be projected to the surface because it is exposed there.

The dimensions of the ore body are then:

Length: 92 feet

Height: 82 feet (91 feet at west end, 73 feet at east end)

Width: 0.74 feet *

Volume: 92 x 82 x 0.74 = 5,580 cu. ft.

Weight: 5,580/12 = 465 tons = 423 short-ton units WO_3

This can be considered as indicated ore even though there are no assays on the outcrop of the vein included in this block. An additional 232 tons of inferred ore containing 211 short-ton units

---

* Mining operations by the operator indicate that the average vein width should be based on exposures on the 80-foot level.

of WO_3 is contained in the same body projected 41 feet (half its height) below the drift. A summary of the ore reserves is given in Table 1.

Table 1.--Summary of ore reserves

Type of ore	Length	Height	Width	Grade Percent WO_3	Tons	Units WO_3
Indicated	92'	82'	0.74'	0.91	465	423
Inferred	92'	41'	0.74'	0.91	232	211
				0.91	697	634

Because of dilution, the average grade of the ore mined is somewhat lower than the calculated grade. The operators started mining on the most favorable part of the vein, and from a stope 30 feet long and 15 feet high shipped 42 tons of ore with an average assay of 0.61 percent WO_3; and exploitation of the small ore shoot is to be continued by the operator.

CONCLUSIONS AND RECOMMENDATIONS

Exploratory drifting proved the extension at depth of a ferberite-quartz vein exposed on the surface. A small stope opened in the ore body yielded 42 tons of ore assaying 0.61 percent WO_3; mining of ore from the 80-foot level is continuing. Sinking and drifting could explore for possible extensions at depth and to the east; DMEA exploration to the east was limited, however, by an unsubordinated claim 120 feet east of the shaft.

A Certification of Discovery should be issued.

Alley

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

DEC 21 1956

Mr. T. H. Brading
DMEA Auditor
224 New Customhouse Building
Denver 2, Colorado

Re: Report of Review
Idm-F921, DMEA-3981
Elmer Hetzer, et al

Dear Mr. Brading:

Receipt is acknowledged of the Washington copies of your Report of Review covering the above-cited project.

The report is acceptable and normal distribution is authorized.

Sincerely yours,

C. E. Fisher
for Jay L. Chambers, Chief
Contract Administration
and Audit Division

AMAlley/ama
December 21, 1956

Copy to: Docket
Admr. Reading File
Mr. Chambers

RCK

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

RECEIVED
DEC 10 1956
D.M.E.A.

224 New Customhouse
Denver 2, Colorado

December 6, 1956

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA 3981 (Tungsten), Contract No. Idm-E921, Hetzer, Prime, Betasso and Betasso, a Partnership (Pennsylvania Lode), Boulder County, Colorado.

Enclosed are the original and one copy of a final report submitted by the Operator, pertaining to work completed under the subject contract.

The Field Team final report will be submitted as soon as the engineering and geologic sections are available.

W. M. Traver

W. M. Traver

Enclosures

DMEA
DEPARTMENT OF THE INTERIOR
DEC 6 1956
REGION III
DENVER, COLORADO

RECEIVED
DEC 10 1956
DMEA

Nederland, Colorado
November 28, 1956

W. M. Traver
Executive Officer, DMEA
Field Team, Region III

Final Report
Re: Docket No. Idm-E921
Contract No. DMEA 3981 (Tungsten)
Hetzer, Prime, Betasso & Betasso,
a Partnership (Pennsylvania Lode),
Boulder County, Colorado

Dear Mr. Traver:

The shaft was started on March 15, 1956 and sunk in the footwall of the vein to a depth of 90 feet below surface (Government participation 75 feet). Shaft sinking was completed and an 18 foot crosscut driven to intersect the vein at 80 feet below surface, This work was completed on May 28, 1956. Drifting Westerly on the vein was immediately commenced and terminated at 273 feet from the shaft on October 6, 1956.

Samples were cut and assayed from the vein where it was strong, assay results shown on included maps , The vein being predominantly narrow, low grade horn. In the most favourable area a stope was started but extended upwards only 15 feet with a strike length of about 30 feet, The ore was screened with the coarse ore being hand sorted, There were 42 tons shipped with an average assay of 0.61% WO_3, It was impossible to mine this ore at a profit.

There is of course still ore similar to that mined, Although probably of lower grade, extending from the shaft to about 100 feet Westerly. More exploration would be required to determine whether or not a profitable operation could be made of this mine. Specifically this would include (1) Drifting Easterly 75 feet, (2) Additional raising 100 feet and (3) Possibly crosscuting 50 feet.

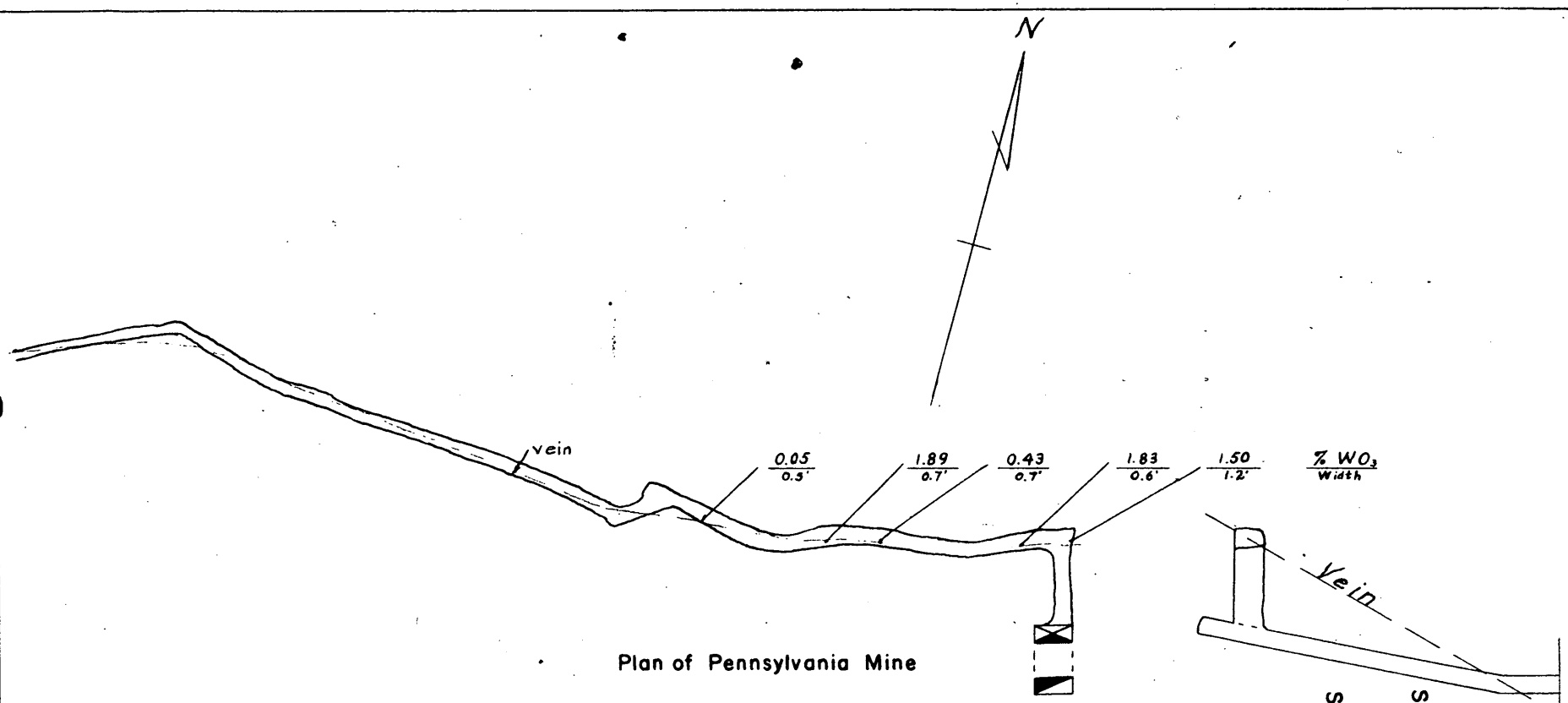
The total money spent on this operation was $19783.07, The receipts for ore shipped totaled $303.31, From this the DMEA being paid a royalty of $11.31 and the lessor of the property being paid a royalty of $75.83.

According to the original agreement the DMEA was to pay 75% of the estimated cost of 75 feet of shaft sinking at $80.00 per foot, 250 feet of drifting at $30.00 per foot and for 6 assays at $5.00 each making a total of $10172.50 which was expended by the DMEA for this project.

This results in an outlay by the Government of $10161.19 and an outlay by the operators of $9405.71.

Very truly yours,

Ernest Betasso
Partner



Plan of Pennsylvania Mine

Scale 1"=40'

Section through Pennsylvania shaft.

Scale 1"=40'

RECEIVED
DEC 10 1956
D.N.E.A.

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

224 New Customhouse
Denver 2, Colorado

November 19, 1956

RECEIVED NOV 23 1956 D.M.E.A.

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA 3981 (Tungsten), Contract No. Idm-E921, Hetzer, Prime, Betasso and Betasso, a Partnership (Pennsylvania Lode), Boulder County, Colorado

Enclosed are the Government's, Division, and Docket copies of the signed "TERMINATION AGREEMENT", which were forwarded by your letter of November 9, 1956 for signature by the Operator.

Copies of the Termination Agreement have been distributed to the Operator, the Finance Office, Region III, and to others concerned.

W. M. Traver

W. M. Traver

Enclosures

cw

DOCKET
SURNAME
Chapman
Keating
Okamura
Selfridge
Johnson

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

400

NOV - 8 1956

Mr. W. M. Trover, Executive Officer
DMEA Field Team, Region III
Rm. New Customhouse
Denver 2, Colorado

Re: Docket No. DMEA 3981 - Tungsten
Elmer Metzer, et al.
Pennsylvania Lode
Boulder County, Colorado
Contract No. Kbn-3921

Dear Mr. Trover:

Enclosed are the original and five copies of a proposed Termination Agreement to the above referenced contract, signed by the Administrator for the Government. Two extra copies are enclosed for the use of the Field Team.

If the terms and conditions of this proposed agreement are satisfactory to you and the operator, all six copies should be signed by the operator and the usual distribution made.

If any part of the proposed agreement does not have your approval or that of the operator and cannot be altered within your delegated authority, the original and all copies are to be returned to this office, together with the proposed changes for consideration.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

APPROVED:

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

Thor H. Kiilsgaard (GCS)
Member, Geological Survey

TLChapman:foc 11/8/56
cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.
FT. REG. III
Messrs. Robert W. Holliday, USBM
T. H. Kiilsgaard, USGS

Resources

R.C.S.

DOCKET
SURNAME
Chapman
Martin

400

October 31, 1956

MEMORANDUM

To: Associate Solicitor, Division of Mineral Resources

From: Iron and Ferro-Alloys Division, DMEA

Subject: Termination Agreement
Docket No. DMEA 3981 - Tungsten (Contract No. Idm-E921)
Elmer Betsar, George Prime, Richard Betsasso
and Ernest Betsasso
Pennsylvania Lode
Boulder County, Colorado

Attached is a rough draft of a Termination Agreement for the above-captioned contract for your use in preparing in final form.

W. S. Martin, Chief
Iron and Ferro-Alloys Division

Attachment

TLChapman:foc
10/31/56
cc to: Docket
Code 400

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

RECEIVED
OCT 24 1956

224 New Customhouse
Denver 2, Colorado

VIA AIR MAIL

October 22, 1956

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA 3981 (Tungsten), Contract No. Idm-E921, Hetzer, Prime, Betasso and Betasso, a Partnership (Pennsylvania Lode), Boulder County, Colorado

Enclosed is the following material pertaining to termination of the subject contract before completion of all the work outlined:

1. The original and three copies of the Operator's letter of October 10, 1956.

2. The original and three copies of a joint memorandum, dated October 17, 1956, from Carl Belser, Mining Engineer, Bureau of Mines, and E. N. Harshman, Geologist, Geological Survey, also a member of the DMEA Field Team, Region III.

The Operator requests, the field examiners recommend, and this office concurs in terminating Contract No. Idm-E921 without driving the 50-foot raise provided for in the contract.

If the contract is terminated in its present status, form MF-104, Operator's Monthly Report and Voucher, for the month of September, 1956, will constitute the Operator's final accounting report, and the sum of $400.00 was withheld from reimbursement to the Operator in processing the report.

The joint memorandum report from the field examiners indicates that a Certification of Discovery or Development will be recommended.

W. M. Traver

W. M. Traver

IN REPLY REFER TO:
DMEA
DEPARTMENT OF THE INTERIOR
OCT 18 1956
REGION III
DENVER, COLORADO

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Defense Minerals Exploration Administration
Denver Federal Center
Denver, Colorado

October 17, 1956

RECEIVED
OCT 24 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III
Through: J. F. Shaw

From: Carl Belser
E. N. Harshman

Subject: DMEA Docket 3981 (Tungsten), Contract Idm-E 921; Hetzer, Prime, Betasso and Betasso, a Partnership (Pennsylvania Lode), Boulder County, Colorado

In a letter of October 10, 1956, Ernest Betasso, acting for the subject partnership, requests that Contract Idm-E 921 be terminated without raising the 50 feet provided for in the contract.

Had exploration by drifting from the bottom of the shaft not exposed ore-grade material on the Pennsylvania vein, raising to determine the lower limit of the ore exposed in the outcrop would be justified. However, since ore was encountered in the drift and since the operator is now mining this ore, raising would have little or no exploratory value.

We therefore recommend that Contract Idm-E 921 be terminated, as requested by the operator, without driving the 50-foot raise allowed under the contract.

A certification of discovery will be recommended in a final report now in preparation.

Carl Belser
Carl Belser, Mining Engineer

E. N. Harshman
E. N. Harshman, Member, Field Team

DMEA
DEPARTMENT OF THE INTERIOR
OCT 15 1956
REGION III
DENVER, COLORADO

Nederland, Colorado
October 10, 1956

RECEIVED
OCT 24 1956

Mr. E. N. Harshman
Acting Executive Officer
DMEA Field Team, Region III
224 New Customhouse
Denver 2, Colorado

Re: Docket No. DMEA 3981 (Tungsten)
Contract No. Idm-E921
Hetzer, Prime, Betasso & Betasso,
a Partnership (Pennsylvania Lode)
Boulder County, Colorado

Dear Mr. Harshman:

The partnership of Hetzer, Prime, Betasso and Betasso request the termination in its present status of contract No. Idm-E921, The partnership has decided to start mining on the ore in the first 100 feet in the drift in lieu of performing the balance of the work outlined in the contract.

The remainder of the work outlined in the contract is a 50 foot raise 250 feet from the shaft, In this vicinity the vein was found to be barren although the drift was extended about 20 feet past this point without improvement.

Very truly yours,

Ernest Betasso

Ernest Betasso, Partner

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

RECEIVED
OCT 22 1956

224 New Customhouse
Denver 2, Colorado

October 18, 1956

Mr. Ernest Betasso
Sugar Loaf Star Route
Boulder, Colorado

Re: Docket DMEA 3981 (Tungsten)
Contract Idm-E921
Elmer Hetzer, George Prime,
Richard Betasso and Ernest
Betasso, partners
Pennsylvania lode
Boulder County, Colorado

Dear Mr. Betasso:

Form MF-104, Operator's Monthly Report and Voucher for September, 1956, has been received in this office and is being processed for payment.

An amount of $400.00 is being withheld from reimbursement to you pending resolution of matters relative to closing the account, which includes

1) Termination of the contract.
2) Rendering by the Partnership to the Government of a final report in conformance with the requirements under Article 6 (c) of the contract form.
3) Release to this office of a Report of Review of contract expenditures by the Contract Administration and Audit Division, DMEA.

If you have any question regarding the above, please feel free to contact this office or Mr. Shaw's office.

Very truly yours,

J. W. Townsend

J. W. Townsend
Acting Executive Officer
DMEA Field Team, Region III

JDC:jy
cc: Corresp. E921
Sec. Op. Comm. (2)
Shaw (2)
Harshman
Townsend
Chron.

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

224 New Customhouse
Denver 2, Colorado

October 8, 1956

Mr. Ernest Betasso, Agent
Hetzer, Prime, Betasso and Betasso
Sugar Loaf Star Route
Boulder, Colorado

Re: Docket No. DMEA 3981 (Tungsten)
Contract No. Idm-E921
Hetzer, Prime, Betasso and Betasso,
a Partnership
(Pennsylvania Lode)
Boulder County, Colorado

Dear Mr. Betasso:

We have been informed that all drifting authorized under the contract has been completed and that you desire to terminate the contract in lieu of performing the balance of the work outlined.

In that regard, you should immediately forward for the Government's consideration a request that the contract be terminated in its present status.

Your request should contain a complete justification for terminating the contract prior to completion of all the work outlined, furnishing this office the original and five copies.

