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

224 New Customhouse
Denver 2, Colorado

July 23, 1956

DMEA
Date Rec'd.
JUL 23 1956
BUREAU OF MINES
Denver, Colorado

Memorandum

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

From: Donald T. Finch, Auditor

Subject: Report of Royalty Review, Paul H. Bennett
Docket DMEA 3001 (Tungsten), Contract Idm-E570
(World Mine), Boulder County, Colorado

Enclosed is your copy of Report of Royalty Review covering subject contract for the period July 14, 1953 through June 20, 1956.

Donald T. Finch
Donald T. Finch, Auditor

Enc.
DTF:bh
cc-East/Christensen
Shaw
Royalty File E-570
Subject
Chron.

Royalty

DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF ROYALTY REVIEW

I have reviewed the files of the Executive Officer, DMEA Field Team, Region III, Denver, Colorado, pertaining to Contract Ida-E570, Docket No. DMEA-3001 (Tungsten), dated July 14, 1953, with

Paul H. Bennett
1825 Marine St.
Boulder, Colorado

for the purpose of determining the amount of royalties due the U. S. Government on sales of tungsten from property referred to as World Mine located in Boulder County, Colorado, during the period July 14, 1953 through June 20, 1956.

A certification of discovery or development was issued September 15, 1954, and accordingly, royalty is payable on all production from the land described in Article 2 of the Contract and in Annex I, attached, for a maximum of ten years from the date of the contract. A Report of Review in lieu of final cost audit dated March 10, 1954, indicated accepted costs under the Exploration Contract amounting to $8,170.00, with the Government's contribution on a 75% basis being $6,127.50.

My review included a conference with Mr. R. L. Belmer, Mining Engineer, Bureau of Mines, Denver, Colorado, who is thoroughly familiar with the project, and a tabulation and recomputation of all ore settlement sheets, which are summarized in the attached Exhibit A.

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

(a) According to the Field Team's "Annual" Report of Certified Projects dated January 31, 1956, the mine has not been in operation since July, 1954.

(b) The examining engineer is of the opinion that all sales of ore produced during the period July 14, 1953 through June 20, 1956, subject to DMEA royalty have been properly reported.

(c) 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.

The review established the total net sales of tungsten ore to be $4,482.65. Royalty due the U. S. Government at the contract rates of 1½% to 5% is $220.63. The royalty paid and the amount of overpayment are as follows:

Total Royalty Due	$220.63
Total Royalty Paid	222.23
Overpayment of Royalty	$ 1.60

Donald T. Finch

June 27, 1956

Donald T. Finch, Auditor

EXHIBIT A

PAUL H. BENNETT

Contract Idm-8570 Docket No. DMEA-3001

SUMMARY OF PRODUCTION AND ROYALTY PERIOD JULY 14, 1953 TO JUNE 20, 1956

	Sales By Paul H. Bennett	Sales By Morrice Castagne	Total
PURCHASER:	H E T Z E R M I N E S, I N C.		
PERIOD:	9/24/53 TO 1/6/54	4/7/54 TO 7/19/54	9/24/53 TO 7/19/54
Gross Weight, Pounds	285,630	42,825	328,455
Dry Weight			
Pounds	268,891	41,523	310,414
Tons	134.4455	20.7615	155.2070
Average Assay WO_3	1.15	1.85	1.247
WO_3 Content, Pounds	3,100.34	769.67	3,870.21
Average Price per Pound	$1.21	$1.296	$1.225
Gross Value	$3,744.53	$997.74	$4,742.27
Allowable Deductions for Hauling, Assaying, and Umpire Fees	$ 259.62	-	$ 259.62
Net Sales Subject to DMEA Royalties	$3,484.91	$997.74	$4,482.65
Average Value Per Dry Ton	$25.92	$48.06	$28.88
Average DMEA Royalty Percentage	4.56	5	4.92
DMEA Royalty Due	$170.75	$49.88	$220.63
DMEA Royalty Received	172.92	49.31	222.23
Net Overpayment of Royalty	$ 2.17	$ .57	$ 1.60

Overpayment of Royalty Applicable to Liquidation No. 776 Sold by Bennett	$ 2.17
Underpayment of Royalty Applicable to Liquidation No. 953 Sold by Castagne	.57
Net Overpayment of Royalty as above	$ 1.60

Check Sheet of Examining Engineer

DMEA
Date Rec'd.
JUN 26 1956
BUREAU OF MINES
Denver, Colorado

Operator's Name F. H. Bennett

Address 1825 Marine Street

Boulder, Colorado

Exploration Contract No. Ion-3570 Docket No. DMEA 3001

	Check One Yes	Check One No
1. (a) Does the Operator stockpile ore subject to royalty repayment?		X
(b) If so, is segregation and identification procedure adequate?		
2. (a) Does Operator commingle production subject to DMEA royalties with exempt production?		X
(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?		X
(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?	X	
5. Do you consider that the manner of disposing of production gives the Government its fair royalty returns?	X	
6. Do your periodic examinations of operations indicate the Operator is properly reporting his production of ores subject to DMEA royalties?	X	
7. Does the Operator buy from or sell to other Operators?		X

8. Comment on any item 2 (b) to 6 if answer is No.

R. L. Bolmer

R. L. Bolmer
Mining Engineer

Date June 26, 1956

82448

22h New Customhouse
Denver 2, Colorado

CERTIFIED MAIL

July 31, 1956

Paul H. Bennett
1525 Marine Street
Boulder, Colorado

Re: Refund of royalty payments, Docket DMEA 3801 (Tungsten), Contract E570, Paul H. Bennett (World Mine), Boulder County, Colo.

Dear Mr. Bennett:

Enclosed is Government check No. 21,107,541 for $1.60, which is to refund you for the overpayment of royalties on production from the subject property. This overpayment was determined by the Report of Royalty Review for period July 14, 1953 through June 20, 1956, prepared by the Contract Administration and Audit Division, dated June 27, 1956 as follows:

	Sales by P. H. Bennett	Sales by M. Castagna	Total
DMEA Royalty Due	$170.75	$49.88	$220.63
DMEA Royalty Received	172.92	49.31	$222.23
Bal. of Royalty Due	$ 2.17 cr.	$ .57	$ 1.60 cr.

Overpayment Applicable to Liq. No. 770 sold by Bennett	$ 2.17	
Underpayment Applicable to Liq. No. 953 sold by Castagna	.57	
Net Overpayment of Royalty as above		$ 1.60

Please acknowledge receipt of this check.

Yours very truly,

W. M. TRAVER

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

Enclosure
MMM/vj
cc: Royalty File E570
Correspondence File E570
Sec. Opr. Comm. (2)
J. F. Shaw (2)
Christensen
Caren.

224 New Customhouse
Denver 2, Colorado

July 24, 1956

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: Royalty payment, Docket DMEA 3001 (Tungsten), Contract Idm-E570, Paul H. Bennett (World Mine), Boulder County, Colorado

Reference is made to the Report of Royalty Review dated July 23, 1956, by Donald T. Finch, DMEA Auditor, a copy of which was furnished to you this date. According to this report, the operator Paul H. Bennett, has overpaid the DMEA royalties due on past production from the subject property by the amount of $1.60.

In order to bring this account current to June 30, 1956, the ending date of the royalty report period, we request you have a check for $1.60 made payable to Paul H. Bennett.

Please transmit this check to our office.

W. M. TRAVER

W. M. Traver

MMM/vj

cc: Royalty File E570
Correspondence File E570
Sec. Opr. Comm. (2)
J. F. Shaw (2)
Donald T. Finch
Marshall
Chron.

224 New Customhouse
Denver 2, Colorado

September 23, 1954

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMEA 3001 (Tungsten), Contract Idm-E570, Paul H. Bennett, World Mine, Boulder County, Colorado

Enclosed is your copy of Certification of Discovery or Development, dated September 15, 1954, for Contract Idm-E570.

WH King
W. H. King

Enclosure

Bck.

JWT:jp
cc Subject
Royalty
Chron
JWTownsend

911

224 New Customhouse
Denver 2, Colorado

September 23, 1954

Memorandum

To: W. M. Traver

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMEA 3001 (Tungsten), Contract Idm-E570, Paul H. Bennett, World Mine, Boulder County, Colorado

Enclosed for your records are copies of the following:

1. Letter dated September 16, 1954 from the Acting Administrator, DMEA, to Paul H. Bennett, transmitting a copy of the Certification of Discovery or Development for Contract Idm-E570.

2. Certification of Discovery or Development, dated September 15, 1954, for Contract Idm-E570.

3. Letter dated September 16, 1954 from the Acting Administrator, DMEA, to Elmer Hetzer, President, Hetzer Mines, Inc., transmitting a copy of the Certification of Discovery or Development for Contract Idm-E570.

4. Letter dated September 16, 1954 from the Acting Administrator, DMEA, to Irving Gumbel, General Services Administration, transmitting a copy of the Certification of Discovery or Development for Contract Idm-E570.

W. H. King

Enclosures

JWT:jp
cc Subject
Royalty
Chron
AHKoschmann w/encls
JWTownsend w/encls

400

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

SEP 20 1954

SEP 20 1954

Mr. Paul H. Bennett
1325 Marine Street
Boulder, Colorado

Re: Docket No. DMEA 3001 - Tungsten
World Mine
Boulder County, Colorado
Contract No. Idm-E570

Dear Mr. Bennett:

Transmitted herewith is a Certification of Discovery or Development under Contract Idm-E570 on the World Mine.

By the terms of the Exploration Project Contract and of the Certification, all minerals produced from the aforesaid mine from the date of the Exploration Project Contract No. Idm-E570, July 14, 1953, are subject to the Government's percentage royalty as set forth in the Exploration Project Contract until the sum of $8,127.50 is paid or until July 14, 1963, whichever occurs first.

Checks for reimbursing the Government for advances under the above-cited contract should be made payable to the Defense Minerals Exploration Administration and transmitted to Mr. W. H. King, Executive Officer, DMEA Field Team, Region IV, 824 New Customhouse Building, Denver 2, Colorado.

Royalty payments to the Government should be accompanied by suitable evidence, such as copies of settlement sheets, showing quantity and grade of all minerals sold, the name of the purchaser, and the price and charges certified to be correct by the purchaser.

You are requested to notify Mr. King 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. King at 6-month intervals that no production has been made.

Sincerely yours,

Frank E. Johnson
ACTING Administrator

cc: DOCKET
CODE 400
OPER. COMM.
ADM.READ-FILE
CODE 800-Mr.Chambers
CODE 110-Mr.Johnson
J.H.HEDGES, USGM
Enclosure

cc: R.W.GEEHAN, USBM
T.P.THAYER,USGS
THOR KIILSGAARD,USGS

cc: FIELD TEAM, REG.IV.
xx~~xxxxxxxxxxxxx~~

JHopkins/ls
9-9-54

400

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

Rec'd
SEP 20 1954

SEP 16 1954

Mr. Elmer Hetzer, President
Hetzer Mines, Inc.
230 Pearl Street
Boulder, Colorado

Re: Docket No. DMEA 3001 - Tungsten
Paul H. Bennett
World Mine
Boulder County, Colorado
Contract No. Idm-E570

Dear Mr. Hetzer:

Transmitted herewith for your information is a copy of the Certification of Discovery or Development issued as a result of the exploration program under the above-referenced contract. The property as set forth in the contract was leased to P. H. Bennett by Hetzer Mines, Inc. (Elmer Hetzer, President) on January 17, 1953, and is the same property referred to in Owner's Consent to Lien executed by Elmer Hetzer for Hetzer Mines, Inc., on June 20, 1953.

By the terms of the Exploration Project Contract and of the Certification, all production from the aforesaid lands from the date of the Exploration Project Contract is subject to the Government's percentage royalty as set forth in the contract until the sum of $6,127.50 is paid or until July 14, 1963, whichever occurs first.

Sincerely yours,

Frank E. Johnson

ACTING Administrator

Enclosure

cc: DOCKET
FIELD TEAM, REG. 4
OPER. COMM.
ADM. READ. FILE
CODE 400-Mr.Martin
CODE 800-Mr.Chambers
CODE 110-Mr.Johnson
J.H.HEDGES, USBM
R. W. GEEHAN, USBM
T. P. THAYER, USGS
THOR KIILSGAARD, USGS

JHopkins/ls
9-9-54

400

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

Rec'd
SEP 20 1954

SEP 16 1954

Mr. Irving Gumbel, Acting Director
Materials Division
Emergency Procurement Service
General Services Administration
Washington 25, D. C.

Re: Docket No. DMEA 3001 - Tungsten
Paul H. Bennett
World Mine
Boulder County, Colorado
Contract No. Idm-E570

Dear Mr. Gumbel:

Enclosed is a copy of a Certification of Discovery or Development for the above-noted project.

Contract No. Idm-E570 was executed July 14, 1953. Expenditures up to $8,200.00 were authorized, of which the Government's share at 75 percent was $6,150.00. The cost of the work completed was $8,170.00, of which the Government's share at 75 percent was $6,127.50.

The object of the exploration program was to explore the downward extension of the Brandt vein on the 80-foot level of the World mine. The program employed drifting, crosscutting, raising, and sublevel drifting from the top of the raise.

The exploration work disclosed a small ore body on the Brandt vein on a sublevel. This body of ferberite ore yielded 134.45 tons, from which 155.02 units of tungsten trioxide were receovered. Most of the ore was extracted by the exploration heading. Subsequent mining depleted the remainder of the shoot even before the exploration program was completed.

A Certification of Discovery or Development was issued, however, because there was believed to remain a possibility of finding small ore bodies by further work undertaken from the Defense Minerals Exploration Administration workings.

Sincerely yours,

Frank E. Johnson

ACTING Administrator

dc: DOCKET
CODE 400
OPER. COMM.
ADM. READ. FILE
FIELD TEAM, REG. 4
CODE 800-Mr.Chambers
CODE 110-Mr.Johnson
Enclosure

cc: J.H.HEDGES,USBM
T.P.THAYER,USGS
R.W.GEEHAN,USBM
T.KIILSGAARD,USGS

JHopkins/ls
9-9-54

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Mining Division
Date Rec'd.
AUG 23 1954
BUREAU OF MINES
Denver Colorado

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
August 23, 1954

Memorandum

To: Executive Officer, DMEA Field Team, Region IV

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

Subject: DMEA 3001, contract Idm-E570 (Tungsten) Paul H. Bennett (World mine), Boulder County, Colorado

With reference to the teletype received August 13, 1954, signed by W. S. Martin, Acting Chairman, Operating Committee, requesting information on the status of operations at the World mine since completion of the above contract and referring to a previous request of July 14, 1954.

The present operator was contacted by telephone and advises that he has delayed reply to our inquiry of July 29, 1954, pending completion of an exploration drift being driven which he expects to complete this weekend.

As soon as we receive his description of recent work, an engineer will visit the mine and furnish the Operating Committee with the information requested.

W. M. Traver

cc w/original
E570
DMEA Chron.

WMT/pam

September 1, 1954

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMEA 3001 (Tungsten), Contract Idm-E570
Paul H. Bennett, World Mine, Boulder County, Colorado

In compliance with your request in letter of July 14, 1954, and teletype of August 13, 1954, we are enclosing the original and three copies of memorandum from the Chief, Mineral Resources Branch, Mining Division, Region IV, relative to operations at the site of DMEA Contract subsequent to completion of the contract work.

W. H. King

Enclosures

JWT:mn

cc: Subject
Royalty File
A.H.Koschmann
W.M.Traver
Chron.

224 New Customhouse
Denver 2, Colorado

August 18, 1954

Memorandum

To: W. M. Traver

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMEA 3001 (Tungsten), Contract No. Idm-E570
Paul H. Bennett, World Mine, Boulder County, Colorado

The following teletype was received August 13, 1954 from the Washington office, DMEA:

"REQUEST JULY 14, 1954, PAUL H. BENNETT,
DOCKET DMEA 3001. IF REQUESTED INSPECTION
NOT MADE, PLEASE EXPEDITE."
W.S.MARTIN ACTG CHAIRMAN, OPERATING COMMITTEE

Please comply with the Chairman's request and expedite the inspection.

W. H. King

JWT:jp
CC: Contract
Chron
JWTownsend

EEEVQ

GSA TELETYPE CENTER
AUG 13 1 04 PM '54
DENVER, COLO.

WSK
Shaw

DN WAF 18 I-BOM

WASHINGTON 8-13-54 237P

W H KING

DMEA EXECUTIVE OFFICER DN

REOURLET JULY 14, 1954, PAUL H. BENNETT, DOCKET DMEA 3001. IF REQUESTED INSPECTION NOT MADE, PLEASE EXPEDITE.

W S MARTIN ACTG CHAIRMAN, OPERATING COMMITTEE

14 1954 3001

EF 250P

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
August 30, 1954

Memorandum

To: Executive Officer, DMEA Field Team, Region IV

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

Subject: DMEA 3001, Contract Idm-E570 (Tungsten), Paul H. Bennett (World mine), Boulder County, Colorado

On August 26, 1954, I investigated in the field the status of operations at the World mine near Nederland, Colo., formerly operated under the subject contract. This was in compliance with Mr. Selfridge's memorandum of July 14, 1954, to you, transmitted to me by your memorandum of July 26, 1954, and Mr. Martin's teletype, acting for Mr. Selfridge, of August 18, 1954, transmitted to me by your memorandum of the same date.

