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

224 New Customhouse
Denver 2, Colorado

June 2, 1952

Memorandum

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

From: Field Team, Region IV

Subject: Final Report, DMEA Docket 2312, (Tungsten) Hurvie B. Duval, Pineshade Mine, Boulder County, Colorado

Enclosed are four copies of the final report on the Pineshade Mine, a copy of the letter of denial to the applicant and two copies of Form 3b.

Removed in R. + R.

W. H. King
W. H. King

A. H. Koschmann
A. H. Koschmann

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 6 1952

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

224 New Customhouse
Denver 2, Colorado

June 2, 1952

Mr. Hurvie B. Duval
2316 Florence St.
Aurora, Colorado

Dear Mr. Duval:

Reference is made to your application for Government aid in exploration work on the Pineshade Mine.

Projects approved by the Defense Minerals Exploration Administration must, in its judgement, show definite promise of yielding material of acceptable grade, and in quantities that will significantly improve the mineral supply position for the National Defense Program.

A careful study of your property and data available to this agency, reveals that the probability of disclosing mineable reserves by your proposed exploration program is not considered sufficiently promising to justify Government participation. Under these circumstances, we regret to advise that your application for Government aid is denied.

Very truly yours,

W. H. King

W. H. King
Field Team, Region IV

A. H. Koschmann

A. H. Koschmann
Field Team, Region IV

cc: Actg. Administrator

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 6 1952

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

200 New Customhouse
Denver 2, Colorado

May 27, 1952

Memorandum

To: DMEA Field Team, Region IV

From: A. H. Koschmann

Subject: DMEA Docket 2312, Pineshade Mine (Tungsten), Boulder County, Colorado, Hurvie B. Duval, Applicant

Attached are 8 copies of the geologic report by Ogden Tweto covering DMEA Docket 2312 - Pineshade Mine (Tungsten), Boulder County, Colorado.

The applicant has requested an exploration loan of $8000 to extend a tunnel driven on the Pineshade vein, to put in a raise to connect with a shallow shaft on the vein, to construct ore bins and two buildings, and to purchase a compressor.

The Pineshade vein has already been explored by the tunnel plus several pits and trenches for about 500 feet. The applicant states that some tungsten ore was produced, but Tweto reports that this was probably small in amount and of low grade. As very little tungsten ore has been found along about 500 feet of the vein, which consists chiefly of veinlets and small pods of early quartz and sulfides of the type characteristic of the gold-silver veins, and as this property is nearly two miles west of the productive part of the tungsten district, and as Tweto found no grounds to assume that a better showing would be found at greater depth, he recommends that the loan be denied.

I concur with his recommendation.

The brochure is enclosed.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 6 1952

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

Reviewed by
DMEA OPERATING COMMITTEE
6-11-52
(date)

Enclosures (8)

PINESHADE MINE (TUNGSTEN)

BOULDER COUNTY, COLORADO

HURVIE B. DUVAL, APPLICANT

DMEA DOCKET 2312

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

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

PINESHADE MINE (TUNGSTEN)
BOULDER COUNTY, COLORADO

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

Hurvie B. Duvall has applied for a DMEA loan for an $8000 project to extend a tunnel and raise to the bottom of a shaft on the Pineshade vein. Workings on the vein are beside the Cardinal or Caribou road two miles west of Nederland, and a like distance west of the productive part of the Boulder tungsten district, Colorado. The vein has been explored by a short tunnel and shallow surface workings for a continuous length of about 500 feet. Only traces of ferberite have been found in this distance, and there is no geologic reason to assume that tungsten would be more abundant on the unexplored parts of the vein.

It is recommended that the application be denied.

PINESHADE MINE (TUNGSTEN)