Very truly yours,

E. N. Harshman

E. N. Harshman
Acting Executive Officer
DMEA Field Team, Region III

JWT:prl

cc: Chairman, Op. Comm. (2)
Harshman
Shaw
Townsend
Corres. file
Chron.

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

RECEIVED
SEP 17 1956

224 New Customhouse
Denver 2, Colorado

September 14, 1956

Mr. Ernest Betasso, Agent
Hetzer, Prime, Betasso and Betasso
Sugar Loaf Star Route
Boulder, Colorado

Re: Docket DMEA 3981 (Tungsten)
Contract Idm-E921
Hetzer, Prime, Betasso and Betasso,
Partnership
(Pennsylvania Lode)
Boulder County, Colorado

Dear Mr. Betasso:

Form MF-104, Operator's Monthly Report and Voucher, for August, 1956 has been received in this office and is being processed for payment.

Assay certificates are required by this office for all analytical work performed under the contract. Please include with your next monthly report assay certificates showing the analytical results for the five samples reported on the August, 1956 voucher.

Very truly yours,

W. M. TRAVER

W. M. Traver
Executive Officer, DMEA
Field Team, Region III

JDC:jy
cc: Corresp. E921
MF-104 File
Sec. Op. Comm. (2)
Shaw (2)
Chron.

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

RECEIVED
AUG - 6 1956

224 New Customhouse
Denver 2, Colorado

August 3, 1956

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 3981 (Tungsten) Contract Idm-E921, Elmer Hetzer, George Prime, Richard Betasso and Ernest Betasso, Partners (Pennsylvania lode) Boulder County, Colorado

Attached are copies of the following documents which are necessary for continued operations under Contract Idm-E921

1) Court Order No. 2888, Boulder County, Colorado, dated July 28, 1956, which authorizes Consuelo Hetzer to continue in the partnership of Elmer Hetzer, George Prime, Richard Betasso and Ernest Betasso
2) Official notification rescinding the Power of Attorney dated February 29, 1956 which designated Elmer Hetzer to act as agent for the partnership
3) Power of Attorney dated July 28, 1956 which designates Ernest Betasso to act as agent for the partnership in all matters concerned with DMEA Exploration Contract Idm-E921

Also attached is a letter of July 30, 1956 from Dudley I. Hutchinson whereby the above documents were transmitted to this office.

Payments are to be made to Mr. Ernest Betasso whose address is as follows

Mr. Ernest Betasso
Sugar Loaf Star Route
Boulder, Colorado

W. M. TRAVER

W. M. Traver

Enclosures

JBC:jy
cc: Chair. Op. Comm. (3) w/orig. & 2 copies above documents / Harshman w/copy above documents
Contract File E921 w/copy above documents " " Shaw
Corresp. File E921 " " " " Townsend

GOSS & HUTCHINSON
Attorneys at Law

COPY

July 30, 1956

RECEIVED
AUG - 6 1956

Mr. W. M. Traver
Executive Officer, DMEA
Field Team, Region III
224 New Customhouse
Denver 2, Colorado

Re: Docket DMEA 3981 (Tungsten) Contract Idm-E921; Elmer Hetner, George Prime, Richard Betasso and Ernest Betasso, Partners. Pennsylvania Lode - Boulder County, Colorado

Dear Mr. Traver:

In accordance with your letter of July 26, 1956 and in further answer to your letter of July 23, 1956, both of which pertain to the above matter, I hand you herewith the following:

1. A certified copy and five photographic copies of Order of the County Court of Boulder County, authorizing Consuelo Hetner, Executrix of the Estate of Elmer Hetner, deceased, to continue the above partnership;

2. Original and five copies of Notification of rescinding Power of Attorney;

3. Original and six executed copies of Power of Attorney appointing Ernest Betasso as attorney in fact;

The address of Ernest Betasso is Sugar Loaf Star Route, Boulder, Colorado.

I hope you will find these in order and if there is anything else I can do to expedite this matter, please let me know. I appreciate the promptness that you have given this matter.

Very truly yours,

/S/ DUDLEY I. HUTCHINSON

Dudley I. Hutchinson

vc
encs.

RECEIVED
AUG 6 1956

Boulder, Colorado

July 27, 1956

Mr. W. M. Traver
Executive Officer, DMEA
Field Team, Region III
224 New Customhouse
Denver 2, Colorado

Re: Docket DMEA-3981 (Tungsten)
Contract Idm-E921
Elmer Hetzer, George Prime, Richard Betasso, and Ernest Betasso, Partners.
Pennsylvania Lode - Boulder County, Colorado.

Dear Sir:

On February 29, 1956, Elmer Hetzer, George Prime, Richard Betasso and Ernest Betasso executed a Power of Attorney appointing Elmer Hetzer to act as Agent for the above partners. We are sorry to advise you that Mr. Hetzer died July 10, 1956.

You are hereby notified by the undersigned that the said Power of Attorney is rescinded.

Yours very truly,

Ernest Betasso
George Prime
Richard Betasso

Consuelo Hetzer
Executrix of the Estate of
Elmer Hetzer, deceased.

RECEIVED
AUG - 6 1956

POWER OF ATTORNEY

We, the undersigned, members of a partnership consisting of George Prime, Richard Betasso, Ernest Betasso, and Consuelo Hetzer, Executrix of the Estate of Elmer Hetzer, deceased, do hereby appoint Ernest Betasso to act as the agent of said partnership in all matters connected with the United States Department of Interior, Defense Minerals Exploration Administration, Contract Idm-E921, Docket No. DMEA 3981, and in behalf of said partnership to submit to the Government all necessary reports and information required under said contract; and said agent is authorized to receive individually, and to receipt for, any monies that are now or may hereafter become due to said partnership by reason of said Contract Idm-E921.

Executed this 28th day of July, 1956.

(Signed) Ernest Betasso

(Signed) George Prime

(Signed) Richard Betasso

(Signed) Consuelo Hetzer
Executrix of the Estate of
Elmer Hetzer, deceased.

RECEIVED
AUG - 6 1956

STATE OF COLORADO)
) SS.
COUNTY OF BOULDER)

IN THE COUNTY COURT

No. 8888

IN THE MATTER OF THE ESTATE)
OF ELMER HETZER, also known as)
ELMER W. HETZER,)
Deceased.)

ORDER

This day this cause came on to be heard before the Court upon the Petition of Consuelo Hetzer, Executrix of said estate, asking for authority to continue in the partnership composed of Elmer Hetzer, George Prime, Richard Betasso and Ernest Betasso.

It appears to the Court that prior to the death of Elmer Hetzer said partners had entered into a Contract with the United States Government, being Docket No. DMEA-3981, Contract Idm-E921, and obtained a loan from the United States Government for the development of the Pennsylvania Lode.

IT APPEARS TO THE COURT AND THE COURT DOTH FIND: That it is to the best interest of said estate that the said Consuelo Hetzer, sole beneficiary under the Last Will and Testament of Elmer Hetzer and Executrix of said estate, continue in said partnership and in the operation of said mine and that she be authorized, directed and empowered to sign all instruments necessary to properly carry on said operation and to sign any instruments required by the United States Government in connection with said contract and said loan made by the Government.

IT IS THEREFORE ORDERED AND DECREED BY THE COURT: That Consuelo Hotzer, Executrix of said estate, be and she is hereby authorized, directed and empowered to enter into a partnership with George Prime, Richard Botasso and Ernest Botasso for the operation of said mine and to carry out the above mentioned contract and to sign all instruments necessary to carry on said partnership and fulfill the contract and lease with the United States Government.

DONE IN OPEN COURT This 28th day of July, 1956.

BY THE COURT:

Hoachlin

Judge

STATE OF COLORADO)
) SS.
COUNTY OF BOULDER)

I, Dolores H. Kiser, Clerk of the County Court, Boulder County, Colorado, hereby certify that the above and foregoing is a full, true and correct copy of an Order of the County Court of Boulder County, Colorado, entered this day in the above styled and numbered cause.

Dated this 8 pm day of July, 1956.

Dolores H Kiser
Clerk of the County Court

By: _____
Deputy

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

RECEIVED
JUL 30 1956

[redacted]

[redacted]

Mr. Dudley L. Hutchinson
c/o Goss and Hutchinson, Attorneys at Law
P. O. Box [redacted]
Boulder, Colorado

Re: Docket DMEA-[redacted] (Tungsten)
Contract [redacted]
Elmer Hutner, George Petsas, Richard Belanto, and Kenneth Bonnee, Partners
Pennsylvania Lode
Boulder County, Colorado

Dear Mr. Hutchinson:

Reference is made to your letters of July [redacted], and July 24, 1956 and our letter to you of July 23, 1956 regarding the status of the referenced contract, and the requirements which must be fulfilled in order that Mrs. Hutner may act for the partnership until such time as a new Power of Attorney is executed, designating an agent to act for the Partnership.

You state in your letter of July 24, 1956 that you can obtain a court order authorizing Mrs. Hutner to act for the Partnership. We request that the court order be obtained and that the original and five copies, or six photo copies from the original, be forwarded to this office. We can then proceed to process the Forms MF-[redacted], Monthly Progress Report and Voucher for payment.

As soon as the principals have reached a definite decision regarding the appointment of an agent to act for the Partnership, a new Power of Attorney is to be executed and forwarded to this office.

The original and six copies are required. Also, as mentioned in our letter to you dated July 23, 1956, this office also requires the original and five copies of official notification revoking the Power of Attorney, executed February 29, 1956, designating Elmer Metzar as agent.

Very truly yours,

W. M. TRAVER

W. M. Traver
Executive Officer, BMKA
Field Team, Region III

JDC:jy
cc: Corresp. E921)
Sec. Op. Comm. (2))
Marshman)
Shaw (2))w/copy Hutchinson's let.
Christensen) of 7-24-56
Townsend)
Cooper)
Chron.

GOSS & HUTCHINSON
ATTORNEYS AT LAW

MELVIN C. GOSS
DUDLEY I HUTCHINSON
DUDLEY I HUTCHINSON, JR.
T HENRY HUTCHINSON

P O BOX 78
BOULDER, COLORADO

JUL 30 1956

July 24, 1956

DMEA
Date Rec'd
JUL 25 1956
BUREAU OF MINES
Denver, Colorado

Mr. W. M. Traver
Executive Officer, DMEA
Field Team, Region III
224 New Customhouse
Denver 2, Colorado

RE: Docket DMEA-3981 (Tungsten) Contract Idm-E921
Elmer Hetzer, George Prime, Richard Betasso
and Ernest Betasso, Partners
Pennsylvania Lode - Boulder County, Colorado

Dear Mr. Traver:

Thank you for your letter of July 23, 1956 relative to the above matter. The Will of Mr. Elmer Hetzer has been admitted to probate and Mrs. Consuelo Hetzer has been appointed Executrix. I enclose herewith a certified copy of Mr. Hetzer's Will, Order Admitting Will to Probate and Letters Testamentary.

You will see from the Will that Mr. Hetzer left all of his property to Mrs. Hetzer. It is her plan at the present time to continue on with this contract

Would you require anything other than the enclosed documents in order that she can sign necessary papers to continue. It is their intention at this time to appoint Mr. Ernest Betasso as attorney in fact to act instead of Mr. Elmer Hetzer. The other members of the partnership are willing for Mrs. Hetzer to continue in this venture.

I might say that if you require it, I could get an order from the County Court authorizing Mrs. Hetzer to proceed to act.

Thanking you for your prompt answer to my letter, I am,

Yours very truly,

Dudley I. Hutchinson

Dudley I. Hutchinson

DIH:vc
enc.

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

RECEIVED
JUL 25 1956

224 New Customhouse
Denver 2, Colorado

July 23, 1956

Mr. Dudley I. Hutchinson
c/o Gose & Hutchinson, Attorneys at Law
P. O. Box 78
Boulder, Colorado

Re: Docket DMEA-3981 (Tungsten)
Contract Dem-E921
Elmer Hetner, George Prime,
Richard Betasso and Ernest Betasso,
Partners
Pennsylvania Lode
Boulder County, Colorado

Dear Mr. Hutchinson:

Reference is made to your letter of July 18, 1956 wherein you request information necessary for continued operations under the referenced contract, inasmuch as Mr. Elmer Hetner, partner and duely appointed agent for the Partnership, died on July 10, 1956.

When all matters have been resolved relative to Mrs. Hetner's connection with the Partnership, the following items will be required by this office:

1. The original and five copies of official notification rescinding the POWER OF ATTORNEY, executed February 29, 1956, which designated Elmer Hetner to act as agent for the Partnership.

2. The original and six properly executed copies of a new POWER OF ATTORNEY appointing an agent to act for the Partnership. For your reference, we are enclosing a blank copy of a POWER OF ATTORNEY similar to the one now attached to the contract.

We are withholding payment on the June, 1956 Monthly Progress Report and Voucher. No vouchers can be processed for payment until all matters relative to Mrs. Metzer's connection with the Partnership have been resolved and until the above documents have been received in this office. Therefore, your prompt attention in the matter will be appreciated.

Very truly yours,

W. M. TRAVER

W. M. Traver
Executive Officer, DMEA
Field Team, Region III

Enclosure

JDC:jy
cc: Corresp. E921)
Sec. Op. Comm. (2))
Shaw (2))
Harshman) w/copy of above
Christensen) mentioned letter
Townsend)
Cooper)
Chron.

cc: Mr. George Prime
Nederland, Colorado

GOSS & HUTCHINSON
ATTORNEYS AT LAW

MELVIN C. GOSS
DUDLEY I. HUTCHINSON
DUDLEY I. HUTCHINSON, JR.
T HENRY HUTCHINSON

P. O. BOX 78
BOULDER, COLORADO

RECEIVED
JUL 25 1956

July 18, 1956

DMEA
Date Rec'd
JUL 20 1956
BUREAU OF MINES
Denver, Colorado

Mr. W. M. Traver
Executive Officer DMEA
Field Team, Region III
Denver Federal Center
Room 137, Building 20
Denver 2, Colorado

Re: Docket DMEA 3981 (Tungsten) Pennsylvania Lode, Boulder County, Colorado, Contract IDM E 921

Dear Sir:

Relative to the above matter, I am sorry to report that Mr. Elmer Hetzer died July 10th, 1956. His Will is being probated today and by his Will he devised and bequeathed all of his property to his widow, Consuelo Hetzer.

Mrs. Hetzer has not decided definitely whether or not she will continue in the partnership but she probably will want to. Some arrangement will have to be made so that the contract can be carried out. Will you please advise me what is necessary in order that the work can proceed and requisition issued for the payment of money under the contract.

I understand that a requisition was made for money prior to Mr. Hetzer's death and the check, no doubt, will come back to him as he was given the power of attorney to carry on. They will have to appoint another attorney in fact in this matter and would you please send me the necessary papers so that this matter can proceed in accordance with your regulations.

I did not know whether to write to you or to Mr. John P. Shaw, so I am sending a copy of this letter to him also.

Yours very truly,

Dudley I. Hutchinson

Dudley I. Hutchinson

DIH/bc
CC: Mr. John P. Shaw

Docket

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

RECEIVED
MAR - 5 1956

224 New Customhouse
Denver 2, Colorado

March 1, 1956

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 3981 (Tungsten), Contract Idm-E921, Hetzer, Prime, Betasso and Betasso, Boulder County, Colorado

Enclosed for your records are the original and two copies of Power of Attorney executed by three of the partners designating the fourth partner, Elmer Hetzer, to act as the agent of said partnership in all matters connected with the DMEA contract.

W. M. Traver

W. M. Traver
Executive Officer, DMEA
Field Team, Region III

Enclosures

Original to Mr. Chambers on 3/5/56

Copy retained 400

Docket Copy

RECEIVED
MAR - 5 1956

POWER OF ATTORNEY

We, the undersigned, members of a partnership consisting of Elmer Hetzer, George Prime, Richard Betasso and Ernest Betasso, do hereby appoint Elmer Hetzer to act as the agent of said partnership in all maters connected with the United States Department of the Interior, Defence Minerals Exploration Administration, Contract Idm-E921, Docket No. DMEA 3981, and in behalf of said partnership to submit to the Government all necessary reports and information required under said contract; and said agent is authorized to receive individually, and to receipt for, any monies that are now or may hereafter become due to said partnership by reason of said Contract Idm-E921.

Executed this 29th day of February, 1956.

(Signed) George Prime

(Signed) Richard Betasso

(Signed) Ernest Betasso

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

RECEIVED
MAR - 5 1956

224 New Customhouse
Denver 2, Colorado

March 1, 1956

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 3981 (Tungsten), Contract Idm-E921, A Partnership Composed of Elmer Hetzer, George Prime, Richard Betasso and Ernest Betasso, Boulder County, Colorado.

Enclosed are the Government's, Division, and Docket copies of Exploration Project Contract Idm-E921, which was forwarded by your letter of February 21, 1956, for signature by the Operator and our insertion of the starting date under Article 3 of the Contract.

Copies of the Contract have been given to the Operator, the Finance Office, Region III, and distributed to other offices concerned.

