DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 1329-X

DO NOT DETACH THIS SLIP

Action on this document is recorded and controlled in Reports and Records Branch. Any movement of this document between divisions or offices of DMA or movement outside DMA must be reported to the Reports and Records Branch. Actions taken that affect status of the case must also be reported.

This document has been recorded as

_____

Any action taken to change the type of request for assistance must be promptly reported to the Reports and Records Branch. Use DMA Form 2 for submitting these reports.

Routing Slip

To: ADM. MANAGEMENT DIVISION Date JUL. 17, 1951

To: _____ Date _____

To: _____ Date _____

To: _____ Date _____

To: _____ Date _____

To: _____ Date _____

To: _____ Date _____

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To: _____ Date _____

DO NOT DETACH

CONTROLLED DOCUMENT

6-742
(May 1944)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

No. _____ File _____

To _____

Date _____

Subject _____

_____

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No. _____ File _____

To _____

Date _____

Subject _____

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CHARGED OUT

16—43803-1 GPO

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Subject _____

Date _____

To _____

No. _____ File _____

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Subject _____

Date _____

To _____

No. _____ File _____

6-742
(May 1944)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

No. MF 100 File DMA 1329 X

To Mr. F. B. Speaker

Date 7-12-51

Subject PARAMOUNT MINING CO.

D. Schindler

No. File

To

Date

Subject

CHARGED OUT

16—43803-1 GPO

No. File

To

Date

Subject

No. File

To

Date

Subject

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

A, E C

July 12, 1951

Memorandum

To: Administrative Management Division

From: Tungsten Branch

In reply please refer to:
DMA-1329-X — Tungsten

Subject: Denial of exploration loan application of:
Paramount Mining Co.
~~Box 9~~
Ivanpah, California

This application is for an exploration loan of $40,000 (Government share $30,000). The request is denied because geological information indicates there is little likelihood of finding ore deposits of sufficient size to warrant the complex metallurgy necessary to separate the copper, zinc, tungsten and fluorine minerals. Also, no detailed plan of exploration is given in the application.

George B. Holderer
Chief, Tungsten Branch

Attachment

Approved:

Tom Lyon
Director, Supply Division

FILE COPY
SURNAME:

Holden
Selfridge

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

July 12, 1951

Memorandum

To: Administrative Management Division

In reply please refer to:
DMA-1327-X — Tungsten

From: Tungsten Branch

Subject: Denial of exploration loan application of:
Paramount Mining Co.
Box 9
Ivanpah, California

This application is for an exploration loan of $40,000 (Government share $20,000). The request is denied because geological information indicates there is little likelihood of finding ore deposits of sufficient size to warrant the complex metallurgy necessary to separate the copper, zinc, tungsten and fluorine minerals. Also, no detailed plan of exploration is given in the application.

George B. Holderer

jam

George B. Holderer
Chief, Tungsten Branch

GCSelfridge:awj

cc:File
Adm. Reading File
Reports & Records Unit
Field Team III
Mr. Holderer

DMA 1327

856

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

Jaber

G.E.C.

July 1[illegible], 1951

Paramount Mining Co.
Box [illegible]
Ivanpah, California

In reply please refer to:
DMA-1[illegible] — Tungsten

Gentlemen:

Your application for an exploration loan in the amount of $[illegible] has been examined and found to be unacceptable.

From information on hand, it is believed there is little probability of finding enough ore to warrant the further costly urgical treatment necessary to separate the tungsten, copper, zinc, and fluorine silicates.

No detailed plan of exploration is given in the application.

For reasons given your request is denied.

Very truly yours,

Tom Lyon

Tom Lyon
Director, Supply Division

GCSelfridge:awj

cc:File
~~Adm. Reading File~~
Reports & Records Unit
DMA Field Team III
Mr. Holderer

RECEIVED
JUL 18 1951
DEFENSE MINERALS ADMINISTRATION
OFFICE OF ADMINISTRATOR

FILE COPY
SURNAME:

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

G. E. C. / Holderer / Selfridge

July 12, 1951

Paramount Mining Co.
Box 9
Ivanpah, California

In reply please refer to:
DMA-1[illegible]-I — Tungsten

Gentlemen:

Your application for an exploration loan in the amount of $[illegible] has been examined and found to be unacceptable.

From information on hand, it is believed there is little probability of finding enough ore to warrant the complex metallurgical treatment necessary to separate the tungsten, copper, zinc, and fluorine minerals.

No detailed plan of exploration is given in the application.

For reasons given your request is denied.

Very truly yours,

Tom Lyon

Tom Lyon
Director, Supply Division

GCSelfridge:awj

cc:File
Adm. Reading File
Reports & Records Unit
DMA Field Team III
Mr. Holderer

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

July 1[illegible], 1951

Paramount Mining Co.
[illegible]
[illegible], California

In reply please refer to:
[illegible] -- Tungsten

Gentlemen:

Your application for a [illegible] loan in the amount of $[illegible] has been received and found to be [illegible].

From information [illegible], it is believed there is little prospectivity of finding enough ore to [illegible] total urgent [illegible] necessary to remediate the tungsten, copper, zinc, and fluorine minerals.

No detailed plan of exploration is given in the application.

For reasons given your request is denied.

Very truly yours,

Tom Lyon

[illegible]
Director, [illegible] Division

GCSelfridge:awj

cc:File
Adm. Reading File
Reports & Records Unit
DMA Field Team III
Mr. Holderer

Index of File Contents
Sent to Administrative Management Division

DMA-1329-X — Tungsten
San Bernardino County, California
Paramount Mining Co.
Box 9
Ivanpah, California

3 copies application on Form MF-103 with three sheets of answers attached
3 copies Technical Data on Form MF-100 with three sheets of answers attached

July 12, 1951

Paramount Mining Co.
Box 7
Ivanpah, California

In reply please refer to:
DMA-1[illegible] — Tungsten

Gentlemen:

Your application for a exploration loan in the amount of $[illegible] has been examined and found to be unacceptable.

From information on hand, it is believed there is little probability of finding enough ore to warrant the complex metallurgical treatment necessary to separate the tungsten, copper, zinc, and fluorine minerals.

No detailed plan of exploration is given in the application.

For reasons given your request is denied.

Very truly yours,

[illegible]

Tom [illegible]
Director, Supply Division

GCSelfridge:awj

cc:File
Adm. Reading File
Reports & Records Unit
DMA Field Team III
Mr. Holderer

Copy

Denied

Index of File Contents
sent to Adm. Man. Div.

DMA-1329X Tungsten
San Bernardino, California
Paramount Mining Co.
Box 9
Svanpah Calif.

3 Copies Application on Form MF-103 with three sheets of answers attached
3 Copies Technical Data on Form MF-100 with three sheets of answers attached.

Note
Applicants requested return of Report by Harley A. Gill, Consulting Engineer.

July 17, 1951

Paramount Mining Co.
Box 9
Ivanpah, California

In reply please refer to:
DMA-1123-I — Tungsten

Gentlemen:

Your application for a exploration loan in the amount of [illegible] has been examined and found to be unacceptable.

From information on hand, it is believed there is little probability of finding enough ore to warrant the complex metallurgical treatment necessary to separate the tungsten, copper, zinc, and fluorine minerals.

No detailed plan of exploration is given in the application.

For reasons given your request is denied.

Very truly yours,

Tom Ford
Director, Loan Division

GCSelfridge:awj

cc:File
Adm. Reading File
Reports & Records Unit
DMA Field Team III
Mr. Holderer

DMA Form 2

DEFENSE MINERALS ADMINISTRATION
Status Change Notice

DMA Docket No. 1329X

To: Reports and Records Branch

From: Tungsten Branch - DMA

Date: July 16, 1951

The following action has been taken this date on the above Controlled Document.

Forwarded to Administrative Management Division

Type of request changed to:

Denied ☑ Withdrawn ☐

Approved in amount of $

Other action, specify:

Index of File Contents
Sent to Administrative Management Division

DMA-1329-X — Tungsten
San Bernardino County, California
Paramount Mining Co.
Box 9
Ivanpah, California

3 copies application on Form MF-103 with three sheets of answers attached
3 copies Technical Data on Form MF-100 with three sheets of answers attached

July 12, 1951

Memorandum

To: Administrative Management Division

In reply please refer to:
MMA-1727-7 — Tungsten

From: Tungsten Branch

Subject: Denial of exploration loan application of:
Paramount Mining Co.
Box 9
Irvington, California

This application is for an exploration loan of $40,000 (Government share $30,000). The request is denied because geologic information indicates there is little likelihood of finding ore deposits of sufficient size to warrant the complex metallurgy necessary to separate the copper, zinc, tungsten and fluorine minerals. Also, no detailed plan of exploration is given in the application.

George B. Holderer

George B. Holderer
Chief, Tungsten Branch

GCSelfridretawj

cc: File
Adm. Reading File
Reports & Records Unit
Field Team III
Mr. Holderer

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

July 12, 1951 a. E. C.

Memorandum

To: Administrative Management Division

In reply please refer to:
[illegible]A-1[illegible]-X — Tungsten

From: Tungsten Branch

Subject: Denial of exploration loan application of:
Paramount Mining Co.
Box [illegible]
Ivanpah, California

This application is for an exploration loan of $[illegible] (Government share $[illegible]). The request is denied because geological information indicates there is little likelihood of finding ore deposits of sufficient size to warrant the complex metallurgy necessary to recover the copper, zinc, tungsten and fluorine minerals. Also, no detailed plan of exploration is given in the application.

George B. Holderer
jam

George B. Holderer
Chief, Tungsten Branch

GCSelfridge:awj

cc:File
Adm. Reading File
Reports & Records Unit
Field Team III
Mr. Holderer

FILE COPY
SURNAME:

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

June 14, 1951

Mr. M. C. Williams
Manager
Paramount Mining Company
Box 9
Ivanpah, California

Subject: DMA-1329X
Re: Exploration Loan
Bronze No. 1 and No. 2,
Copper Queen

My dear Mr. Williams:

Receipt is acknowledged of your application and attachments of May 15, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-1329X and was referred to Mr. P. R. Bradley, Chief, Tungsten Branch on May 31, 1951.

In any future correspondence relating to your application, kindly refer to DMA-1329X.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

LFSTROBEL:js
cc: Strobel-2
>Files
Bradley
Lyon

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

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

DO NOT FILL IN THIS BLOCK

Docket No. dma 1329X

Date received 5-29-51

Participation

PARAMOUNT MINING CO.
BOX 9
IVANPAH, CALIFORNIA

Name and address of applicant

Date 15 May, 1951

FILL IN THIS BLOCK

Date of application 15 May, 1951

Estimated cost $40,000.00

Mineral or metal Tungsten

Percentage of Government participation 75%

Location of mine Near Ivanpah, California
San Bernardino, County

Date of filing MF-100 15 May, 1951

DMA Docket Number, if available None

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

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

NOTE.—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 (*b*) 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.

*11. State the present and former names of the property, if any.

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.

*13. State source and quantity of water available for operations and its sufficiency at all seasons. State amount of power to be used, rate per hour or other cost, and source.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.

15. State in detail how the ore could be shipped and how and where milled.

*16. History:

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

(*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.

*17. Production:

(*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.)

(*a*) Describe the ore or mineral deposits briefly.

(*b*) Submit available maps and assay data.

(*c*) Give estimated tonnage and grade of each class of ore reserves.

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

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:

(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.

(*b*) Supervisors, by numbers and positions, with salaries of each.

(*c*) Cost of necessary repairs to existing facilities, structures, and buildings.