Briefly, the late history of operations at the World mine are as follows:

Work was suspended under the contract on December 24, 1953, with the exhaustion of funds.

A final engineering report was submitted to you April 8, 1954, recommending certification. This was in turn submitted by you to the Administrator, signifying concurrence. No certification has been made.

Prior to completion of the project on December 3, 1953, the operator requested an amendment to the contract to authorize additional funds in the amount of $35,880.00, involving exploration through adjoining Cross mine, of veins in the World mine at a depth of 200 feet below the present workings. On recommendation of the Region IV Field Team, the request was denied by the Administrator on March 1, 1954.

With completion of the project, the contractor relinquished his lease and the property reverted to Hetzer Mines, Incorporated.

Subsequently, Elmer Hetzer of Hetzer Mines, Incorporated, gave a verbal lease to three individuals, Walters, Erickson, and M. A. Castagne, all employees of Cold Spring Tungsten, Incorporated. They have worked the mine intermittently during spare time, utilizing their

m equipment since some time early in 1954. The work has resulted in some production, with shipments made to the Hetzer mill. On one shipment of 10.7 tons, Government royalty was paid and another shipment is in process.

On the date of my visit, the 80-foot level of the mine was inaccessible, due to flooding, however, M. A. Castagne described the work completed and in progress, which is shown on the attached sketch map and described as follows:

At A on the 80-foot level, he advanced a branch drift from the northeast drift on the Brandt vein, presumably on a hanging-wall split, 2 rounds or about 8 feet and claims to have a 6-inch quartz vein, carrying 2 inches of ferberite in the breast.

At B he started a drift on the 80-foot level west from the World shaft toward ore he claims is exposed in the floor of a drift driven from the shaft on the 40-foot level. He has driven this drift about 20 feet and claims to have a 2-inch mineralized vein showing in the breast and expects to break into the projected ore body with any round. His first ore shipment was made of ore mined from the margin of a stope above the 40-foot level and from ore mined from the vein described under A.

At C he started a drift southwest from the Brandt shaft on a sublevel 27 feet above the World 80-foot level on the Brandt vein and advanced it 10 feet. Here he claims a showing of ferberite in the vein that is not commercial.

Effective August 20, 1954, Cold Spring Tungsten, Incorporated, acquired Hetzer Mines, Incorporated by the purchase of all outstanding stock, and Castagne was notified by Elmer Hetzer that his verbal lease was canceled, inasmuch as he was an employee of the purchasing corporation.

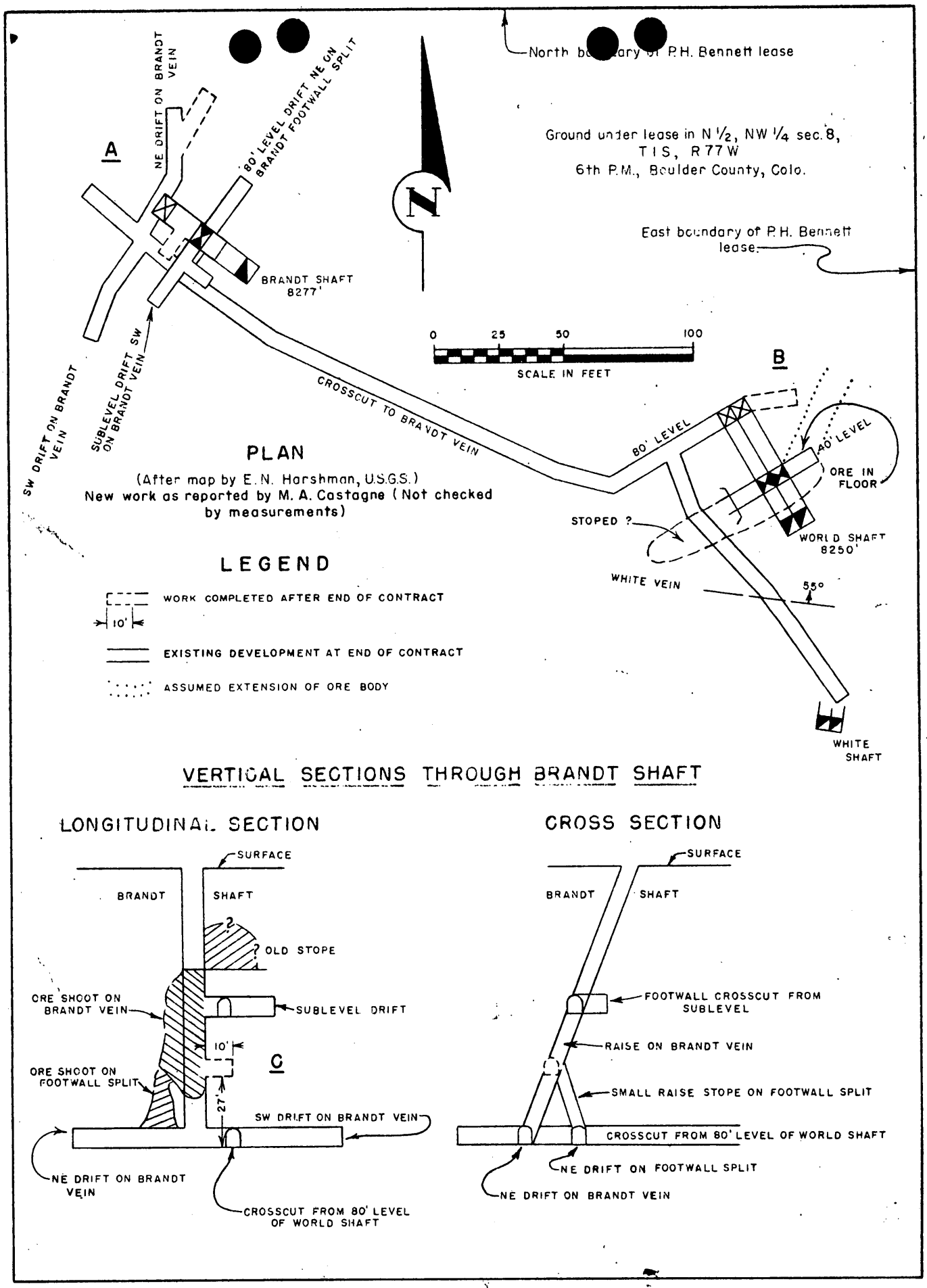
It is Castagne's opinion that because Cold Spring Tungsten, Incorporated was associated with Paul H. Bennett on contract Idm-2570, and are now owners of the World property, that they will no doubt at some future date undertake exploration of the property on company account. As Paul H. Bennett is Production Manager for Cold Spring Tungsten, Incorporated, and M. A. Castagne is Superintendent of Operations at the Cold Spring mine, it is assumed they will have some part, most likely supervisory, in the future work at any company owned property including the World mine and probably will take advantage of both Bennett's and Castagne's knowledge of the property.

It is my opinion that to protect the Government's interest, a Certification of Discovery and Development should be issued as recommended in both of the projects final reports, which were forwarded to the Secretary of the Operating Committee by you on April 14, 1954.

W. M. Traver

W. M. Traver

Enclosure
WMT/ici
cc: 1/ 2570 Chron.



PLAN AND SECTIONS OF WORLD MINE, SHOWING WORK ACCOMPLISHED SINCE COMPLETION OF CONTRACT, BOULDER COUNTY, COLO.
(DMEA 3001, CONTRACT Idm E570)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Mining Division
Date Rec'd
JUL 30 1954
BUREAU OF MINES
Denver Colorado

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
July 29, 1954

Mr. M. A. Castagne
P. O. Box 7
Nederland, Colorado

Dear Mr. Castagne:

The Government is interested in information regarding the results of any operations at the World mine since the completion of the work under Exploration Project Contract Idm-E570. We would appreciate a brief letter from you supplying such information.

It also would be of value if you would clarify the details of the relinquishment of the lease on the World property by P. H. Bennett, Cold Spring Tungsten, Inc., et al, and its subsequent transfer to yourself. Do you presently lease the same ground as was included in the Exploration Project Contract or has additional or different ground been included under your present agreement with Metzer Mines, Inc.?

A brief description of the work performed on the property since the completion of the contract exploration, the conditions encountered therein, the ore produced therefrom, and any other pertinent details would be of value. Perhaps you could include with your reply a copy of an up-to-date map or a sketch indicating the recent work in the mine. If you have no objections to stating them, we would appreciate knowing your future plans regarding the property.

You may address your reply to this office.

Very truly yours

W. M. TRAVER

W. M. Traver, Chief
Mineral Resources Branch
Mining Division, Region IV

cc WHKing (2)
E570
DMEA Chron.

RLB/pam

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
July 29, 1954

Mr. M. A. Castagne
P. O. Box 7
Nederland, Colorado

Dear Mr. Castagne:

The Government is interested in information regarding the results of any operations at the World mine since the completion of the work under Exploration Project Contract Idm-E570. We would appreciate a brief letter from you supplying such information.

It also would be of value if you would clarify the details of the relinquishment of the lease on the World property by P. H. Bennett, Cold Spring Tungsten, Inc., et al, and its subsequent transfer to yourself. Do you presently lease the same ground as was included in the Exploration Project Contract or has additional or different ground been included under your present agreement with Metzer Mines, Inc.?

A brief description of the work performed on the property since the completion of the contract exploration, the conditions encountered therein, the ore produced therefrom, and any other pertinent details would be of value. Perhaps you could include with your reply a copy of an up-to-date map or a sketch indicating the recent work in the mine. If you have no objections to stating them, we would appreciate knowing your future plans regarding the property.

You may address your reply to this office.

Very truly yours

W. M. TRAVER

W. M. Traver, Chief
Mineral Resources Branch
Mining Division, Region IV

cc WHKing (2)
E570
DMEA Chron.

RLB/pam

224 New Customhouse
Denver 2, Colorado

July 16, 1954.

Memorandum

To: W. M. Traver

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket No. DMEA-3001 (Tungsten), Contract No. Idm-E570, Paul H. Bennett, World Mine, Boulder County, Colorado.

Enclosed is copy of a letter from the Chairman of the Operating Committee, dated July 14, 1954, in which he requests information regarding the World Mine.

Please have an engineer obtain the requested information when he is in the vicinity.

W. H. King

Enclosure

JFS:cwm

cc: Contract
Chron.

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

JUL 14 1954

Mining Division
Date Rec'd
JUL 16 1954
BUREAU OF MINES
Denver, Colorado

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

Re: Docket No. DMEA 3001 - Tungsten
Paul H. Bennett
World Mine
Boulder County, Colorado
Contract No. Idm-E570

Dear Mr. King:

Reference is made to the subject contract.

It would be appreciated, when next you have a man in the same area, if we could be advised of the results of any operations at the World Mine since the completion of the work under the referenced contract.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee

APPROVED:

J. H. Hedges
Member, Bureau of Mines

R. Marrater
Member, Geological Survey

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

224 New Customhouse
Denver 2, Colorado

March 18, 1954

Memorandum

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

From: T. H. Brading, Auditor

Subject: Report of Review - Docket DMEA 3001, Contract Idm-E570, Paul H. Bennett (Tungsten), Boulder County, Colorado

Enclosed is your copy of Report of Review for Paul H. Bennett pertaining to Exploration Project Contract Idm-E570, Docket DMEA 3001, for the period July, 1953 to December, 1953, inclusive.

T. H. Brading

Enclosure

Copy to: J. H. East, Jr.
T. A. Christensen
W. M. Traver
J. W. Townsend

DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF REVIEW

I have reviewed the Monthly Reports of:

Paul H. Bennett
1825 Marine Street
Boulder, Colorado

pertaining to Exploration Project Contract No. Idm-E570, Docket No. DMEA 3001, and including Amendment No. 1, for the months of July, 1953 to December, 1953, inclusive, covering a project for exploration of Tungsten located in Boulder County, Colorado, commonly known as the World Mine.

My review included an examination of the Monthly Reports (Form MF-104) and supporting documents attached thereto, comparison of costs claimed with the contract and pertinent schedules, consultation with the Government representative who visited and examined the project, and a determination of the reasonableness and propriety of the costs.

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

The contract provides for payment by the Government on the basis of agreed estimated costs of units of work actually performed.

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

Total cost as billed by contractor		$8,170.00
Exceptions:		
By DMEA Finance Officer	-0-	
Herewith	-0-	
Total Accepted Cost		$8,170.00

The contract calls for a 75 percent participation of exploration expenses by the United States Government. Therefore, payment to the contractor by the Government in the amount of Six Thousand One Hundred Twenty Seven and 50/100ths Dollars

- $6,127.50 -

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.

Date: March 10, 1954.

T. H. Breding, Auditor

224 New Customhouse
Denver 2, Colorado

March 4, 1954

Memorandum

To: W. M. Traver
A. H. Koschmann

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMEA 3001 (Tungsten), Contract Idm-E570, Paul H. Bennett, World Mine, Boulder County, Colorado

Enclosed for your information and files is a copy of a letter from the Administrator to Paul H. Bennett advising him that his request for additional exploration assistance under the subject contract is denied.

W. H. King

Enclosure

JWT:jp
cc Contract
Chron
JWTownsend

400

WMK

MAR 1 1954

BUREAU OF MINES
Denver Colorado

Mr. Paul H. Bennett
1825 Maine Street
Boulder, Colorado

Re: Docket No. DMEA 3001 - Tungsten
World mine
Boulder County, Colorado
Contract No. Idm-E570

Dear Mr. Bennett:

Reference is made to your request by letter dated December 3, 1953, to the Executive Officer, DMEA Field Team, Region IV, for an amendment to the referenced contract to allow additional exploration at the subject property.

Careful study of the work suggested in your above-mentioned letter and review of all our information indicate to us that Government participation in your proposed program is not justified. Under these circumstances, we regret to advise you that your request for additional exploration under the subject contract is denied.

We wish to thank you for your interest in the Defense Minerals Exploration Program and for bringing your proposals to our attention.

Sincerely yours,

C. O. Mittendorf

Administrator

cc: DOCKET
ADM. READ. FILE
CODE 400
FT, REG. IV
R. W. GEEHAN, USBM
T. P. THAYER, USGS
OPER. COMM.

FARutledge/GCSelfridge/ls
2/26/54

COPY

March 1, 1954

Mr. Paul H. Bennett
1825 Maine Street
Boulder, Colorado

Re: Docket No. DMEA 3001 - Tungsten
World mine
Boulder County, Colorado
Contract No. Idm-E570

Dear Mr. Bennett:

Reference is made to your request by letter dated December 3, 1953, to the Executive Officer, DMEA Field Team, Region IV, for an amendment to the referenced contract to allow additional exploration at the subject property.

Careful study of the work suggested in your above-mentioned letter and review of all our information indicate to us that Government participation in your proposed program is not justified. Under these circumstances, we regret to advise you that your request for additional exploration under the subject contract is denied.

We wish to thank you for your interest in the Defense Minerals Exploration Program and for bringing your proposals to our attention.

Sincerely yours,

C.O.Mittendorf

Administrator

cc: DOCKET
ADM. READ. FILE
CODE 400
FT, REG. IV
R. W. GEEHAN, USBM
T. P. THAYER, USGS
OPER. COMM.

FARutledge/GCSelfridge/ls
2/26/54

WRB

Interior Department

Defense Minerals Exploration
Administration
14X3923.970 0-
Working Fund - DMEA

XXXXXXXXXXXXXXXXXXXX

TELETYPE

February
26, 1954

To: W. H. King, Executive Officer, DMEA Region IV, Denver, Colorado

Reurtt February 23, Docket 3001, Contract Idm-E570, Paul H. Bennett. Denial being mailed.

George C. Selfridge

G. C. Selfridge
Chairman, Operating Committee

Mail Section
Received
MAR 1 1954
BUREAU OF MINES
Denver, Colorado

WSMartin/ls
2/24/54

cc: DOCKET
FT, REG. IV _ CONFIRMATION
CODE 400
OPER. COMM.
ADM. READ. FILE
AUDITS DIVN., BUR. MINES
R. W. GEEHAN, USBM
T. P. THAYER, USGS

BUR MINES DN 235 2-23-54 1-33 PM

C O MITTENDORF

REFERENCE DOCKET 3001, CONTRACT IDM-E-570, PAUL H. BENNETT. PLEASE TELETYPE ADVICE AS TO STATUS OF MATTER FORWARDED BY OUR MEMORANDUM OF JANURXXXX JANUARY 28,1954.

JOHN F SHAW FOR W H KING

1-34 PM END 2 MSGS PLS ACK FTM
2 MSGS RECD OK RT

224 New Customhouse
Denver 2, Colorado

January 28, 1954

Memorandum

To: C. C. Mittendorf, Administrator, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMEA 3001 (Tungsten), Contract Idm-E570, Paul H. Bennett, World Mine, Boulder County, Colorado

Enclosed are the original and three copies of the following material relative to authorization of additional work and allocation of additional funds under the subject contract:

1. Letter from the operator dated December 3, 1953 with attached map wherein the operator requests additional Government assistance under Contract Idm-E570 to conduct exploration work through the No. 1 shaft of the Cross mine in lieu of sinking from the World mine workings, at a total estimated cost of $35,380.00.