W. M. Traver

Enclosures

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

RECEIVED
MAR - 5 1956

224 New Customhouse
Denver 2, Colorado

March 1, 1956

Mr. Elmer Hetzer
P. O. Box 641
Boulder, Colorado

Re: Docket DMEA 3981 (Tungsten)
Contract Idm-8981

Dear Mr. Hetzer:

Enclosed herewith is your copy of Exploration Project Contract No. Idm-8981, Docket DMEA 3981.

Also enclosed are six copies of form MF-104, "Operator's Monthly Report and Voucher," and six copies of form MF-104A, "Operator's Unit Cost and Progress Report." At the completion of the first calendar month of operation and monthly thereafter you are required to submit five copies of the forms to Mr. John F. Shaw, U. S. Bureau of Mines, Room 137, Building 20, Denver Federal Center, Denver 2, Colorado. The sixth form is for your records.

Please note that the monthly accounting report requires a narrative report which should be accompanied by maps or sketches showing the work performed. The narrative report must be signed by the operator. The monthly report will not be processed for payment unless accompanied by a narrative report. Additional copies of forms MF-104 and MF-104A will be forwarded to you each month on receipt of your completed report for the prior month.

For your information and in reply to many questions that have been asked, after forms MF-104 and MF-104A are received an engineer will check progress and approve your accounts, after which they will be sent to the Regional Office, Region III, U. S. Bureau of Mines, 224 New Customhouse, Denver 2, Colorado, for auditing and vouchering. If the report is in order, a check will be issued by the Treasury Department for the Government's portion of the costs. If you have any difficulty in completing these forms and the reports, please call on Mr. Shaw or this office for assistance.

The contract is prepared on form NF-200A and under the provisions of Exhibit "A", which is a part of the contract, the work is to be performed at fixed unit costs which are the basis of reimbursement to you as units of work are completed and reported on forms NF-104 and NF-104A.

Your requests to this office for work approval, changes in the contract, or any other communication pertaining to operations under the contract, must be in writing, of which please supply the original and five copies, each copy complete with maps or other pertinent data.

Your attention is directed to the provision that the location and extent of raising under Item 3 is subject to the prior approval of the Government. Therefore, sufficient time should be allowed before you are ready to start work, to enable the Government to reach a decision in the matter and so advise you after receipt in this office of your request in writing for the Government's approval for the location and the extent of the raising proposed.

No oral statement of any person shall be construed to modify or change the terms of the contract. Field representatives of the Government are not authorized to approve any changes in the work program or contract provisions. Such approval can only be given by the Washington office, ECCA, or by the ECCA Field Team, Region III.

It is a regulation that reimbursement for the cost of work accomplished prior to the date of the contract will not be allowed. It is a requirement and imperative that you notify this office in writing the date work actually commenced under the contract, with a copy of your letter to Mr. Shaw.

Very truly yours,

W. M. TRAVER

W. M. Traver
Executive Officer, ECCA
Field Team, Region III

Enclosures
JWF:pr1
cc: Chairman, Oper. Comm. (3)
Finance Office, Region III
Amendment file
Barnhman
Shaw
Townsend
Corres. file
Chron.

DOCKET
SURNAME

400

Chapman
Martin
Chambers
Fitzsimmons

FEB 21 1956

Mr. W. M. Travers, Executive Officer
DMEA Field Team, Region III
22d New Customhouse
Denver 2, Colorado

Re: Docket No. DMEA 3981 - Tungsten
Elmer Hotzer, et al.
Pennsylvania lode
Boulder County, Colorado

Dear Mr. Travers:

Enclosed are the original and five copies of a proposed contract for an exploration program at the above-referenced property, signed by the Administrator for the Government, together with Annex I (1 page), Consent to Lien, Exhibit "A" (1 page) and 2 maps. Two extra copies of Exhibit "A" and the annex and maps are enclosed for the use of the Field Team.

If the terms and conditions of this proposed contract are satisfactory to you and the operator, all six copies should be signed and the usual distribution made.

If any part of this proposed contract does not have either your approval or that of the operator and can not be amended within your delegated authority, the original and all copies of the proposed contract are to be returned to this office, together with the proposed changes for consideration.

Under Article 3, the starting date has been left blank and is to be filled in when the contract is signed by the operator.

Sincerely yours,

Enclosures

W. S. Martin

APPROVED:

ACTING Chairman, Operating Committee (WB)

/s/ Robert W. Geehan (WB)
Member, Bureau of Mines

W. P. Williams (WB)
Member, Geological Survey

TLChapman:fec 2/15/56
cc to: Docket
Code 400
Adm. Read. File
Operating Comm.
FT. REG. III
Messrs. Robert Holliday, USBM
T. H. Kilsgaard, USGS

R.C.K.

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

FEB 10 1956

Memorandum

W59

To: Administrator, DMEA
Attention: Chief, Iron and Ferro-Alloys Division

From: Associate Solicitor, Division of Mineral Resources

Subject: Docket No. DMEA-3981 (Tungsten)
Elmer Hetzer, et al.
Pennsylvania claim, et al.
Boulder County, Colorado

Pursuant to your memorandum dated January 25, 1956, we have prepared the attached contract in satisfactory legal form for execution, subject to the attachment of the maps referred to in the contract.

Robert P. Dwyer

Docket
Chapman
Martin

Associate Solicitor, Div. of Mineral Resources
Iron and Ferro-Alloys Division, DMEA

January 25, 1956

Preparation of contract
Docket No. DMEA 3981 - Tungsten
Elmer Hetzer, et al.
Pennsylvania claim, et al.
Boulder County, Colorado

Transmitted herewith is a draft of a proposed contract for the captioned project for your use in preparing the contract in final form.

W. S. Martin, Chief
Iron and Ferro-Alloys Division

Attachment

cc: Docket
Code 400

TLChapman/ls

Docket

IN REPLY REFER TO:

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

RECEIVED
JAN 11 1956

January 10, 1956

Memorandum

To: W. S. Martin, Defense Minerals Exploration Administration

From: W. P. Williams, U. S. Geological Survey

WPW

Subject: Review of Field Team Report, DMEA 3981 (Tungsten), Elmer Hetzer, et al., Pennsylvania Lode, Boulder County, Colorado.

The subject property is located in a highly productive area within the eastern part of the Boulder County, Colorado, tungsten district.

In their report the examining team points out that a well-defined pegmatitic structure, the Pennsylvania vein, crops out on the property. One of the larger producing mines in the district is located about 4,000 feet away along the projected strike of the Pennsylvania vein, and the vein is mineralized on the applicant's property.

Geologic conditions appear to be favorable for the occurrence of tungsten (ferberite) ore bodies. The examining team recommends approval of DMEA participation in an exploration project consisting of 75 feet of shaft sinking, 250 feet of drifting, and 50 feet of raising at a total estimated project cost of $15,600. I agree with the Field Team and recommend that a DMEA contract be prepared to provide for the exploration work.

W P Williams

W. P. Williams

Copy retained 400

Docket

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

January 10, 1956

WSG

Memorandum

To: Chief, Iron & Ferroalloys Division-DMEA
Through: Chief, Branch of Ferrous Metals & Ferroalloys

From: Commodity Specialist-Tungsten

Copy retained 400

Subject: Review of Field Team Examination Report
Docket No. DMEA-3981
Pennsylvania Lode
Boulder County, Colorado
Elmer Hetzer et al.
$15,600-Tungsten

Subject report recommends 75 feet of sinking (along the vein), 250 feet of drifting and if warranted after completion of the drifting, 50 feet of raising.

The Government participation ($11,700) appears to be very modest in view of the inferred ore reserves. Although mine development, as such, is not in the province of the DMEA, it is considered, in this case, to be the most feasable method of exploration.

I concur with the field team recommendation for approval.

R W Holliday
R. W. Holliday

Copy to: Mr. Holliday
Mr. Geehan
DMEA-3981 File
F I L E S

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

Docket

RECEIVED
JAN 6 1956

January 4, 1956

224 New Customhouse
Denver 2, Colorado

WSM

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 3981 (Tungsten), Elmer Hetzer, et al., Pennsylvania Lode, Boulder County, Colorado

Enclosed are the original and five copies of Form MF-203, Owner's Consent to Lien signed by Joseph Rafter. This should complete all the necessary information needed for the preparation of the contract.

W. M. Traver

W. M. Traver

Enclosures

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

Docket

224 New Customhouse
Denver 2, Colorado

December 30, 1955

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Joint Report of Examination, Docket DMEA 3981 (Tungsten), Elmer Hetzer, et al., (Pennsylvania Lode), Boulder County, Colorado

Enclosed are the original and three copies of the report pertaining to the above application. The field examiners recommend a slightly modified exploration project at a cost of $15,600.00, Government participation $11,700.00. We concur and further recommend that a short-form contract be prepared.

Nine extra copies of Figure 2 and Figure 3 are enclosed for possible use in the contract.

DMEA Field Team, Region III

W. M. Traver

By W. M. Traver
Executive Officer

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
1-6-56
(date)

DMEA
Received

DEC 1955

BUREAU OF MINES
Denver, Colorado

TRANSMITTED
DEC 30 1955

Region III

Building 20
Denver Federal Center
Denver 2, Colorado
December 22, 1955

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: John F. Shaw
E. N. Harshman

Subject: Examination Report, DMEA 3981 (Tungsten) Elmer Hetzer, et al., (Pennsylvania lode) Boulder County, Colorado

Enclosed are the original and seven copies of a Joint Engineering and Geologic Report by E. N. Harshman, Geologist, and R. L. Belmer, Mining Engineer, covering docket DMEA 3981.

The applicant applied for exploration assistance in the amount of $15,294.16 to explore the Pennsylvania lode by 75 feet of sinking, 250 feet of drifting, and 50 feet of raising. The property was examined by E. N. Harshman and R. L. Belmer. The Pennsylvania vein is a strong well mineralized structure located within a highly productive area of the Boulder County tungsten district. The examining team recommended a slightly modified exploration project. The total cost of the recommended project is $15,600.00. The amount of Government participation at 75 percent would be $11,700.00.

It is recommended that a short-form contract be prepared for 75 feet of sinking at $80.00 per foot, 250 feet of drifting at $31.00 per foot, and 50 feet of raising at $35.00 per foot. The location and extent of all raises would be dependent upon the results of the drifting and require prior written approval of the DMEA Field Team.

John F. Shaw
Supervising Mining Engineer

E. N. Harshman
Member, Field Team

Reviewed by
DMEA OPERATING COMMITTEE
1-6-56
(date)

Enclosures
cc 7
ENHarshman
DMEA 3981

TRANSMITTED
DEC 30 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA 3981

ELMER HETZER, ET AL.

PENNSYLVANIA LODE

BOULDER COUNTY, COLORADO

Tungsten

Joint Engineering and Geologic Report

By

E. N. Harshman, Geologist
Geological Survey

R. L. Bolmer, Mining Engineer
Bureau of Mines

December 19, 1955

Reviewed by
DMEA OPERATING COMMITTEE
1-6-56
(date)

DMEA 3981

ELMER HETZER, ET AL.
PENNSYLVANIA LODE
BOULDER COUNTY, COLORADO

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DMEA 3981

ELMER HETZER, ET AL.
PENNSYLVANIA LODE
BOULDER COUNTY, COLORADO

SUMMARY AND INTRODUCTION

A partnership composed of Elmer Hetzer, Richard Betasso, Ernest Betasso, all of Boulder, Colo., and George Prime of Nederland, Colo., made application for aid in a project of exploration for tungsten on the patented Pennsylvania lode mining claim located in the Sugar Loaf mining district, Boulder County, Colo. The application was made pursuant to DMEA Order 1, under the Defense Production Act of 1950, as amended. It was submitted to the Defense Minerals Exploration Administration September 16, 1955, and assigned docket No. DMEA 3981.

In their application, the partners proposed to explore the tungsten-bearing Pennsylvania vein at moderate depths below its surface outcrop on the Pennsylvania claim. Although exposed in a number of early-day prospect pits and trenches on the property, the deposit heretofor had been neither developed nor explored underground. The project proposed by the applicants involved sinking an inclined shaft 75 feet along the vein from a point on its outcrop near the northeastern end of the claim and drifting from the shaft 250 feet southwesterly along the structure at a depth of 60 feet below the surface. Raising 50 feet on the vein from the new 60-foot level drift also was proposed. The estimated total cost of the proposed project was $15,294.16.

The application was reviewed by the DMEA commodity group in Washington, D. C. and on September 29, 1955, was referred to the DMEA Field Team,

Region III, for recommendations. The property was inspected November 3, 1955, by an examining team from the Bureau of Mines and Geological Survey. The inspection was made with George Prime, one of the applicants, and Joseph Rafter, the owner of the property.

The examining team concluded from their examination of the property and from other criteria that exploration of the deposit was warranted and that the proposed project was feasible, and except for the rather limited property rights included with the application, did meet the general requirements for Government assistance.

The Pennsylvania vein apexes diagonally across the northern corner of the Pennsylvania claim and only some 340 feet of its length falls within the boundaries of the property leased by the applicants. This matter was discussed with the partners. They offered to locate an open fraction of ground north of the Pennsylvania claim and to lease part of a contiguous claim so as to control all the adjacent land that might benefit from project exploration. The partners ultimately gained control of all the desired ground and on December 10, 1955, added it to the property rights originally included with their application.

The slightly modified exploration project, which the examining team considered warranted and is recommending in this report, provides for exploration of the Pennsylvania vein by means of 75 feet of sinking, 250 feet of drifting, and, if justified by conditions then encountered, 50 feet of raising. The total cost of the recommended project was estimated at $15,600.00 (Government participation 75 percent, or $11,700.00).

This report is based on the recent field examination of the property and upon data either furnished by the applicants or obtained from other sources. It is prepared for the purpose of aiding the DMEA Field Team and others concerned in evaluating the applicants' request for exploration assistance.

LOCATION, TOPOGRAPHY, AND PHYSICAL FEATURES

The mining claims comprising the applicants' property rights are located principally in the NW1/4 sec. 31, T. 1 N., R. 71 W., sixth principal meridian, Boulder County, Colo. A small portion of the property extends westerly into the adjoining township. The claims are on the western slope of Black Tiger Gulch, a tributary of Middle Boulder Creek Canyon located in the lower, eastern part of the Boulder County tungsten district (fig. 1). Boulder, a town of some 25,000 population located about 30 miles northwest of Denver, is 5-1/2 miles due east of the property; Nederland, a community of 300 persons and the mining center of the district, is approximately 7 miles southwest of the property.

The property is accessible via a steep and rough mine road that branches north from State Highway 119 about 5 miles west of Boulder. The mine road extends up Black Tiger Gulch past the property and eventually connects with a county road through Bummer Gulch. State Highway 119 is a paved, all-weather road. The county road, although graveled, is maintained throughout the year. The mine road is unimproved and not maintained.