BOULDER COUNTY, COLORADO

HURVIE B. DUVAL, APPLICANT

DMEA DOCKET 2312

Geologic Report

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

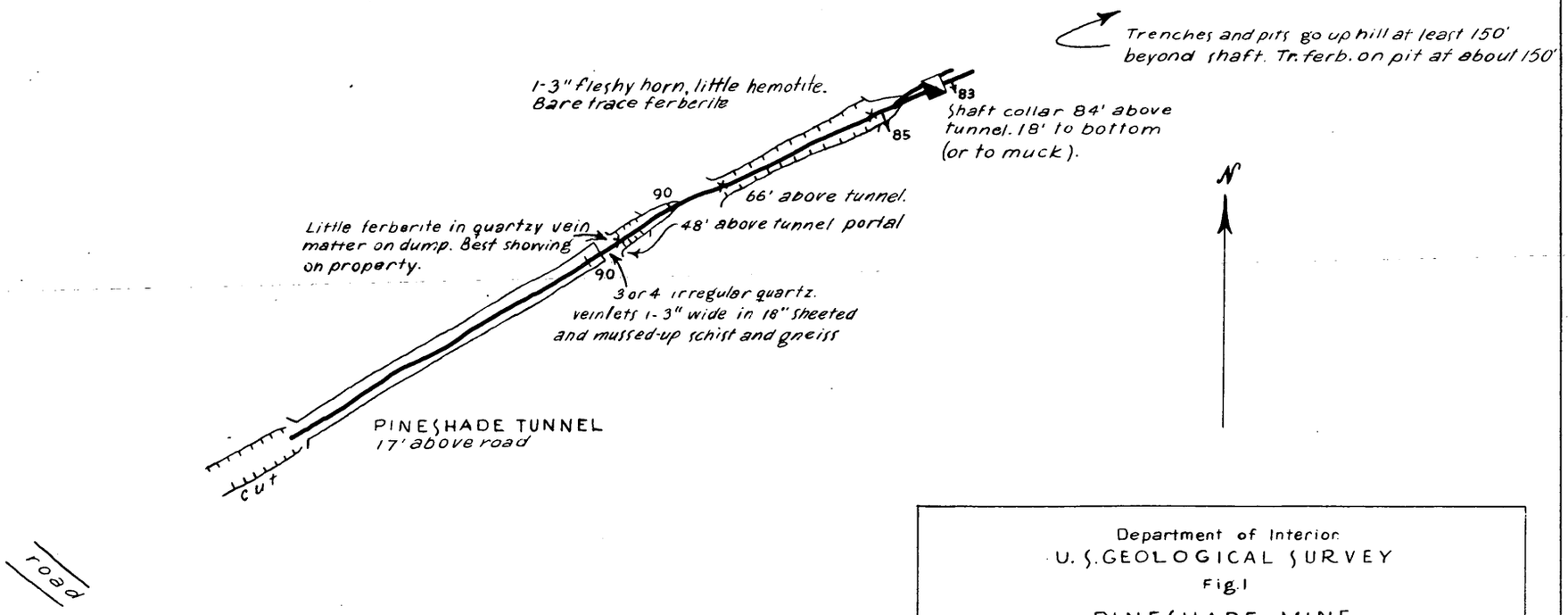
PINESHADE MINE (TUNGSTEN)
BOULDER COUNTY, COLORADO

INTRODUCTION

The Pineshade mine is beside the Cardinal or Caribou road about two miles west of Nederland and a similar distance west of the main tungsten district of Boulder County, Colorado. The mine consists of a short tunnel plus several pits, trenches, and shallow shafts strung out for about 500 feet along the vein. Hurvie B. Duvall, applicant, who holds the claim under bond and lease, has requested a DMEA loan for a project to cost $8000, to extend the tunnel 40 feet and raise an unspecified distance to connect with a shaft at the surface, as well as to construct ore bins and two buildings, and, among other things, purchase a compressor for $2800.00.

Survey of the workings shows that the tunnel would have to be extended 110 feet, rather than 40 feet, to reach a point beneath the shaft (fig. 1), and that a raise to connect with the shaft might be 66 feet high. The shaft is open only to 18 feet; this may or may not be the bottom. The applicant states that some tungsten was produced from the shaft, but judging by the size and content of the dump, not more than a few sacks of low-grade ore could have been produced.

As very little tungsten has been exposed by digging for nearly 500 feet along the vein, and as this property is nearly two miles west of the productive part of the tungsten district, it is recommended that the application be denied.



Department of Interior
U. S. GEOLOGICAL SURVEY
Fig. 1

PINESHADE MINE
Boulder County, Colo.
DMEA Docket 2312

SCALE
50 0 50 100 FT.

Ogden Tweto

May 1952

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

224 New Customhouse
Denver 2, Colorado

June 2, 1952

Memorandum

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

From: Field Team, Region IV

Subject: Final Report, DMEA Docket 2312, (Tungsten) Hurvie B. Duval, Pineshade Mine, Boulder County, Colorado

Enclosed are four copies of the final report on the Pineshade Mine, a copy of the letter of denial to the applicant and two copies of Form 3b.