2. Memorandum report dated January 15, 1954 from E.N. Harshman, Geologist, U.S. Geological Survey, relative to the operator's request.

3. Memorandum report dated January 19, 1954 from R.L. Bolmer, Mining Engineer, U.S. Bureau of Mines, and transmittal thereof from the Chief, Mineral Resources Branch, Mining Division, Region IV, dated January 25, 1954 relative to the operator's request.

The examining engineer and geologist deem that the additional exploration assistance requested would not result in a discovery of a significant quantity of tungsten ore and recommend that the operator's request be denied. We concur in the recommendations of the examining engineer and geologist and recommend that the applicant be advised of the Government's denial of his request.

Inasmuch as the increased estimated costs of the project exceed that of authority delegated to this office for processing we are forwarding the matter for your consideration and appropriate action.

W H King

W. H. King

JWT:jp
Enclosures
cc Contract
Chron
WMTraver w/encls
AHKoschmann w/encls
JWTownsend

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
January 25, 1954

Memorandum

To: Executive Officer, DMEA Field Team, Region IV

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

Subject: DMEA 3001, Contract Idm-E570 (Tungsten), Paul H. Bennett (World mine), Boulder County, Colo.--Request for an amendment to authorize additional exploration and provide additional funds

Enclosed are the original and seven copies of R. L. Bolmer's memorandum recommending denial of the above amendment request. The recommendation has my approval.

The contractor's letter with supporting data furnished with your memorandum of December 4, 1953, instructing us to submit recommendations, is also enclosed.

W. M. Traver

W. M. Traver

enclosure
WMT/kp
cc: 7
E570
Chron

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
January 19, 1954

Memorandum

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

From: R. L. Bolmer

Subject: DMEA 3001, Contract Idm-E570 (Tungsten), Paul H. Bennett (World mine), Boulder County, Colo.--Request for an amendment to authorize additional exploration and provide additional funds

The operator under the subject contract has requested authorization to explore the Brandt, Cross No. 1, and Pump veins at a depth of some 200 feet below the present workings in the World mine. The operator proposes to accomplish such exploration by means of 290 feet of crosscutting, 300 feet of drifting, 400 feet of raising, and 100 feet of sublevel drifting, all from the 4th level of the adjacent Cross mine. He estimates the total cost of such work at $35,880.00.

The details of the proposed work, as well as the operator's reasons for requesting such a program, are outlined briefly in his letter of December 3, 1953, to the Region IV Executive Officer.

The operator expects to find ore on the three veins at greater depths in the World mine. Principally, he bases his reasoning on the fact that the World mine is located between the Cold Spring and the Cross mines, both of which have been productive to

greater depths. As further proof, he cites the results of exploration accomplished to date on the Brandt vein on and above the 80-foot level of the World mine.

Exploration of the Brandt vein on and above the World 80-foot level has not resulted in the discovery of appreciable ore reserves. The vein did contain one minor ore shoot above the 80-foot level from which 134 tons of upgraded ore averaging 1.15 percent tungsten trioxide were produced. The net value of the total production from this shoot, $3,484.91, was sufficient to pay the operator's share of the exploration expenses. As repayment on its participation of $6,127.50 in the expenses of the exploration program, the Government received only $172.92 in royalties on the production.

The narrow Brandt vein splits some 20 feet above the World 80-foot level. Below the split it exists as weaker foot and hanging wall structures. The small ore shoot occurred on the composite vein at and above the split. The hanging wall structure continued weak and barren of ore down to the 80-foot level. The weaker footwall split, probably an extension of the Cross No. 3 vein, contained only a fraction of an inch of mineral down to the level. Neither structure is considered strong enough along the 80-foot level to warrant an elaborate program for their deeper exploration.

The Cross No. 1 and No. 3 veins and the Pump vein were developed from the Cross shaft which occurs about 450 feet northeast of the World workings on the Brandt vein. The ore shoots mined on these veins bottomed at about the 3rd level off the Cross shaft (about 100 feet below the World 80-foot level). In a direction southwest from the Cross shaft, the veins weakened, became barren of mineral, and began to split up before extending onto the World property. Their development on the Cross 3rd and 4th levels was discontinued short of the World property. The ore shoots apparently raked northeasterly downward from near the surface of the World property and existed at depth only in the Cross mine.

The Cold Spring vein was developed in the vicinity of the World shaft by a single 5th level drift extended northeasterly from the Cold Spring No. 3 shaft. The Cold Spring 5th level roughly corresponds to the World 80-foot level. In a direction northeasterly from the No. 3 shaft, the Cold Spring vein split several times and was not productive in the last 1,200 feet.

The World mine appears to be located between but just beyond the tail ends of two separate vein systems developed towards the northeast in the Cross mine and farther towards the southwest in the Cold Spring mine. The exploration of the several veins with depth below the World mine, therefore, is not considered promising. It cannot be said that ore will not be found with depth in this mine;

but a program as proposed by the operator and based on so many unknown factors is considered "wild cat" exploration and, as such, is not recommended for Government participation.

The operator's program appears to be poorly conceived. The distances requested to intersect the various veins at the lower depth appear incorrect on the basis of available information. The Cross No. 1 vein, which the operator proposes to intersect within 110 feet, was not developed on the Cross 3rd and 4th levels. On the 2nd level, this vein dips in the same direction as the proposed crosscut to it. If it exists at all on the lower level, it could not be intersected within twice the crosscut distance proposed by the operator. The operator proposes to drift on the No. 1 vein and later crosscut back to the Brandt vein. This crosscut distance also would be more than doubled. The Pump vein, which the operator proposes to intersect and drift on, is not the main Pump vein developed on the 3rd and 4th levels of the Cross mine. It probably is represented by a minor structure developed to a small extent on the Cross 2nd level, which may intersect the main Pump vein. The operator's proposal is not the most direct, most economic, nor most feasible method of exploring the Brandt vein with greater depth.

Winzing on the Brandt vein from the 80-foot level of the World mine and terminating such work within moderate depths if the structure did not improve was suggested in lieu of the more elaborate proposal. The operator, however, was not interested in such a modest program.

R. L. Bolmer

R. L. Bolmer
Mining Engineer

RLB/kp
cc: 7, E570, Chren

January 15, 1954

Memorandum

To: A. H. Koschmann CWK

From: E. N. Harshman

Subject: DMEA Docket 3001 (tungsten), Contract Idm-E570, Paul H. Bennett, World Mine, Boulder County, Colorado

By letter of December 3, 1953, Paul H. Bennett requested additional funds and an amendment to Contract Idm-E570 to permit exploration of the Brandt and other veins at a depth of 200 feet below the lowest (80 foot) level of the World mine.

The proposed exploration program involves an extension of the 400-foot level of the Cross mine to a point beneath the 80-foot level of the World mine. The program includes 400 feet of drift, 290 feet of crosscut, and 400 feet of raise at an estimated cost of $35,880.00.

It is concluded that the requested amendment is not justified by the ore potential of the veins to be explored and denial of the request is recommended.

Exploration under contract Idm-E570 consists of 89 feet of drift and 65 feet of raise exploring the Brandt vein and a footwall split from it, and 96 feet of crosscut exploring for the downward extension of the White vein.

Ore is exposed on the Brandt vein at and above the point where a footwall split joins the vein but below the split only occasional nodules or narrow stringers of ferberite and horn-quartz are found. Although the program proposed under the requested amendment may have some exploratory value of a blind nature, it is poorly conceived and far more costly than warranted by the ore potential of the veins to be explored. A disproportionately large

part of the program consists of crosscutting and raising and must be considered as having little or no exploration value.

The footwall split of the Brandt vein in the World mine appears to be the Cross No. 3 vein of the Cross mine and limited exploration at drifts somewhat below the 80-foot level of the World mine may be justified. A plan of exploration by winzing on the vein from the 80-foot level of the World mine was discussed with the applicant but was not acceptable to him.

The program proposed by the applicant appears far more extensive than justified by the limited ore discovery made under the present contract, and denial of the requested amendment is recommended.

PAUL H. BENNETT

1825 Marine Street
Boulder, Colorado

December 3, 1953

Mr. W. H. King, Executive Officer
Field Team, Region IV
Defense Minerals Exploration Administration
224 New Customhouse
Denver, Colorado

Re: World Mine DMEA-3001
Contract No. Idm-E570 (Tungsten)

Dear Mr. King:

Work has been completed on the above contract, and we have found ore in one of the zones under exploration. The upward extension of the Brandt Vein from the World tunnel level shows mineable ore in several places. Some of this ore is "high grade" up to eight inches in width, and has proven to be an exceptionally good grade of milling ore, according to Hetzer Mines, Inc. to whom we have been shipping steadily. It is impossible to determine the extent of these ore bodies with the work presently accomplished, but in the writer's opinion, it definitely extends downward.

In ordinary practice we would sink a winze to explore the ore at greater depth, but the same zones can be reached with considerably less expenditure of time and money by shifting our operations to the Cross Mine #1 Shaft which is adjacent. This shaft is 200 feet deeper than our present working level, and is equipped with hoist, pump, etc., and is presently open for inspection. We have negotiated with Thomas Linder and Hetzer Mines, Inc., and have been successful in securing an easement to use this shaft for further exploration and mining. Two copies of this easement are attached for your examination.

This plan for drifting to the Southwest from the 400 foot level of the Cross Mine will explore the World Mine at an additional depth of 200 feet, and in addition will explore two of the Cross Veins which were productive in the upper levels of the Cross. All work contemplated is within the boundaries of the original lease from Hetzer Mines, Inc. to P. H. Bennett, which was a part of our original exploration contract.

Another reason for believing that our present ore extends downward, is that the larger stopes of the Cross Mine and the Cold Spring Mine were 200 to 500 feet from surface, and since the World Mine is directly between these two, it is a reasonable assumption that the ore will be deposited in similar horizons.

You will note from the attached map of the two mines that we want to crosscut from the present Cross drift to cut parallel veins on which we plan to drift SW to points under the World Workings. These drifts are both on veins which were productive in upper levels, and lead almost directly under the places where ore was found in the World.

Details of our contemplated program are as follows:

(A)	Crosscut NW to Cross #1 Vein - 110' @ $32.00	$3,520.00
(B)	Drift SW on Cross #1 Vein - 150' @ $32.00	4,800.00
(C)	Crosscut SE under World Ore - 100' @ $32.00	3,200.00
(D)	Crosscut NW under World Ore - 50' @ $32.00	1,600.00
(E)	Raise under World Ore to connect - 200' @ $34.00	6,800.00
(F)	Sub-level Drift on "E" location to be determined by USBM & USGS - 100' @ $34.00	3,400.00
(G)	Crosscut SE to Pump Vein - 30' @ $32.00	960.00
(H)	Drift SW on Pump Vein - 150' @ $32.00	4,800.00
(I)	Raise (as needed) location to be determined by USBM & USGS - 200' @ $34.00	6,800.00
	Total cost of proposed work	$35,880.00

We are in a financial position to carry on our percentage of this exploration work, and consider it to be an even better geological gamble than our original program on this mine.

We are, therefore, respectfully requesting an amendment to our present contract to include this work. A period of twelve months will be required for completion.

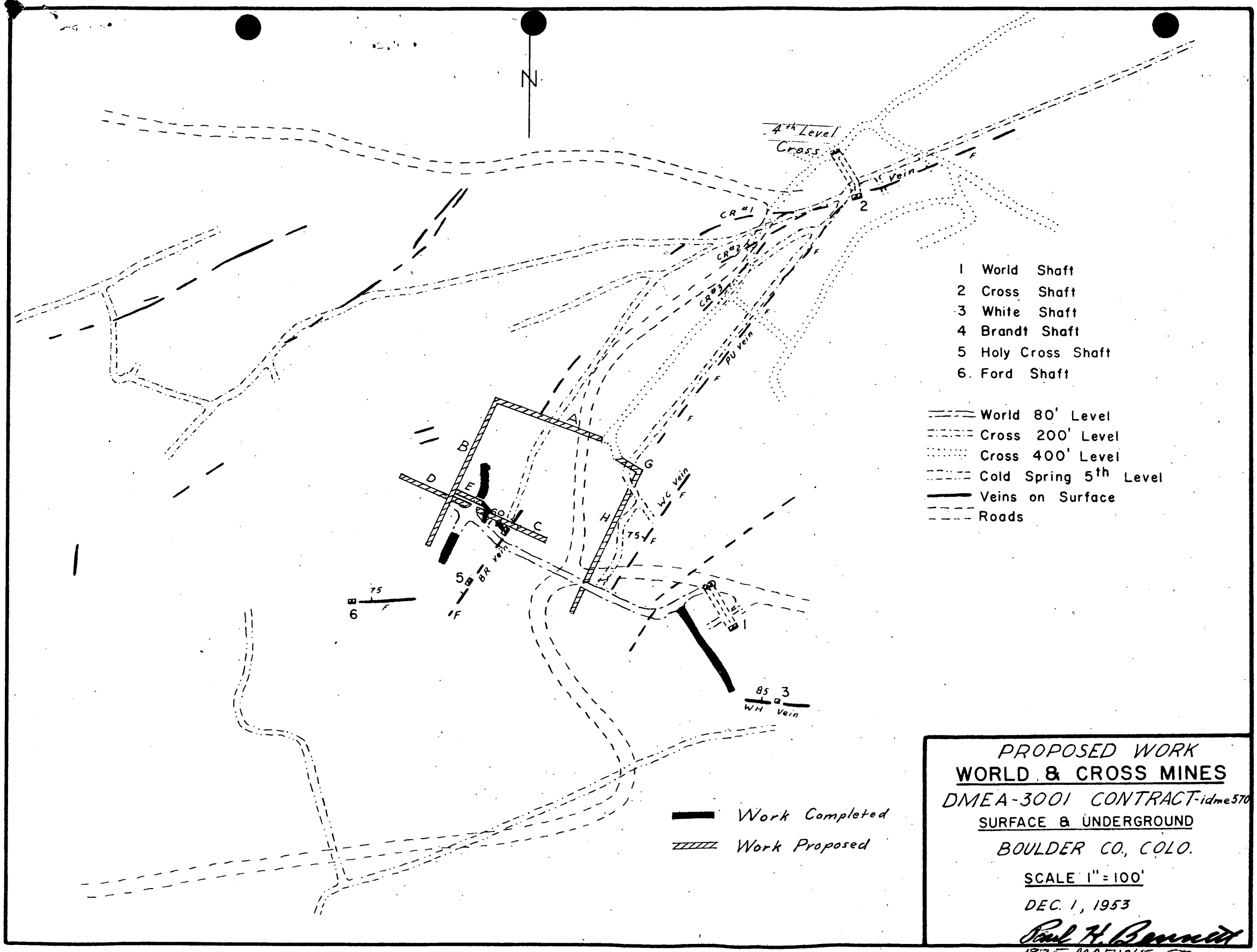
Please advise us of your ideas on this proposal at your earliest convenience, as we will have to secure additional ventilating and other mining equipment in advance of starting such a program.

Very truly yours,

Paul H. Bennett

Paul H. Bennett

PHB:bh


N
4th Level
Cross
Vein
CR #1
CR #2
CR #3
PU Vein
WC Vein
BR Vein
WH Vein
1 World Shaft
2 Cross Shaft
3 White Shaft
4 Brandt Shaft
5 Holy Cross Shaft
6. Ford Shaft
World 80' Level
Cross 200' Level
Cross 400' Level
Cold Spring 5th Level
Veins on Surface
Roads
Work Completed
Work Proposed
PROPOSED WORK
WORLD & CROSS MINES
DMEA-3001 CONTRACT-idme570
SURFACE & UNDERGROUND
BOULDER CO., COLO.
SCALE 1" = 100'
DEC. 1, 1953
Paul H. Bennett
1825 MARINE ST
BOULDER, COLO

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

Mining Division
Date Rec'd
JAN 28 1954
BUREAU OF MINES
Denver, Colorado

JAN 25 1954

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

Re: Docket No. DMEA-3001 (Tungsten)
Paul H. Bennett
World Mine
Boulder County, Colorado
Contract No. Idm-E570

Dear Mr. King:

Reference is made to your memorandum dated January 4, 1954, transmitting copies of Operator's Monthly Progress Report Forms and reports by the Field Team.

Mr. Bolmer's report dated December 18, 1953, stated that charges for hauling ore to the mill, paid to Cold Spring Tungsten, Inc., an owner of a 45% financial interest in the Operator's exploration venture, were deducted prior to computing the Government's percentage royalty. The propriety of such deduction was questioned.

Hauling charges of a public or private carrier, paid by a buyer-mill for the account of the seller in the regular course of business, are properly deductible prior to computing the amount of royalty due the Government. Apparently, Cold Spring Tungsten, Inc., served as a private carrier in this case, and, therefore, the hauling charges paid to it are properly deductible. The answer is not changed by the fact that Cold Spring Tungsten, Inc., has a financial interest in the Operator's business, because they are separate entities and have a right to do business with each other on that basis.