The tungsten district lies on the lower eastern flank of the Front Range, a gently rising, dissected upland that extends from the foothills

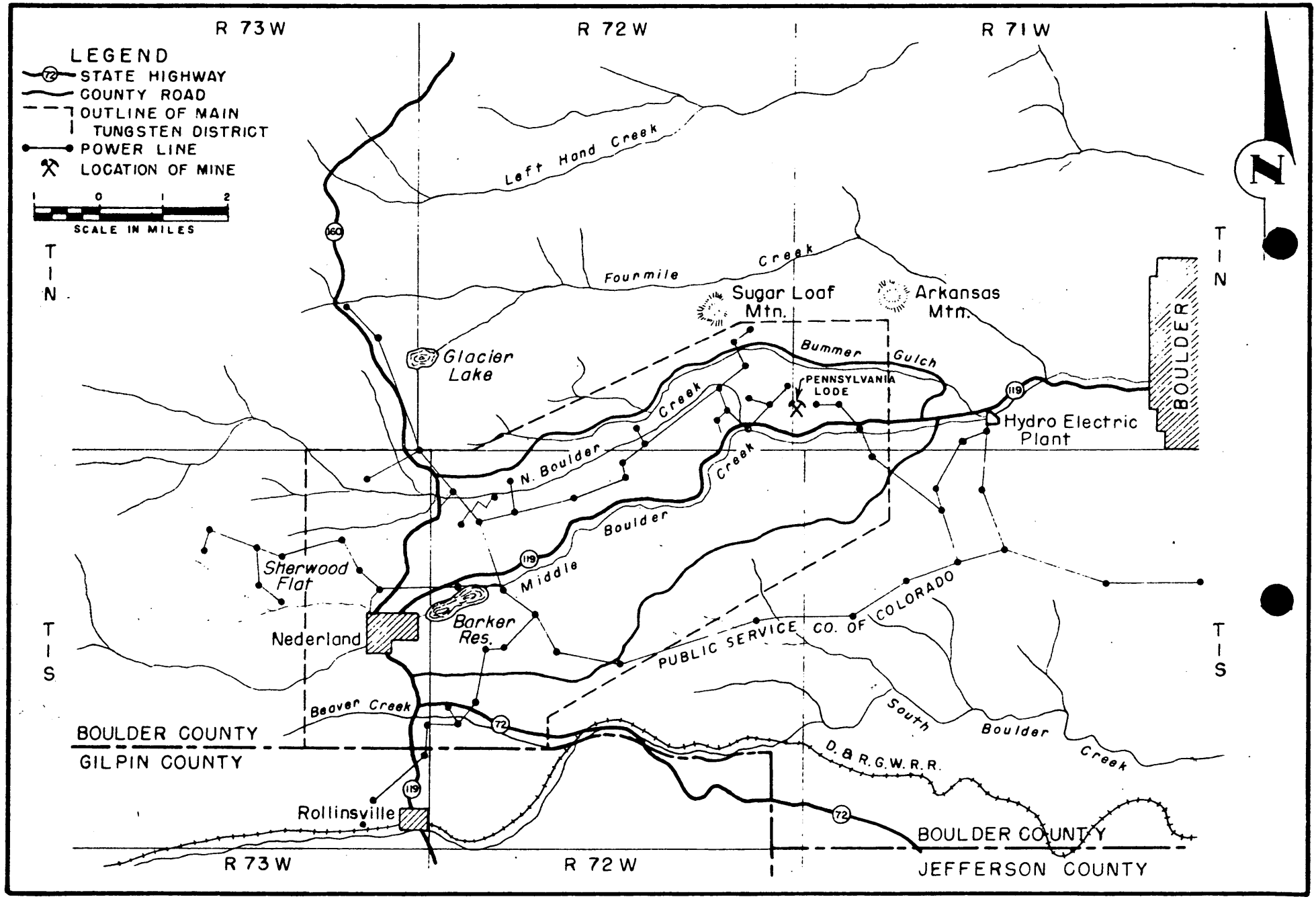

FIGURE 1 - INDEX MAP OF THE BOULDER COUNTY TUNGSTEN DISTRICT, COLO., SHOWING LOCATION OF THE PENNSYLVANIA LODE. (ELMER HETZER ET AL., DMEA 3981)

near Boulder to the steeper glaciated slopes of the Continental Divide west of Nederland. The area is characterized by rounded mountain tops and flat ridges separated by broad valleys and steep canyons. The general level of the upland surface ranges in altitude from 8,500 feet in the western part of the district to about 7,500 feet in the eastern part. The mountain tops within the district rise 300 to 400 feet above this level. In the western part of the area, broad valleys lie only 200 to 300 feet below the general level of the upland surface. Farther east, the valleys deepen rapidly and become steep-sided canyons. Middle Boulder Creek, where it leaves the district, occupies a canyon that is 1,000 feet below the general level of the upland surface.

Elevations on the property range from 7,000 to 7,400 feet above sea-level. About 1/2 mile southeast of the property, at the junction of Black Tiger Gulch and Middle Boulder Creek Canyon, the altitude is 6,400 feet. Sugar Loaf Mountain, some 2 miles northwest of the property, rises to an altitude of 8,920 feet. The climate at the elevation of the property, although somewhat severe during the winter and early spring months, generally permits year around mining operations.

Considerable Red Spruce timber, ideal for most mine uses, occurs on the property. There are no permanent streams in the immediate vicinity. It is indicated that the water which will be pumped from the proposed underground workings will be ample for all mining purposes. A hydroelectric plant of the Public Service Company of Colorado is located on Middle Boulder Creek a few miles west of Boulder. Although transmission lines from this plant extend throughout the district, they do not cross these

particular claims and their extension to the property for the purposes of the proposed project are not anticipated.

George Prime, one of the applicant partners, owns part interest in the Hoosier mill located about a mile northeast of Nederland. It is anticipated that any ore produced from the property will be trucked to and concentrated at this mill. Two other custom mills currently are operating within the district. The former Wolf Tongue Mill, presently operated by Cold Spring Tungsten, Inc., is located at Nederland. The Marion Mill, presently operated by Wah Chang Corp., is located in Bummer Gulch about 2 miles northeast of the property. Tungsten Refining, Inc., purchases higher grade ores and concentrates at its artifical scheelite plant in Boulder.

Mining labor usually can be secured within the area. Some housing is available in Nederland and other camps throughout the district but most mine personnel live in Boulder and drive to and from work. Boulder is the nearest supply center. It is served by the Union Pacific and the Colorado and Southern Railroads. Denver is the commercial and financial center of the region.

HISTORY AND PRODUCTION

To date, the Pennsylvania lode only has been prospected along the surface. It has no recorded past production. The owner of the property stated that several tons of material excavated from one of the early-day pits along the vein was marketed. The shipment reportedly assayed about 8 percent WO_3. Such a grade indicates that the material probably had been up graded by hand sorting.

The Comet claim was located November 4, 1902; the Pennsylvania claim, on February 18, 1916. Both were patented on September 18, 1916. Subsequent attempts by various parties to lease the property from the owner have been unsuccessful. The Thanksgiving claim was located November 26, 1955.

The property is located in a highly productive area within the eastern part of the tungsten district. The Roosevelt tunnel, Annie L. shaft, and Black Prince mine, all immediately south of the property in Black Tiger Gulch, have a combined past production of nearly 13,000 short ton units of WO_3. The Pueblo Belle mine, located nearer to the mouth of the gulch, has produced more than 5,000 units. Numerous other mines in the gulch have produced lesser amounts of tungsten. Many of the earlier mines in this immediate area were developed on gold telluride veins and have no recorded past production of tungsten. A few have produced both gold and tungsten.

The Good Friday-April Fool mine, one of the larger producers in the district, is located on the eastern slope of North Boulder Creek Canyon approximately 4,000 feet southwesterly along the projected strike of the Pennsylvania lode. It has an estimated past production of around 140,000 units and currently is in operation. The Lucky 2 and Eureka mines, with past productions of 73,000 and 27,000 units respectively, are about 1 mile southwest of the property. The Eureka mine also is in operation. The Dorothy-Katie mines with a combined past production of about 25,000 units, along with several smaller producers are located in Millionaire Gulch about 1 mile northeast of the property.

OWNERSHIP AND EXTENT

The patented Pennsylvania and Comet lode mining claims (U.S. Mineral Survey No. 19740) are owned by Joseph Rafter, a local resident with a mailing address c/o Sugar Loaf, Star Route, Boulder, Colo. Rafter also owns a number of nearby claims not included with the application. Both of the patented claims included with the application are approximately 150 feet wide and 1,500 feet long. The Pennsylvania is a prior location and takes precedence over the area in which it is in conflict with the overlapping Susie L. claim (U.S. Mineral Survey No. 18036).

The unpatented Thanksgiving lode mining claim was staked by the applicants on November 26, 1955. Its certificate of location was filed in the name of Joseph Rafter on December 6, 1955, on page 106 in book 998 of the Boulder County records. Copies of the location certificate, as recorded, have been submitted by the applicants. The rectangular Thanksgiving claim is 600 feet wide by 1,500 feet long and takes in all previously unlocated ground within its boundaries.

Rafter, on August 24, 1955, leased to the applicants, that part of the Pennsylvania claim lying between its eastern end line and its angle corners (a linear distance of some 1,150 feet). The lease was for a period of 5 years or until the ground covered by the lease was worked out. The stipulated royalty payments to the lessor were 25 percent of the net value received on all production from the property marketed as crude ore and 20 percent on all resulting production that was milled and sold in the form of concentrates.

A brunton and tape survey by the examining team revealed that the apex of the Pennsylvania vein did not parallel the length of the Pennsylvania claim but coursed diagonally across its northern side line. The apex of this structure, as projected, extended across an unlocated fraction of ground outside the claim boundary and onto the Comet claim. Only about 340 feet of its apex occurred within the boundaries of the leased property originally included with the application.

The Thanksgiving claim was laid out with a transit and chain. It was staked along the apex of the vein as projected through that fraction of ground occurring between the side lines of the Pennsylvania and Comet claims. It also covered a small wedge of previously unlocated ground on the northeastern end of the Pennsylvania claim through which the apex of the vein apparently projected.

By an amendment dated December 10, 1955, the Thanksgiving claim and that part of the Comet claim extending for 75 feet on each side of the Pennsylvania vein were added to the ground covered in the original lease. The other provisions of the lease were unchanged. In a letter dated December 10, 1955, the applicants submitted a copy of the amended lease and requested that the addition property included therein be made part of their original application.

The ground presently controlled by the applicants (fig. 2) includes approximately 1,200 feet along the exposed or projected apex of the Pennsylvania vein. This distance is considered ample for the protection of the Government should proposed exploration project be approved.

GEOLOGY AND ORE DEPOSITS

The Boulder County tungsten district is on the northeast end of the Front Range Mineral Belt. The district is underlain by Pre-Cambrian rocks including coarse-grained gneissic granite (Quartz monzonite), schist, gneiss, pegmatite, and aplite. The Pre-Cambrian rocks are intruded by dikes of various rock types all believed to be Tertiary in age.

The most conspicuous structural feature in the district is a series of persistent northwest-striking brecciated zones known as breccia reefs. They are probably Paleocene in age and pre-date the northeasterly to easterly trending fractures that contain the ferberite-bearing veins.

The property is in the eastern part of the district and is underlain by gneissic granite of the Boulder Creek batholith. Dikes of aplite are exposed on and adjacent to the claims. The Livingston breccia reef zone is exposed just east of the Pennsylvania claim and a very prominent gabbro dike outcrops a few hundred feet east of the breccia reef.

The Pennsylvania vein is exposed intermittently for a distance of some 340 feet on the northeastern end of the Pennsylvania claim. It is a strong structure consisting of from 2 to 5 feet of pegmatitic vein material, primarily feldspar and quartz, containing some horn quartz and significant amounts of ferberite. The vein strikes about N. 75° E. and dips from 60° to 80° northwest.

Ferberite is present as a fine to moderately coarse-grained cement in brecciated vein material and as fillings along minor fractures. It is disseminated throughout the width of the vein and it does not appear likely that a high grade direct shipping product could be hand sorted from the crude ore.

One sample taken across a 5-foot width of the vein exposed in a shallow trench on the Pennsylvania claim (RLB-136 on fig. 3) assayed 2.16 percent WO_3 and only 0.01 percent phosphorous. A composite sample derived from several selected specimens of the more highly mineralized vein material that were obtained from the various surface exposures of the structure assayed 4.88 percent WO_3 and 0.02 percent phosphorous. The latter grade probably is representative of the hand sorted, up-graded product that could be shipped from the deposit.

Significant ore reserves may be inferred on the basis of the above mentioned grade and dimensions of the deposit and on the assumption that the structure will continue similarly mineralized to moderate depths below its surface exposures. Rough calculations based on the assumption that the vein will average 2 percent WO_3 over a minimum mining width of 30 inches for a distance of only one-half its presently exposed length, indicate that the deposit could yield about 42.5 tons of ore containing some 85 short ton units of WO_3 per foot of depth. About 4,250 tons containing some 8,500 units of WO_3, therefore, can be inferred for the deposit to depths of 100 feet below the surface.

Such reserves, if sold as crude ore at the current market price in the district, would have a unit value of approximately $55.00 per ton or a total value of about $233,750.00. If marketed as 55-60 percent WO_3 concentrates, such reserves would have a unit value of about $60.00 per short ton unit of contained WO_3 or, assuming an over-all mill recovery of 70 percent, a total value of some $357,000.00. If and when the Government stockpile program is closed, the open market price for such concentrates may drop to $40.00 or less per unit and the value of the reserves in this deposit would be reduced a corresponding amount.

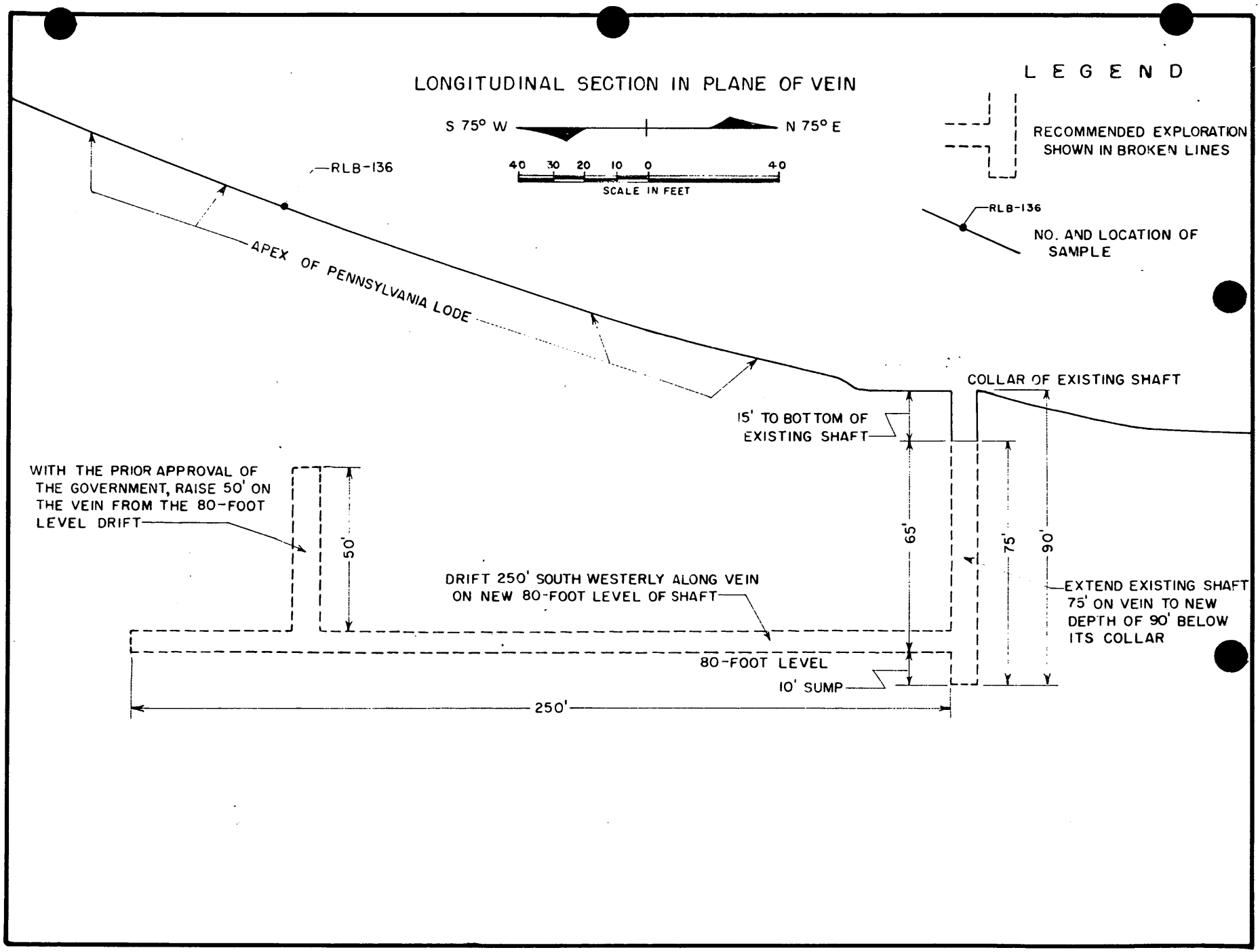

FIGURE 3 - LONGITUDINAL SECTION ALONG THE PENNSYLVANIA LODE, BOULDER COUNTY, COLO., SHOWING LOCATION AND EXTENT OF RECOMMENDED EXPLORATION. (ELMER HETZER ET AL. DMEA 3981 (TUNGSTEN)

Most of the estimated reserves must be placed in the category of inferred ore; only a very minor amount can be considered as indicated ore. Such reserves, however, are considered justification for the Government to participate in the cost of exploring the deposit, providing its participation remains within the general range of the $11,470.62 amount requested by the applicants. The reserves in the deposit appear sufficient for the ultimate repayment of the requested exploration assistance at the standard 5 percent royalty rate and at either the current or the probable future market prices of tungsten concentrates.

PRESENT STATUS OF THE PROPERTY

The deposit has had no previous exploration or development except for the early day prospect pits and trenches that were excavated along its apex on the Pennsylvania claim.

The applicants recently improved certain sections of the old road through Black Tiger Gulch and also repaired a branch off of that road which extends across the eastern end of the Pennsylvania claim. They subsequently established a modest surface plant at the site of the proposed exploration shaft.

On the date of inspection, a shaft had been collared on the outcrop of the Pennsylvania vein and sunk along the dip of that structure to a depth of 15 feet below the surface. The shaft was cribbed to its completed depth and was portioned so as to provide for manway and hoisting compartments. The hoisting compartment measured 4 by 3-1/2 feet in cross section inside the timbers; the manway was 3 by 3-1/2 feet in cross section inside the timbers. A 27-foot, 4-post, wooden headframe, complete with a sheave wheel and facilities for dumping a shaft bucket, was errected over the collar of the new shaft.