W. H. King
W. H. King

A. H. Koschmann
A. H. Koschmann

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
JUN 6 1952

COPY

224 New Customhouse
Denver 2, Colorado

Mr. Hurvis B. Duval
2316 Florence St.
Aurora, Colorado

Dear Mr. Duval:

Reference is made to your application for Government aid in exploration work on the Pineshade Mine.

Projects approved by the Defense Minerals Exploration Administration must, in its judgement, show definite promise of yielding material of acceptable grade, and in quantities that will significantly improve the mineral supply position for the National Defense Program.

A careful study of your property and data available to this agency, reveals that the probability of disclosing mineable reserves by your proposed exploration program is not considered sufficiently promising to justify Government participation. Under these circumstances, we regret to advise that your application for Government aid is denied.

Very truly yours,

/s/ W. H. King
Field Team, Region IV

/s/ A. H. Koschmann
Field Team, Region IV

cc: Actg. Administrator

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

200 New Customhouse
Denver 2, Colorado

May 27, 1952

Memorandum

To: DMEA Field Team, Region IV

From: A. H. Koschmann

Subject: DMEA Docket 2312, Pineshade Mine (Tungsten), Boulder County, Colorado, Murvie Z. Duval, Applicant

Attached are 8 copies of the geologic report by Ogden Tweto covering DMEA Docket 2312 - Pineshade Mine (Tungsten), Boulder County, Colorado.

The applicant has requested an exploration loan of $8000 to extend a tunnel driven on the Pineshade vein, to put in a raise to connect with a shallow shaft on the vein, to construct ore bins and two buildings, and to purchase a compressor.

The Pineshade vein has already been explored by the tunnel plus several pits and trenches for about 500 feet. The applicant states that some tungsten ore was produced, but Tweto reports that this was probably small in amount and of low grade. As very little tungsten ore has been found along about 500 feet of the vein, which consists chiefly of veinlets and small pods of early quartz and sulfides of the type characteristic of the gold-silver veins, and as this property is nearly two miles west of the productive part of the tungsten district, and as Tweto found no grounds to assume that a better showing would be found at greater depth, he recommends that the loan be denied.

I concur with his recommendation.

The brochure is enclosed.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 6 1952

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

Enclosures (8)

Reviewed by
DMEA OPERATING COMMITTEE
6-11-52
(date)

PINESHADE MINE (TUNGSTEN)

BOULDER COUNTY, COLORADO

HURVIE B. DUVAL, APPLICANT

DMEA DOCKET 2512

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

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

PINESHADE MINE (TUNGSTEN)
BOULDER COUNTY, COLORADO

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

Hurvie B. Duvall has applied for a DMEA loan for an $8000 project to extend a tunnel and raise to the bottom of a shaft on the Pineshade vein. Workings on the vein are beside the Cardinal or Caribou road two miles west of Nederland, and a like distance west of the productive part of the Boulder tungsten district, Colorado. The vein has been explored by a short tunnel and shallow surface workings for a continuous length of about 500 feet. Only traces of ferberite have been found in this distance, and there is no geologic reason to assume that tungsten would be more abundant on the unexplored parts of the vein.

It is recommended that the application be denied.

PINESHADE MINE (TUNGSTEN)

BOULDER COUNTY, COLORADO

HURVIN B. DUVAL, APPLICANT

DMEA DOCKET 2312

Geologic Report

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

PINESHADE MINE (TUNGSTEN)
BOULDER COUNTY, COLORADO

INTRODUCTION

The Pineshade mine is beside the Cardinal or Caribou road about two miles west of Nederland and a similar distance west of the main tungsten district of Boulder County, Colorado. The mine consists of a short tunnel plus several pits, trenches, and shallow shafts strung out for about 500 feet along the vein. Hurvie B. Duvall, applicant, who holds the claim under bond and lease, has requested a DMEA loan for a project to cost $8000, to extend the tunnel 40 feet and raise an unspecified distance to connect with a shaft at the surface, as well as to construct ore bins and two buildings, and, among other things, purchase a compressor for $2800.00.