(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.

(*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.

(*f*) Cost of rental for equipment which the operator proposes to rent.

(*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.

(*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.

(*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

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.

PARAMOUNT MINING CO.
(Name of company)

By M. C. Williams
(Signature of authorized official)

15 May, 1951
(Date)

Manager, Partner
(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.

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

FORM MF-103 APPLICATION

1. -- Answered on Form MF-100
2. -- " " " " "
3. -- " " " " "
4. -- " " " " "
5. -- " " " " "

6. -- No encumbrances.

7. Owner.

8. To date there is no statement. We have a partnership joined March 15, 1951, with capital of $25,000. To date we have spent $15,000 on equipment, supplies, labor, et cetera.

9. $10,000. Yes.

10. (A) 2 located mining claims - 600x1500, which is the property known as the Bronze No. 1 and No. 2, where we are operating at the present time.
The adjoining mine, consisting of 4 full claims, known as the Copper Queen Mine.
2 millsites, located 5 miles from above property, known as the Bronze Millsite, and the Copper Queen Millsite.

(B) Same.

11. MF-100
12. "
13. "
14. "

15. The ore will be trucked 5 miles down to present mill being erected by owners, concentrates trucked to Bishop, California.

16. MF-100
17. "
18. "
19. "

20. Tungsten (Sheelite)

The property is a granite limestone contact which has not been explored for tungsten, as former operations were for the copper or zinc. Sheelite was unknown by the former operators.

21. The proposed work will be in the form of raises along the contact to expose the ore, and drifts in the crosscut to determine the scope of the ore. Estimated time: 6 months.

22. Contact has not been explored for tungsten as stated above, and sheelite shows strongly all along same. Enclosed find report.

23 (A) Requirements and Cost:

6 miners @ $12.00 per day - 120 days	----------	$8640.00
4 muckers @ 11.00 " " - 120 days	----------	5280.00
2 mill men@ 15.00 " " - 120 days	----------	3600.00
1 truck driver @ 12.00 per day -- 120 days	-------	1440.00
Labor total.....		$18960.00

B) Supervisors:

1 shift boss @ $14.00	----------	1680.00
1 manager, Super @ $300. per month	--------	1800.00
		$ 3480.00

(C) Repairs:

Improve existing cook house and sleeping quarters: $ 1000.00

(D) None

(E)

Additional Compressor	----------	$2000.00
Additional air tools	----------	1000.00
Dump truck	----------	2500.00
Small air hoist	----------	500.00
Additional Rail	----------	250.00
Additional Pipe	----------	300.00
Mine Car	----------	150.00
Total	-------	$6700.00

(F) None

(G) No rental cost

(H)

Gasoline - 50 gal. per day - 120 days @ 23¢ per gal	----	$ 1380.00
Powder, caps & fuse	----------	1000.00
Misc. Timber	----------	500.00
Misc. Camp expenses	----------	500.00
		$ 3380.00

(I)

None except answered in question above as to Power.

Insurance - Average - $6.00 per $100.00 on pay roll	------	$ 1320.00
O.A. and Social Security 2½%	----------	562.50
		$ 1882.50
Misc. and Incidental expenses	----------	$4597.50

Re:	Labor----------	$ 18,960.00
	Supervision----------	3,480.00
	Repairs ----------	1,000.00
	Equipment----------	6,700.00
	Material----------	3,380.00
	Insurance----------	1,882.50
	Reserve & Misc. Items	4,597.50
		$ 40,000.00

24. The property is in operation now and will be in production by the 1st of July, 1951, and if above loan is granted reserve and minable ore will be proven and blocked out within a six-month period.

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form app[illegible]
Budget Bureau [illegible]

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. dma 13219X

Date received 5-29-51

PARAMOUNT MINING CO.
BOX 9,
IVANPAH, CALIFORNIA

Name and address of applicant

Date 15 MAY 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) ~~Necessity Certificate pursuant to the provisions of Sec. 124 of the Defense Production Act of 1950~~, (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) X 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.

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

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

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

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

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

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
H. C. Williams Box 9, Ivanpah, Calif.	Partner Manager	None	5000.				
J. C. Dohme 240 Sanmiguel Road Pasadena, Calif.	Partner	None	75,000				
Donald Debbins 1106-Isabel-Burbank, Calif	Partner	None	150,000				
Ed Rich 3600 Willowcrest N. Hollywood, Calif	Patner	None	$25,000				
	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.)	None	None	None	None	None
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 dep[illegible] briefly. Accompany the application by any available report on the~~ ore reserves.

(1)

(a) Tungsten (Sheelite)
(b) Copper, Zinc, Flourite

(2)

(a) - None
(b) 200 ft. of drifts, 150' of crosscuts
(c) Same as (b)
(d) 50' winze on ore, from main drift. Mine makes approximately 1 gallon water per minute. No water problem.

Productive capacity is estimated near 50 ton per day.

(3)

(a) 5 miles South of Ivanpah, California. 12 miles by road.
(b) New York Mts. Vanderbilt Mining District
(c) 14 N- 15 E Sec. 24
(d) S an Bernardino County, California

(4) (a) Property in operation, by Paramount Mining Co.
(b) Owner

(5) No production to date. Now in preparatory stage of operation. Production to begin by July 1, 1951.

(6)

Mr. M. S. Williams:

Has been a practical miner and an operator of mining properties for 20 years. Has a very good knowledge of this property and an excellent reputation in the District.

During World War No. II, Mr. Williams enlisted in the Army as a Private and was assigned to the Corps of Engineers. Saw duty in the Pacific and was discharged a Captain of Engineers.

Mr. J. C. Bohme:

Mr. Bohme is an instructor in the School System of the County of Los Angeles, California and instructs at the Bellevedere Junior High School in that City.

Mr. Ed Rich:

Mr. Rich has been in the mining business for 20 years in various capacities and at present is a structural engineer for the City of Los Angeles, California.

During the past World War, Mr. Rich was, and is, a Lt. Commander in the U.S. Navy Air Force.

Mr. Donald Dobbins:

Mr. Dobbins is a business man; he is the owner and operator of the Union Aircraft Plant in Burbank, California, along with several other business ventures.

(7)

(a) The property is an old one that has been noted for its fine specimens of ore (Copper and Zinc, Pyrite). The tunnel was driven 200' and ore struck, a qinze '50' deep is in ore and several small raises and drifts across the vein show the probable ore extent; however, very little, if any, ore was shipped because of its baseness, and the property has been idle and abandoned until 7 months ago when Mr. Williams, who was in the district, investigated it with a flourescent light and was very happy to doscover sheelight over most of the workings, especially over a very good mining width in ore that is soft and does not have the baseness of the Copper Zinc ore that the foremer operators had encountered. This ore is on a Granite, Limestone contact.

(b) The district is old and there are several producing properties near by. The production record is unknown.

(c) Enclosed is a report made by Mr. Harley Sill, a Mining Engineer of wide experience.

QUESTIONS 8, 9 and 10 ANSWERED ON FORM MF-100.

(11.)

There has been no production; we are operating on a small scale now and expect to be in production by July 1, 1951. Estimated tonnage is 300 to 500 tons per month.

(12)

(a) The deposit is a granite limestone contact with a drift on the contact showing strong sheelite. (Report enclosed.)

(b) (1) Report enclosed.
(2) There is no way as yet to compute the mineral reserves. The tungsten shows at an estimated 1 to 2½% along 200 feet of drift but no raises or other laterial work has been done to establish positive tonnage.

(13)

ROADS: 5 miles of owners' road -- Recently lbuilt, suitable for trucking to owners'millsite. 7 miles over County Road from millsite to Ivanpah, Calif. on Union Pacific R.R.

(14)

WATER: Estimated total water at the mine is 3 gallon per minute. Water at the millsite is: 3 wells, recently drilled. 1 well 45 feet--12 gallon per minute.

WATER (Cont'd)

1 well, 60' - 6 gallons per minute.
1 dug well - 35' - 15 gallons per minute.
All wells within 100 yards of each other and within 500 feet of recently built mill on owners' millsite.

(15)

POWER: Estimated power at mine now is 75 h.p. Power at millsite 50 h.p. All gasoline - R.E.A. is surveying the area now for electrification.

(16)

LABOR: Up to present 5 men have been employed, mostly with surface work or rehabilitation of the mine.

(17)

EQUIPMENT & FACILITIES: At the mine we have a steel frame sheet iron building 12' x 24'. Blacksmith and work whop recently purchased, cook house and two small sleeping quarters.

One Worthington portable compressor, new. All drilling equipment - good shape. Have just installed new rail in tunnels .

One A.C. Bulldozer, size "S" with angledozer and 9 yd. scraper.

Recently installed - 40 ton ore bin to load trucks.

1-1½ ton Burma Jeep.
1- Jeep
1- International 1½ ton truck.

In process of construction we have a complete 40-ton concentratation plant, including ball mill, 2 wilfley tables, crusher, ore bin, pumps, tanks and miscellaneous other equipment, which at the present time is 3/4 erected.

(18)

Until recently this property was known as a complex copper, zinc property and the sheelite was unknown, as so many mines have been in the past-- the present operation has been in operation two months, building roads, houses, and rehabilitating the mine.

Scheelite known since 1940. Not enough tonnage to warrant metallurgical testing

(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)	10,000	1½%	$64.00	$70.00	$12.00

(c) If placer:

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

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

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

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

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

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

13. Access Roads:

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

14. Water Supply:

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

15. Power:

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

16. Labor:

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

17. Equipment and Facilities:

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

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

CERTIFICATION

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

PARAMOUNT MINING CO.
(Name of company)

By M. C. Williams
(Signature of authorized official)

15 May, 1951
(Date)

Manager, Partner.
(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.

Form Mi[illegible]0
(March 195[illegible])

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. dma 13298

Date received 5-29-51

PARAMOUNT MINING CO.
Box 9
Ivanpah, California

Name and address of applicant

Date 15 MAY 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) ~~Necessity Certificate pursuant to the provisions of Sec. 124-A (Amortization Deduction) of the Internal Revenue Code of 1950~~ 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.

5 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? Tungsten (Sheelite)
   (*b*) What are the byproducts, if any? Copper, Zinc, Flourite
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).
   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production _____
   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

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

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
M. C. Williams Box 9, Ivanpah, Calif.	Partner Manager	None	$5000.				
J. C. Bohme 240 Sanmiguel Road Pasadena, Calif.	Partner	None	75,000				
Donald Dobbins 1106 ISABEL, BURBANK, CALIF	Partner	None	150,000				
Ed Rich 3600 Willowcrest N. Hollywood, Calif.	Partner	None	$25,000				
	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.)	None	None	None	None	None
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.

(1)

(a) Tungsten (Shoelite)
(b) Copper, Zinc, Flourite

(2)

(a) - None
(b) 200 ft. of drifts, 150' of crosscuts
(c) Same as (b)
(d) 50' winze on ore, from main drift. Mine makes approximately 1 gallon water per minute. No water problem.

Productive capacity is estimated near 50 ton per day.

(3)

(a) 5 miles South of Ivanpah, California. 12 miles by road.
(b) New York Mts. Vanderbilt Mining District
(c) 14 N- 15 E Sec. 24
(d) San Bernardino County, California

(4) (a) Property in operation, by Paramount Mining Co.
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QUESTIONS 8, 9 and 10 ANSWERED ON FORM MF-100.

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WATER (Cont'd)

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One A.C. Bulldozer, size "S" with angledozer and 9 yd. scraper.

Recently installed - 40 ton ore bin to load trucks.