A combination hoist, compressor, and shop building was constructed adjacent to the shaft collar. The building was of frame construction and was covered with asphalt roofing material. It had a 11- by 20-foot floor area. A Jaeger, size 125, portable, 2-stage air compressor and a 2- by 2-foot, single drum, friction-drive mine hoist were installed in the building. The air compressor was powered with a 6-cylinder, Continental gasoline engine and was equipped with a 2-by 4-foot steel air receiver tank. The rated capacity of the compressor was 125 c.f.m. The hoist was powered by a 6-cylinder Dodge gasoline engine; its drum was wrapped with 500 feet of 7/8-inch wire rope. The compressor was new equipment; the hoist, although older, was in good serviceable condition.

The other major items of mining equipment observed on the property during the inspection included a Thor 55-pound sinking drill, a 1- by 4-foot steel water pressure tank, an Ingersoll-Rand size 25 pneumatic sump pump, and a 300-gallon capacity gasoline storage tank. Miscellaneous hand tools were provided. A 1954 standard, 4-wheel drive Jeep was used for transporting personnel and supplies to the property. A small explosives magazine had been constructed a safe distance from the surface plant.

To date, the applicants, in addition to furnishing the above operating equipment, have spent somewhere between $2,000.00 and $2,500.00 in preparation of the property for the proposed exploration project. Project operations can be started immediately if and when their application for exploration assistance is approved.

PROJECT PROPOSALS WITH COSTS

The project work proposed by the applicants has been summarized in the introduction to this report. The proposed project, except for the

minor modifications detailed below, is considered feasible and, from present knowledge, appears to be the most logical method of exploring the deposit at moderate depths below the surface.

The location of the proposed shaft is approximately on the center line of the Pennsylvania claim about 90 feet inside its northeastern end line. Actually the northeastern projection of the vein continues for another 50 feet beyond this end line on ground controlled by the applicants. In a southwesterly direction from the proposed shaft, the apex of the vein crosses the northwestern side line of the claim within a distance of some 250 feet. Its projection beyond this point continues for a maximum possible distance of 830 feet on the applicants' property. All of the drifting proposed by the applicant is located southwest of the shaft. Most of it will fall within the boundaries of the Pennsylvania claim; only the final few feet of the heading will extend onto ground covered by the Thanksgiving claim.

In their application, the partners proposed to sink the shaft 75 feet from the surface and to start the southwest drift at a depth of 60 feet. The lower 15 feet of the shaft is intended for a sump. Actually, a 10-foot sump is adequate. The shaft has been collared and sunk 15 feet below the surface since the application was submitted. Lateral exploration of the deposit at the greatest practical depth is considered warranted. It would appear more feasible to sink 75 feet from the bottom of the existing shaft, or to a depth of 90 feet below the surface, and to start the drift from the shaft at a depth of some 80 feet below its collar. The topography steepens southwest of the shaft and some additional depth below the surface would be gained as the drift was extended in this direction.

The 50 feet of raising proposed by the applicants may or may not be warranted depending upon the conditions encountered along the drift. This amount of raising is included with the work recommended for the project contingent that it be started only with the prior approval of the DMEA Field Team.

The details of the project work being recommended by the examining team are summarized in Table 2. The location and extent of the recommended work is shown on figure 3.

The applicants estimate that the proposed 75 feet of sinking, 250 feet of drifting, and 50 feet of raising could be completed for an over-all total cost of $15,294.16. This total amount is equivalent to unit costs of approximately $80.00 per foot of sinking, $30.00 per foot of drifting, and $35.00 per foot of raising. Such unit costs are within the range of those experienced for similar types of work currently being performed with average efficiency elsewhere within the district. They approximate those that have been approved and experienced at a number of other DMEA projects in the district.

The costs estimated for this particular project are summarized in Table 1.

The following time schedule for the completion of the recommended project work was used in estimating the costs in Table 1.

Description of work	Average advance per shift	Estimated time for completion
75 feet of shaft sinking	1-1/2 ft. per shift	50 shifts or approximately 2 months
250 feet of drifting	3-1/2 ft. per shift	71 shifts or approximately 3 months
50 feet of raising	2-1/2 ft. per shift	20 shifts or approximately 1 month
	Total	141 shifts or approximately 6 months

Contract labor to perform the various classes of project work is available within the district at the following rates:

Type of work	Standard contract rate
Shaft sinking (0 to 100 feet)	$40.00 per foot
Drifting and raising	$12.00 per foot

Such rates have been used in the cost estimates instead of those shown in the application. In addition, the project will require a full-time combination hoistman-topman at a rate of $1.70 per hour, or $14.73 per shift including overtime, and a part-time project supervisor or foreman at a rate of $2.00 per hour, or approximately $10.00 per shift.

The operating equipment, which will be provided for the project, is listed below. This equipment is wholly owned by the applicants and the standard monthly depreciation rate of 1/60 of its value has been included in the cost schedule.

Description	Value
Jaeger 125 portable, 2-stage air compressor, with Continental engine, air receiver, etc.	$3,650.00
Single-drum mine hoist, with Dodge engine, depth indicator, hoisting cable, sheave wheel, shaft bells, etc.	1,000.00
Gardner-Denver R91 stoping drill	600.00
Thor 55-pound sinking drill with pneumatic feed leg	650.00
Set of air and water hoses with line oiler	50.00
Ingersoll-Rand size 25 pneumatic sump pump	300.00
40-gallon water pressure tank	50.00
2-hoisting buckets	100.00
Hoisting bucket dolly	35.00
300-gallon gasoline storage tank	100.00
C. S. Card 16-cubic foot end-dump mine car	150.00
Shaft bailer	65.00
1954 standard 4 x 4 Jeep	750.00
Total value	$7,500.00
Monthly depreciation	$ 125.00

Liability insurance (Colorado Workmans Compensation and Occupational Disease Insurance) will amount to approximately 3 percent of the gross payroll of the project; payroll taxes (Employer's share of Social Security taxes and both State and Federal unemployment taxes) will cost another 5 percent of the project payroll.

Table 1.--Schedule of costs estimated for the recommended exploration project

Items of cost	Total cost	Distribution of costs to project operations (sinking)	(drifting)	(raising)
Labor and supervision				
Foreman	$1,410.00	$ 500.00	$ 710.00	$ 200.00
Hoistman-topman	2,076.50	736.50	1,046.00	294.00
Contract labor	6,600.00	3,000.00	3,000.00	600.00
Operating materials and supplies				
Timber	486.00	275.00	141.00	70.00
Explosives	1,313.00	272.00	890.00	151.00
Pipe*	225.00*	75.00*	125.00*	25.00*
Track*	250.00*		250.00*	
Power (gasoline)	790.00	285.00	400.00	105.00
Drill steel, bits	365.00	75.00	250.00	40.00
Small tools, miscellaneous supplies	435.00	150.00	250.00	35.00
Operating equipment				
Depreciation of owned equipment	750.00	250.00	375.00	125.00
Miscellaneous				
Repairs to equipment	230.00	80.00	120.00	30.00
Analysis of samples	100.00		not distributed	
Liability insurance, payroll taxes	807.00	339.00	380.50	87.50
Gross total cost of project	$15,837.50	$6,037.50	$7,937.50	$1,762.50
Less salvage value of unexpended materials*	-237.50*	-37.50*	-187.50*	-12.50*
Net total cost of project	$15,600.00	$6,000.00	$7,750.00	$1,750.00
Recommended units of work:		75 feet	250 feet	50 feet
Net unit cost:		$80.00/ft.	$31.00/ft.	$35.00/ft.

Table 2.--Summary of recommended project work with estimated costs

Description of work	Estimated cost
Starting from the bottom of an existing 15-foot shaft located on the apex of the Pennsylvania claim near the northeastern end of the Pennsylvania claim, extend the shaft an additional 75 feet along the dip of the vein to a new total depth of 90 feet below its collar. Shaft will be sunk to an 8-1/2- by 5-foot minimum cross section and timbered to a 7- by 3-1/2-foot cross section with standard, double-compartment shaft sets. (75 feet of shaft sinking at an over-all unit price of $80.00 per foot)	$6,000.00
At a depth of 80 feet below the collar of the above mentioned shaft, drift a total of 250 feet southwesterly from the shaft along the Pennsylvania vein. The drift will be driven to a 5- by 7-foot minimum cross section and supported, as required, with standard drift sets. (250 feet of drifting at an over-all unit price of $31.00 per foot)	$7,750.00
Dependent upon the conditions encountered along the above mentioned drift, and with the prior approval of, and at a location acceptable to the DMEA Field Team, raise a total of 50 feet along the Pennsylvania vein from the 80-foot level southwest drift. Raise will be driven to an 8- by 4-1/2-foot minimum cross section and timbered so as to provide for both a manway and a chute compartment. (50 feet of raising at an over-all unit price of $35.00 per foot)	$1,750.00
Sample and assay the mineralized sections of the vein as may be exposed along the various project headings. (20 chemical analyses for tungsten trioxide at a unit price of $5.00 each)	$ 100.00
Total estimated cost of the project	$15,600.00
Government participation (75 percent)	$11,700.00

CONCLUSIONS

The Pennsylvania vein is a strong, well mineralized structure located within a highly productive area of the Boulder County tungsten district. The vein is exposed in a number of shallow early-day, prospect pits and trenches on the Pennsylvania claim but heretofore has neither been explored nor developed underground. Its exploration to moderate depths below the surface, as proposed by the applicants, is considered warranted. From their present knowledge of the deposit, the examining team concludes that such exploration as is proposed by the applicants will result in the discovery and development of significant reserves of tungsten ore.

Except for certain minor details, the applicants' proposed project is considered the most feasible means of exploring the deposit and does conform to the usual exploration methods and mining procedures as practiced in the district. The individual applicants all are reputable mine operators with considerable previous experience in the tungsten district and should be able to carry out project work efficiently and according to accepted mining standards. They are able to finance their share of the project costs. The property rights, as revised, are sufficient for the protection of the interests of the Government. The program otherwise appears to meet the general requirements and conditions for Government participation and only slight modifications in the details of the proposed work and the estimated costs were considered necessary.

RECOMMENDATIONS

The proposed exploration project, as modified in this report, is recommended for approval at an estimated total cost of $15,600.00 (Government participation 75 percent, or $11,700.00). A unit cost, short-form type of exploration project contract is suggested.

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

Docket

JAN 3 1956

224 New Customhouse
Denver 2, Colorado

December 30, 1955

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3981 (Tungsten), Elmer Hetzer, et al., (Pennsylvania Lode), Boulder County, Colorado

WSM

Enclosed are the following:

1. Mining Lease dated August 24, 1955 between Joseph Rafter and Elmer Hetzer, et al.

2. The original and one copy of a Supplement and Addition to Mining Lease dated December 10, 1955 which includes the Thanksgiving Lode mining claim and a part of the Comet Lode mining claim.

3. The original and one copy of the location certificate on the Thanksgiving Lode mining claim.

Owner's Consent to Lien forms have been prepared in this office and have been forwarded to the applicant to obtain the owner's signature.

The joint report of examination recommending approval of an exploration contract follows.

W. M. Traver

W. M. Traver

Enclosures

WASHINGTON 25, D. C.

OFFICIAL BUSINESS

SUPPLEMENT AND ADDITION TO MINING LEASE

WHEREAS, On the 24th day of August, 1955, Joseph Rafter as Party of the First Part entered into a Mining Lease with George Prime, Elmer Hetzer, Richard Betasso and Ernest Betasso as Parties of the Second Part, which Lease covered a part of the Pennsylvania Lode Mining Claim, Survey Lot No. 19740, Sugar Loaf Mining District, Boulder County, Colorado.

AND WHEREAS, Said Joseph Rafter is the owner of the Comet Lode Mining Claim, Survey Lot No. 19740 and the Thanksgiving Lode Mining Claim, Location Certificate for which is found recorded in Book 998 at Page 106 of the Boulder County, Colorado, Records.

IT IS AGREED By and between the parties hereto that said Thanksgiving Lode Mining Claim and that part of the Comet Lode Mining Claim, to-wit: Seventy-five feet on each side of the Pennsylvania Vein which crosses said Comet Lode, shall be included in and become a part of said original Lease the same as if the property herein described was originally a part of said Lease.

DATED This 10th day of December, 1955.

Joseph Rafter (SEAL)
Joseph Rafter

George Prime (SEAL)
George Prime

Elmer Hetzer (SEAL)
Elmer Hetzer

Richard Betasso (SEAL)
Richard Betasso

Ernest Betasso (SEAL)
Ernest Betasso

SUPPLEMENT AND ADDITION TO MINING LEASE

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IT IS AGREED By and between the parties hereto that said Thanksgiving Lode Mining Claim and that part of the Comet Lode Mining Claim, to-wit: Seventy-five feet on each side of the Pennsylvania Vein which crosses said Comet Lode, shall be included in and become a part of said original Lease the same as if the property herein described was originally a part of said Lease.

DATED This 10th day of December, 1955.

Joseph Rafter (SEAL)
Joseph Rafter

George Prime (SEAL)
George Prime

Elmer Hetzer (SEAL)
Elmer Hetzer

Richard Betasso (SEAL)
Richard Betasso

Ernest Betasso (SEAL)
Ernest Betasso

BOOK 998 PAGE 106 Recorded DEC -6 1955 at 9:00 O'clock a M
Reception No. 566858 Milton E. Tschiche, Recorder

No. 162 LOCATION CERTIFICATE—Lode Claim. —Bradford-Robinson Ptg. Co., Mfrs. Robinson's Legal Blanks, Denver, Colo.

KNOW ALL MEN BY THESE PRESENTS, That Joseph Rafter

has located the Thanksgiving lode mining claim, and by this certificate, and by right of discovery and location, claim fifteen hundred feet, linear and horizontal measurement along the vein thereof, with all its dips, angles and variations as allowed by law seven hundred and fifty feet on said vein running N 76°25' E from the center of the discovery pit and seven hundred and fifty feet running S 76°25' W from the center of the discovery pit, together with three hundred feet on each side of the middle of said vein at the surface, and all veins, lodes, ledges, deposits and surface ground within the lines of said claim, situate in Sugar Loaf Mining District, County of Boulder, and State of Colorado and described by metes and bounds as follows, to-wit:

Beginning at Corner No. 1 A 4"x4" wooden post projecting 3' above the ground; from which the E 1/4 cor. Sect. 36 T. 1N., R. 72W., 6th P.M. bears S37°39'30"W 1849.86 feet.

Cor. No. 4 of the Pennsylvania lode, Sur. No. 19740 bears S 47°25' W 428.31 feet.

Thence S 76°25' W 1500.0 feet to Corner No. 2 A 4"x4" wooden post projecting 3' above the ground.

Thence S 13°35' E 300.0 feet to west end center of claim.

600.0 feet to Corner No. 3 A 4"x4" wooden post projecting 3' above the ground.

Thence N 76°25' E 1500.0 feet to Corner No. 4 A4"x4" wooden post projecting 3' above the ground.

Thence N 13°35' W 300.0 feet to east end center of claim.

600.0 feet to Corner No. 1; the point of commencement.

Said lode was discovered on the 26th day of November, A. D. 19 55
and located on the 26th day of November, A. D. 19 55
Dated this 5th day of December, A. D. 19 55

Joseph Rafter [SEAL]

[SEAL]

[SEAL]

[SEAL]

[SEAL]

[SEAL]

LOCATION CERTIFICATE

On the.....Lode

Mining Claim, in.....
Mining District.

.....

.....

Locator.....

STATE OF .....
County of .....} ss.

I hereby certify that this Location Certificate was filed for record in my office at.....

o'clock.....M., ...

19....., and is duly recorded in

Book.....Page.....

.....
Recorder.

By.....
Deputy.

Fees, $.....

7-55 BRADFORD-ROBINSON PTG. CO., DENVER

Filed for record the _____ day of _____, A. D. 19____, at _____ o'clock ____ M.

Reception No. _____ _____ RECORDER

(THIS MAP MUST BE ATTACHED TO LOCATION CERTIFICATE) BOOK 998 PAGE 107

MAP OF Thanksgiving **LODE**

attached to and hereby made a part of the Location Certificate, which map is prepared from an actual field survey of said Lode Claim.