Survey of the workings shows that the tunnel would have to be extended 110 feet, rather than 40 feet, to reach a point beneath the shaft (fig. 1), and that a raise to connect with the shaft might be 66 feet high. The shaft is open only to 18 feet; this may or may not be the bottom. The applicant states that some tungsten was produced from the shaft, but judging by the size and content of the dump, not more than a few sacks of low-grade ore could have been produced.

As very little tungsten has been exposed by digging for nearly 500 feet along the vein, and as this property is nearly two miles west of the productive part of the tungsten district, it is recommended that the application be denied.

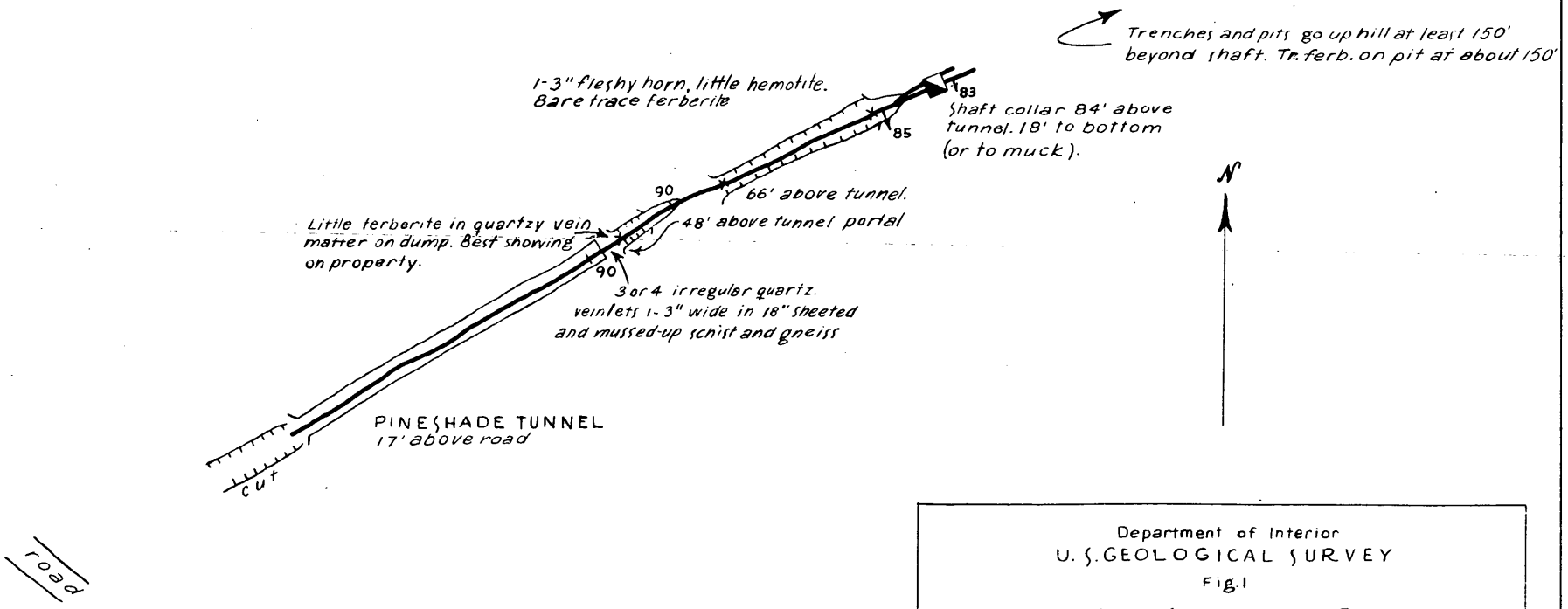
In addition to the Pineshade, the applicant also listed the Mammoth No. 4, Mammoth No. 11, Silver Queen, and Virginia claims in his application, but all the proposed work was to have been on the Pineshade. Examination of this property was deferred from January, when the brochure was received, to May 13, 1952, because of snow.

GEOLOGY

The Pineshade vein is an essentially vertical fracture zone 6 to 18 inches wide that trends about N. 60° E. in schist and gneiss. It is a weakly mineralized composite vein that contains veinlets and small pods of early quartz and sulfides of the type characteristic of the gold-silver veins of the Cardinal area, and younger horn quartz and ferberite of the tungsten stage of mineralization. Tungsten is rare. No more than a trace was found in place, and only a few pieces of low grade ore were found on the dumps.