1-1½ ton Burma Jeep.
1- Jeep
1- International 1½ ton truck.

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Until recently this property was known as a complex copper, zinc property and the sheelite was unknown, as so many mines have been in the past--the present operation has been in operation two months, building roads, houses, and rehabilitating the mine.

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(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)	10,000	1½%	$64.00	$70.00	$12.00

(*c*) If placer:

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

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

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

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

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

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

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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.

PARAMOUNT MINING CO.
(Name of company)

By M. C. Williams
(Signature of authorized official)

15 May, 1951
(Date)

Manager, Partner.
(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

Form M-100
(March 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. dma 1329X

Date received 5-29-51

PARAMOUNT MINING CO.
BOX 9
IVANPAH, CALIFORNIA

Name and address of applicant

Date 15 MAY 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) ~~Necessity Certificate pursuant to the provisions of Sec. 124 of the Internal Revenue Code of 1939~~ (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) 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.

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

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

   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
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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: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
M. C. Williams Box 9, Ivanpah, Calif.	Partner Manager	None	$5000.				
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If more lines are needed continue on separate sheet.

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Productive capacity is estimated near 50 ton per day.

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ROADS: 5 miles of owners' road -- Recently lbuilt, suitable for trucking to owners'millsite. 7 miles over County Road from millsite to Ivanpah, Calif. on Union Pacific R.R.

(14)

WATER: Estimated total water at the mine is 3 gallon per minute. Water at the millsite is: 3 wells, recently drilled. 1 well 45 feet--12 gallon per minute.

WATER (Cont'd)

1 well, 60' - 6 gallons per minute.
1 dug well - 35' - 15 gallons per minute.
All wells within 100 yards of each other and within 500 feet of recently built mill on owners' millsite.

(15)

POWER: Estimated power at mine now is 75 h.p. Power at millsite 50 h.p. All gasoline - R.E.A. is surveying the area now for electrification.

(16)

LABOR: Up to present 5 men have been employed, mostly with surface work or rehabilitation of the mine.

(17)

EQUIPMENT & FACILITIES: At the mine we have a steel frame sheet iron building 12' x 24'. Blacksmith and work whop recently purchased, cook house and two small sleeping quarters.

One Worthington portable compressor, new. All drilling equipment - good shape. Have just installed new rail in tunnels .

One A.C. Bulldozer, size "S" with angledozer and 9 yd. scraper.

Recently installed - 40 ton ore bin to load trucks.

1-1½ ton Burma Jeep.
1- Jeep
1- International 1½ ton truck.

In process of construction we have a complete 40-ton concentratation plant, including ball mill, 2 wilfley tables, crusher, ore bin, pumps, tanks and miscellaneous other equipment, which at the present time is 3/4 erected.

(18)

Until recently this property was known as a complex copper, zinc property and the sheelite was unknown, as so many mines have been in the past--the present operation has been in operation two months, building roads, houses, and rehabilitating the mine.

(*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)	10,000	1½%	$64.00	$70.00	$12.00

(*c*) If placer:

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

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

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

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

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

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

13. Access Roads:

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

14. Water Supply:

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

15. Power:

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

16. Labor:

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

17. Equipment and Facilities:

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

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

CERTIFICATION

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

PARAMOUNT MINING CO.
(Name of company)

By W. C. Williams
(Signature of authorized official)

15 May, 1951
(Date)

Manager, Partner.
(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

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

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

DO NOT FILL IN THIS BLOCK

Docket No. dma 1329X

Date received 5-29-51

Participation

PARAMOUNT MINING CO.
BOX 9
IVANPAH, CALIFORNIA

Name and address of applicant

Date 15 May, 1951

FILL IN THIS BLOCK

Date of application 15 May, 1951

Estimated cost $40,000.00

Mineral or metal Tungsten

Percentage of Government participation 75%

Location of mine Near Ivanpah, California
San Bernardino, County

Date of filing MF-100 15 May, 1951

DMA Docket Number, if available None

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

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

NOTE.—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 (*b*) 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.

*11. State the present and former names of the property, if any.

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.

*13. State source and quantity of water available for operations and its sufficiency at all seasons. State amount of power to be used, rate per hour or other cost, and source.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.

15. State in detail how the ore could be shipped and how and where milled.

*16. History:

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

(*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.

*17. Production:

(*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.)

(*a*) Describe the ore or mineral deposits briefly.

(*b*) Submit available maps and assay data.

(*c*) Give estimated tonnage and grade of each class of ore reserves.

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

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:

(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.

(*b*) Supervisors, by numbers and positions, with salaries of each.

(*c*) Cost of necessary repairs to existing facilities, structures, and buildings.

(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.

(*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.

(*f*) Cost of rental for equipment which the operator proposes to rent.

(*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.

(*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.

(*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

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.

PARAMOUNT MINING CO.
(Name of company)

By M. C. Williams
(Signature of authorized official)

15 May, 1951
(Date)

Manager, Partner
(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.

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

FORM MF-103 APPLICATION

1. -- Answered on Form MF-100
2. -- " " " " "
3. -- " " " " "
4. -- " " " " "
5. -- " " " " "

6. -- No encumbrances.

7. Owner.

8. To date there is no statement. We have a partnership joined March 15, 1951, with capital of $25,000. To date we have spent $15,000 on equipment, supplies, labor, et cetera.

9. $10,000. Yes.

10. (A) 2 located mining claims - 600x1500, which is the property known as the Bronze No. 1 and No. 2, where we are operating at the present time.
The adjoining mine, consisting of 4 full claims, known as the Copper Queen Mine.
2 millsites, located 5 miles from above property, known as the Bronze Millsite, and the Copper Queen Millsite.

(B) Same.

11. MF-100
12. "
13. "
14. "

15. The ore will be trucked 5 miles down to present mill being erected by owners, concentrates trucked to Bishop, California.

16. MF-100
17. "
18. "
19. "

20. Tungsten (Sheelite)

The property is a granite limestone contact which has not been explored for tungsten, as former operations were for the copper or zinc. Sheelite was unknown by the former operators.

21. The proposed work will be in the form of raises along the contact to expose the ore, and drifts in the crosscut to determine the scope of the ore. Estimated time: 6 months.

22. Contact has not been explored for tungsten as stated above, and sheelite shows strongly all along same. Enclosed find report.

23 (A) Requirements and Cost:

6 miners @ $12.00 per day - 120 days ----------	$8640.00
4 muckers @ 11.00 " " - 120 days ----------	5280.00
2 mill men @ 15.00 " " - 120 days ----------	3600.00
1 truck driver @ 12.00 per day -- 120 days-------	1440.00
Labor total.....	$18960.00

B) Supervisors:

1 shift boss @ $14.00----------	1680.00
1 manager, Super @ $300. per month--------	1800.00
	$ 3480.00

(C) Repairs:

Improve existing cook house and sleeping quarters: $ 1000.00

(D) None

(E)

Additional Compressor----------	$2000.00
Additional air tools----------	1000.00
Dump truck----------	2500.00
Small air hoist----------	500.00
Additional Rail----------	250.00
Additional Pipe----------	300.00
Mine Car----------	150.00
Total-------	$6700.00

(F) None

(G) No rental cost

(H)

Gasoline - 50 gal. per day - 120 days @ 23¢ per gal----	$ 1380.00
Powder, caps & fuse ----------	1000.00
Misc. Timber----------	500.00
Misc. Camp expenses----------	500.00
	$ 3380.00

(I)

None except answered in question above as to Power.	
Insurance - Average - $6.00 per $100.00 on pay roll------	$ 1320.00
C.A. and Social Security 2½----------	562.50
	$ 1882.50
Misc. and Incidental expenses----------	$4597.50

Re:	Labor----------	$ 18,960.00
	Supervision----------	3,480.00
	Repairs ----------	1,000.00
	Equipment----------	6,700.00
	Material----------	3,380.00
	Insurance----------	1,882.50
	Reserve & Misc. Items	4,597.50
		$ 40,000.00

24. The property is in operation now and will be in production by the 1st of July, 1951, and if above loan is granted reserve and minable ore will be proven and blocked out within a six-month period.

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

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

DO NOT FILL IN THIS BLOCK

Docket No. dma 1329X

Date received 5-29-51

Participation

PARAMOUNT MINING CO.
BOX 9
IVANPAH, CALIFORNIA

Name and address of applicant

Date 15 May, 1951

FILL IN THIS BLOCK

Date of application 15 May, 1951

Estimated cost $40,000.00

Mineral or metal Tungsten

Percentage of Government participation 75%

Location of mine Near Ivanpah, California

San Bernardino, County

Date of filing MF-100 15 May, 1951

DMA Docket Number, if available None

INSTRUCTIONS

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THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

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16—64067-1

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State amount of power to be used, rate per hour or other cost, and source.

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	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
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PARAMOUNT MINING CO.
(Name of company)

By M. C. Williams
(Signature of authorized official)

15 May, 1951
(Date)

Manager, Partner
(Title)

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*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

FORM MF-103 APPLICATION

1. -- Answered on Form MF-100
2. -- " " " " "
3. -- " " " " "
4. -- " " " " "
5. -- " " " " "

6. -- No encumbrances.

7. Owner.

8. To date there is no statement. We have a partnership joined March 15, 1951, with capital of $25,000. To date we have spent $15,000 on equipment, supplies, labor, et cetera.

9. $10,000. Yes.

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22. Contact has not been explored for tungsten as stated above, and sheelite shows strongly all along same. Enclosed find report.

23 (A) Requirements and Cost:

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4 muckers @ 11.00 " " - 120 days	----------	5280.00
2 mill men@ 15.00 " " - 120 days	----------	3600.00
1 truck driver @ 12.00 per day -- 120 days	-------	1440.00
Labor total.....		$18960.00

B) Supervisors:

1 shift boss @ $14.00----------	1680.00
1 manager, Super @ $300. per month--------	1800.00
	$ 3480.00

(C) Repairs:

Improve existing cook house and sleeping quarters: $ 1000.00

(D) None

(E)

Additional Compressor----------	$2000.00
Additional air tools----------	1000.00
Dump truck----------	2500.00
Small air hoist----------	500.00
Additional Rail----------	250.00
Additional Pipe----------	300.00
Mine Car----------	150.00
Total-------	$6700.00

(F) None

(G) No rental cost

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Powder, caps & fuse ----------	1000.00
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O.A. and Social Security 2½%----------	562.50
	$ 1882.50
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Re:	Labor----------	$ 18,960.00
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	Insurance----------	1,882.50
	Reserve & Misc. Items	4,597.50
		$ 40,000.00

24. The property is in operation now and will be in production by the 1st of July, 1951, and if above loan is granted reserve and minable ore will be proven and blocked out within a six-month period.

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

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

DO NOT FILL IN THIS BLOCK

Docket No. dma 13219X

Date received 5-29-51

Participation

PARAMOUNT MINING CO.
BOX 9
IVANPAH, CALIFORNIA

Name and address of applicant

Date 15 May, 1951

FILL IN THIS BLOCK

Date of application 15 May, 1951

Estimated cost 40,000.00

Mineral or metal Tungsten

Percentage of Government participation 75%

Location of mine Near Ivanpah, California
San Bernardino, County

Date of filing MF-100 15 May, 1951

DMA Docket Number, if available None

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

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16—64067-1

THE PROPERTY

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

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*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.
*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.
*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.
15. State in detail how the ore could be shipped and how and where milled.
*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*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.
*17. Production:
    (*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.
19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?
21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete.
22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:
    (*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.
    (*b*) Supervisors, by numbers and positions, with salaries of each.
    (*c*) Cost of necessary repairs to existing facilities, structures, and buildings.
    (*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.
    (*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.
    (*f*) Cost of rental for equipment which the operator proposes to rent.
    (*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.
    (*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.
    (*i*) Cost of power, water, utilities, and any other items not provided for above.
24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

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.