1. Name and Address of Discoverer of Claim:

   Name Joseph Rafter

   Address Sugar Loaf Star Route

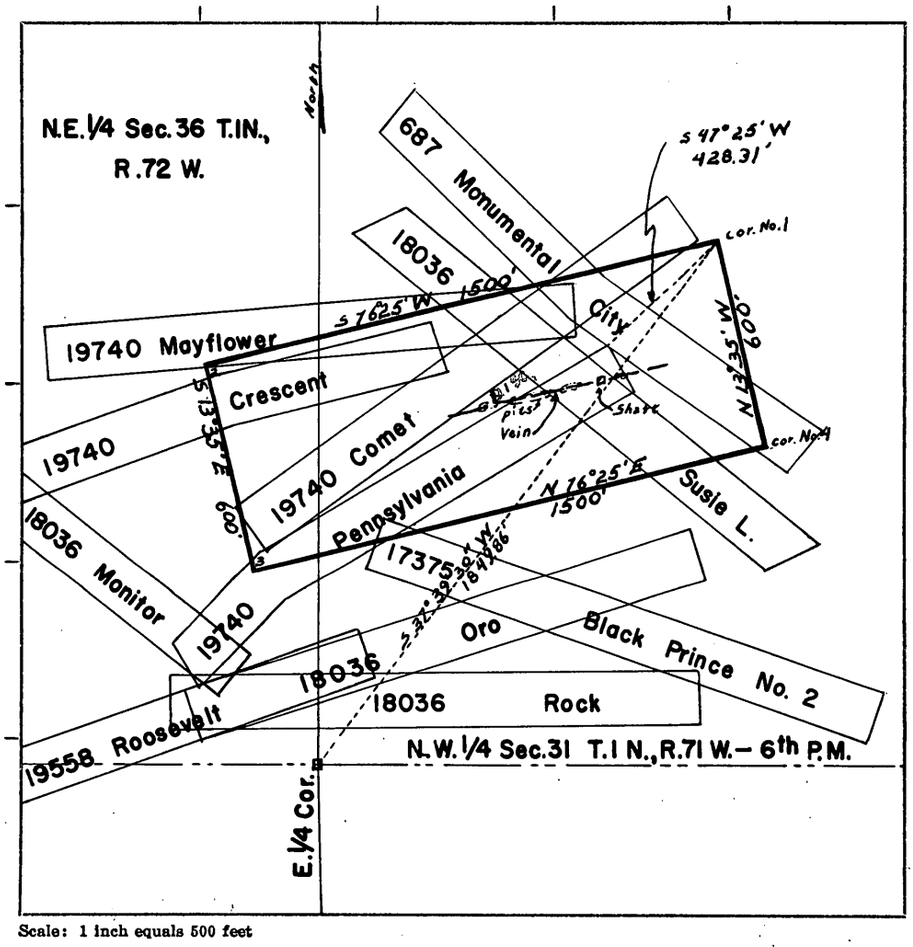
   Boulder, Colorado

2. Legal Subdivision of the land upon which the claim is located, if such land is surveyed:

   N.W. Quarter of Section 31, Township 1 N., Range 71 W.

   of the 6th Meridian, in the County of Boulder, State of Colorado.

3. The claim pattern with courses and distances of the boundary lines is as follows:



Scale: 1 inch equals 500 feet

Dated at Boulder, Colorado, this 5th day of December, 1955.

Joseph Rafter (SEAL)

(SEAL)

(SEAL)

(SEAL)

(SEAL)

(SEAL)

LOCATOR.....

(THE CLAIM PATTERN MUST REFER TO THE NEAREST SECTION OR QUARTER SECTION CORNER OF PUBLIC LAND SURVEY, IF SURVEYED, OR TO A PERMANENT MONUMENT, IF NOT SURVEYED, BY WHICH THE CLAIM ON THE GROUND CAN BE READILY AND ACCURATELY ASCERTAINED.)

92-22-6A—Colorado Revised Statutes, 1953

INDEXED
COMPARED

No. 566858

LOCATION CERTIFICATE AND

Lode Location Map

On the Thanksgiving Lode

Mining Claim of Joseph Rafter

in Sugar Loaf Mining

District, Boulder County,
State of Colorado.

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

I hereby certify that this Lode Location Map was filed for record in my office at

9:00 o'clock A M., Dec. 6th

19 55, and is duly recorded in Book

998 at Page 106.

Milton E. Tschiche
RECORDER

By Elma C. Davis
DEPUTY

Fees, $ 2.50 pd

WHEN RECORDED RETURN TO

Elmer Hetzer
2045 Mapleton
Boulder Colo

Out West Co., Colo. Sprgs. N7357

BOOK 998 PAGE 106 Recorded DEC -6 1955 at 9:00 o'clock A.M.
Reception No. 566838 Milton E. Tschiche, Recorder

No. 162 LOCATION CERTIFICATE—Lode Claim.—Bradford-Robinson Ptg. Co., Mfrs. Robinson's Legal Blanks, Denver, Colo.

KNOW ALL MEN BY THESE PRESENTS, That Joseph Rafter

has located the Thanksgiving lode mining claim, and by this certificate, and by right of discovery and location, claim fifteen hundred feet, linear and horizontal measurement along the vein thereof, with all its dips, angles and variations as allowed by law seven hundred and fifty feet on said vein running N 76°25' E from the center of the discovery pit and seven hundred and fifty feet running S 76°25' W from the center of the discovery pit, together with three hundred feet on each side of the middle of said vein at the surface, and all veins, lodes, ledges, deposits and surface ground within the lines of said claim, situate in Sugar Loaf Mining District, County of Boulder, and State of Colorado and described by metes and bounds as follows, to-wit:

Beginning at Corner No. 1 A 4"x4" wooden post projecting 3' above the ground; from which the E 1/4 cor. Sect. 36 T. 1N., R. 72W. 6th P.M. bears S37°39'30" 1849.86 feet.

Cor. No. 4 of the Pennsylvania lode, Sur. No. 19740 bears S 47°25' W 428.31 feet.

Thence S 76°25' W 1500.0 feet to Corner No. 2 A 4"x4" wooden post projecting 3' above the ground.

Thence S 13°35' E 300.0 feet to west end center of claim.

600.0 feet to Corner No. 3 A 4"x4" wooden post projecting 3' above the ground.

Thence N 76°25' E 1500.0 feet to Corner No. 4 A4"x4" wooden post projecting 3' above the ground.

Thence N 13°35' W 300.0 feet to east end center of claim.

600.0 feet to Corner No. 1; the point of commencement.

Said lode was discovered on the 26th day of November, A. D. 1955 and located on the 26th day of November, A. D. 1955

Dated this 5th day of December, A. D. 1955

Joseph Rafter [SEAL]

[SEAL]

[SEAL]

[SEAL]

[SEAL]

[SEAL]

(THIS MAP MUST BE ATTACHED TO LOCATION CERTIFICATE)

MAP OF Thanksgiving 1-LODE

attached to and hereby made a part of the Location Certificate, which map is [illegible] survey of said Lode Claim.

1. Name and Address of Discoverer of Claim:

Name Joseph Rafter

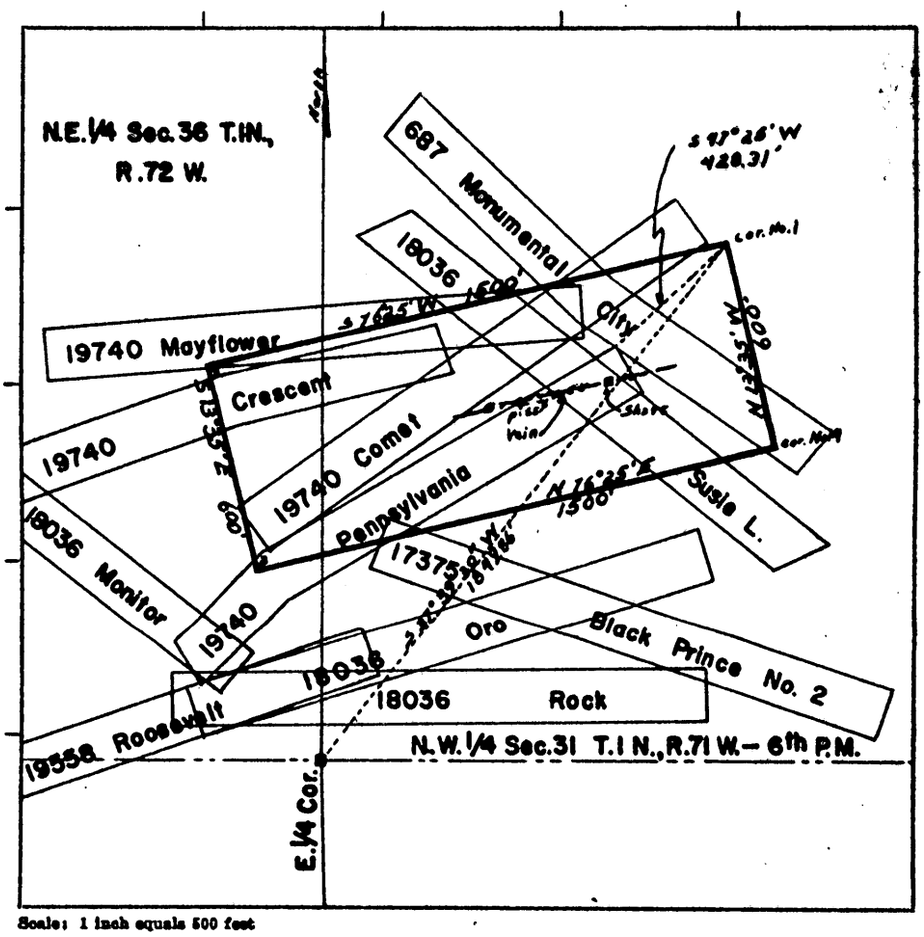
Address Sugar Loaf Star Route

Boulder, Colorado

2. Legal Subdivision of the land upon which the claim is located, if such land is surveyed:

N.W. Quarter of Section 31, Township 1 N., Range 71 W. of the 6th Meridian, in the County of Boulder, State of Colorado.

3. The claim pattern with courses and distances of the boundary lines is as follows:



Scale: 1 inch equals 500 feet

Dated at Boulder, Colorado, this 5th day of December, 1955.

Joseph Rafter (SEAL)

(SEAL)

(SEAL)

(SEAL)

(SEAL)

(SEAL)

LOCATOR

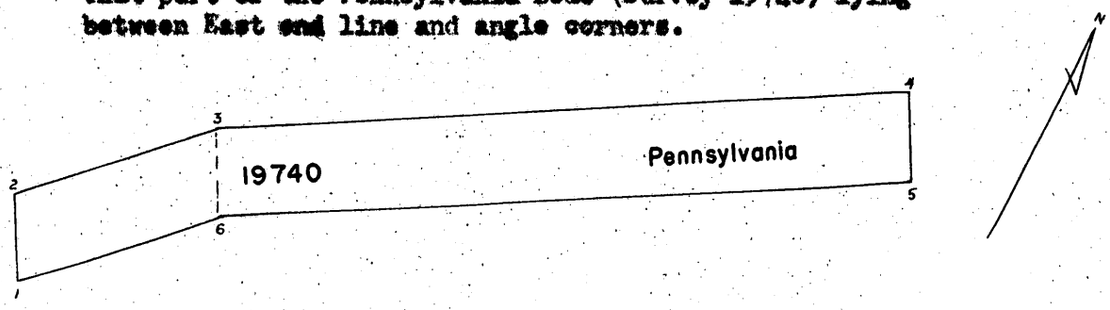
(THE CLAIM PATTERN MUST REFER TO THE NEAREST SECTION OR QUARTER SECTION CORNER OF PUBLIC LAND SURVEY, IF SURVEYED, OR TO A PERMANENT MONUMENT, IF NOT SURVEYED, BY WHICH THE CLAIM ON THE GROUND CAN BE READILY AND ACCURATELY ASCERTAINED.)

92-22-6A—Colorado Revised Statutes, 1953

MINING LEASE

THIS INDENTURE, Made this 24th day of August in the year of our Lord one thousand nine hundred and fifty-five between JOSEPH RAFTER, Party of the First Part, and GEORGE PRIME, ELMER HETZER, RICHARD BETASSO and ERNEST BETASSO, Parties 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:

That part of the Pennsylvania Lode (Survey 19740) lying between East end line and angle corners.



TO HAVE AND TO HOLD THE SAME, for the purpose of mining, for the term of five years, or until said Lease ground is worked out, 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 or his heirs.

And the said Parties of the Second Part, for and in consideration of the leasing of said premises, covenant and agree with said Party of the First Part to commence work on said premises within ten days from date hereof and thereafter to work the same continuously, in a thorough and workmanlike manner, employing at least two men underground, and working at least fifty 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 monthly 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:

On all ores not milled a royalty of 25% of returns less the cost of umpire assaying and on all ores milled a royalty of 20% of the returns from sale of said concentrates less the cost of umpire assaying, and to assume and pay in due season 78% of the production taxes on ore and concentrates produced under this Lease, and the said Parties of the Second Part shall sell all said ores and concentrates in open market to the highest responsible bidder.

To insure themselves and employee with Workmens Compensation issued by the State of Colorado.

To leave a solid block of ground on each side of shaft about ten feet in length.

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 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.

To place stulls five feet apart center to center, stulls to measure at least 8½ inches at small end.

To comply with all state and government laws and regulations.

And the said Parties of the Second Part furthermore covenant and agree that the said Party 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 Parties of the Second Part will render to him all the assistance in their power in so doing. And the said Parties of the Second Part furthermore covenant and agree 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 Parties of the Second Part or by any person working under them in any manner, by working within or from the aforesaid premises, as the property of the said Party 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 Parties of the Second Part furthermore covenant and agree that in case of failure 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 Party 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 Parties of the Second Part agree to surrender, yield and deliver to said Party 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.