CONCLUSIONS AND RECOMMENDATIONS

The Pineshade mine is two miles outside the tungsten district, and thus the chance for commercial tungsten production is slight. It contains a trace of tungsten, but not as much as many veins that are regarded as poor prospects in the main tungsten district. No commercial showing of tungsten has been found in the 500 feet the vein has been excavated at or near the surface. There are no grounds, other than wild hope, to assume that a better showing would be found at greater depth. It is recommended that the application be denied.



Department of Interior
U. S. GEOLOGICAL SURVEY
Fig. 1

PINESHADE MINE
Boulder County, Colo.
DMEA Docket 2312

SCALE
50 0 50 100 FT.

Ogden Tweto

May 1952

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

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

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

Not To Be Filled in by Applicant

Docket No. DMEA-2312
Metal or Mineral
Date Received 1-3-52
Amount $
Participation (Government %)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 3 1952

Name and address of applicant

Hurvie B. Duval
2316 Florence Street
Aurora, Colorado

Date November 27, 1951

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

DMA Docket Number (if available) _____

INSTRUCTIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

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

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

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

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

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

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

CERTIFICATION

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

Sunnyside Mining Company
(Name of company)

By Henry B. Duval
(Signature of authorized official)

November 27, 1951
(Date)

Owners and Lessees
(Title)

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

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

H. [illegible] Duval
2316 Florence St.
Aurora, Colorado

1.

A. Three patented claims including one tunnel driven in 120 Ft. 200 ft. of open cuts, and shafts that are partially caved in.
B. Lessee and Owner
C. Patented Claims: Pineshade, Mammoth #4 and Mammoth #11
Unpatented claims: Silver Queen and Virginia

2.

A. Tungsten
B. In tungsten belt, assay show commercial ore bodies.

3.

A. There is now a tunnel in 120 feet in solid rock in good condition. We have driven it the last few feet and expect to catch the ore shoot in the next few feet. We wish to run this tunnel to the shaft a further distance of 40 ft., and upraise to the shaft which will open up a large amount of new ore. Then we can stope both ways. There is now on the dump a few hundred tons of mostly fine dirt left from the sorting, that our samples indicate will run from .60 to 1 per cent. This will be available when we reach the shaft.

We will use the money to put in an ore bin at mouth of tunnel. This ore bin will allow trucks to load from main road and they have given us a price of $.60 per ton to the Wolftong Mill at Nederland (2-1/2 miles).

We also wish to put in tank compressor machine drills and run the drift 40 ft. to the shaft, than with shoots in shaft and ore bins the ore handling will be mostly automatic and we can soon open up new stoping ground.

Total cost of project approximately $8,000.00.
B. Thirty days

4. See Map

5. Housing quarters

6.

Timber and Tool House	$500.00
Shaft House	200.00
Two ore bins and shutes	400.00
Timbering Portal	50.00
Build Road	100.00

7.

B. Purchased

Compressor	2800.00
CP-59 fitted in Hex Air Hammer	365.00
50' 3/4" Hose	23.50
150' 1-1/2" Pipe	65.00
2 - 2ft. 1" Hex Timken Rod	9.10
2 - 4 ft. 1" Hex Timken Rod	12.20
50 - 2" Side Hole Bits, timken.	28.35
50 - 1-7/8" Side Hole Bits, timken	28.00
1 12 Cu. Ft. Ore Car	75.00
300 ft. 12# Rail	65.00
1 Hoist 12 h.p. Hus ki	710.00
200' 1/2" Rope	30.00

8.	1 Ore Sorter and Superviser	$ 16.00 day
	2 Miners	12.00 day
9.	Timber	50.00
	10 Boxes Powder,	116.50
	8 rolls fuses	10.80
	300 caps	12.90
	Assaying, etc.	100.00
	Accounting	50.00
	Gasoline Boil	15.00 PER DAY

10.

A. $2,000.00

B. Yes

H. B. D[illegible]l 2316 Florence St, Auror[illegible] Colorado
No. 25-A. BOND AND LEASE—MINING PROPERTY.—The Bradford-Robinson Ptg. Co., Mfrs. Robinson's Legal Blanks, Denver.