A circular on the subject of when hauling charges are deductible in computing royalty payable to the Government, has been drafted and will be distributed shortly as a guide in such matters.

Copy sent to Trauer

RDB.

Information of the kind contained in Mr. Bolmer's report concerning the financial structure of the Operator is always helpful, and appreciated.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee

Approved:

J. H. Hedges
Member, Bureau of Mines

D. W. Lavender
Member, Geological Survey

P.S. We should be informed whether or not the hauling charges made by Cold Spring Tungsten are in excess of hauling charges which an independent carrier might make. Will you please send the information at your convenience.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
January 7, 1954

Mr. Paul H. Bennett,
1825 Marine Street
Boulder, Colorado

Mining Division
Date Rec'd
JAN 8 1954
BUREAU OF MINES
Denver, Colorado

REFERENCE: DMEA 3001, Contract Idm-E570

Dear Mr. Bennett:

Receipt is acknowledged of your completed form MF-104, "Operator's Monthly Report and Voucher," and form MF-104A, "Operator's Unit Cost and Progress Report," for the month of November 1953, covering contract Idm-E570.

Enclosed please find a set of six each of the above forms for use in submitting your next monthly report.

Very truly yours,

L. H. Everett, for
W. M. Traver, Chief
Mineral Resources Branch
Mining Division, Region IV

enclosures

/kp

cc: WHKing
E570
DMEA Chron

224 New Customhouse
Denver 2, Colorado

December 15, 1953.

Mr. Paul H. Bennett
1825 Marine Avenue
Boulder, Colorado

Re: Docket No. DMEA-3001
Contract No. Idm-E570

Dear Mr. Bennett:

Reference is made to Exhibit "A" attached to Exploration Project Contract Form MF-200(A), Caption "Description of the Work," item (c). Confirming oral authority by this office, the unexpended footage of raising described under item (c) may be used at locations as follows:

1. At a point in the raise approximately 60 feet above the 80-foot level of the World shaft, sublevel drift southwest on the Brandt vein a maximum distance of 20 feet at $34.00 per foot.

2. From a northwest crosscut on the 80-foot level of the World shaft, drift northeasterly on an apparent foot wall split of the Brandt vein a maximum distance of 15 feet at $32.00 per foot.

This authorization under the provisions cited under item (c) of "Exhibit A" shall not be construed to increase the estimated total cost of the project, the amount of the Government's contribution, or any item of allowable cost which is expressly designated "Allowable Maximum".

Very truly yours,

W. H. King

W. H. King
DMEA Field Team, Region IV

A. H. Koschmann

A. H. Koschmann
DMEA Field Team, Region IV

JWT:cwm

cc: Contract
WMTraver w/Encl.
AHKoschmann (2) w/2 Encl.
Chron.
Amendment File w/Encl.
JWTownsend w/Encl.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
December 3, 1953

Mining Division
Date Rec'd.
DEC 4 - 1953
BUREAU OF MINES
Denver, Colorado

Memorandum

To: Executive Officer, Field Team, Region IV

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

Subject: DMEA 3001, Contract Idm-E570 (Tungsten), Paul H. Bennett (World mine), Boulder County, Colorado

Enclosed are the original and seven copies of a memorandum by R. L. Bolmer concerning completion of exploration on the subject docket for your use in giving the contractor written authorization.

The suggested exploration has my approval.

W. M. Traver

W. M. Traver

enclosure

WMT/kp

cc: 7
E570
Chron

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
December 3, 1953

Memorandum

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

From: R. L. Bolmer

Subject: DMEA 3001, Contract Idm-E570 (Tungsten), Paul H. Bennett (World mine), Boulder County, Colorado -- Recommendation regarding the location of uncompleted exploration

Exhibit "A", paragraph (c) of the subject short-form contract authorizes the following: "Raise a maximum of 100 feet on the Brandt vein to connect with the Brandt shaft. Any footage less than the 100 feet allowable to connect with the Brandt shaft may be expended in sublevel drifting at a point or points approved by the DMEA representative." The raise on the Brandt vein connected with the bottom of the Brandt shaft within a distance of 65 feet.

The operator discussed the location of the remaining 35 feet of authorized exploration with representatives of the DMEA Field Team, Region IV, on November 27, 1953. At that time, it was mutually agreed that the remaining authorized footage would be spent to the best advantage in the following manner:

(a) At a point in the raise approximately 60 feet above the 80-foot level of the World shaft, sublevel drift southwest on the Brandt vein a maximum distance of 20 feet.

(b) From a northwest crosscut on the 80-foot level of the World shaft, drift a maximum of 15 feet northeasterly on an apparent footwall split of the Brandt vein.

The operator understands that sublevel drifting from the raise will be reported at a unit cost of $34.00 per foot and drifting on the 80-foot level, at $32.00 per foot.

It is recommended that the Field Team take the necessary action to authorize the completion of the program as outlined above.

R. L. Bolmer
R. L. Bolmer
Mining Engineer

RLB/kp

cc: 7, E570, Chron

December 4, 1953

Memorandum

To: A. H. Koschmann AHK

From: E. N. Harshman

Subject: DMEA Docket 3001, Contract Idm-E570, World Mine, Boulder County, Colorado

Under the terms of contract Idm-E570, one hundred feet of raising is allowed to connect the 80-foot level of the World Mine with the bottom of the Brandt shaft. The contract further provides that any unused portion of the alloted footage for raising can be applied to sub-level drifting as approved by a DMEA representative. Sixty-five feet of raise was required to complete the connection and thus 35 feet of work remains to be completed under the contract.

Paul H. Bennett has requested that the remaining 35 feet of work be used as follows:

1. Twenty feet of sub-level drifting southwesterly from the raise on the Brandt vein at a point about 50 feet above the 80-foot level of the World mine

2. Fifteen feet of drifting northeasterly from the face of the short drift on the footwall split of the Brandt vein.

An examination of the World Mine was made on November 25, 1953. The raise has exposed an ore shoot on the Brandt vein extending from a few feet above the 80-foot level to the old Brandt shaft. Sublevel drifting is justified to determine the lateral extent of the ore.

The short drift on the footwall split, driven by the operator at his expense, has exposed a 1 to 2 foot sheared zone in granite-gneiss containing 2 - 4 inches of horn quartz on the footwall and isolated masses of ferberite in the footwall quartz and throughout the entire

width of the vein. Drifting on this vein appears justified.

The program of sublevel drifting from the raise and drifting on the footwall split of the Brandt vein is recommended as requested by the operator. No additional funds are required.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
December 3, 1953

Memorandum

To: Executive Officer, Field Team, Region IV

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

Subject: [illegible] 3001, Contract Ida-1570 (Tungsten), Paul E. Bennett (World mine), Boulder County, Colorado

Enclosed are the original and seven copies of a memorandum by E. L. Palmer concerning completion of exploration on the subject docket for your use in giving the contractor written authorization.

The suggested exploration has my approval.

W. M. Traver

W. M. Traver

enclosure

[illegible]/kp

cc: 7
1570
Chron

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
December 3, 1953

Memorandum

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

From: R. L. Balmer

Subject: RMSA 3001, Contract Ida-4570 (Tungsten), Paul H. Bennett (World mine), Boulder County, Colorado -- Recommendation regarding the location of uncompleted exploration

Exhibit "A", paragraph (e) of the subject short-form contract authorizes the following: "Raise a maximum of 100 feet on the Brandt vein to connect with the Brandt shaft. Any footage less than the 100 feet allowable to connect with the Brandt shaft may be expended in sublevel drifting at a point or points approved by the RMSA representative." The raise on the Brandt vein connected with the bottom of the Brandt shaft within a distance of 65 feet.

The operator discussed the location of the remaining 35 feet of authorized exploration with representatives of the RMSA Field Team, Region IV, on November 27, 1953. At that time, it was mutually agreed that the remaining authorized footage would be spent to the best advantage in the following manner:

(a) At a point in the raise approximately 60 feet above the 80-foot level of the World shaft, sublevel drift northwest on the Brandt vein a maximum distance of 20 feet.

(b) From a northwest crosscut on the 80-foot level of the World shaft, drift a maximum of 15 feet northeasterly on an apparent footwall split of the Brandt vein.

The operator understands that sublevel drifting from the raise will be reported at a unit cost of $34.00 per foot and drifting on the 80-foot level, at $32.00 per foot.

It is recommended that the Field Team take the necessary action to authorize the completion of the program as outlined above.

R. L. Balmer
R. L. Balmer
Mining Engineer

RLB/by

cc: 7, 4570, Chron

December 4, 1953

Memorandum

To: A. H. Koschmann AHK

From: E. N. Harshman

Subject: DMEA Docket 3001, Contract Idm-E570, World Mine, Boulder County, Colorado

Under the terms of contract Idm-E570, one hundred feet of raising is allowed to connect the 80-foot level of the World Mine with the bottom of the Brandt shaft. The contract further provides that any unused portion of the alloted footage for raising can be applied to sub-level drifting as approved by a DMEA representative. Sixty-five feet of raise was required to complete the connection and thus 35 feet of work remains to be completed under the contract.

Paul H. Bennett has requested that the remaining 35 feet of work be used as follows:

1. Twenty feet of sub-level drifting southwesterly from the raise on the Brandt vein at a point about 50 feet above the 80-foot level of the World mine

2. Fifteen feet of drifting northeasterly from the face of the short drift on the footwall split of the Brandt vein.

An examination of the World Mine was made on November 25, 1953. The raise has exposed an ore shoot on the Brandt vein extending from a few feet above the 80-foot level to the old Brandt shaft. Sublevel drifting is justified to determine the lateral extent of the ore.

The short drift on the footwall split, driven by the operator at his expense, has exposed a 1 to 2 foot sheared zone in granite-gneiss containing 2 - 4 inches of horn quartz on the footwall and isolated masses of forberite in the footwall quartz and throughout the entire

width of the vein. Drifting on this vein appears justified.

The program of sublevel drifting from the raise and drifting on the footwall split of the Brandt vein is recommended as requested by the operator. No additional funds are required.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
December 3, 1953

Memorandum

To: Executive Officer, Field Team, Region IV

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

Subject: DMMA 3002, Contract Ida-X570 (Tungsten), Paul H. Bennett (World mine), Boulder County, Colorado

Enclosed are the original and seven copies of a memorandum by H. L. Bolmer concerning completion of exploration on the subject deposit for your use in giving the contractor written authorization.

The suggested exploration has my approval.

W. H. Trauer

W. H. Trauer

Enclosure

WHT/hp

cc: 1
X570
Chron

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
December 3, 1953

Memorandum

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

From: R. L. Bolmer

Subject: MSHA 3001, Contract Ldn-5570 (Tungsten), Paul H. Bennett (World mine), Boulder County, Colorado -- Recommendation regarding the location of unexplored exploration

Exhibit "A", paragraph (a) of the subject short-form contract authorizes the following: "Raise a maximum of 100 feet on the Brandt vein to connect with the Brandt shaft. Any footage less than the 100 feet allowable to connect with the Brandt shaft may be expended in sublevel drifting at a point or points approved by the MSHA representative." The raise on the Brandt vein connected with the bottom of the Brandt shaft within a distance of 65 feet.

The operator discussed the location of the remaining 35 feet of authorized exploration with representatives of the MSHA Field Team, Region IV, on November 27, 1953. At that time, it was mutually agreed that the remaining authorized footage would be spent to the best advantage in the following manner:

(a) At a point in the raise approximately 60 feet above the 80-foot level of the World shaft, sublevel drift southwest on the Brandt vein a maximum distance of 20 feet.

(b) From a northwest crosscut on the 80-foot level of the World shaft, drift a maximum of 15 feet northeasterly on an apparent footwall split of the Brandt vein.

The operator understands that sublevel drifting from the raise will be reported at a unit cost of $34.00 per foot and drifting on the 80-foot level, at $32.00 per foot.

It is recommended that the Field Team take the necessary action to authorize the completion of the program as outlined above.

R. L. Bolmer
R. L. Bolmer
Mining Engineer

RLB/bp

cc: 7, 5570, Chron

December 4, 1953

Memorandum

To: A. H. Koschmann AHK

From: E. N. Hershman

Subject: DMEA Docket 3001, Contract Idm-E570, World Mine, Boulder County, Colorado

Under the terms of contract Idm-E570, one hundred feet of raising is allowed to connect the 80-foot level of the World Mine with the bottom of the Brandt shaft. The contract further provides that any unused portion of the alloted footage for raising can be applied to sub-level drifting as approved by a DMEA representative. Sixty-five feet of raise was required to complete the connection and thus 35 feet of work remains to be completed under the contract.

Paul H. Bennett has requested that the remaining 35 feet of work be used as follows:

1. Twenty feet of sub-level drifting southwesterly from the raise on the Brandt vein at a point about 50 feet above the 80-foot level of the World mine

2. Fifteen feet of drifting northeasterly from the face of the short drift on the footwall split of the Brandt vein.

An examination of the World Mine was made on November 25, 1953. The raise has exposed an ore shoot on the Brandt vein extending from a few feet above the 80-foot level to the old Brandt shaft. Sublevel drifting is justified to determine the lateral extent of the ore.

The short drift on the footwall split, driven by the operator at his expense, has exposed a 1 to 2 foot sheared zone in granite-gneiss containing 2 - 4 inches of horn quartz on the footwall and isolated masses of ferberite in the footwall quartz and throughout the entire

width of the vein. Drifting on this vein appears justified.

The program of sublevel drifting from the raise and drifting on the footwall split of the Brandt vein is recommended as requested by the operator. No additional funds are required.

224 New Customhouse
Denver 2, Colorado

December 4, 1953

Memorandum

To: A. H. Koschmann
W. H. Traver

From: DMEA Field Team, Region IV

Subject: Docket DMEA 3001 (Tungsten), Contract Idm-E570, Paul H. Bennett, World Mine, Boulder County, Colorado

Enclosed is a copy of a letter, dated December 3, 1953, with attached map, from Paul H. Bennett wherein he requests authorization of additional exploration work and additional funds under the subject contract.

Please submit a memorandum report of your recommendations in the matter, returning the enclosed material with your report.

If you recommend that an amendment be prepared to authorize the work, please submit nine extra copies of a map showing the work proposed, for attachment to the amendment.

W H King
W. H. King

for C. N. Hauchman
A. H. Koschmann

Enclosure

JWT:jp
cc Contracts
Chron
JWTownsend

6-303
(March 1947)

no XR

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
Salt Lake City, Utah

Mining Div.
Date Recd.
NOV 2 - 1953
BUREAU OF MINES
Denver, Colorado

No. 15

Report to Mr. E. E. Dolmar

Kochmann
DMEA files

Chemical Laboratory Report

Date received Oct. 26, 1953

Project - DMEA

Date reported Oct. 29, 1953

Serial No.	DESCRIPTION	Lot No.	%	UO_3
	World Mine Boulder County, Colorado DMEA 3001, Contract Idm-D570			
18909		RIB-60		6.1
	Reported DAB RJB			
	cc: W. M. Travor, Jr. W. H. King			

U. S. GOVERNMENT PRINTING OFFICE 16—33553-3

Signed H. E. Peterson

224 New Customhouse
Denver 2, Colorado

OCT 26 1953

Mr. Paul H. Bennett
1825 Marine Street
Boulder, Colorado

re: Docket No. DMEA 3001 (Tungsten)
Contract Idm-E570

Dear Mr. Bennett:

Enclosed is your copy of Amendment to No. 1 to Contract Idm-E570 which has been executed to adjust footages cited in Exhibit "A" of the contract under Description of the Work.

Very truly yours,

W. H. King

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

Enclosure

JWT:jp
cc Contract
Chron
WMTraver
JWTownsend

224 New Customhouse
Denver 2, Colorado

OCT 26 1953

Memorandum

To: C. O. Mittendorf, Administrator, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket No. DMEA 3001 (Tungsten), Contract Idm-E570, Paul H. Bennett, Boulder County, Colorado

Enclosed are the original and two copies of Amendment No. 1 to Contract Idm-E570 which has been executed to adjust footages cited in Exhibit "A" under Description of the Work. Also enclosed are three sets of data relevant to the amendment.

Copies of this amendment have been given to the operator, the Fiscal Officer, Region IV, and a copy has been retained for our files.

W. H. King

W. H. King

Enclosures

JWT:jp
cc Contract
Chron
JWTownsend

224 New Customhouse
Denver 2, Colorado

OCT 26 1953

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket No. DMEA 3001 (Tungsten), Contract Idm-E570, Paul H. Bennett, Boulder County, Colorado

Enclosed is your copy of Amendment No. 1 to Contract Idm-E570 which has been executed to adjust footages cited in Exhibit "A" under Description of the Work.

W. H. King

W. H. King

Enclosure

JWT:jp
cc Contract
Chron
WMTraver w/copy of amdt
AHKoschmann w/copies of amdt
JWTownsend w/copy of amdt

September 28, 1953

Memorandum

To: A. H. Koschmann A.H.K.