Joseph Rafter (SEAL)
Joseph Rafter

George Prime (SEAL)
George Prime

Elmer Hetzer (SEAL)
Elmer Hetzer

Richard Betasso (SEAL)
Richard Betasso

Ernest Betasso (SEAL)
Ernest Betasso

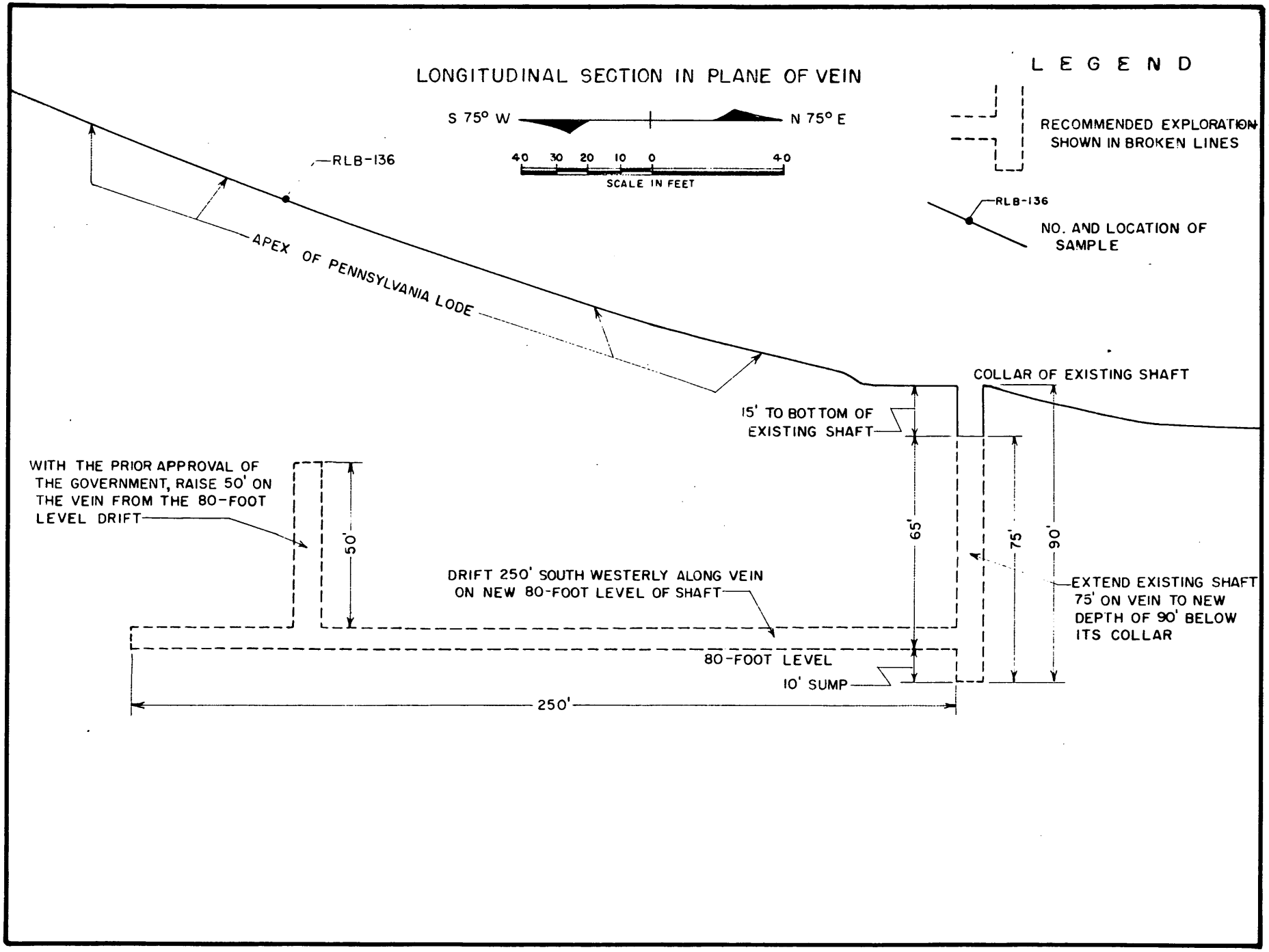
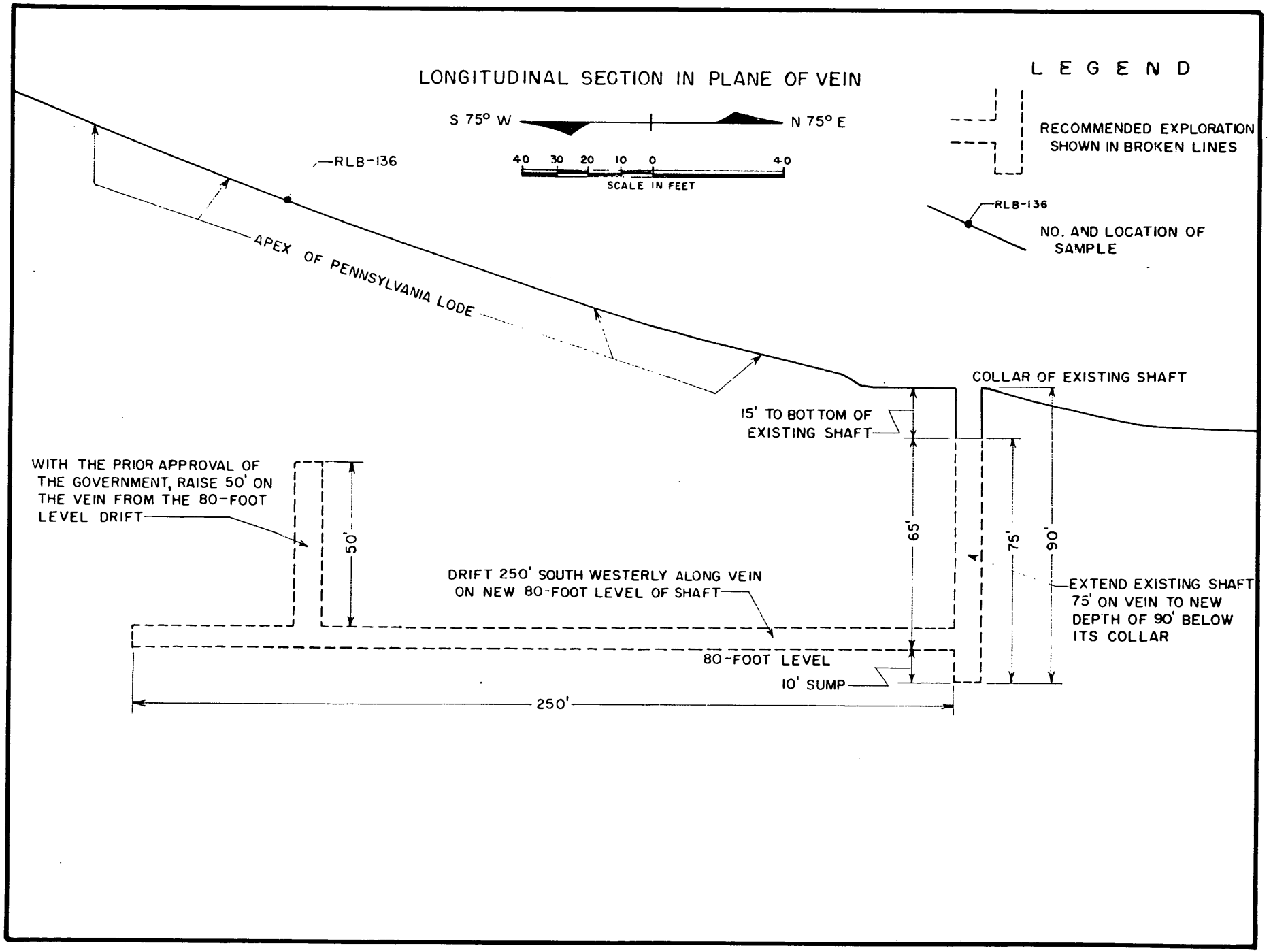


FIGURE 3 - LONGITUDINAL SECTION ALONG THE PENNSYLVANIA LODE, BOULDER COUNTY, COLO., SHOWING LOCATION AND EXTENT OF RECOMMENDED EXPLORATION. (ELMER HETZER ET AL. DMEA 3981 (TUNGSTEN)



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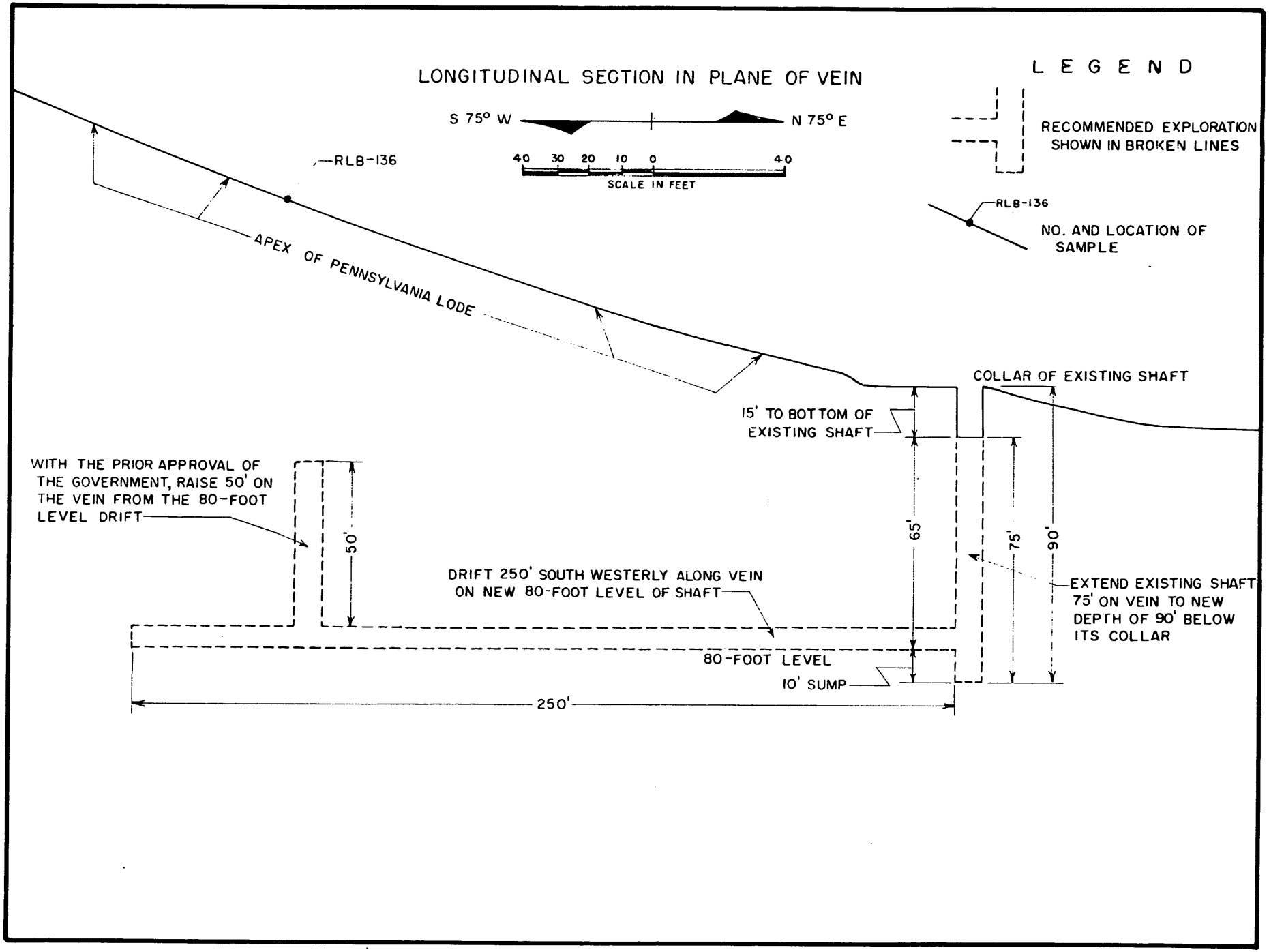

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400

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

224 New Customhouse
Denver 2, Colorado

December 30, 1955

WSM

Mr. Elmer Hetzer
2045 Mapleton Avenue
Boulder, Colorado

Re: Docket DMEA 3981

Dear Mr. Hetzer:

Enclosed are the original and five copies of Form MF-203, Owner's Consent to Lien, to be signed by Joseph Rafter, owner of the claims. After obtaining Mr. Rafter's signature on the original and five copies, please return them to this office so that we may continue to process your application.

Yours very truly,

W. M. Traver

W. M. Traver
Executive Officer, DMEA
Field Team, Region III

Enclosures

HMC:jy

cc: Docket 3981
Sec. Op. Comm. (2)
Shaw
Harshman
Chron.

Docket

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

RECEIVED
OCT 6 - 1955

October 3, 1955

224 New Customhouse
Denver 2, Colorado

WSM

Copy re-mailed AMD

Memorandum

To: W. M. King (With brochure)
E. N. Harshman

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 3981, (Tungsten), Elmer Hetzer, Pennsylvania Lode, Boulder County, Colorado

Enclosed is the subject application in the amount of $15,294.16. The brochure consists of Form MF-103, accompanying summer sheets, and one claim map. Also enclosed is a copy of a letter from the Chairman of the Operating Committee with attached memoranda from the Commodity members.

A field investigation and suitable report are requested.

W. M. Traver

W. M. Traver

Enclosures

HMC:ab
cc: Chair. Opr. Comm. (2)
Harshman
Docket 3981
Chron.

DOCKET
SURNAME

400 Chapman
Martin
Selfridge
Johnson

SEP 29 1955

Mr. W. M. Traver, Executive Officer
DMEA Field Team, Region III
224 New Custom House Building
Denver 2, Colorado

Re: Docket No. DMEA 3981 - Tungsten
Elmer Hetzer
Pennsylvania Lode
Boulder County, Colorado

Dear Mr. Traver:

The above docketed application for exploration assistance is being referred to your office for review and a possible field examination of the property.

Two copies each of relevant memoranda dated September 20, 1955, one by N. E. Nelson, Geological Survey and the other by Wilmer McInnis, Bureau of Mines, are enclosed for your information.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (JHB)

Enclosure

TLChapman:foc 9/27/55
cc to: Docket
Code 400
Adm. Read. File
Operating Comm.
FT. REG. III
Messrs. Mr McInnis, USBM
Kiilsgaard, USGS

APPROVED:

P. F. Yopes (JHB)
Member, Bureau of Mines

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

R.C.S.

DOCKET
SURNAME
400 Chapman
Martin
Yopes
Nelson
Selfridge
Fe Brown

SEP 29 1955

Mr. Elmer Ketner
P. O. Box 641
Boulder, Colorado

Re: Docket No. DMEA 3961 - Tungsten
Pennsylvania Lode
Boulder County, Colorado

Dear Mr. Ketner:

The above docketed application for exploration assistance for tungsten ores has been reviewed by the Iron and Ferro-Alloys Division of the Defense Minerals Exploration Administration and referred to Mr. V. M. Tracey, Executive Officer, DMEA Field Team, Region III, 7th Floor Custom House Building, Denver 2, Colorado, for a review and a possible field examination of the property.

If an examination is found necessary any assistance you can give the field team will be appreciated.

Sincerely yours,

C. O. Mittendorf

Administrator

TLCHAPMAN/fcc
9-27-55
cc to: Docket
Code 400
Adm. Read. File
Operating Comm.
FT. REG. III
Messrs. Holliday, USBM
Killsgaard, USGS

R.S.F.

Docket

IN REPLY REFER TO:

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

September 20, 1955

Re: DMEA 3981
Elmer Hetzer
Pennsylvania Lode
Boulder County, Colorado
$15,294.16 - Tungsten

Copy retained 100

WSM

Memorandum

To: W. S. Martin, Defense Minerals Exploration Administration

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

Subject: Review of application.

The applicant asks for aid in exploring a newly-discovered vein, the work to consist of:--

Sinking	75 feet	at $45.00	$ 3,375.00
Drifting	250 feet	at 20.00	5,000.00
Raising	50 feet	at 12.00	600.00
Supplies, etc.			6,319.16
			$15,294.16

I have no information on this Pennsylvania vein. From another of the same name, on Peewink Mountain, there is reported production. The general area which includes this Pennsylvania claim is classed as one of "important tungsten production" by Lovering and Tweto in Geology and Ore Deposits of the Boulder County Tungsten District, Colorado, Plate 3, Professional Paper 245, 1953. Probably the field office has information at hand, and a report can be made without an examination.

Referral to the Field Team is recommended.

N. E. Nelson

N. E. Nelson

Docket

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

September 20, 1955

Copy retained 400

Memorandum

WSG

To: Chief, Iron and Ferroalloys Division - DMEA
Through: Acting Chief, Branch of Ferrous Metals & Ferroalloys H.W.D.

From: Commodity Specialist

Subject: Docket No. DMEA 3981 - Tungsten
Pennsylvania Property, Boulder County, Colorado

The subject application is for Government aid in the exploration of a tungsten property estimated to cost $15,294.16.

According to the application, the property appears to have a sufficient showing of tungsten to warrant further examination. Therefore, it is recommended that the application be referred to the field team for examination.

Wilmer McInnis

Wilmer McInnis

September 19, 1955
Subject: DMEA-3981
Re: Exploration Assistance
Elmer Hetzer et al

Mr. Elmer Hetzer
P. O. Box 641
Boulder, Colorado

Dear Mr. Hetzer:

The receipt of your application dated September 19, 1955, for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3981 and referred to the Iron & Ferro-Alloys Division.

Kindly identify all future correspondence relating to your application by this docket number.

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

September 19, 1955

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

There is listed below the assigned docket number to an application recently received from Region III.