KNOW ALL MEN BY THESE PRESENTS, That, Minnie L. Sisson Duval
California
of the County of Los Angeles and State of ~~Colorado~~, hereinafter called the party of the first part is held and firmly bound unto Hurvie B. Duval

of the city and County of Denver, and State of Colorado, hereinafter called the party of the second part, in the penal sum of Ten Thousand ($10,000) Dollars, lawful money of the United States, for the payment of which sum well and truly to be made by the party of the first part to the party of the second part, his heirs, executors, administrators or assigns, the party of the first part hereby binds herself, her heirs, executors and administrators, firmly by these presents. Witness the hand and seal of the party of the first part, this day of , A. D. 19 .

WHEREAS, the above bounden party of the first part, on the day of the date hereof, has agreed to sell to the said party of the second part the following described property, situated, lying and being in Grand Island Mining District, in the County of Boulder, and State of Colorado, to-wit: Pine Shade Mining Claim Patent Number 18625 except parts here to fore sold.

for the sum of Five Thousand ($5,000) Dollars, which said sum is to be paid to the party of the first part, or deposited to her credit in the Colorado National Bank in the manner following, to-wit: On or before the 1st day of November, A. D. 19 4, the sum of Five Thousand ($5,000)

Now if the said party of the second part shall well and truly make the aforesaid payment within the time above limited, the said party of the first part will forthwith convey said property to the said party of the second part by a good and sufficient mining deed, ~~and will also furnish an abstract of title to said premises, certified by a competent abstractor,~~ showing a good and valid title to said premises in said party of the first part, free and clear of all liens and encumbrances at the time of said conveyance.

WHEREAS, the said party of the first part has further agreed to place the said party of the second part, or his assigns, in full and peaceable possession of said property, to mine, remove and sell ore therefrom; the said party of the second part, or his assigns, to commence work on said premises before the 1st day of June, A. D. 19 52, and thereafter to work the same continuously in a thorough and workmanlike manner, employing at least Two (2) men underground, working at least Twenty (20) shifts to the man each calendar month, and to permit the party of the first part to have access to all parts of said property at all times and to allow no person not in privity with the parties hereto to take or hold possession of said property or any part thereof under any pretense whatever, and during the continuance of this Bond and Lease to deposit in Colorado National Bank to the credit of said party of the first part 10% of the net smelter or mill returns of all ore taken from said property as and when received, said sum so deposited to be a part payment of said purchase money.

NOW, THEREFORE, the condition of the above obligation is such that if the said party of the second part, or his assigns, shall fail to comply with the terms of the aforesaid agreement or any of them, time being of the essence hereof, and if the said party of the first part shall well and faithfully perform the same, then this obligation shall be null and void, otherwise remain in full force and effect, and in case of such failure all sums deposited as aforesaid shall be retained by the said party of the first part as liquidated damages and the party of the second part shall forthwith surrender possession of said premises.

Signed, sealed and delivered in the presence of: Nannie L. Sisson Duval [SEAL]

Mildred N. Marsh Hurvie B. Duval [SEAL]

[SEAL]

Copy

No.....

BOND AND LEASE

MINING PROPERTY

.....

.....

TO

.....

.....

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

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

.....
Recorder.

By.....
Deputy.

Fees, $.....

6-46 THE BRADFORD-ROBINSON PTG. CO., DENVER

STATE OF COLORADO,
County of } ss.

I,
in and for the said County, in the State aforesaid, do hereby certify that

personally known to me to be the person whose name subscribed to the foregoing Bond and Lease, appeared before me this day in person, and acknowledged that signed, sealed and delivered the said instrument of writing as free and voluntary act and deed, for the uses and purposes therein set forth.

Given under my hand and seal, this day of
A. D. 19 .
My commission expires , 19 .

.....

H. T. D[illegible]al 2316 Florence St. Auro[illegible] Colorado

No. 25-A. BOND AND LEASE—MINING PROPERTY.—The Bradford-Robinson Ptg. Co. Mfrs. Robinson's Legal Blanks, Denver.

KNOW ALL MEN BY THESE PRESENTS, That, J. S. Duval

of the County of Boulder and State of Colorado, hereinafter called the party of the first part is held and firmly bound unto Hurvie B. Duval

of the Denver County of Denver, and State of Colorado, hereinafter called the party of the second part, in the penal sum of Four Thousand ($4,000.00) Dollars, lawful money of the United States, for the payment of which sum well and truly to be made by the party of the first part to the party of the second part, his heirs, executors, administrators or assigns, the party of the first part hereby bind himself, his heirs, executors and administrators, firmly by these presents. Witness the hand and seal of the party of the first part, this day of , A. D. 19 .