From: E. N. Harshman

Subject: DMEA Docket 3001 (tungsten), Contract Idm-E570, World Mine, Paul H. Bennett, Boulder County, Colorado

In a letter dated August 24, 1953, Paul H. Bennett requests that he be granted permission to use 54 feet of exploratory drifts and cross-cuts, authorized under Contract Idm-E570 and as yet unused, to drift to the northeast and southwest on the Brandt vein. Thirty feet of the unused amount results from work authorized in the contract but accomplished by the operator before the contract was consummated; twenty-four feet results from crosscutting allowed but not used in reaching the white vein.

The objectives considered in the original program have been reached. It is now apparent that the ore potentialities are greatest in the Brandt vein area and additional exploration is warranted.

It is therefore recommended that Contract Idm-E570 be amended to allow the southwest drift on the Brandt vein to be advanced 25 feet and the northeast drift on that vein to be advanced 29 feet as requested. Since the contract is on a unit cost basis, this recommendation will not raise the total expenditure authorized for exploration in the World mine.

Amendment No 1

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
September 22, 1953

Memorandum

To: Executive Officer, Field Team, Region IV

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

Subject: DMEA 3001, Contract Idm-E570 (Tungsten), Paul H. Bennett (World mine), Boulder County, Colo. -- Request for amendment to apply certain authorized exploration to other locations

In response to your memorandum dated September 15, 1953, I am enclosing the original and five copies of R. L. Bolmer's memorandum recommending approval of an amendment to apply to new locations in the mine a total of 54 feet of crosscutting and drifting now authorized by the contract, but which has either been performed at the operator's expense or is no longer warranted.

The recommendation has my approval.

W. M. Traver

W. M. Traver

cc 5
E570
Chron

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
September 18, 1953

Memorandum

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

From: R. L. Bolmer

Subject: DMEA 3001, Contract Idm-E570 (Tungsten), Paul H. Bennett (World mine), Boulder County, Colo. -- Request for amendment to apply certain authorized exploration to other locations

The operator has requested, by letter dated August 24, 1953, that a total of 54 feet of crosscutting and drifting now authorized by the contract, but which has either been performed at his own expense or is no longer warranted, be applied to new locations in the mine. The proposal is adequately described in the operator's letter.

The contract is a short form and the authorized unit cost of drifting and crosscutting is identical. The substitution of the new location for the unexpended footage is warranted and an amendment permitting the requested revision is recommended.

R. L. Bolmer

R. L. Bolmer
Mining Engineer

RLB/kp

cc 5
E570
Chron

1865 Marine St.,
Boulder, Colo.,
August 24, 1953.

Mr. William Trevor, Jr.,
U. S. Bureau of Mines
Room 137 Building 20
Denver Federal Center
Denver, Colo.,

Re: World Mine (Tungsten)
DMEA No. 3001 Contract Ion-2570

Dear Mr. Trevor,

We have now completed 96 feet of the 120 feet of cross-cut which contract shows to be run Southeast from near the World Shaft at the 60 foot level. We have cut the vein which was the objective of this drive, and have run well beyond it. The vein cut was well defined and strong, and projected upwards exactly to the White Shaft, but there is no mineralization. This leaves 24 feet of this X-cut unfinished.

There is also 20 feet of drift Northeast from intersection of old cross-cut on Brandt Vein and 30 feet of extension of old cross-cut Northeast which have not been done because we did this work on private account before contract was started.

This makes a total of 54 feet of drift and crosscut unused on this contract, and I am requesting that I be allowed to use this 54 feet as follows: 25 feet of drift Southwest from present face of drift on Brandt vein, and, 29 feet Northeast from present face of drift on Brandt vein. Inasmuch as the raise started on this vein is looking better than any other part of the mine, it looks as though this general region offers now the greatest possibilities for finding ore, and this reason is the basis for making this request.

Please advise if this amendment to the contract will be considered, and have your office designate the necessary starting points, if the change is approved.

Very truly yours

P. H. Bennett

P. H. Bennett

September 28, 1953

Memorandum

To: A. H. Koschmann A.H.K.

From: E. N. Harshman

Subject: DMEA Docket 3001 (tungsten), Contract Idm-E570, World Mine, Paul H. Bennett, Boulder County, Colorado

In a letter dated August 24, 1953, Paul H. Bennett requests that he be granted permission to use 54 feet of exploratory drifts and crosscuts, authorized under Contract Idm-E570 and as yet unused, to drift to the northeast and southwest on the Brandt vein. Thirty feet of the unused amount results from work authorized in the contract but accomplished by the operator before the contract was consummated; twenty-four feet results from crosscutting allowed but not used in reaching the white vein.

The objectives considered in the original program have been reached. It is now apparent that the ore potentialities are greatest in the Brandt vein area and additional exploration is warranted.

It is therefore recommended that Contract Idm-E570 be amended to allow the southwest drift on the Brandt vein to be advanced 25 feet and the northeast drift on that vein to be advanced 29 feet as requested. Since the contract is on a unit cost basis, this recommendation will not raise the total expenditure authorized for exploration in the World mine.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
October 21, 1953

Mining Division
Date Recd.
OCT 1953
BUREAU OF MINES
Denver, Colorado

Mr. Paul H. Bennett,
1825 Marine Street
Boulder, Colorado

REFERENCE: DMEA 3001, Contract Idm-E570

Dear Mr. Bennett:

Receipt is acknowledged of your completed form MF-104, "Operator's Monthly Report and Voucher", and form MF-104A, "Operator's Unit Cost and Progress Report", for the month of September 1953, covering contract Idm-E570.

Enclosed please find a set of six each of the above forms for use in submitting your next monthly report.

Very truly yours,

W. M. TRAVER

W. M. Traver, Chief
Mineral Resources Branch
Mining Division, Region IV

enclosures

/kp

cc WHKing
E570
DMEA Chron

224 New Customhouse
Denver 2, Colorado

September 30, 1953

Mr. Paul H. Bennett
1825 Marine Street
Boulder, Colorado

Re: Docket No. DMEA 3001 (Tungsten)
Contract Idm-E570

Dear Mr. Bennett:

Enclosed are the original and five copies of Amendment No. 1 to the referenced contract which has been prepared in conformance with your request of August 24, 1953 to authorize 54 feet of drifting on the Brandt vein in lieu of items (A) and (B), and part of (D), which footage was either performed prior to the execution of the contract or not needed to reach the objective of the exploration work described.

All copies of the amendment should be signed by you and returned to this office leaving the date blank.

Very truly yours,

W. H. King

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

Enclosures

JWT:jp
cc Contract
Chron
WMTraver
AHKoschmann
JWTownsend

Mining Division
Date Recd.

SEP 16 1953

BUREAU OF MINES
Denver, Colorado

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
September 15, 1953

Memorandum

To: Executive Officer, Field Team, Region IV

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

Subject: DMEA 3001, Contract Idm-E570 (Tungsten), World mine, Paul H. Bennett, Boulder County, Colorado - Request for amendment

Enclosed are the original and four copies of a request for an amendment to contract Idm-E570. Bennett prepared the request on the date shown, August 24, 1953, but through oversight, failed to submit it until yesterday and did not understand the request should have been directed to you.

We are retaining one copy of the request for our files. I have discussed the amendment with R. L. Bolmer, inspecting engineer on Boulder County projects, and we both approve the request. Please advise if a memorandum by Bolmer will be required.

W. M. Traver

W. M. Traver

enclosures

cc 5
E570
DMEA Chron.

WMT/pam

Files

R.B.B.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
September 15, 1953

Memorandum

To: Executive Officer, Field Team, Region IV

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

Subject: DMEA 3001, Contract Idm-E570 (Tungsten), World mine, Paul H. Bennett, Boulder County, Colorado - Request for amendment

Enclosed are the original and four copies of a request for an amendment to contract Idm-E570. Bennett prepared the request on the date shown, August 24, 1953, but through oversight, failed to submit it until yesterday and did not understand the request should have been directed to you.

We are retaining one copy of the request for our files. I have discussed the amendment with R. L. Bolmer, inspecting engineer on Boulder County projects, and we both approve the request. Please advise if a memorandum by Bolmer will be required.

W. M. Traver

W. M. Traver

enclosures

cc 5
E570
DMEA Chron.

WMT/pam

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
September 15, 1953

Memorandum

To: Executive Officer, Field Team, Region IV

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

Subject: DMEA 3001, Contract Idm-E570 (Tungsten), World mine, Paul H. Bennett, Boulder County, Colorado - Request for amendment

Enclosed are the original and four copies of a request for an amendment to contract Idm-E570. Bennett prepared the request on the date shown, August 24, 1953, but through oversight, failed to submit it until yesterday and did not understand the request should have been directed to you.

We are retaining one copy of the request for our files. I have discussed the amendment with R. L. Bolmer, inspecting engineer on Boulder County projects, and we both approve the request. Please advise if a memorandum by Bolmer will be required.

W. M. Traver

W. M. Traver

enclosures

cc
E570
DMEA Chron.

WMT/pam

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
September 15, 1953

Memorandum

To: Executive Officer, Field Team, Region IV

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

Subject: DMEA 3001, Contract Idm-E570 (Tungsten), World mine, Paul H. Bennett, Boulder County, Colorado - Request for amendment

Enclosed are the original and four copies of a request for an amendment to contract Idm-E570. Bennett prepared the request on the date shown, August 24, 1953, but through oversight, failed to submit it until yesterday and did not understand the request should have been directed to you.

We are retaining one copy of the request for our files. I have discussed the amendment with R. L. Bolmer, inspecting engineer on Boulder County projects, and we both approve the request. Please advise if a memorandum by Bolmer will be required.

W. M. Traver

W. M. Traver

enclosures

cc 5
E570
DMEA Chron.

WMT/pam

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
September 15, 1953

Memorandum

To: Executive Officer, Field Team, Region IV

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

Subject: DMEA 3001, Contract Idm-8570 (Tungsten), World mine, Paul M. Bennett, Boulder County, Colorado - Request for amendment

Enclosed are the original and four copies of a request for an amendment to contract Idm-8570. Bennett prepared the request on the date shown, August 24, 1953, but through oversight, failed to submit it until yesterday and did not understand the request should have been directed to you.

We are retaining one copy of the request for our files. I have discussed the amendment with R. L. Bolmer, inspecting engineer on Boulder County projects, and we both approve the request. Please advise if a memorandum by Bolmer will be required.

W. M. Traver

W. M. Traver

enclosures

cc 5
8570
DMEA Chrom.

WMT/pam

224 New Customhouse
Denver 2, Colorado

September 17, 1953

Memorandum

To: A. H. Koschmann

From: DMEA Field Team, Region IV

Subject: Docket No. DMEA-3001 (Tungsten), Contract Idm-E570, World Mine, Paul H. Bennett, Boulder County, Colorado

Enclosed is a copy of a letter dated August 24, 1953, from Paul H. Bennett to Mr. William Traver, Jr., in request of authority to modify the work program.

Please submit a memorandum report of your recommendations in the matter of the operator's request.

W. H. King

W. H. King

W.H.K.

A. H. Koschmann

A. H. Koschmann

Enclosure

JWT:jp
cc Contract
Chron
WMTraver
JWTownsend w/encl

1825 Marine St.,
Boulder, Colo.,
August 24, 1953.

Mr. William Traver, Jr.,
U. S. Bureau of Mines
Room 137 Building 20
Denver Federal Center
Denver, Colo.,

Re: World Mine (Tungsten)
DMMA No. 3001 Contract Idm-5570

Dear Mr. Traver,

We have now completed 96 feet of the 120 feet of cross-cut which contract shows to be run Southeast from near the World Shaft at the 80 foot level. We have cut the vein which was the objective of this drive, and have run well beyond it. The vein cut was well defined and strong, and projected upwards exactly to the White Shaft, but there is no mineralization. This leaves 24 feet of this X-cut unfinished.

There is also 20 feet of drift Northeast from intersection of old cross-cut on Brandt Vein and 10 feet of extension of old cross-cut Northwest which have not been done because we did this work on private account before contract was started.

This makes a total of 54 feet of drift and crosscut unused on this contract, and I am requesting that I be allowed to use this 54 feet as follows: 25 feet of drift Southwest from present face of drift on Brandt vein; and, 29 feet Northeast from present face of drift on Brandt vein. Inasmuch as the raise started on this vein is looking better than any other part of the mine, it looks as though this general region offers now the greatest possibilities for finding ore, and this reason is the basis for making this request.

Please advise if this amendment to the contract will be considered, and have your office designate the necessary starting points, if the change is approved.

Very truly yours

P. H. Bennett

P. H. Bennett

2 cc

224 New Customhouse
Denver 2, Colorado

September 15, 1953

Memorandum

To: W. M. Traver

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket No. DMEA 3001 (Tungsten), Contract Idm-E570, Paul H. Bennett, Boulder County, Colorado

Reference is made to your memorandum of September 15, 1953, by which you transmitted a request from the operator for an amendment to his contract. You also asked whether a memorandum report by Bolmer would be required.

We will need the usual memorandum report from the inspecting engineer for the use of the Washington office as justification for the amendment.

W. H. King
W. H. King

JWT:jp
cc Contract
Chron
AHKoschmann
JWTownsend

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

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

Mining Division
Date Rec'd
JUL 30 1953
BUREAU OF MINES
Denver, Colorado

Memorandum

To: Executive Officer, Field Team, Region IV

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

Subject: DMEA 3001, Contract Idm-E570 (Tungsten), World mine tract (600 feet by 1,500 feet), Boulder County, Colorado

M. H. Salsbury (Bureau of Mines) designated the various starting points on the subject contract when he visited the mine with the contractor, Paul H. Bennett, and E. N. Harshman (Geological Survey) on July 20, 1953.

This was done in conformance with the instruction to the contractor in your letter of July 15, 1953. He notified this office that work was started July 21, 1953, and copies were sent to you.

W. M. Traver

W. M. Traver

WMT:amh

cc: W. H. King (2)
E570
DMEA Chron.

COPY

1825 Marine Street
Boulder, Colo.
July 20th 1953

Mr. W. M. Traver, Jr.
U. S. Bureau of Mines
Room 137, Building 20
Denver Federal Center
Denver 14, Colo.

Re: World Mine DMEA 3001
Contract Idm-E570 (Tungsten)

Dear Mr. Traver:

This will acknowledge your letter advising that the above mentioned contract had been signed, together with instructions, and a copy of the contract.

We were so fortunate as to meet Mr. Harshman (USGS) and Mr. Salsbury, of your office, at the mine today, and they have established the locations and measurements necessary before we could start work. We are therefore beginning work with three men tomorrow July 21, 1953, and this letter will be a notification as you requested.

Very truly yours,

/s/ Paul H. Bennett

P. H. Bennett

Note: All correspondence from the Bureau has carried our address as "1825 Maine" Street. This is in error and should be corrected to the address shown above.

Received

PHB

Recorded in book PHB.

MARIPOSA MINING COMPANY
Box 1720
Telluride, Colorado

July 17, 1953

Mining Division
Date Rec'd
JUL 21 1953
BUREAU OF MINES
Denver, Colorado

Mr. Arthur Dulde, President
Mariposa Mining Company
1633 South 44th Street
Milwaukee 14, Wisconsin

Dear Mr. Dulde:

Under separate cover you will receive 6 copies of the DMEA contract, which you should have the corporate secretary sign and seal in the proper place.

Please return these at your earliest convenience to:

Mr. W. H. King, Executive Officer
Defense Minerals Exploration Administration Field Team
Region IV
224 New Customhouse
Denver 2, Colorado

Very truly yours,

/s/ George T. McCall

George T. McCall, Manager

cc: W. H. King
W. M. Traver

COPY

R.D.B.
Misc

224 New Customhouse
Denver 2, Colorado

REGISTERED

July 15, 1953

Mr. Paul H. Bennett
1825 Maine Street
Boulder, Colorado

Dear Mr. Bennett:

Enclosed herewith is your copy of Exploration Project Contract No. Idm-1570, Docket No. DMEA 3001.

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 full calendar month of operation and monthly thereafter, you are required to submit five copies of the forms to Mr. W. M. Traver, U. S. Bureau of Mines, Building 20, Room 137, Denver Federal Center, Denver 14, Colorado. The sixth form is for your records. Please note that the monthly report requires a narrative report which should be accompanied by maps or sketches. 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 104A will be forwarded to you as required.

For your information and in reply to many questions that have been asked, after Forms MF-104 and 104A are received an engineer will check progress and approve your accounts, after which it will be sent to the Regional Office, Region IV, 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.

Your attention is directed to the regulation that provides that reimbursement for the cost of work accomplished prior to the date of the contract will not be allowed. This contract is prepared on the short form under the terms of which the Government reimburses you for 75 percent of the agreed estimated costs as they accrue for units of work actually performed, therefore it is necessary that the starting point of the work be determined by a Bureau of Mines engineer before you commence work under the terms of this contract. Please advise this office in writing the date work actually starts under the contract.

If you have any difficulty in completing these forms and the reports, please call on Mr. Traver or this office for assistance.

Yours very truly,

W. H. King

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

HMC:fwo
cc Contract
WMTraver, Jr. w/cy of contr
Enc Koschmann w/cy of contr
Chron

224 New Customhouse
Denver 2, Colorado

REGISTERED

July 15, 1953

Memorandum

To: C. O. Mittendorf, Administrator, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Contract - Idm-E 570 (Tungsten), Docket No. DMEA 3001, Paul H. Bennett, Boulder County, Colorado

Enclosed are the original and two copies of Contract Idm-E570. Copies of the contract have been given to the operator, the Fiscal Officer, Region IV, and a copy has been retained for our files.