DMEA - 3981 Elmer Hetzer ~~et al.~~
George Prime
Richard Betasso
Ernest Betasso

Robert E. Adams
Chief, Operation's Control
and Statistics Division

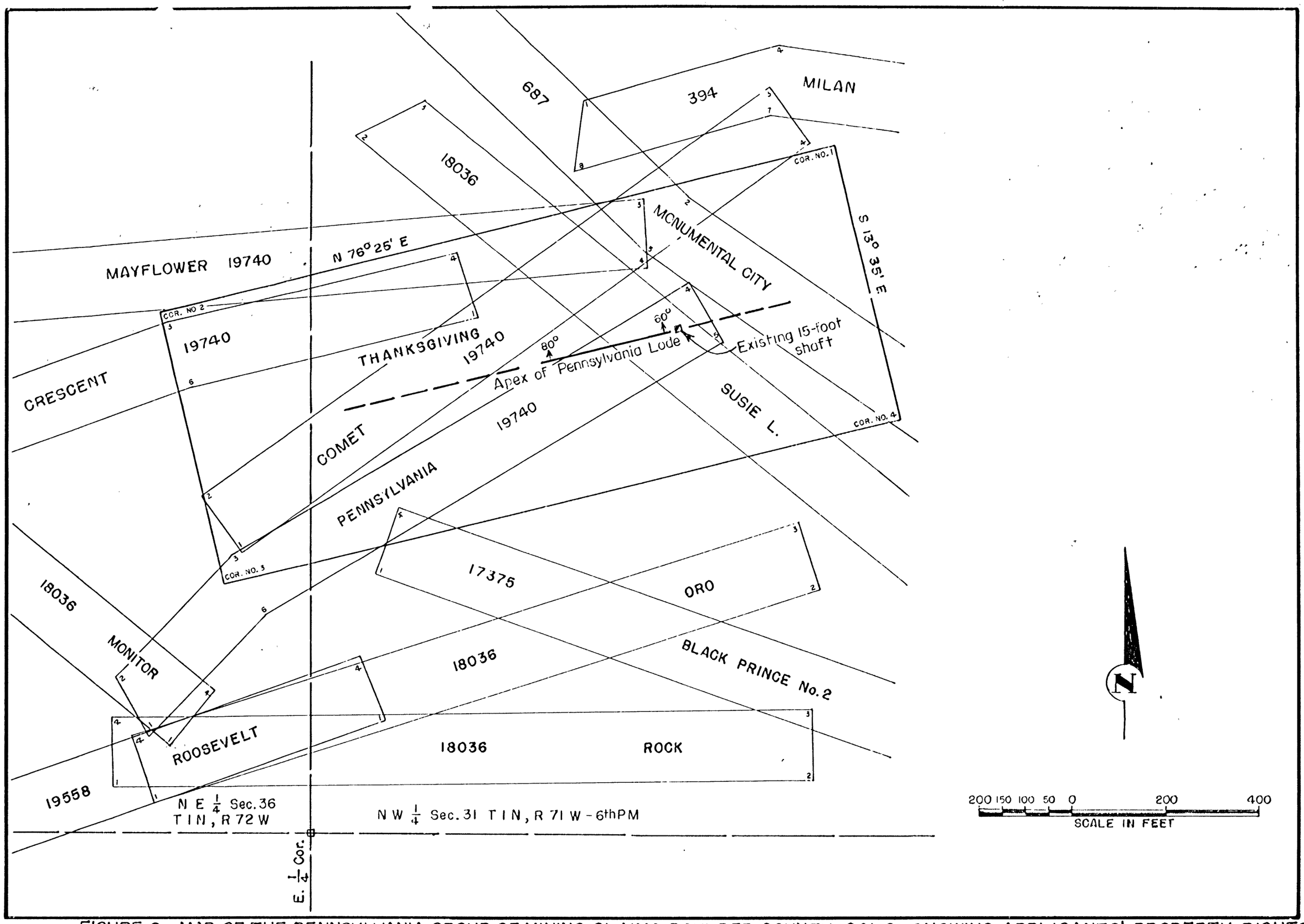
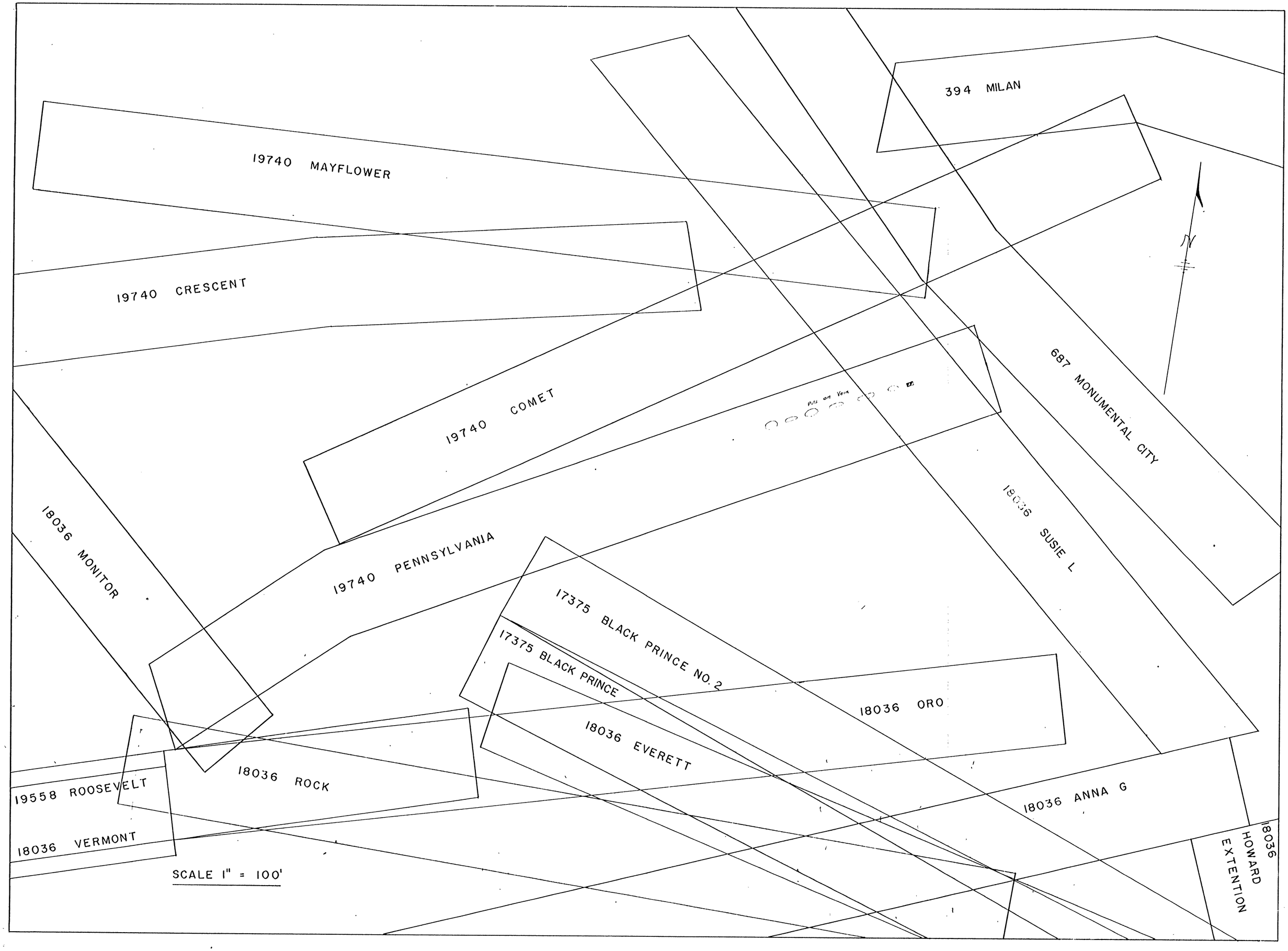
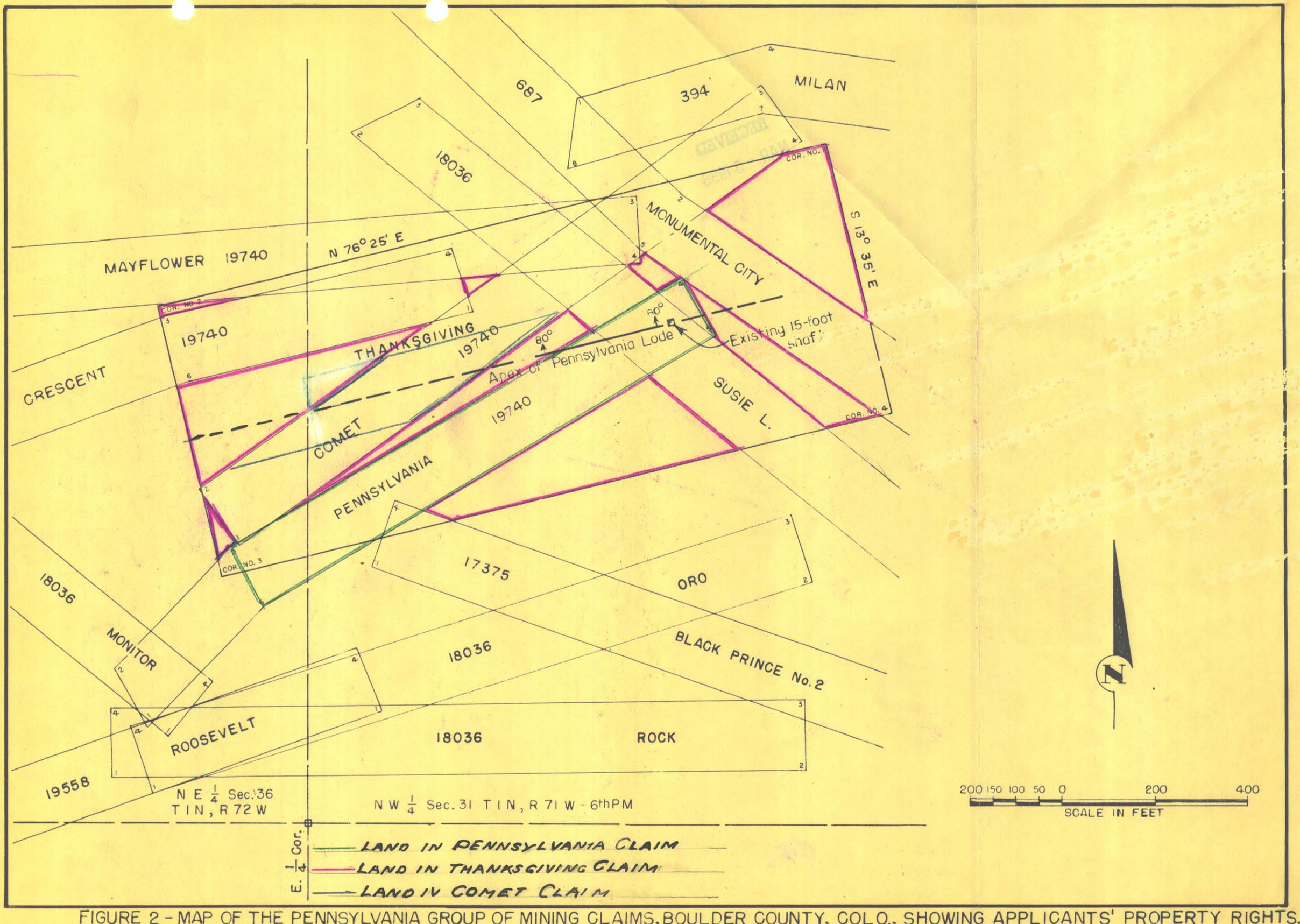


FIGURE 2 - MAP OF THE PENNSYLVANIA GROUP OF MINING CLAIMS, BOULDER COUNTY, COLO., SHOWING APPLICANTS' PROPERTY RIGHTS.
(ELMER HETZER ET AL. DMEA 3981)


394 MILAN
19740 MAYFLOWER
19740 CRESCENT
19740 COMET
687 MONUMENTAL CITY
Pits on Vein
18036 SUSIE L
18036 MONITOR
19740 PENNSYLVANIA
17375 BLACK PRINCE NO. 2
17375 BLACK PRINCE
18036 ORO
18036 EVERETT
18036 ROCK
19558 ROOSEVELT
18036 VERMONT
18036 ANNA G
18036 HOWARD EXTENTION
N
SCALE 1" = 100'



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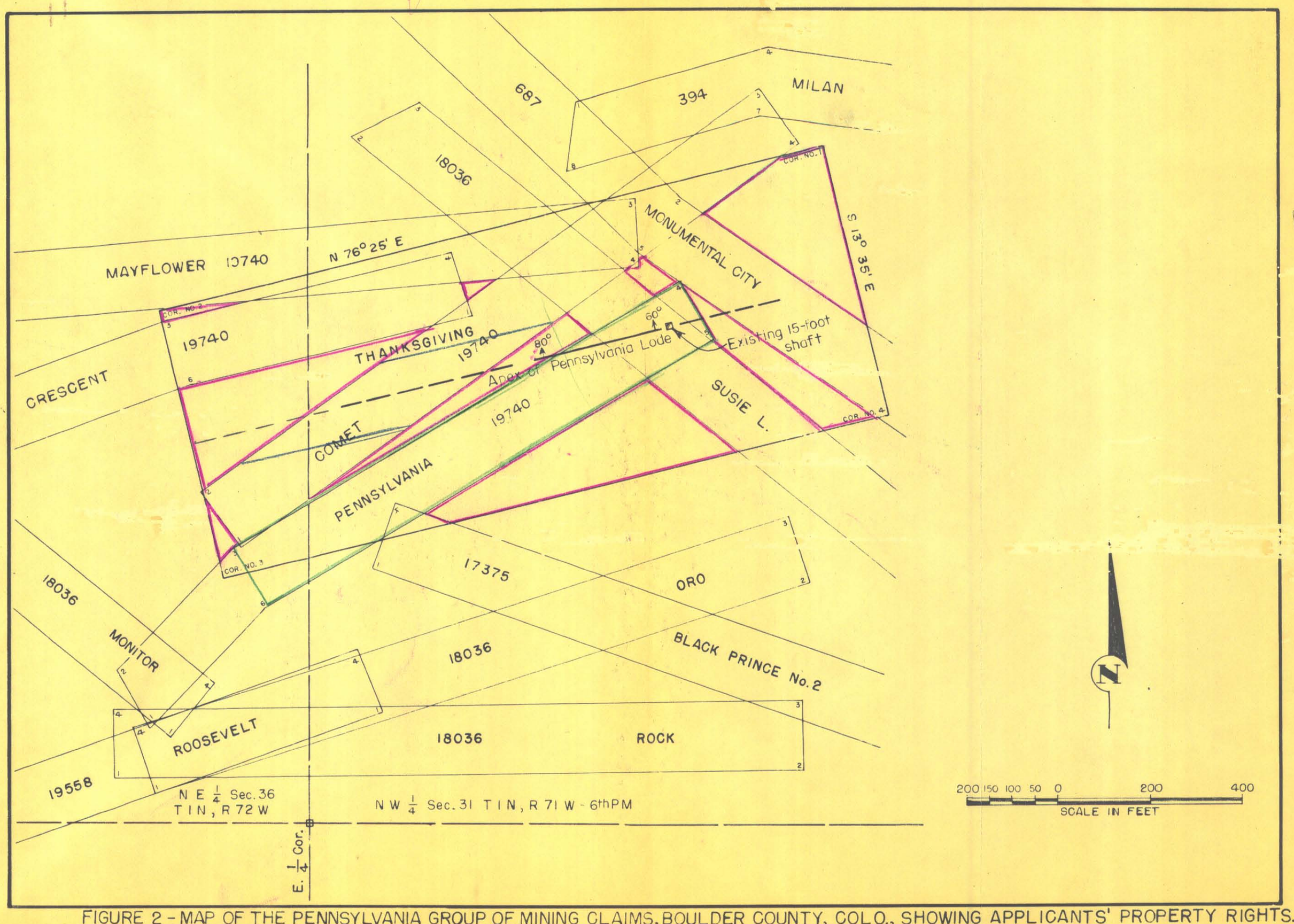

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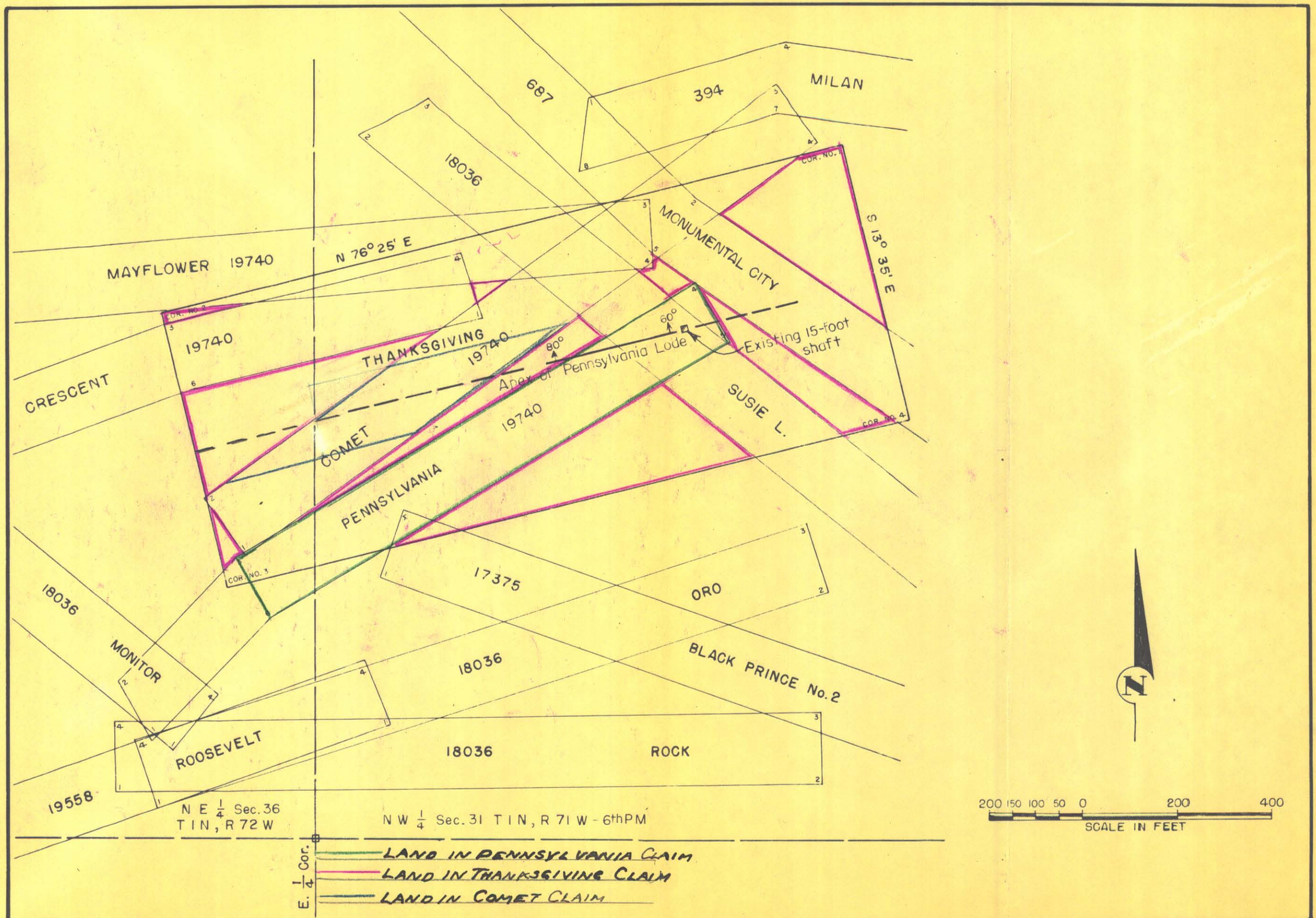

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(ELMER HETZER ET AL. DMEA 3981)