PARAMOUNT MINING CO.
(Name of company)

By M. C. Williams
(Signature of authorized official)

15 May, 1951
(Date)

Manager, Partner
(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.

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

FORM MF-103 APPLICATION

1. -- Answered on Form MF-100
2. -- " " " " "
3. -- " " " " "
4. -- " " " " "
5. -- " " " " "

6. -- No encumbrances.

7. Owner.

8. To date there is no statement. We have a partnership joined March 15, 1951, with capital of $25,000. To date we have spent $15,000 on equipment, supplies, labor, et cetera.

9. $10,000. Yes.

10. (A) 2 located mining claims - 600x1500, which is the property known as the Bronze No. 1 and No. 2, where we are operating at the present time.
The adjoining mine, consisting of 4 full claims, known as the Copper Queen Mine.
2 millsites, located 5 miles from above property, known as the Bronze Millsite, and the Copper Queen Millsite.

(B) Same.

11. MF-100
12. "
13. "
14. "

15. The ore will be trucked 5 miles down to present mill being erected by owners, concentrates trucked to Bishop, California.

16. MF-100
17. "
18. "
19. "

20. Tungsten (Sheelite)

The property is a granite limestone contact which has not been explored for tungsten, as former operations were for the copper or zinc. Sheelite was unknown by the former operators.

21. The proposed work will be in the form of raises along the contact to expose the ore, and drifts in the crosscut to determine the scope of the ore. Estimated time: 6 months.

22. Contact has not been explored for tungsten as stated above, and sheelite shows strongly all along same. Enclosed find report.

23 (A) Requirements and Cost:

6 miners @ $12.00 per day - 120 days	----------	$8640.00
4 muckers @ 11.00 " " - 120 days	----------	5280.00
2 mill men@ 15.00 " " - 120 days	----------	3600.00
1 truck driver @ 12.00 per day -- 120 days	-------	1440.00
Labor total.....		$18960.00

B) Supervisors:

1 shift boss @ $14.00----------	1680.00
1 manager, Super @ $300. per month--------	1800.00
	$ 3480.00

(C) Repairs:

Improve existing cook house and sleeping quarters: $ 1000.00

(D) None

(E)

Additional Compressor----------	$2000.00
Additional air tools----------	1000.00
Dump truck----------	2500.00
Small air hoist----------	500.00
Additional Rail----------	250.00
Additional Pipe----------	300.00
Mine Car----------	150.00
Total-------	$6700.00

(F) None

(G) No rental cost

(H)

Gasoline - 50 gal. per day - 120 days @ 23¢ per gal----	$ 1380.00
Powder, caps & fuse ----------	1000.00
Misc. Timber----------	500.00
Misc. Camp expenses----------	500.00
	$ 3380.00

(I)

None except answered in question above as to Power.	
Insurance - Average - $6.00 per $100.00 on pay roll------	$ 1320.00
O.A. and Social Security 2½%----------	562.50
	$ 1882.50
Misc. and Incidental expenses----------	$4597.50

Re:	Labor----------	$ 18,960.00
	Supervision----------	3,480.00
	Repairs ----------	1,000.00
	Equipment----------	6,700.00
	Material----------	3,380.00
	Insurance----------	1,882.50
	Reserve & Misc. Items	4,597.50
		$ 40,000.00

24. The property is in operation now and will be in production by the 1st of July, 1951, and if above loan is granted reserve and minable ore will be proven and blocked out within a six-month period.

Form MF-100
(March 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. dma 1329X

Date received 5-29-51

PARAMOUNT MINING CO.
BOX 9
IVANPAH, CALIFORNIA

Name and address of applicant

Date 15 May 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) Necessity Certificate pursuant to the provisions of Sec. 124 A (Amortization Deduction) of Internal Revenue Code, 1954, (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (X) 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.

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

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

   If not in production or operation, estimated date when production will begin .....
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

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

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
M. D. Williams Box 9, Ivanpah, Calif.	Parnter Manager	None	$5000			Unknown	
J. C. BOhme 240 Sanmiguel Road Pasadena, Calif.	Partner	None	$75,000			"	
Donald Dobbins 1106-ISABEL ST BURBANK CALIF	Partner	None	$150,000			"	
Ed Rich 3600 WILLOWCREST AVE N. Hollywood, CALIF	Partner	None	$25,000			"	
	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 mine[illegible] deposit briefly. Accompany the application b[illegible]y available report on the geology and ore reserves.

(1)

(a) Tungsten (Sheelite)
(b) Copper, Zinc, Flourite

(2)

(a) - None
(b) 200 ft. of drifts, 150' of crosscuts
(c) Same as (b)
(d) 50' winze on ore, from main drift. Mine makes approximately 1 gallon water per minute. No water problem.

Productive capacity is estimated near 50 ton per day.

(3)

(a) 5 miles South of Ivanpah, California. 12 miles by road.
(b) New York Mts. Vanderbilt Mining District
(c) 14 N- 15 E Sec. 24
(d) S an Bernardino County, California

(4) (a) Property in operation, by Paramount Mining Co.
(b) Owner

(5) No production to date. Now in preparatory stage of operation. Production to begin by July 1, 1951.

(6)

Mr. M. C. Williams:

Has been a practical miner and an operator of mining properties for 20 years. Has a very good knowledge of this property and an excellent reputation in the District.

During World War No. II, Mr. Williams enlisted in the Army as a Private and was assigned to the Corps of Engineers. Saw duty in the Pacific and was discharged a Captain of Engineers.

Mr. J. C. Bohme:

Mr. Bohme is an instructor in the School System of the County of Los Angeles, California and instructs at the Bellevedere Junior High School in that City.

Mr. Ed Rich:

Mr. Rich has been in the mining business for 20 years in various capacities and at present is a structural engineer for the City of Los Angeles, California.

During the past World War, Mr. Rich was, and is, a Lt. Commander in the U.S. Navy Air Force.

Mr. Donald Dobbins:

Mr. Dobbins is a business man; he is the owner and operator of the Union Aircraft Plant in Burbank, California, along with several other business ventures.

(7)

(a) The property is an old one that has been noted for its fine specimens of ore (Copper and Zinc, Pyrite). The tunnel was driven 200' and ore struck, a qinze '50' deep is in ore and several small raises and drifts across the vein show the probable ore extent; however, very little, if any, ore was shipped because of its baseness, and the property has been idle and abandoned until 7 months ago when Mr. Williams, who was in the district, investigated it with a flourescent light and was very happy to doscover sheelight over most of the workings, especially over a very good mining width in ore that is soft and does not have the baseness of the Copper Zinc ore that the foremer operators had encountered. This ore is on a Granite, Limestone contact.

(b) The district is old and there are several producing properties near by. The production record is unknown.

(c) Enclosed is a report made by Mr. Harley Sill, a Mining Engineer of wide experience.

QUESTIONS 8, 9 and 10 ANSWERED ON FORM MF-100.

(11.)

There has been no production; we are operating on a small scale now and expect to be in production by July 1, 1951. Estimated tonnage is 300 to 500 tons per month.

(12)

(a) The deposit is a granite limestone contact with a drift on the contact showing strong sheelite. (Report enclosed.)

(b) (1) Report enclosed.
(2) There is no way as yet to compute the mineral reserves. The tungsten shows at an estimated 1 to 2½% along 200 feet of drift but no raises or other laterial work has been done to establish positive tonnage.

(13)

ROADS: 5 miles of owners' road -- Recently lbuilt, suitable for trucking to owners'millsite. 7 miles over County Road from millsite to Ivanpah, Calif. on Union Pacific R.R.

(14)

WATER: Estimated total water at the mine is 3 gallon per minute. Water at the millsite is: 3 wells, recently drilled. 1 well 45 feet--12 gallon per minute.

WATER (Cont'd)

1 well, 60' - 6 gallons per minute.
1 dug well - 35' - 15 gallons per minute.
All wells within 100 yards of each other and within 500 feet of recently built mill on owners' millsite.

(15)

POWER: Estimated power at mine now is 75 h.p. Power at millsite 50 h.p. All gasoline - R.E.A. is surveying the area now for electrification.

(16)

LABOR: Up to present 5 men have been employed, mostly with surface work or rehabilitation of the mine.

(17)

EQUIPMENT & FACILITIES: At the mine we have a steel frame sheet iron building 12' x 24'. Blacksmith and work whop recently purchased, cook house and two small sleeping quarters.

One Worthington portable compressor, new. All drilling equipment - good shape. Have just installed new rail in tunnels .

One A.C. Bulldozer, size "S" with angledozer and 9 yd. scraper.

Recently installed - 40 ton ore bin to load trucks.

1-1½ ton Burma Jeep.
1- Jeep
1- International 1½ ton truck.

In process of construction we have a complete 40-ton concentratation plant, including ball mill, 2 wilfley tables, crusher, ore bin, pumps, tanks and miscellaneous other equipment, which at the present time is 3/4 erected.

(18)

Until recently this property was known as a complex copper, zinc property and the sheelite was unknown, as so many mines have been in the past--the present operation has been in operation two months, building roads, houses, and rehabilitating the mine.

(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)	10,000	1½	$64.00	$70.00	$12.00

(c) If placer:

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

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

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

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

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

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

13. Access Roads:

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

14. Water Supply:

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

15. Power:

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

16. Labor:

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

17. Equipment and Facilities:

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

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

CERTIFICATION

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

PARAMOUNT MINING CO.
(Name of company)

By M. C. Williams
(Signature of authorized official)

15 May, 1951
(Date)

Manager, Partner.
(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

Form MF-100
(March 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. dmm 13298

Date received 5-29-51

PARAMOUNT MINING CO.
BOX 9
IVANPAH, CALIFORNIA

Name and address of applicant

Date 15 May 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) Necessity Certificate pursuant to the provisions of Sec. 124 A (Amortization Deduction) of Internal Revenue Code, (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (X) 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.

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

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

   If not in production or operation, estimated date when production will begin .....
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

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

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
M. D. Williams Box 9, Ivanpah, Calif.	Parnter Manager	None	$5000			Unknown	
J. C. BOhme 240 Sanmiguel Road Pasadena, Calif.	Partner	None	$75,000			"	
Donald Dobbins 1106 ISABEL ST BURBANK CALIF	Partner	None	$150,000			"	
Ed Rich 3600 Willowcrest Ave N. Hollywood, Calif	Partner	None	$25,000			"	
	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)	10,000	1%	$64.00	$70.00	$12.00

(*c*) If placer:

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

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

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

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

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

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

13. Access Roads:

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

14. Water Supply:

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

15. Power:

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

16. Labor:

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

17. Equipment and Facilities:

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

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

CERTIFICATION

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

PARAMOUNT MINING CO.
(Name of company)

By M. C. Williams
(Signature of authorized official)

15 May, 1951
(Date)

Manager, Partner.
(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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 2 9 1951
LANDON F. STROBEL
Executive Secretary

H. C. Williams Box 9, Ivanpah, Calif.	Partner Manager	None	$5000.
J. C. Bohme 240 Sanmiguel Road Pasadena, Calif.	Partner	None	75,000
Donald Dobbins	Partner	None	150,000

None	None	None	None	None
"	"	"	"	"
"	"	"	"	"

(1)

(a) Tungsten (Sheelite)
(b) Copper, Zinc, Flourite

(2)

(a) - None
(b) 200 ft. of drifts, 150' of crosscuts
(c) Same as (b)
(d) 50' winze on ore, from main drift. Mine makes approximately 1 gallon water per minute. No water problem.