W. H. King

W. H. King

Enclosure

HMC:fwo

cc WMTraver, Jr.
Contract
Chron
Koschmann

224 New Customhouse
Denver 2, Colorado

July 15, 1953

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region IV

Subject: Contract Idm-E570 (Tungsten), Docket No. DMEA 3001, Paul H. Bennett, Boulder County, Colorado.

Enclosed is your copy of Contract Idm-E570.

W. H. King

W. H. King

Enclosure

HMC:fwo

cc Contract
Chron

224 New Customhouse
Denver 2, Colorado

July 15, 1953

Memorandum

To: Secretary, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Final Report - Docket No. DMEA 3001 (Tungsten), Paul H. Bennett, Boulder County, Colorado

Enclosed are four copies of the final report on docket number DMEA 3001. The contract has been prepared in this office and is now in force.

W. H. King

W. H. King

Enclosure

HMC:fwo

cc Contract
Chron

ROK/K

T

DN 235 BUR MINES GA PLS

WASH DC BU MINES 310 7-15-53 3-16 PM

W H KING,

SUBJECT... ASSIGNMENT OF CONTRACT NUMBER

REURTEL 7-14-53, DOCKET NO. DMEA- 3001, PAUL H. BENNETT, 1825 MAINE ST., BOULDER, BOLORADO, PROPERTY IN BOULDER COUNTY, COLORADO, COMMODITY TUNGSTEN. CONTRACT NUMBER IDM-E570 ASSIGNED THIS CONTRACT.

C O MITTENDORF ADMINISTRATOR

3-18 PM END PLS ACK RT

HAVUONE FO

H HAVE ONE FOR YOU YOURS RCD OK LD

M

BUR MINES DN 235 GA PLS

RDY WITH WA
ANNC PLS DN FOR XXXXX ANNC PLS WA FOR DN

RDB

WASH DC BU MINES 310 GA PLS

BUR MINES DN 235 7-14-53 9-49 AM

C O MITTENDORF

PLEASE ASSIGN A UXXXX NUMBER TO A CONTRACT COVERING DOCKET NO. DMEA-3001, PAUL H. BENNETT, 1825 MAINE STREET, BOULDER, COLORADO. PROPERTY LOCATED IN BOULDER COUNTY, COLORADO. COMMODITY TUNGSTEN. CONTRACT DATED JULY 14. TOTAL AMOUNT OF CONTRACT $8,200.00. GOVERNMENT PARTICIPATION $6,150.00.

J H EAST JR FOR W H KING

9-51 AM END PLS ACK FTM
MSG RECD OK RT

Region IV

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
July 9, 1953

Mining Division
Date Rec'd.
JUL 10 1953
BUREAU OF MINES
Denver, Colorado

Mr. Paul H. Bennett
1825 Maine Street
Boulder, Colorado

REFERENCE: DMEA 3001 (Tungsten)
Boulder County, Colorado

Dear Mr. Bennett:

Enclosed are six copies of an exploration project contract between the Government and yourself. If this contract is satisfactory, all copies of the contract should be signed and returned to W. M. King, Executive Officer, Defense Minerals Exploration Administration Field Team, Region IV, 224 New Customhouse, Denver 2, Colorado.

The effective date of the contract will be the day it is signed by the Defense Minerals Exploration Administration Executive Officer. You are cautioned not to commence work under the terms of the contract prior to the effective date, as reimbursement will not be made for such work.

When the contracts are properly signed and returned to the Executive Officer, he will sign them, have the starting date inserted, and return the operator's copy to you with instructions regarding the start of work and reporting procedures.

Very truly yours,

W. M. TRAVER

W. M. Traver, Chief
Mineral Resources Branch
Mining Division, Region IV

enclosures

WMT/cb

cc: WHKing (2)
DMEA 3001
Chron.

224 New Customhouse
Denver 2, Colorado

July 6, 1953

Memorandum

To: W. M. Traver, Jr.

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMEA 3001 (Tungsten), Paul H. Bennett, Boulder County, Colorado

Enclosed are six copies of a contract between the Government and Paul H. Bennett, 1825 Maine Street, Boulder, Colorado.

If this contract is satisfactory to you and to the Operator, please have all six copies signed by Paul H. Bennett, and all copies returned to this office.

Please notify the applicant that reimbursement will not be authorized for work performed prior to the effective date of the contract, which is the date it is signed in this office by the Executive Officer.

W. H. King

W. H. King

Enclosures

HMC:es

cc: Docket
Chron.
Koschmann (2)

Mining Division
Region IV

June 29, 1953.

Memorandum

To: Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Final Report, DMEA Docket 3001 (Tungsten), Paul E. Bennett, World Mine, Boulder County, Colorado.

Enclosed are eight copies of the final engineering report on the subject docket.

The applicant requested $15,508.00 for exploration to include crosscutting, drifting and raising. The examining engineer recommends a modified project totaling 250 feet of exploration at a cost of $8,200.00.

We concur in this recommendation.

W. H. King
W. H. King

Enclosures

HMC:cwm

cc: Subject
AHKoschmann (2)
Chron.

[illegible]
Denver [illegible], Colorado

[illegible]

[illegible]

To: [illegible], Defense Minerals Exploration Administration
Attention: [illegible]

From: Field Team, Region IV

Subject: Final Report, DMEA Docket [illegible] ([illegible]), [illegible], [illegible] Mine, Boulder County, Colorado.

Exploration assistance in the amount of $[illegible] has been approved and the contract will be prepared by this office.

Four copies of the final report will be forwarded you when the contract is executed. The original and one copy of Form [illegible] is attached.

W. H. King
[illegible]

A. H. Koschmann
[illegible]

W.H.K.

[illegible]

HMC:cwm

cc: WMTraver w/copy of Final Report
AHKoschmann w/copy of Final Report
DMEA w/copy of Final Report
Mining Division w/copy of Final Report
Subject
AHKoschmann (2)
Chron.

DMEA Form 3b
(Revised)

DEFENSE MINERALS EXPLORATION ADMINISTRATION

CONTROLLED DOCUMENT
Revised Abstract

DMEA Docket No. 3001

Name of Applicant Paul H. Bennett

Change:	From		To	
	III 1	☐	III 1	☒ 6-29-53
	III 2	☐	III 2	☐
	III 3	☐	III 3	☐
	III 4	☒	III 4	☐
	III 5	☐	III 5	☐
			III 6	☐
			III 7	☐

Add:

II 7 $ 15,508.00

II 8 $ 8,200.00

II 8a % 75%

II 9 $

Remarks:

Initials of person preparing sheet BMC

Date sheet prepared 6-29-53

33978

1825 Marine St.,
Boulder, Colo.,
June 22, 1953

Mining Division
Date Rec'd.

JUN 23 1953

BUREAU OF MINES
Denver, Colorado

Mr. W. H. King
Executive Officer DMEA, Region IV
224 New Customhouse
Denver 2, Colo.,

Re: Application DMEA-3001 (Tungsten)

Dear Mr. King,

Enclosed are six copies "Owner's Consent to Lien" and one copy photostat of original lease from Hetzer Mines, Inc., covering above mentioned loan application.

Please advise if information is needed.

Very truly yours

P. H. Bennett

P. H. Bennett

Enclosures

224 New Customhouse
Denver 2, Colorado

May 5, 1953

Memorandum

To: A. H. Koschmann (with brochure)

W. M. Traver, Jr.

From: Field Team, Region IV

Subject: Docket DMEA-3001 (Tungsten), Paul H. Bennett, World Mine, Boulder County, Colorado

Enclosed herewith is the subject application for Government assistance in exploration work estimated to cost $15,508.00.

A suitable report is required.

W. H. King
W. H. King

A. H. Koschmann
A. H. Koschmann

Enclosure

W.H.K.

HMC:fwo

cc Subject, Chron

224 New Customhouse
Denver 2, Colorado

April 24, 1953

Memorandum

To: Administrator, Defense Minerals Exploration Administration, Attention: Code 200

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docketing for Exploration Assistance

Enclosed herewith in duplicate is DMA Form 3a and MF-103, and supporting data pertaining to the following application s for Government assistance in exploration work:

Paul H. Bennett
1825 Marine Street
Boulder, Colorado

Arnold H. Johnson
55 N. Matlock Street
Mesa, Arizona

and

Louie J. Marchese
1341 E. Van Buren Street
Phoenix, Arizona

Calvin Black and Keith Jones
Blanding, Utah

Lone Tree Mines
Box 185
Castledale, Utah

W. H. KING

W. H. King

Enclosures

jp
cc Code 200 file
Docket (P.H.Bennett)
Docket (Johnson & Marchese)
Docket (Black & Jones)
Docket (Lone Tree Mines)
Chron
AHKoschmann

DMA Form 3a

DEFENSE MINERALS ADMINISTRATION

CONTROLLED DOCUMENT
Abstract

I. Check One:

1 ☐ 2 ☐ 3 ☒ 4 ☐ 5 ☐ 6 ☐

II. Fill in each item:

1. _____ 2. _____ 2a. _____

3. Paul H. Bennett 1825 Marine St.
Boulder Colorado
_____ (Code) _____

4. World Mine

5. Country _____ State Colorado County Boulder
(Code) (Code)

6. Tungsten

7. $ 15,508.00

8. $ _____ % 75

9. Est. Ann. Increase - _____ Unit of Measure - _____

10. $ _____

11. _____

III. Check one:

1 ☐ 2 ☐ 3 ☐ 4 ☒

Initials of person preparing sheet HMC

Date sheet prepared 4-24-53

INT.-DUP. SEC., WASH., D.C. 98695

1825 Marine St.,
Boulder, Colo.,
April 21, 1953.

Mining Division
Date Rec'd.
APR 23 1953
BUREAU OF MINES
Denver Colorado

Mr. W. H. King,
Executive Officer DMEA
U. S. Bureau of Mines
224 New Customhouse
Denver 2, Colo.,

Dear Mr. King,

I am submitting herewith an application for a DMEA loan on the World Mine, in the Nederland District of Boulder County, Colorado. There are four complete sets of applications consisting of the following:

Form MF-103
Copy of Lease from Hetzer Mines Inc.
3 Sheets Supplemental Information
2 Maps

I think this project has as much merit as anything in the district, and I'm more than confident that it will result in at least one good ore shoot, and perhaps several. Each of the separate objectives could easily justify the entire project.

Hoping that you will give this your earliest consideration, I remain,

Very truly yours

P. H. Bennett

P. H. Bennett

L E A S E

THIS INDENTURE. Made and entered into this 17th day of January, 1953, between HETZER MINES, INC., a corporation, hereinafter called the Lessor, and P. H. BENNETT, Hereinafter called the Lessee,

WITNESSETH: That the Lessor, in consideration of the covenants and agreements of the Lessee hereinafter expressed to be kept and performed by the Lessee, and upon and subject to the conditions hereinafter provided, has leased and demised, and by these presents does lease and demise unto the Lessee, the following described property situate in Boulder County, State of Colorado, to-wit:

> Beginning at the Southwest corner of the Northwest quarter of the Northwest quarter of Section Eight, Township One South, Range 72 West of the 6th P.M., running thence East along the South line of said Northwest quarter of the Northwest quarter a distance of 600 feet to the true point of beginning, running thence East along the South line of the North half of the Northwest quarter of said Section Eight a distance of 1500 feet, thence North 600 feet, thence West 1500 feet to a point 600 feet due North of the true point of beginning, thence South to the true point of beginning; and also, the following described equipment, to-wit:
>
> 1 - 15 H.P. Electric Hoist complete with motor, controller, grids, approximately 200 feet 3/4" cable with safety chain.
> 1 - Dump sheet
> 2 - Buckets (small)
> 50' 8# (Yd) track
> 100' 2" pipe
> 1 - 2' x 4' Water pressure tank
> 1 - R-91 Stoper 6-D 7/8" Hex
> 1 - 3" Double screw column complete

TO HAVE AND TO HOLD The said demised premises, only however to the extent necessary for the purpose of mining the same for tungsten ore and for no other purpose, for a term of ten (10) years from the date hereof.

IN CONSIDERATION Of this lease, the Lessee covenants and agrees as follows, to-wit:

1. To work the said premises in thorough mine-fashion to the end of the safe development and preservation of the same as a workable mine, at all times extracting as much ore therefrom as is possible consistent with safe and prudent mining.

2. To work the demised premises continuously from the date of this lease, performing at least forty shifts of work therein underground during each calendar month during the time this lease shall remain in force and effect; any excess labor performed during any calendar month shall not apply on the work required hereunder in any preceding or following calendar month. The word "shift" is taken and accepted to mean the labor of one man for one day of at least 8 hours.

3. To make all shafts and inclines eight (8) feet long by four (4) feet wide in the clear, with bucket ways three and one-half ($3\frac{1}{2}$) by four (4) feet in the clear, and all drifts seven (7) feet high by four (4) feet wide in the clear, provided that existing shafts, drifts and inclines shall, unless otherwise directed by the Lessor, be continued with their present dimensions. The Lessor reserves the right to change the dimensions of any workings as and whenever in the judgment of the Mining Superintendent of the Lessor the same may be necessary or expedient.

4. To do no underhand steping, whether for the purpose of taking out ore or for any other purpose whatsoever.

5. To neither mine, extract nor remove the ground to a point nearer than four (4) feet to each side of any working shaft, and always to leave at least four (4) feet of ground, in its original condition, to support each such shaft. To leave more than four (4) feet of ground to support each such shaft if the Mining Superintendent of the Lessor shall so direct and to crib or rip-rap any shaft at the Lessee's expense, if the said Mining Superintendent shall so request the Lessee.

6. To allow the officers, agents and representatives of the Lessor at all times to enter upon and into the said premises and all parts thereof for the purpose of inspection and sampling, and to make any surveys that they may desire, and to render them all the assistance in the power of the Lessee in so doing.

7. To keep and maintain the drifts, shafts, tunnels and other workings in the said premises thoroughly drained and clear of loose rock and rubbish, and in a safe and secure condition, except as prevented by extraordinary mining casualty, and to maintain at all times and leave the floors of all drifts and workings in good, even and unobstructed condition; to stow no waste underground except with the consent in writing of and under the direction of the Mining Superintendent of the Lessor.

8. To keep posted in conspicuous places on the surface of the said premises all notices which may be furnished by the Lessor for posting thereon.

9. The Lessee agrees and promises that before commencing operations on said premises he will take out Workmen's Compensation Insurance to protect the Lessor and to protect the Lessee and his employees from any injuries, and that as a condition of this lease the Lessee will keep said Workmen's Compensation Insurance in force during the entire term of this lease.

10. The Lessee agrees to pay to the Lessor and the Lessor reserves the royalty of sixteen per cent (16%) of the net proceeds of any ores and concentrates produced by the Lessee from said leased premises. "The net proceeds" is agreed to be the net sale price of said ores and concentrates less the cost of hauling and/or freight charges and all treatment charges. All ores and concentrates shall be shipped in the names of the Lessor and Lessee and royalties reserved by the Lessor shall be paid directly to it

by the purchaser of any ores or concentrates. The Lessee agrees to furnish to the Lessor a copy of a settlement sheet from the purchaser or purchasers of ores and concentrates.

IT IS MUTUALLY AGREED By and between the Lessor and Lessee as follows:

(a) In the event the Lessee fails to pay the royalty herein reserved, or fails to pay compensation insurance premiums, the Lessor shall have the right to terminate this lease immediately and without notice to the Lessee. In the event of the violation of any other term, provision or condition of this lease by the Lessee, the Lessor shall have the right to terminate this lease upon giving thirty (30) days' written notice to the Lessee. In the event the Lessee corrects such defaults within thirty (30) days, said lease shall not be terminated. In the event any default shall not be corrected at the end of said thirty-day period, then said lease shall be terminated as of the end of said thirty-day period. Said notice shall be given in writing, addressed to the Lessee at 1825 Marine Street, Boulder, Colorado.

(b) The title to any ores broken or mined on said leased premises at the termination of this lease, shall be the property of the Lessor, and it shall not be liable for the payment to the Lessee for the same before any costs or expenses of breaking or mining said ore.

(c) The Lessee may, at his discretion, terminate this agreement and all obligations thereunder, provided it makes payment for any royalties that might be due at the time of the cancellation of the lease and returns whatever equipment is the property of the Lessor.

(d) The Lessee agrees to keep the equipment leased hereby in good repair at his expense and on the termination of this lease to surrender it in good order and condition.

IN WITNESS WHEREOF, This lease has been executed this 17th day of January, 1953.

HETZEL MINES, INC.

By Elmer Hetzer
President

T. H. Bennett

224 New Customhouse
Denver 2, Colorado

September 16, 1952

6-5-70

Mr. Paul H. Bennett
1025 Marine Street
Boulder, Colorado

Dear Mr. Bennett:

We are returning three copies of your Assignment of Lease in accordance with your telephone request of September 15.