WHEREAS, the above bounden party of the first part, on the day of the date hereof, has agreed to sell to the said party of the second part the following described property, situated, lying and being in Grand Island Mining District, in the County of Boulder, and State of Colorado, to-wit:

Mammoth No. 11 Mining Claim Patent No. 18625

for the sum of Two Thousand (2,000.00) Dollars, which said sum is to be paid to the party of the first part, or deposited to his credit in the Colorado National Bank in the manner following, to-wit: On or before the 1st day of October, A. D. 1954, the sum of Two Thousand Dollars ($2,000.00)

Now if the said party of the second part shall well and truly make the aforesaid payment within the time above limited, the said party of the first part will forthwith convey said property to the said party of the second part by a good and sufficient mining deed, ~~and will also furnish an abstract of title to said premises certified by a competent abstractor~~ showing a good and valid title to said premises in said party of the first part, free and clear of all liens and encumbrances at the time of said conveyance.

WHEREAS, the said party of the first part has further agreed to place the said party of the second part, or his assigns, in full and peaceable possession of said property, to mine, remove and sell ore therefrom; the said party of the second part, or his assigns, to commence work on said premises before the first day of June, A. D. 1953, and thereafter to work the same continuously in a thorough and workmanlike manner, employing at least two men underground, working at least 15 shifts to the man each calendar month, and to permit the party of the first part to have access to all parts of said property at all times and to allow no person not in privity with the parties hereto to take or hold possession of said property or any part thereof under any pretense whatever, and during the continuance of this Bond and Lease to deposit in Colorado National Bank to the credit of said party of the first part 10% of the net smelter or mill returns of all ore taken from said property as and when received, said sum so deposited to be a part payment of said purchase money.

Notice shall be placed showing mine is being worked under lease. No loose rock or old timbers shall be left in any shaft or drift.

NOW, THEREFORE, the condition of the above obligation is such that if the said party of the second part, or his assigns, shall fail to comply with the terms of the aforesaid agreement or any of them, time being of the essence hereof, and if the said party of the first part shall well and faithfully perform the same, then this obligation shall be null and void, otherwise remain in full force and effect, and in case of such failure all sums deposited as aforesaid shall be retained by the said party of the first part as liquidated damages and the party of the second part shall forthwith surrender possession of said premises.

Signed, sealed and delivered in the presence of:

J. S. Duval by Denver [SEAL]

T. M. Gallavan

Hurvie B. Duval [SEAL]

Sidney J. Gallavan [SEAL]

Copy

No.....

BOND AND LEASE

MINING PROPERTY

.....

.....

TO

.....

.....

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

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

.....
Recorder.

By.....
Deputy.

Fees, $.....

6-46 THE BRADFORD-ROBINSON PTG. CO., DENVER

STATE OF COLORADO, }
County of } ss.

I, ... County, in the State aforesaid, do hereby certify that in and for the said .....

personally known to me to be the person whose name subscribed to the foregoing Bond and Lease, appeared before me this day in person, and acknowledged that signed, sealed and delivered the said instrument of writing as free and voluntary act and deed, for the uses and purposes therein set forth.

Given under my hand and seal, this day of A. D. 19 , 19 .

My commission expires .....

2114 CURTIS STREET

TELEPHONE MAin 1852

CHEMISTS, ASSAYERS, ENGINEERS

DENVER 2, COLO.

Folio XXXX 5778

Date Oct. 9, 1951.