Productive capacity is estimated near 50 ton per day.

(3)

(a) 5 miles South of Ivanpah, California. 12 miles by road.
(b) New York Mts. Vanderbilt Mining District
(c) 14 N- 15 E Sec. 24
(d) S an Bernardino County, California

(4) (a) Property in operation, by Paramount Mining Co.
(b) Owner

(5) No production to date. Now in preparatory stage of operation. Production to begin by July 1, 1951.

(6)

Mr. M. C. Williams:

Has been a practical miner and an operator of mining properties for 20 years. Has a very good knowledge of this property and an excellent reputation in the District.

During World War No. II, Mr. Williams enlisted in the Army as a Private and was assigned to the Corps of Engineers. Saw duty in the Pacific and was discharged a Captain of Engineers.

Mr. J. C. Bohme:

Mr. Bohme is an instructor in the School System of the County of Los Angeles, California and instructs at the Bellevedere Junior High School in that City.

Mr. Ed Rich:

Mr. Rich has been in the mining business for 20 years in various capacities and at present is a structural engineer for the City of Los Angeles, California.

During the past World War, Mr. Rich was, and is, a Lt. Commander in the U.S. Navy Air Force.

Mr. Donald Dobbins:

Mr. Dobbins is a business man; he is the owner and operator of the Union Aircraft Plant in Burbank, California, along with several other business ventures.

(7)

(a) The property is an old one that has been noted for its fine specimens of ore (Copper and Zinc, Pyrite). The tunnel was driven 200' and ore struck, a qinze '50' deep is in ore and several small raises and drifts across the vein show the probable ore extent; however, very little, if any, ore was shipped because of its baseness, and the property has been idle and abandoned until 7 months ago when Mr. Williams, who was in the district, investigated it with a flourescent light and was very happy to doscover sheelight over most of the workings, especially over a very good mining width in ore that is soft and does not have the baseness of the Copper Zinc ore that the foremer operators had encountered. This ore is on a Granite, Limestone contact.

(b) The district is old and there are several producing properties near by. The production record is unknown.

(c) Enclosed is a report made by Mr. Harley Sill, a Mining Engineer of wide experience.

QUESTIONS 8, 9 and 10 ANSWERED ON FORM MF-100.

(11.)

There has been no production; we are operating on a small scale now and expect to be in production by July 1, 1951. Estimated tonnage is 300 to 500 tons per month.

(12)

(a) The deposit is a granite limestone contact with a drift on the contact showing strong sheelite. (Report enclosed.)

(b) (1) Report enclosed.
(2) There is no way as yet to compute the mineral reserves. The tungsten shows at an estimated 1 to 2½% along 200 feet of drift but no raises or other laterial work has been done to establish positive tonnage.

(13)

ROADS: 5 miles of owners' road -- Recently lbuilt, suitable for trucking to owners'millsite. 7 miles over County Road from millsite to Ivanpah, Calif. on Union Pacific R.R.

(14)

WATER: Estimated total water at the mine is 3 gallon per minute. Water at the millsite is: 3 wells, recently drilled. 1 well 45 feet--12 gallon per minute.

WATER (Cont'd)

1 well, 60' - 6 gallons per minute.
1 dug well - 35' - 15 gallons per minute.
All wells within 100 yards of each other and within 500 feet of recently built mill on owners' millsite.

(15)

POWER: Estimated power at mine now is 75 h.p. Power at millsite 50 h.p. All gasoline - R.E.A. is surveying the area now for electrification.

(16)

LABOR: Up to present 5 men have been employed, mostly with surface work or rehabilitation of the mine.

(17)

EQUIPMENT & FACILITIES: At the mine we have a steel frame sheet iron building 12' x 24'. Blacksmith and work whop recently purchased, cook house and two small sleeping quarters.

One Worthington portable compressor, new. All drilling equipment - good shape. Have just installed new rail in tunnels .

One A.C. Bulldozer, size "S" with angledozer and 9 yd. scraper.

Recently installed - 40 ton ore bin to load trucks.

1-1½ ton Burma Jeep.
1- Jeep
1- International 1½ ton truck.

In process of construction we have a complete 40-ton concentratation plant, including ball mill, 2 wilfley tables, crusher, ore bin, pumps, tanks and miscellaneous other equipment, which at the present time is 3/4 erected.

(18)

Until recently this property was known as a complex copper, zinc property and the sheelite was unknown, as so many mines have been in the past--the present operation has been in operation two months, building roads, houses, and rehabilitating the mine.

1329-X

Property, known in 1941 as the Lee Oak, was held by W. F. Lindsey. Not enough ore to warrant complex metallurgical treatment to separate W, Cu, + Zn. + fluorite

No detailed plan of exploration

~~No adequate assay data in engineers report in low grade WO3. U.S.G.S. information indicates that reported WO_3 content is much too high.~~

Loan of $30,000 (40 000 proj.) requires 9,550 units output for repay of $63. Not likely that this much could be found.

Reject

DML
6-14-51

Form MF-100
(March 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. dma 13298

Date received 5-29-51

MS - 21322

71330

PARAMOUNT MINING CO.
BOX 9
IVANPAH, CALIFORNIA

Name and address of applicant

Date 15 May 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) Necessity Certificate pursuant to the provisions of Sec. 124 A (Amortization Deduction) of Internal Revenue Code, 1954, (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) 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.

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

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

   If not in production or operation, estimated date when production will begin .....
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

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

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
M. D. Williams Box 9, Ivanpah, Calif.	Parnter Manager	None	$5000			Unknown	
J. C. BOhme 240 Sanmiguel Road Pasadena, Calif.	Partner	None	$75,000			"	
Donald Dobbins 1106-1st St Burbank Calif	Partner	None	$150,000			"	
Ed Rich 3600 Willowcrest Ave N. Hollywood, Calif	Partner	None	$25,000			"	
	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)	10,000	1½%	$64.00	$70.00	$12.00

(*c*) If placer:

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

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

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

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

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

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

13. Access Roads:

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

14. Water Supply:

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

15. Power:

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

16. Labor:

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

17. Equipment and Facilities:

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

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

CERTIFICATION

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

PARAMOUNT MINING CO.
(Name of company)

By M. C. Williams
(Signature of authorized official)

15 May, 1951
(Date)

Manager, Partner.
(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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 29 1951
LANDON F. STROBEL
Executive Secretary

H. C. Williams Box 9, Ivanpah, Calif.	Partner Manager	None	$5000.
J. C. Johns 240 Sierriguel Road Pasadena, Calif.	Partner	None	75,000
Donald Dobbins	Partner	None	150,000

None	None	None	None	None
"	"	"	"	"
"	"	"	"	"

(1)

(a) Tungsten (Sheelite)
(b) Copper, Zinc, Flourite

(2)

(a) - None
(b) 200 ft. of drifts, 150' of crosscuts
(c) Same as (b)
(d) 50' winze on ore, from main drift. Mine makes approximately 1 gallon water per minute. No water problem.

Productive capacity is estimated near 50 ton per day.

(3)

(a) 5 miles South of Ivanpah, California. 12 miles by road.
(b) New York Mts. Vanderbilt Mining District
(c) 14 N- 15 E Sec. 24
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Mr. Dobbins is a business man; he is the owner and operator of the Union Aircraft Plant in Burbank, California, along with several other business ventures.

(7)

(a) The property is an old one that has been noted for its fine specimens of ore (Copper and Zinc, Pyrite). The tunnel was driven 200' and ore struck, a qinze '50' deep is in ore and several small raises and drifts across the vein show the probable ore extent; however, very little, if any, ore was shipped because of its baseness, and the property has been idle and abandoned until 7 months ago when Mr. Williams, who was in the district, investigated it with a flourescent light and was very happy to doscover sheelight over most of the workings, especially over a very good mining width in ore that is soft and does not have the baseness of the Copper Zinc ore that the foremer operators had encountered. This ore is on a Granite, Limestone contact.

(b) The district is old and there are several producing properties near by. The production record is unknown.

(c) Enclosed is a report made by Mr. Harley Sill, a Mining Engineer of wide experience.

QUESTIONS 8, 9 and 10 ANSWERED ON FORM MF-100.

(11.)

There has been no production; we are operating on a small scale now and expect to be in production by July 1, 1951. Estimated tonnage is 300 to 500 tons per month.

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(13)

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(14)

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WATER (Cont'd)

1 well, 60' - 6 gallons per minute.
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All wells within 100 yards of each other and within 500 feet of recently built mill on owners' millsite.

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Recently installed - 40 ton ore bin to load trucks.

1-1½ ton Burma Jeep.
1- Jeep
1- International 1½ ton truck.

In process of construction we have a complete 40-ton concentratation plant, including ball mill, 2 wilfley tables, crusher, ore bin, pumps, tanks and miscellaneous other equipment, which at the present time is 3/4 erected.

(18)

Until recently this property was known as a complex copper, zinc property and the sheelite was unknown, as so many mines have been in the past--the present operation has been in operation two months, building roads, houses, and rehabilitating the mine.

Form MF-100
(March 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. dma 13298

Date received 5-29-51

MS- 2122

71330

PARAMOUNT MINING CO.
BOX 9
IVANPAH, CALIFORNIA

Name and address of applicant

Date 15 May 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) Necessity Certificate pursuant to the provisions of Sec. 124 A (Amortization Deduction) of Internal Revenue Code, 1950, (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) 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.

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   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

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

   If not in production or operation, estimated date when production will begin .....
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

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

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
M. D. Williams Box 9, Ivanpah, Calif.	Parnter Manager	None	$5000			Unknown	
J. C. BOhme 240 Sanmiguel Road Pasadena, Calif.	Partner	None	$75,000			"	
Donald Dobbins 1106 ISABEL ST BURBANK CALIF	Partner	None	$150,000			"	
Ed Rich 3600 WILLOWCREST AVE N. Hollywood, CALIF	Partner	None	$25,000			"	
	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)	10,000	1%	$64.00	$70.00	$12.00

(c) If placer:

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

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

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

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

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

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

13. Access Roads:

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

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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.

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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.

PARAMOUNT MINING CO.
(Name of company)

By M. C. Williams
(Signature of authorized official)

15 May, 1951
(Date)

Manager, Partner.
(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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 29 1951
LANDON F. STROBEL
Executive Secretary

H. C. Williams Box 9, Ivanpah, Calif.	Partner Manager	None	$5000.
J. C. Bohme 240 Sarmiguel Road Pasadena, Calif.	Partner	None	75,000
Donald Bobbins	Partner	None	150,000

None	None	None	None	None
"	"	"	"	"
"	"	"	"	"

(1)

(a) Tungsten (Sheelite)
(b) Copper, Zinc, Flourite

(2)

(a) - None
(b) 200 ft. of drifts, 150' of crosscuts
(c) Same as (b)
(d) 50' winze on ore, from main drift. Mine makes approximately 1 gallon water per minute. No water problem.

Productive capacity is estimated near 50 ton per day.

(3)

(a) 5 miles South of Ivanpah, California. 12 miles by road.
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Mr. Rich has been in the mining business for 20 years in various capacities and at present is a structural engineer for the City of Los Angeles, California.

During the past World War, Mr. Rich was, and is, a Lt. Commander in the U.S. Navy Air Force.