Very truly yours,

W. H. King

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

Enclosures
JFS:es

cc: Traver
Contract
Chron.
Koschmann (2)

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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

Not to be filled in by applicant

Docket No. .....
Metal or Mineral .....
Date Received .....
Estimated Cost .....
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: Paul H. Bennett,
1825 Marine St.,
Boulder, Colo.

(*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

(See attached sheet)

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

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Lessee from Hetzer Mines, Inc., 250 Pearl St., Boulder, Colo.

(*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. One copy attached to each copy of application.

(*e*) If you own the land, describe any liens or encumbrances on it Do not own land

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. Does not consist of unpatented claims.

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. See attached sheets

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

(*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. Description and map attached

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

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

16—66551-1

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

(*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. Description and map attached

(*c*) The work will start within 10 days and be completed within 6 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. See attached sheets

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)? Yes

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

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

Explain in detail on acompanying paper. See attached sheets

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 April 15th, 1953

Paul H. Bennett
(Applicant)
Paul H. Bennett

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

LEASE

THIS INDENTURE, Made and entered into this 17th day of January, 1953, between Hatzer Mines, Inc., a corporation, hereinafter called the Lessor, and P. H. Bennett, Hereinafter called the lessee,

WITNESSETH: That the Lessor, in consideration of the covenants and agreements of the Lessee hereinafter expressed to be kept and performed by the Lessee, and upon and subject to the conditions hereinafter provided, has leased and demised, and by these presents does lease and demise unto the Lessee, the following described property situate in Boulder County, State of Colorado, to-wit:

> Beginning at the Southwest corner of the Northwest quarter of the Northwest quarter of Section Eight, Township One South, Range 72 West of the 6th P.M., running thence East along the South line of said Northwest quarter of the Northwest quarter a distance of 600 feet to the true point of beginning, running thence East along the South line of the North half of the Northwest quarter of said Section Eight a distance of 1500 feet, thence North 600 feet, thence West 1500 feet to a point 600 feet due North of the true point of beginning, thence South to the true point of beginning; and also, the following described equipment, to-wit:
>
> 1 - 15 H.P. Electric Hoist complete with motor, controller, grids, approximately 200 feet 3/4" cable with safety chain.
> 1 - Dump sheet
> 2 - Buckets (small)
> 50' 8# (Yd) track
> 100' 2" pipe
> 1 - 2' x 4' Water pressure tank
> 1 - R-91 Stoper C-D 7/8" Hex
> 1 - 3" Double screw column complete

TO HAVE AND TO HOLD The said demised premises, only however to the extent necessary for the purpose of mining the same for tungsten ore and for no other purpose, for a term of ten (10) years from the date hereof.

IN CONSIDERATION OF this lease, the Lessee covenants and agrees as follows, to-wit:

1. To work the said premises in thorough mine-fashion to the end of the safe development and preservation of the same as a workable mine, at all times extracting as much ore therefrom as is possible consistent with safe and prudent mining.

2. To work the demised premises continuously from the date of this lease, performing at least forty shifts of work therein underground during each calendar month during the time this lease shall remain in force and effect; any excess labor performed during any calendar month shall not apply on the work required hereunder in any preceeding or following calendar month. The word "shift" is taken and accepted to mean the labor of one man for one day of at least 8 hours.

3. To make all shafts and inclines eight (8) feet long by four (4) feet wide in the clear, with bucket ways three and one-half (3½) by four (4) feet in the clear, and all drifts seven (7) feet high by four (4) feet wide in the clear, provided that existing shafts, drifts, and inclines shall, unless otherwise directed by the Lessor, be continued with their present dimensions. The Lessor reserves the right to change the dimensions of any workings as and whenever in the judgment of the Mining Superintendent of the Lessor the same may be necessary or expedient.

4. To do no underhand stoping, whether for the purpose of taking out ore or for any other purpose whatsoever.

5. To neither mine, extract nor remove the ground to a point nearer than four (4) feet to each side of any working shaft, and always to leave at least four (4) feet of ground, in its original condition, to support each such shaft. To leave more than four (4) feet of ground to support each such shaft if the Mining Superintendent of the Lessor shall so direct and to crib or rip-rap any shaft at the Lessee's expense, if the said Mining Superintendent shall so request the Lessee.

6. To allow the officers, agents and representatives of the Lessor at all times to enter upon and into the said premises and all parts thereof for the purpose of inspection and sampling, and to make any surveys that they may desire, and to render them all the assistance in the power of the Lessee in so doing.

7. To keep and maintain the drifts, shafts, tunnels and other workings in the said premises thoroughly drained and clear of loose rock and rubbish, and in a safe and secure condition, except as prevented by extraordinary mining casualty, and to maintain at all times and leave the floors of all drifts and workings in good, even and unobstructed condition; to stow no waste underground except with the consent in writing of and under the direction of the Mining Superintendent of the Lessor.

8. To keep posted in conspicuous places on the surface of the said premises all notices which may be furnished by the Lessor for posting thereon.

9. The Lessee agrees and promises that before commencing operations on said premises he will take out Workmen's Compensation Insurance to protect the Lessor and to protect the Lessee and his employees from any injuries, and that as a condition of this lease the Lessee will keep said Workmen's Compensation Insurance in force during the entire term of this lease.

10. The Lessee agrees to pay to the Lessor and the Lessor reserves the royalty of sixteen per cent (16%) of the net proceeds of any ores and concentrates produced by the Lessee from said leased premises. "The net proceeds" is agreed to be the net sale price of said ores and concentrates less the cost of hauling and/or freight charges and all treatment charges. All ores and concentrates shall be shipped in the names of the Lessor and Lessee and royalties reserved by the Lessor shall be paid directly to it

by the purchaser of any ores or concentrates. The Lessee agrees to furnish to the Lessor a copy of a settlement sheet from the purchaser or purchasers of ores and concentrates.

IT IS MUTUALLY AGREED By and between the Lessor and Lessee as follows:

(a) In the event the Lessee fails to pay the royalty herein reserved, or fails to pay compensation insurance premiums, the Lessor shall have the right to terminate this lease immediately and without notice to the Lessee. In the event of the violation of any other term, provision or condition of this lease by the Lessee, the Lessor shall have the right to terminate this lease upon giving thirty (30) days' written notice to the Lessee. In the event the Lessee corrects such defaults within thirty (30) days, said lease shall not be terminated. In the event any default shall not be corrected at the end of said thirty-day period, then said lease shall be terminated as of the end of said thirty-day period. Said notice shall be given inwriting, addressed to the Lessee at 1825 Marine St., Boulder, Colorado.

(b) The title to any ores broken or mined on said leased premises at the termination of this lease, shall be the property of the Lessor, and it shall not be liable for the payment to the Lessee for the same before any costs or expenses of breaking or mining said ore.

(c) The Lessee may at his discretion, terminate this agreement and all obligations thereunder, provided it makes payment for any royalties that might be due at the time of the cancellation of the lease and returns whatever equipment is the property of the Lessor.

(d) The Lessee agrees to keep the equipment leased hereby in good repair at his expense and on the termination of this lease to surrender it in good order and condition.

IN WITNESS WHEREOF, This lease has been executed this 17th day of January, 1953.

HETZER MINES, INC.

By (Signed) Elmer Hetzer - President

SEAL OF
HETZER MINES INC.

(Signed) P. H. Bennett

Certified a true copy P. H. Bennett
P. H. Bennett

Supplemental Sheet #1 DMEA Application
P. H. Bennett, 1825 Marine St., Boulder, Colo.

3. (a) Beginning at the Southwest corner of the Northwest quarter of the Northwest quarter of Section Eight, Township One South, Range 72 West of the 6th P. M., running thence East along the South line of said Northwest quarter of the Northwest quarter a distance of 600 feet to the true point of beginning, running thence East along the South line of the North half of the Northwest quarter of said Section Eight a distance of 1500 feet, thence North 600 feet, thence West 1500 feet to a point 600 feet due North of the true point of beginning, thence South to the true point of beginning; (Excerpt from lease from Hotzer Mines, Inc.)

4. (a) Within the boundaries of the land previously described, and under control of the applicant there exists, among others, four shafts, all of which have produced tungsten in varying amounts. The applicant has unwatered two of these, i. e., the World Shaft through which present work is being conducted, and the Brandt Shaft, which was unwatered for examination. Two other shafts adjacent, the White Shaft, and the Ford Shaft, have not been opened in recent years, but local information is that they were both producers. The World Shaft is approximately 80 feet deep with levels at 40 feet and 60 feet. The applicant has just completed driving 225 feet of crosscut in a Northwesterly direction and has cut the Brandt Vein as shown on accompanying map. This work is all open for inspection, the machinery is all installed for operation, and the power is connected, so that immediate inspection or operation is possible.

4. (b) In the early 1940's (World War II) the World Shaft was mined by George Todd, Joe Smith, and Thurman Hennings. No exact figures are available, but production is reported to be in excess of $50,000.00 The other three adjacent shafts (under which we desire to explore) were all producers in past years under leasers operations. There are no ore reserves at present.

4. (c) This region is composed of granites and other igneous rocks crossed by fissure veins in which tungsten (Ferberite) has been found in considerable quantities. The vein series includes other big producing mines in the immediate vicinity, including the Cold Spring with a recorded production of over 2,000,000 pounds WO3 and the Cross with a recorded production of 840,000 pounds WO3 (These figures obtained from Hotzer Mines Inc., from the records of the Wolf Tongue Mining Co.) The applicant saw commercial ore in the bottom of the Brandt Shaft when it was unwatered two years ago, and it is the plan to crosscut and drift on the veins under the shafts referred to above as follows: (Refer to map attached)

(A) Run inclined raise 100 feet on Brandt Vein
(B) Drift NE on Brandt Vein 50 feet
(C) Crosscut 120 feet to White Shaft (and perhaps also find "lost" ore shoot in World Shaft)
(D) Drift SW 50 feet on Brandt Vein
(E) Drift SW 100 feet on Ford Vein
(F) Crosscut 20 feet NW thru fault zone
(G) Drift on Pump Vein SW 100 feet

Supplemental Sheet #2 DMEA Application
P. H. Bennett, 1025 Marine St., Boulder, Colo.

4. (d) The World Mine is 2 miles East of Nederland and 16 miles West of Boulder, in Boulder County, Colorado. Nearest marketing place is the Wolf Tongue Mill, operated by Metzer Mines, Inc., at Nederland 2 miles away. Good roads lead right to the property, and all necessary supplies are obtainable in Boulder.

4. (e) There is ample manpower available locally. Timber is plentiful; equipment needed is already installed on site; and electric power from Public Service Co. of Colorado is connected.

5. (b) This project is located in the heart of one of the best producing areas of Boulder County, and is surrounded with mines of past high production. Several of these are producing at the present time. The immediate vicinity of the World Shaft is cut by several important veins, and I want to drift and explore these veins at the depth indicated (80 to 125 feet). The ore shoot in the World Shaft was lost, apparently by a fault. Examination of this fault indicates that crosscut marked (C) on map may recover this ore, and also that reported to be in the bottom of the White Shaft. The incline marked (A) will open the ore seen by the applicant in the Brandt Shaft, and also provide better ventilation for the entire project. The drift SW on the Pump Vein marked (G) will open this vein in it's westward extension. The Eastern part of the Pump Vein was a big producer in the Cross No. 1 mine, and they had stoped within 50 feet of where we plan to start drifting. The drifts SW marked (D) and (E) seem justified by the fact that these veins show considerable mineralization on surface, and apex where a lot of high grade "float" has been found. An aplite dike marks the Western extension of this projected work.

5. (d) Work would be under the supervision of the applicant, P. H. Bennett. He has twenty years experience in mining and engineering work, and has been identified with tungsten mining for the past two years. Operated the Vasco No. 1 Mine profitably in 1952 (Tungsten) and is at present in charge of Vasco No. 7 Mine doing work under DMEA-2066 Contract No. Idm-E402. Should it be necessary to "split" supervision, the costs would be pro-rated accordingly. It might be noted in this connection that under the accompanying estimates the Supervisor will take the place of a regular man in operation.

Supplemental Sheet #3 DMEA Application
P. H. Dennett, 1825 Marine St., Boulder, Colo.

6. Detailed estimate of costs:

(a) Independent Contracts - None

(b) Labor 500 man days @ $ 13.20		$ 6600.00
Supervisor 6 months	500.00	3000.00
Consultants - None		
(c) Timber 4000 ft. @$ 100.00 del.		400.00
Explosives		1650.00
Pipe & fittings		225.00
Track & Accessories		260.00
Electric Power		570.00
Carbide, drill steel, bits, etc.,		650.00
(d) Use of 180 cfm electric air compressor, 15 HP 2 stage electric pump, 15 HP electric shaft hoist, drill, hose, shaft buckets, mine car and dolly, etc. (Value $3500.00) To be supplied by applicant.		350.00
(e) Rehabilitation & Repairs - None		
(f) New buildings, improvements, installations - None		
(g) Repairs (estimated)		200.00
Sampling and assays		50.00
Taxes (1½% FICA Tax)		144.00
Insurance (Workmen's Compensation)		384.00
Project Bookkeeping & Reports 6 months @ $ 50.00		300.00
(h) Contingencies (Approx. 5% project)		725.00
Total cost of project		$ 15,508.00

7. (b) Applicant will supply use of all machinery and equipment, and supply all pipe and track. Will also do all project bookkeeping. Balance of applicant's portion of cost will be supplied in cash as needed.

Mineral Resources Br... n

MF-193
(Rev. April 1952)

Date Rec'd
MAY 25 1953
BUREAU OF MINES
Denver, Colorado

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DIST. ENGR.	WMX
EXAM.	
DIST. ENGR.	
PERSONNEL	
FILES	3001

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

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

Not to be filled in by applicant

Docket No. DMEA-3001
Metal or Mineral
Date Received
Estimated Cost
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: Paul H. Bennett,
1825 Marine St.,
Boulder, Colo.

(*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

(See attached sheet)

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

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Lessee from Hetzer Mines, Inc., 250 Pearl St., Boulder, Colo.

(*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. One copy attached to each copy of application.

(*e*) If you own the land, describe any liens or encumbrances on it Do not own land

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. Does not consist of unpatented claims.

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. See attached sheets

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

(*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. Description and map attached

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

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

16—66551-1

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

(*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. Description and map attached

(*c*) The work will start within 10 days and be completed within 6 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. See attached sheets

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)? Yes

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

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

Explain in detail on acompanying paper. See attached sheets

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 April 15th, 1953

Paul H. Bennett

Paul H. Bennett

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

L E A S E

THIS INDENTURE, Made and entered into this 17th day of January, 1953, between Hetzer Mines, Inc., a corporation, hereinafter called the Lessor, and P. H. Bennett, Hereinafter called the lessee,

WIRNESSETH: That the Lessor, in consideration of the covenants and agreements of the Lessee hereinafter expressed to be kept and performed by the Lessee, and upon and subject to the conditions hereinafter provided, has leased and demised, and by these presents does lease and demise unto the Lessee, the following described property situate in Boulder County, State of Colorado, to-wit:

> Beginning at the Southwest corner of the Northwest quarter of the Northwest quarter of Section Eight, Township One South, Range 72 West of the 6th P.M., running thence East along the South line of said Northwest quarter of the Northwest quarter a distance of 600 feet to the true point of beginning, running thence East along the South line of the North half of the Northwest quarter of said Section Eight a distance of 1500 feet, thence North 600 feet, thence West 1500 feet to a point 600 feet due North of the true point of beginning, thence South to the true point of beginning; and also, the following described equipment, to-wit:
>
> 1 - 15 H.P. Electric Hoist complete with motor, controller, grids, approximately 200 feet 3/4" cable with safety chain.
> 1 - Dump sheet
> 2 - Buckets (small)
> 50' 8# (Yd) track
> 100' 2" pipe
> 1 - 2' x 4' Water pressure tank
> 1 - R-91 Stoper 6-D 7/8" Hex
> 1 - 3" Double screw column complete

TO HAVE AND TO HOLD The said demised premises, only however to the extent necessary for the purpose of mining the same for tungsten ore and for no other purpose, for a term of ten (10) years from the date hereof.

IN CONSIDERATION OF this lease, the Lessee covenants and agrees as follows, to-wit:

1. To work the said premises in thorough mine-fashion to the end of the safe development and preservation of the same as a workable mine, at all times extracting as much ore therefrom as is possible consistent with safe and prudent mining.

2. To work the demised premises continuously from the date of this lease, performing at least forty shifts of work therein underground during each calendar month during the time this lease shall remain in force and effect; any excess labor performed during any calendar month shall not apply on the work required hereunder in any preceeding or following calendar month. The word "shift" is taken and accepted to mean the labor of one man for one day of at least 8 hours.

3. To make all shafts and inclines eight (8) feet long by four (4) feet wide in the clear, with bucket ways three and one-half ($3\frac{1}{2}$) by four (4) feet in the clear, and all drifts seven (7) feet high by four (4) feet wide in the clear, provided that existing shafts, drifts, and inclines shall, unless otherwise directed by the Lessor, be continued with their present dimensions. The Lessor reserves the right to change the dimensions of any workings as and whenever in the judgment of the Mining Superintendent of the Lessor the same may be necessary or expedient.