H. B. Duval.
2316 Florence St.
Aurora, Colorado

We hereby Certify, that the samples assayed for you gave the following results:

DESCRIPTION	GOLD OUNCES PER TON	SILVER OUNCES PER TON	COPPER PER CENT (WET)	LEAD PER CENT (WET)	ZINC PER CENT	IRON PER CENT	INSOLUBLE PER CENT	VALUE PER TON
Sample:			Tungstic acid (WO_3): 0.86%					

Gold at _____ per ounce Copper at _____ per unit

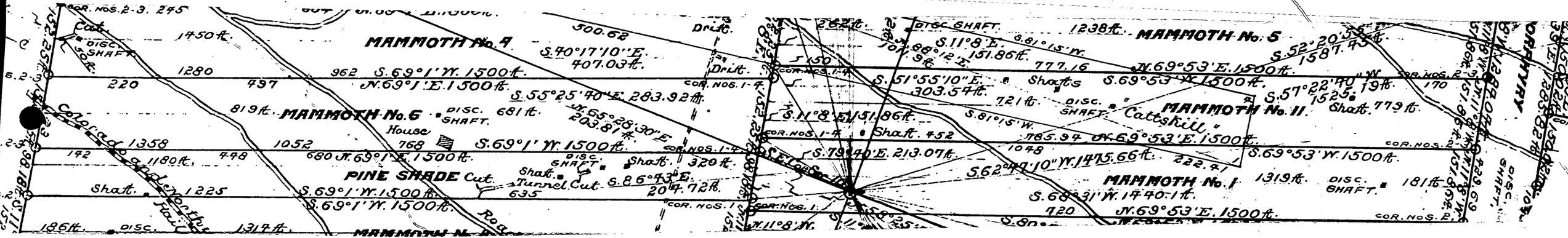
Silver at _____ per ounce Zinc at _____ per unit

Lead at _____ per unit _____

Charge $ 3.00 paid.

CHARLES O. PARKER & CO.
CHEMISTS, ASSAYERS and ENGINEERS

H. B. Duvall
2316 Florence St.
Aurora, Colo.



Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMEA-2312

Date received 1-2-52

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 3 1952

Hurvie B. Duval
2316 Florence Street
Aurora, Colorado

Name and address of applicant

Date 11-27-51

INSTRUCTIONS

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

GENERAL TECHNICAL DATA

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

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

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

   If not in production or operation, estimated date when production will begin within 30 days after equipment set up
6. Experience of operators:

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

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

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

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

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

*Indicate period covered.

10. Production:

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

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

12. Ore or Mineral Reserves:

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

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

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

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

TOTAL ORE OR MINERAL RESERVES

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

(*c*) If placer:

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

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

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

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

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

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

13. Access Roads:

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

14. Water Supply:

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

15. Power:

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

16. Labor:

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

17. Equipment and Facilities:

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

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

CERTIFICATION

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

Sunnyside Mining Company
(Name of company)

By Hurvie B. Duval
(Signature of authorized official)

November 17, 1951
(Date)

Owners and Lessees
(Title)

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

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

H. [illegible] Duval
23[illegible] Florence St.
Aurora, Colorado

1.

A. Tungsten
B. None

2. Sunnyside Mining Company. Tunnel and pit mining.
Old name Fineshade Claim.

A. Shafts caved in
B. None
C. 120 ft. Tunnel
D. 200 ft. of open pit

Mine is not flooded. Not in production.

3.
A. 2 miles west of Nederland, Colorado
B. Grand Island
C. Southeast 1/4 sec. 10, South 1/2 Sec. 11, Northeast 1/4 Sec. 15.
D. Boulder, Colo.

4.
A. Not in operation now, but have been working in tunnel.
B. Owner and lessee

5.
A. Unknown
B. Can begin operation within thirty days after equipment is set up.

6.
A. Twelve years of mining experience in Cripple Creek, Central City and Nederland in hard rock mining. Business experience of fifteen years in Denver.
B. J. C. Babb of 233 west 11th, Denver, Colorado has had eighteen years experience in coal and hard rock mining.

7. History

A. We have one patented claim of our own. Two unpatented claims and a lease on two patented claims. The tungsten was mined from a shaft and cuts during the first World war, but owing to death of owner was not mined during second World war. There is now a tunnel in 120' insolid rock in good condition.

B. We are in the same district as the Congor, McQuay and other large producing properties. The Congor has been one of the biggest producers of tungsten in the United States.
C. Do not have any engineers or other reports on property.

10. Not in production during these years.

11. Have not been in production therefore, cannot contemplate any change.

12.
A. There is an open cut of about 200 ft. that shows ore all along the cut. At one end of cut the vein is about 18 inches wide.
B.
1 & 2: Unknown at this time.

13. Two miles of good gravel road to Wolfetong mill in Nederland.

14. Creek running through property yearround.

15. Power not being used not but power line close to property.

16. Mine not in operation

17. Housing quarters

18. No.