Mr. Donald Dobbins:

Mr. Dobbins is a business man; he is the owner and operator of the Union Aircraft Plant in Burbank, California, along with several other business ventures.

(7)

(a) The property is an old one that has been noted for its fine specimens of ore (Copper and Zinc, Pyrite). The tunnel was driven 200' and ore struck, a qinze '50' deep is in ore and several small raises and drifts across the vein show the probable ore extent; however, very little, if any, ore was shipped because of its baseness, and the property has been idle and abandoned until 7 months ago when Mr. Williams, who was in the district, investigated it with a flourescent light and was very happy to doscover sheelight over most of the workings, especially over a very good mining width in ore that is soft and does not have the baseness of the Copper Zinc ore that the foremer operators had encountered. This ore is on a Granite, Limestone contact.

(b) The district is old and there are several producing properties near by. The production record is unknown.

(c) Enclosed is a report made by Mr. Harley Sill, a Mining Engineer of wide experience.

QUESTIONS 8, 9 and 10 ANSWERED ON FORM MF-100.

(11.)

There has been no production; we are operating on a small scale now and expect to be in production by July 1, 1951. Estimated tonnage is 300 to 500 tons per month.

(12)

(a) The deposit is a granite limestone contact with a drift on the contact showing strong sheelite. (Report enclosed.)

(b) (1) Report enclosed.
(2) There is no way as yet to compute the mineral reserves. The tungsten shows at an estimated 1 to 2½% along 200 feet of drift but no raises or other laterial work has been done to establish positive tonnage.

(13)

ROADS: 5 miles of owners' road -- Recently lbuilt, suitable for trucking to owners'millsite. 7 miles over County Road from millsite to Ivanpah, Calif. on Union Pacific R.R.

(14)

WATER: Estimated total water at the mine is 3 gallon per minute. Water at the millsite is: 3 wells, recently drilled. 1 well 45 feet--12 gallon per minute.

WATER (Cont'd)

1 well, 60' - 6 gallons per minute.
1 dug well - 35' - 15 gallons per minute.
All wells within 100 yards of each other and within 500 feet of recently built mill on owners' millsite.

(15)

POWER: Estimated power at mine now is 75 h.p. Power at millsite 50 h.p. All gasoline - R.E.A. is surveying the area now for electrification.

(16)

LABOR: Up to present 5 men have been employed, mostly with surface work or rehabilitation of the mine.

(17)

EQUIPMENT & FACILITIES: At the mine we have a steel frame sheet iron building 12' x 24'. Blacksmith and work whop recently purchased, cook house and two small sleeping quarters.

One Worthington portable compressor, new. All drilling equipment - good shape. Have just installed new rail in tunnels .

One A.C. Bulldozer, size "S" with angledozer and 9 yd. scraper.

Recently installed - 40 ton ore bin to load trucks.

1-1½ ton Burma Jeep.
1- Jeep
1- International 1½ ton truck.

In process of construction we have a complete 40-ton concentratation plant, including ball mill, 2 wilfley tables, crusher, ore bin, pumps, tanks and miscellaneous other equipment, which at the present time is 3/4 erected.

(18)

Until recently this property was known as a complex copper, zinc property and the sheelite was unknown, as so many mines have been in the past--the present operation has been in operation two months, building roads, houses, and rehabilitating the mine.

DNA1329

MINING
METALLURGY
CHEMISTRY

ORE TESTING
PLANT DESIGN
METALLURGICAL RESEARCH
ASSAYS & ANALYSES

HARLEY A. SILL
CONSULTING ENGINEER
1011 SOUTH FIGUEROA STREET
LOS ANGELES

December 4, 1950

Messrs. J. C. Bohme, D. A. Robbins
E. Rich and M. C. Williams
Los Angeles, California

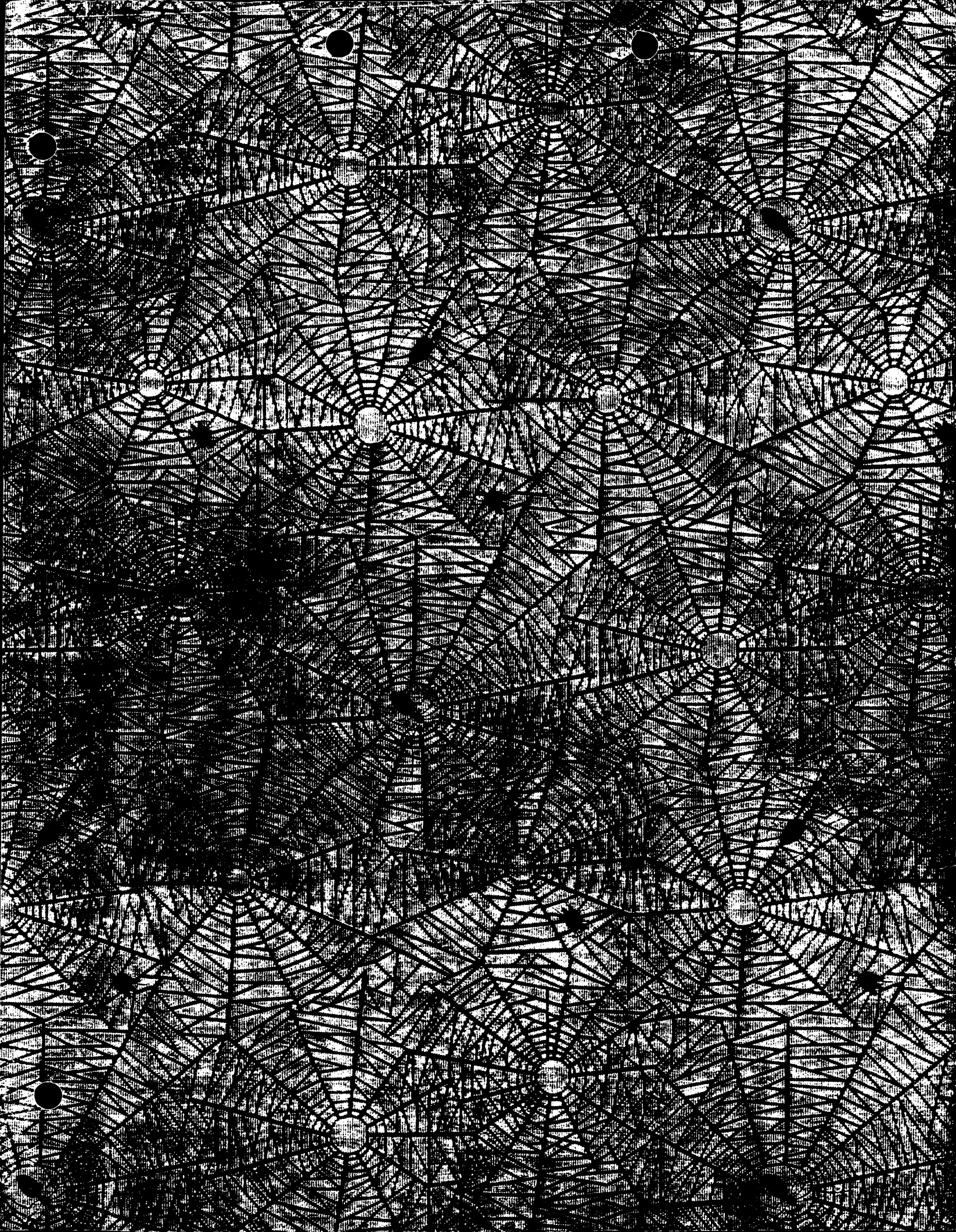
Gentlemen:

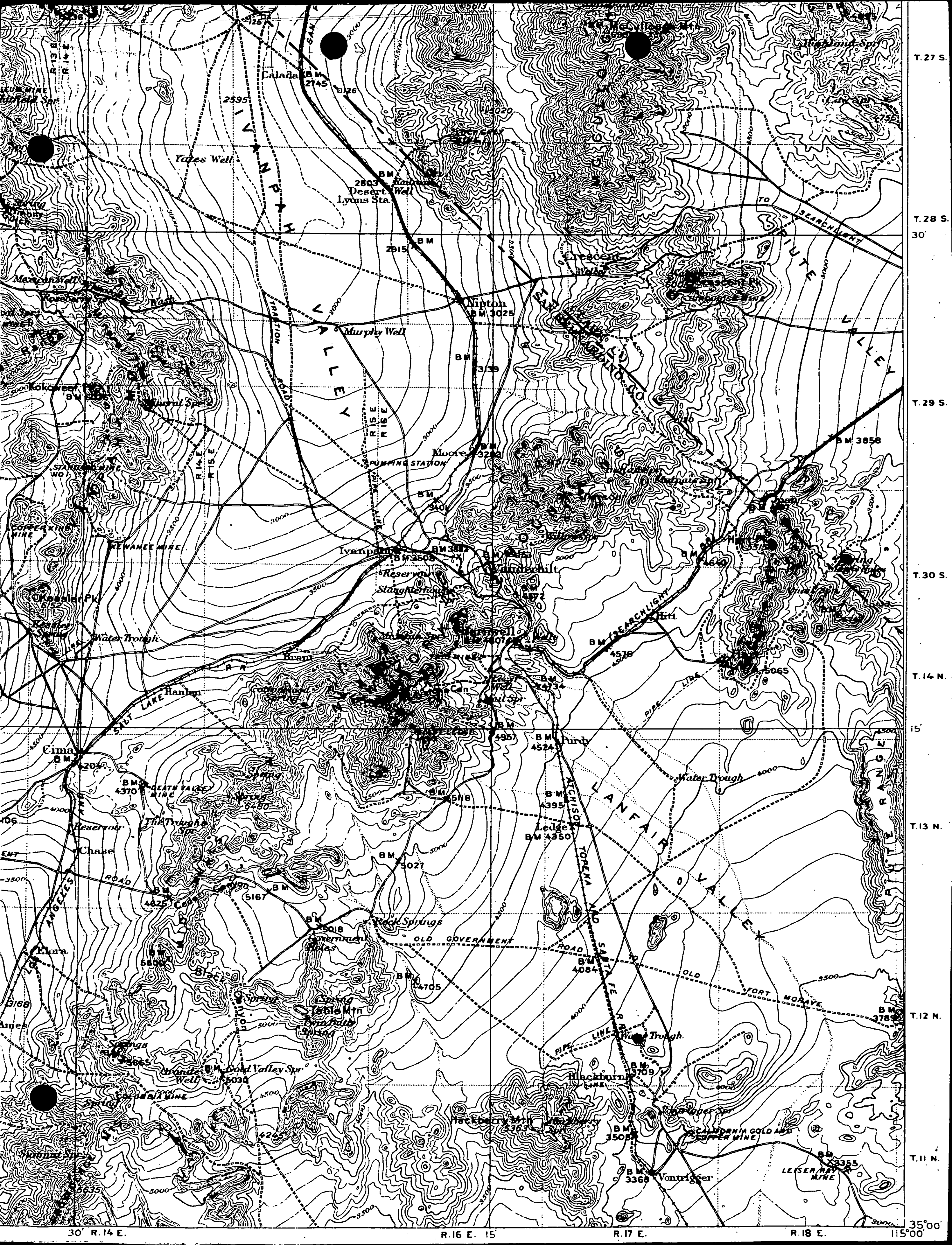
I herewith submit my findings on your two groups of mineral holdings which you have designated as the Bronze and Copper Queen, covering 3 and 5 claims respectively. Since the majority of you gentlemen are not miners I shall avoid the use of technical terms as much as possible, in the description of these properties, with the hope that my report will be more clearly understandable to you in this manner of presentation.