4. To do no underhand stoping, whether for the purpose of taking out ore or for any other purpose whatsoever.

5. To neither mine, extract nor remove the ground to a point nearer than four (4) feet to each side of any working shaft, and always to leave at least four (4) feet of ground, in its original condition, to support each such shaft. To leave more than four (4) feet of ground to support each such shaft if the Mining Superintendent of the Lessor shall so direct and to crib or rip-rap any shaft at the Lessee's expense, if the said Mining Superintendent shall so request the Lessee.

6. To allow the officers, agents and representatives of the Lessor at all times to enter upon and into the said premises and all parts thereof for the purpose of inspection and sampling, and to make any surveys that they may desire, and to render them all the assistance in the power of the Lessee in so doing.

7. To keep and maintain the drifts, shafts, tunnels and other workings in the said premises thoroughly drained and clear of loose rock and rubbish, and in a safe and secure condition, except as prevented by extraordinary mining casualty, and to maintain at all times and leave the floors of all drifts and workings in good, even and unobstructed condition; to stow no waste underground except with the consent in writing of and under the direction of the Mining Superintendent of the Lessor.

8. To keep posted in conspicuous places on the surface of the said premises all notices which may be furnished by the Lessor for posting thereon.

9. The Lessee agrees and promises that before commencing operations on said premises he will take out Workmen's Compensation Insurance to protect the Lessor and to protect the Lessee and his employees from any injuries, and that as a condition of this lease the Lessee will keep said Workmen's Compensation Insurance in force during the entire term of this lease.

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IN WITNESS WHEREOF, This lease has been executed this 17th day of January, 1953.

HETZER MINES, INC.

By (Signed) Elmer Hetzer - President

SEAL OF
HETZER MINES INC.

(Signed) P. H. Bennett

Certified a true copy P. H. Bennett
P. H. Bennett

Supplemental Sheet #1 DMEA Application
P. H. Bennett, 1825 Marine St., Boulder, Colo.

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Supplemental Sheet #2 DMEA Application
P. H. Bennett, 1825 Marine St., Boulder, Colo.

4. (d) The World Mine is 2 miles East of Nederland and 16 miles West of Boulder, in Boulder County, Colorado. Nearest marketing place is the Wolf Tongue Mill, operated by Hetzer Mines, Inc., at Nederland 2 miles away. Good roads lead right to the property, and all necessary supplies are obtainable in Boulder.

4. (e) There is ample manpower available locally. Timber is plentiful; equipment needed is already installed on site; and electric power from Public Service Co. of Colorado is connected.

5. (b) This project is located in the heart of one of the best producing areas of Boulder County, and is surrounded with mines of past high production. Several of these are producing at the present time. The immediate vicinity of the World Shaft is cut by several important veins, and I want to drift and explore these veins at the depth indicated (80 to 125 feet). The ore shoot in the World Shaft was lost, apparently by a fault. Examination of this fault indicates that crosscut marked (C) on map may recover this ore, and also that reported to be in the bottom of the White Shaft. The incline marked (A) will open the ore seen by the applicant in the Brandt Shaft, and also provide better ventilation for the entire project. The drift SW on the Pump Vein marked (G) will open this vein in it's westward extension. The Eastern part of the Pump Vein was a big producer in the Cross No. 1 mine, and they had stoped within 50 feet of where we plan to start drifting. The drifts SW marked (D) and (E) seem justified by the fact that these veins show considerable mineralization on surface, and apex where a lot of high grade "float" has been found. An aplite dike marks the Western extension of this projected work.

5. (d) Work would be under the supervision of the applicant, P. H. Bennett. He has twenty years experience in mining and engineering work, and has been identified with tungsten mining for the past two years. Operated the Vasco No. 1 Mine profitably in 1952 (Tungsten) and is at present in charge of Vasco No. 7 Mine doing work under DMEA-2086 Contract No. Idm-E402. Should it be necessary to "split" supervision, the costs would be pro-rated accordingly. It might be noted in this connection that under the accompanying estimates the Supervisor will take the place of a regular man in operation.

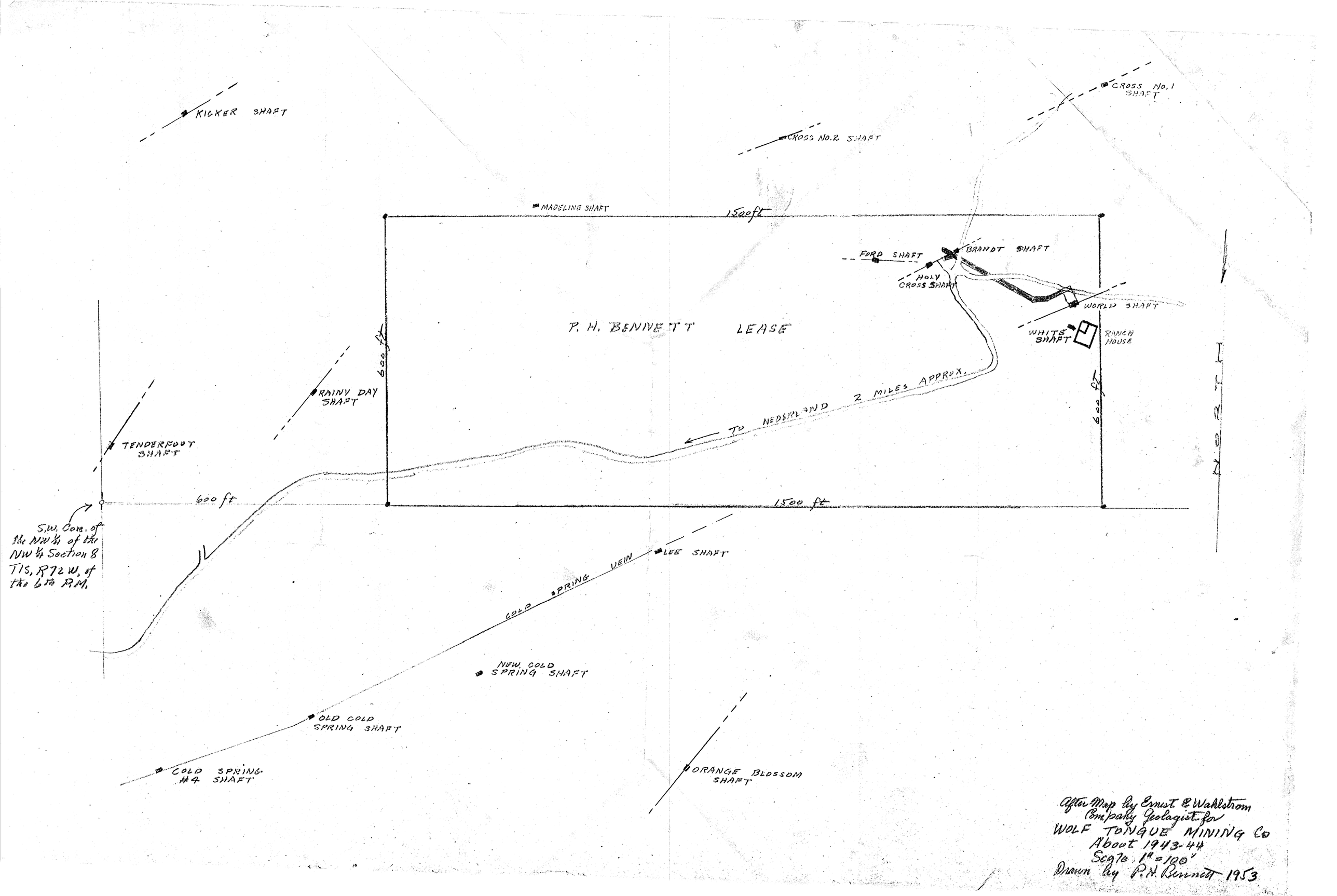
Supplemental Sheet #3 DMEA Application
P. H. Bennett, 1825 Marine St., Boulder, Colo.

6. Detailed estimate of costs:

(a) Independent Contracts - None

(b) Labor 500 man days @ $ 13.20		$ 6600.00
Supervisor 6 months	500.00	3000.00
Consultants - None		
(c) Timber 4000 ft. @$ 100.00 del.		400.00
Explosives		1650.00
Pipe & fittings		225.00
Track & Accessories		260.00
Electric Power		570.00
Carbide, drill steel, bits, etc.,		650.00
(d) Use of 180 cfm electric air compressor, 15 HP 2 stage electric pump, 15 HP electric shaft hoist, drill, hose, shaft buckets, mine car and dolly, etc. (Value $3500.00) To be supplied by applicant.		350.00
(e) Rehabilitation & Repairs - None		
(f) New buildings, improvements, installations - None		
(g) Repairs (estimated)		200.00
Sampling and assays		50.00
Taxes (1½% FICA Tax)		144.00
Insurance (Workmen's Compensation)		384.00
Project Bookkeeping & Reports 6 months @ $ 50.00		300.00
(h) Contingencies (Approx. 5% project)		725.00
Total cost of project		$ 15,508.00

7. (b) Applicant will supply use of all machinery and equipment, and supply all pipe and track. Will also do all project bookkeeping. Balance of applicant's portion of cost will be supplied in cash as needed.

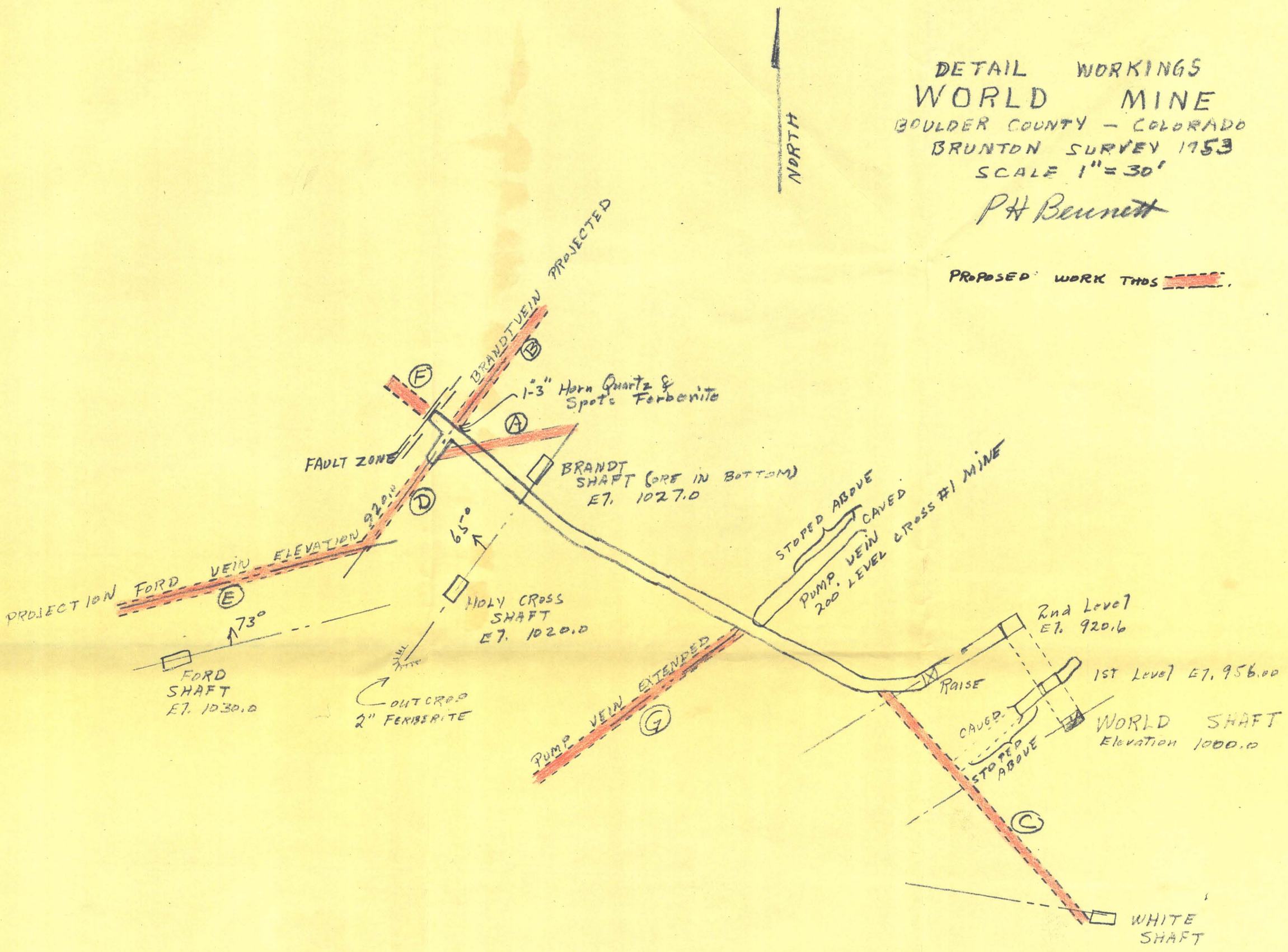


After Map by Ernest E Wahlstrom
Company Geologist for
WOLF TONGUE MINING Co
About 1943-44
Scale 1" = 100'
Drawn by P.H. Bennett 1953

DETAIL WORKINGS
WORLD MINE
BOULDER COUNTY — COLORADO
BRUNTON SURVEY 1953
SCALE 1" = 30'

P H Bennett

PROPOSED WORK THUS ------.



DETAIL WORKINGS
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BOULDER COUNTY — COLORADO
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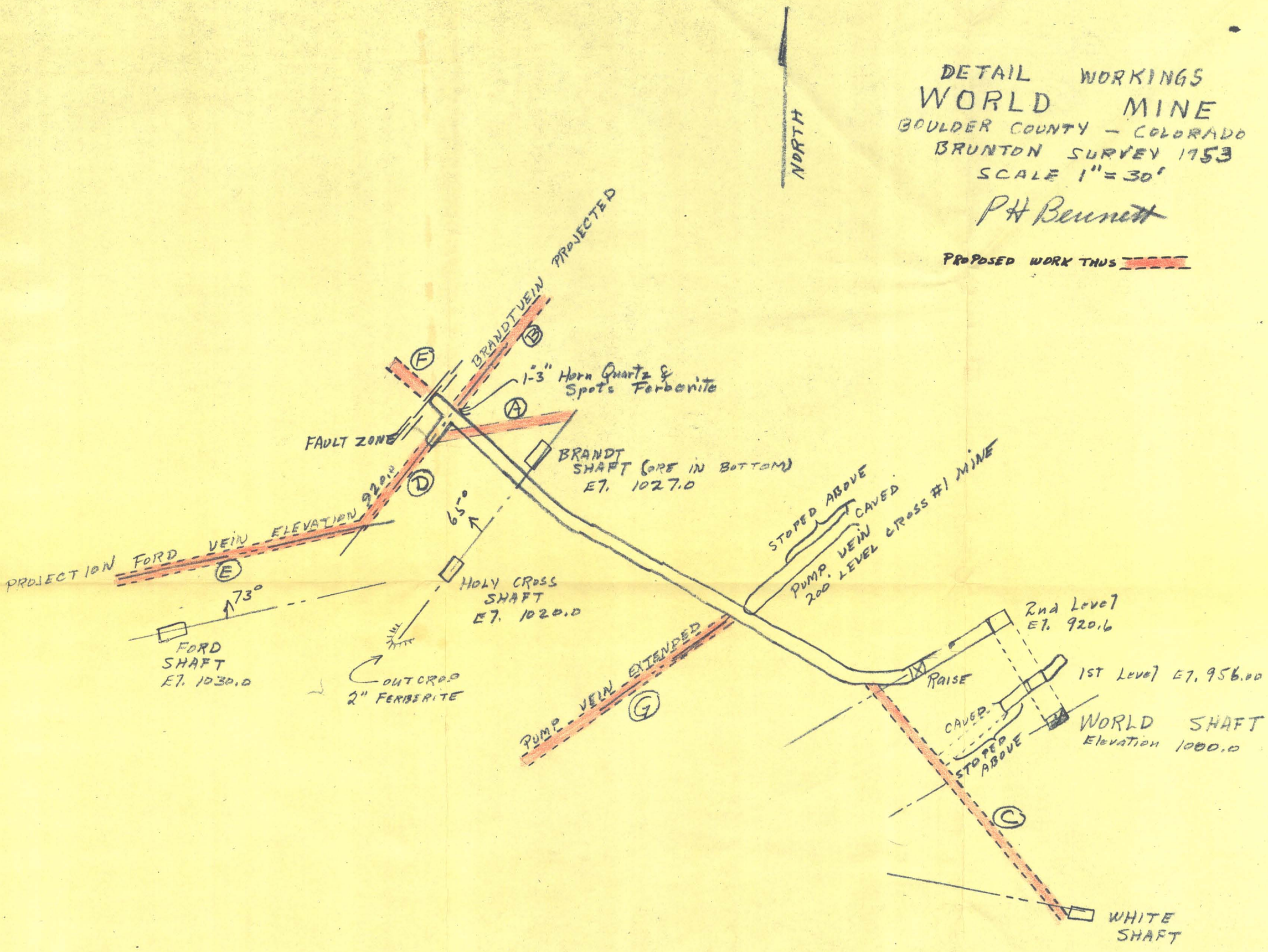
PROPOSED WORK THUS