These properties are located in the Vanderbilt Mining District in the New York mountains, in San Bernardino County, California. More specifically they are situated approximately 5 miles Westerly from Barnwell and 12 miles southerly from Ivanpah, the nearest point on the Union Pacific Railroad and about 32 miles from Goffs, the nearest station on the Santa Fe. They are located in Keystone Canyon near the base of the Eastern flank of the New York mountains.

The claims comprising your property consist of two groups, the Bronze having 3 claims and the Copper Queen 5. These groups are practically contiguous with only approximately 100 feet of open ground between the end lines of the Copper Queen and the side lines of the Bronze.

These claims are held by right of location and in compliance with the laws covering mineral locations. However, there is a possible





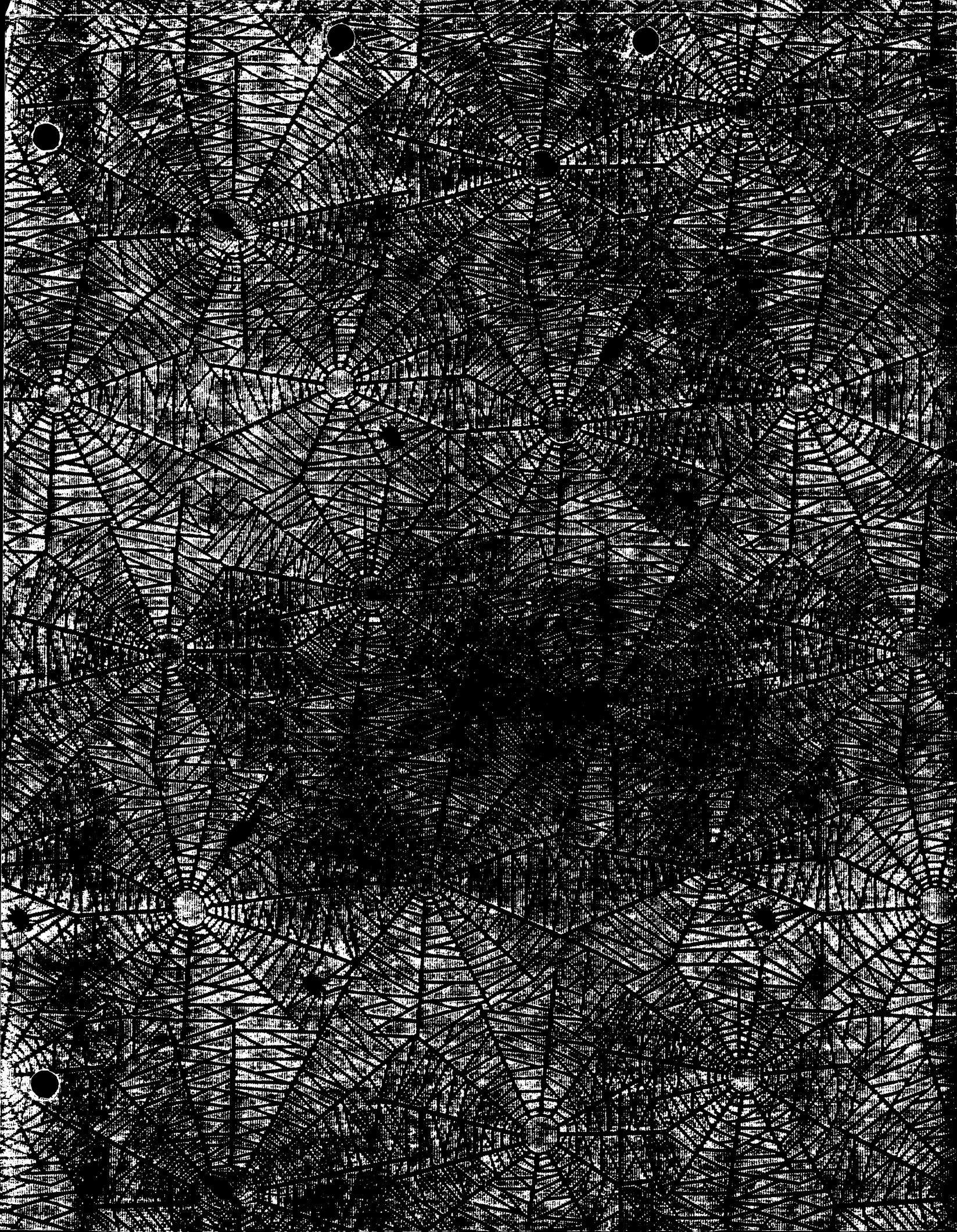
Calada
BM 2745
2595
Yates Well
IVANPAH VALLEY
BM 2803
Railroad
Desert Well
Lyons Sta.
BM 2915
Nipton
BM 3025
Murphy Well
BM 3139
TRACTION ROAD
R.14 E. RISE
R.15 E. RISE
R.16 E. RISE
PUMPING STATION
Moore
BM 3401
Ivanpah
BM 3508
BM 3887
Reservoir
Slaughterhouse Spr
Vanderbilt
Brant
R R
SALT LAKE
Hanlon
Mexican Well
Mineral Spr
STANDARD MINE
COPPER KING MINE
KEWANEE MINE
Kessler Pk
6152
Kessler Spr
Water Trough
Cima
BM 4370
DEATH VALLEY MINE
6480
Reservoir
The Trough Spr
Chase
ROAD
ANGELES
BM 4825
Cedar Canyon
BM 5167
BM 5027
BM 5118
BM 5018
Government Holes
Rock Springs
OLD GOVERNMENT ROAD TO OLD FORT MOHAVE
BM 5600
Black Canyon
Elora
3168
Spring
Table Mtn
Twin Butte Spring
Springs
BM 5865
Granite Well
BM 5030
Gold Valley Spr
COLUMBIA MINE
4245
5635
Crescent
Crescent Pk.
TO SEARCHLIGHT
PIUTE VALLEY
SAN BERNARDINO CO.
Highland Spr
4750
5020
BM 3858
5759
Indian Spr
Malpais Spr
Willow Spr
BM 4640
BM 4872
SEARCHLIGHT
Hitt
BM 4578
BM 4734
5065
PIPE LINE
BM 4957
BM 4524
Purdy
Water Trough
LANFAIR VALLEY
BM 4395
Ledge
BM 4350
ATCHISON TOPEKA AND SANTA FE R R
BM 4084
FORT MOHAVE
BM 3789
Water Trough
BM 3709
Blackburn
Vontrigger Spr
Hackberry Mtn
5363
Hackberry Spr
BM 3505
CALIFORNIA GOLD AND COPPER MINE
BM 3368
Vontrigger
BM 3355
LEISER RAY MINE
RANGE
T.27 S.
T.28 S.
30'
T.29 S.
T.30 S.
T.14 N.
15'
T.13 N.
T.12 N.
T.11 N.
35°00'
30' R.14 E.
R.16 E. 15'
R.17 E.
R.18 E.
115°00'

conflict in the right of possession and a cloud on your title because your claims are re-locations of property held under possessory title by former locators.

The law clearly states that for each claim located, in accordance with section 2304, Public Resources Code, that " Within 90 days after the location of any lode mining claim hereafter located, the locator or locators thereof shall sink a discovery shaft upon the claim to a depth of at least 10 feet from the lowest part of the rim of the shaft at the surface, or shall drive a tunnel, adit or open cut upon the claim to at least 10 feet below the surface." It further states that "a location of a lode mining claim is null and void unless such discovery work is duly performed and a true copy of location notice recorded within 90 days from the date of location."

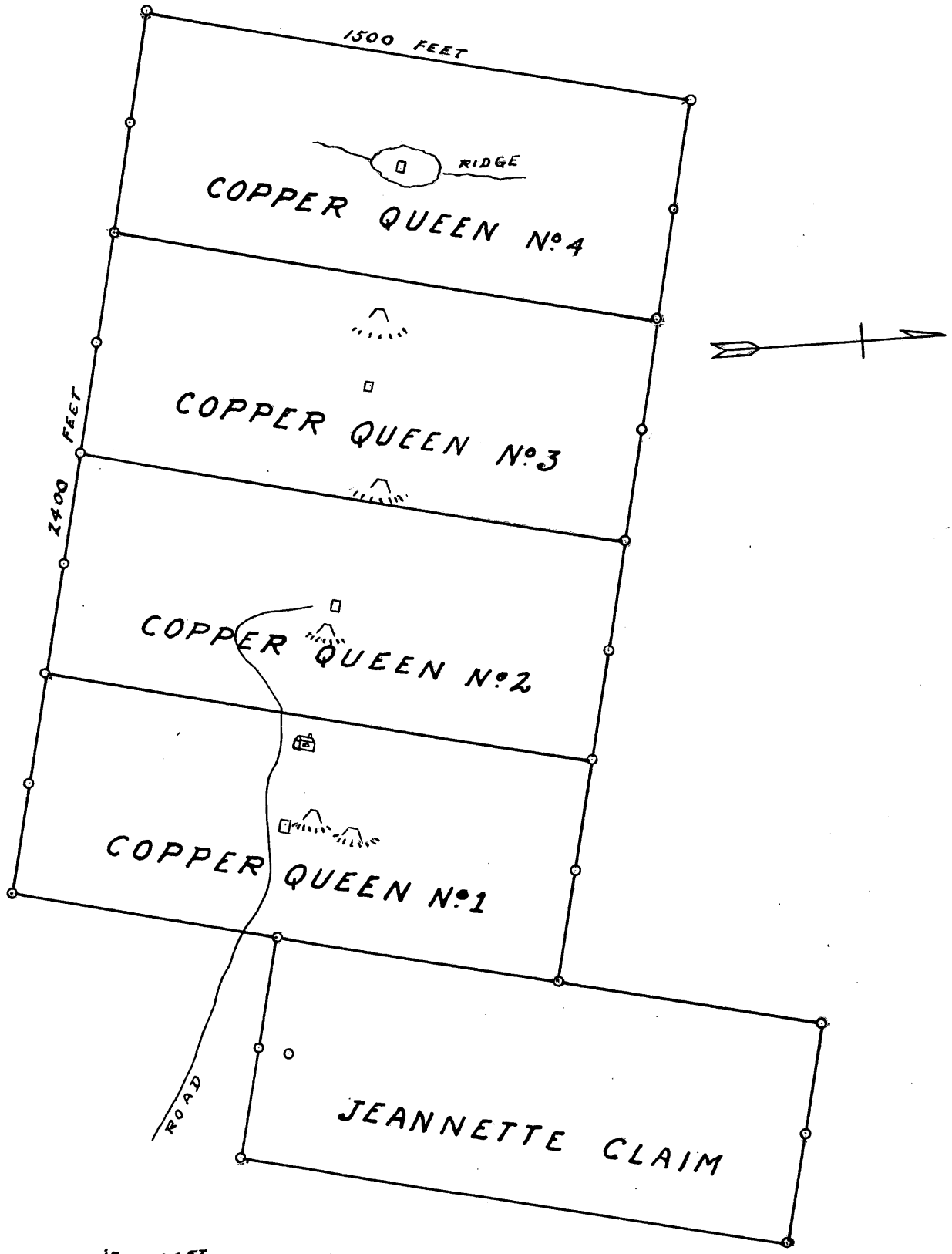
In the case of the Bronze claims I am informed by your Mr. Williams that the former locator of the claims, H. R. Adams, filed a sworn affidavit in the County Court House in San Bernardino on October 9th, 1960 stating that he had performed $500.00 in assessment work on the Live Oak claims recently relocated by yourselves as the Bronze. In his affidavit he is stated to have performed such labor by cleaning out 250 feet of the main tunnel, by retimbering and clearing the brush from the trails. While I have not seen the actual recording in San Bernardino I have examined the tunnel carefully and can find no evidence of it having been cleaned, as there is considerable loose rock lying in the drift. I was unable to establish the replacement of a single timber in the workings. As for the trails, especially the one leading to the water tunnel, no removal of brush has been accomplished nor the trail widened as claimed by the affiant. In fact it is so overgrown with brush in places as to necessitate detours. Moreover, the filing of the Proof of Labor, it is stated

NOTE: Since this report was written a title search has been made and all questions of ownership has been settled. The Bronze Group is now in operation by the Paramonnt Mining Co.



HARLEY A. SILL
CONSULTING ENGINEER

COPPER QUEEN GROUP Nos 1-4



SCALE 1 in = 400 ft

Dec. 4, 1950

COPPER QUEEN GROUP No.1-4

CONSULTING ENGINEER

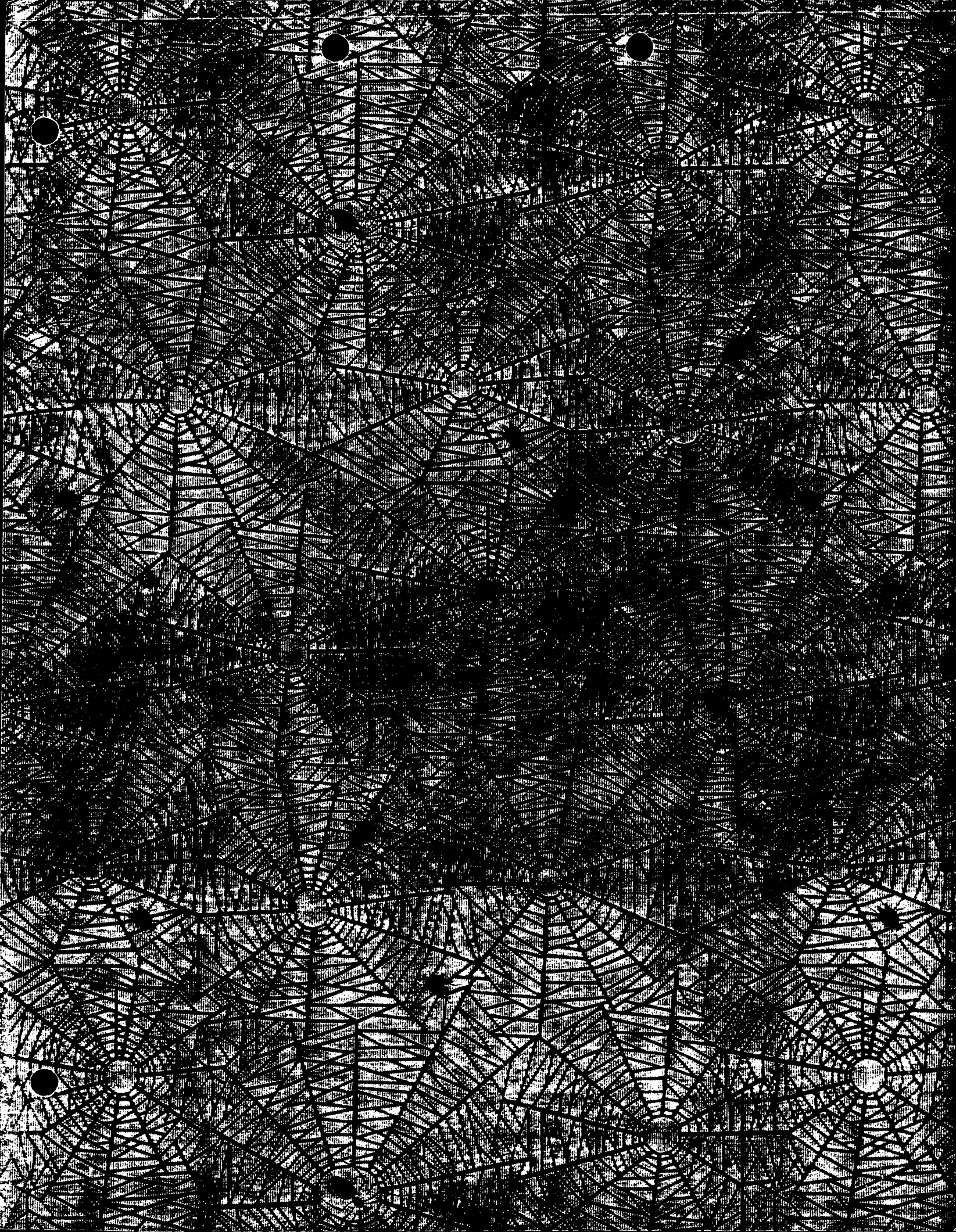
MARTIN A. SILL

SCALE 1" = 400'

DEC 4, 1920

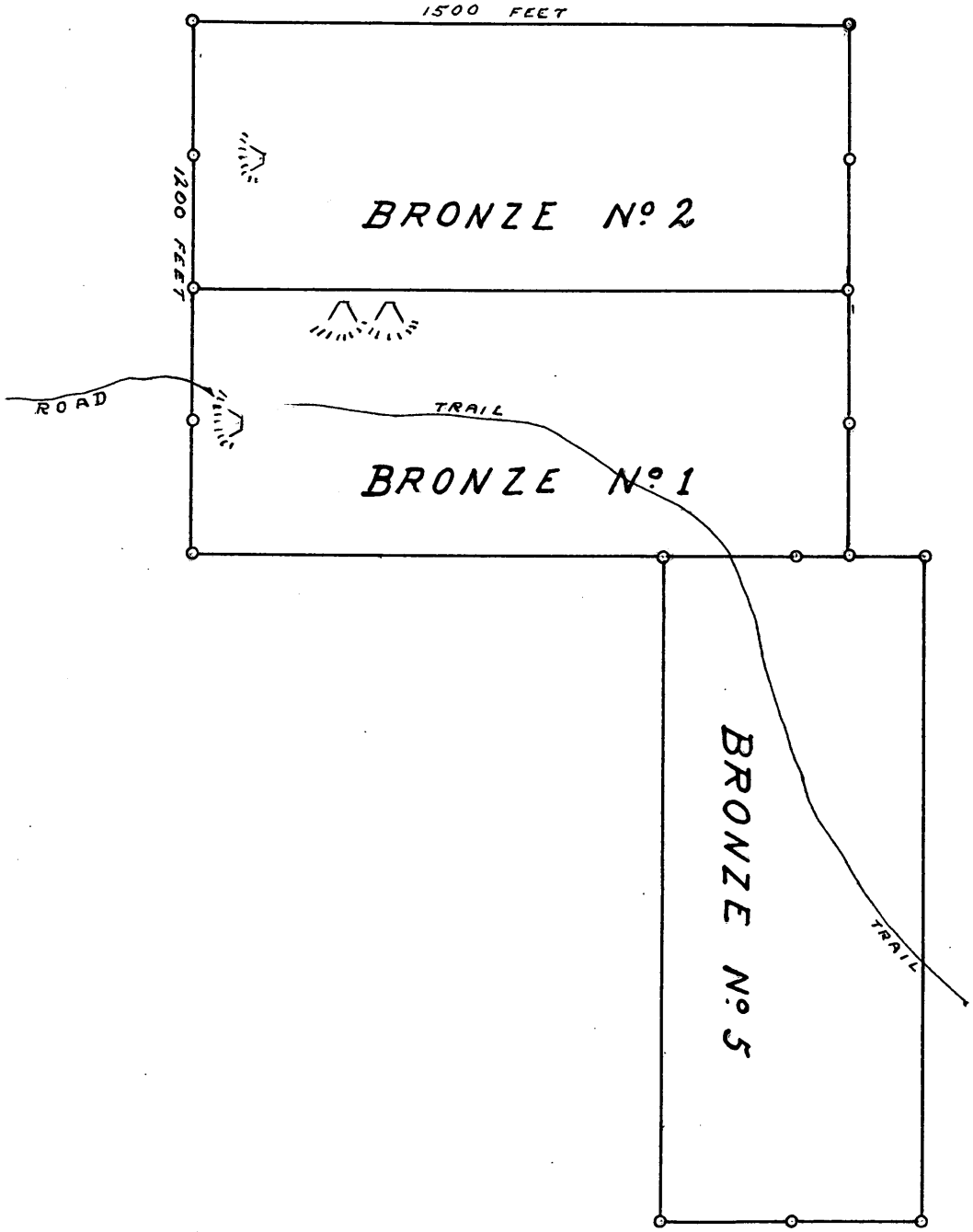
was made on October 9th, or 9 days after the expiration of the moratorium pertaining to assessment work on mining claims granted by the United States Government. Meanwhile, on October 2nd, you gentlemen, after having awaited the expiration date of October 1st for filing of the Proof of Labor for assessment work, made your locations in good faith in the belief of the abandonment of the claims by the former owner. He held them under possessory title as long as he conformed to the laws covering such mineral rights. Since you definitely located these claims after the expiration date set by law, you have definitely established an adverse claim which, in my opinion, it now becomes the duty of the former owner to contest. You have possession and are spending money on the property in accordance with the tenants of the law.

A similar cloud or adverse claim pertains to your other group of 5 claims known as the Copper Queen. On October 2nd two locators, R. E. Del Mar and Jack La Fanta state on their location notices, one of which I read, that they had erected monuments and cleared the road by bull dozing to complete the location work. There is a small tractor sitting at the end of the road near the portal of the main cross cut tunnel but it has no blade attached nor is there any evidence that they improved the road by clearing it of rocks or otherwise making it more accessible. Your Mr. Williams states their location notices were filed on the morning of October 2nd at 9 A. M. While these locators have 90 days to complete their location work and file Proof of Labor it is probable that they believe the "Window Dressing " which they have supplied by the presence of a small tractor, although it has no attachments whatsoever for performing road improvement as claimed, will suffice.



HARLEY A. SILL
CONSULTING ENGINEER

BRONZE GROUP Nos 1-2&5



SCALE 1 in = 400 FT

Dec. 4, 1950

BRONZE GROUP No 1 & 2

HARLEY A. SILL
CONSULTING ENGINEER

SCALE 1" = 400 FT

DEC 4, 1970

Again there is a cloud with an adverse claim filed by yourselves by locations made on September 23rd of this year and amended on October 1st in advance of the claim filed on the following day by the former locators.

While it is my opinion that neither of these contestants has any legal right to these properties and my further belief that their only claim is one of a nuisance value, still I believe that you should consult a reputable mining lawyer and ask him to advise you as to your proper procedure. It is a matter of record in the County Court House in San Bernardino that the notices of location were made on October 2nd, the location work performed and a sworn affidavit filed in San Bernardino at 9 o'clock in the morning of the same day. It should be noted that San Bernardino is some four hours ride by motor car from the property and this is apparently the fastest means of transportation between the two points. This affidavit, if true, would probably establish a record for locating and completing location work as specified and appearing in such a distant locality at the opening hour of the County Court House in San Bernardino.

MINE DEVELOPMENT

The formations that occur on the Bronze and Copper Queen groups are gneissoid granite and a grayish white metamorphic limestone. The ore occurs on the contact of the granite and limestone. The valuable minerals are gold, silver,zinc both in an oxidized and sulphide condition, copper also in both oxidized and sulphide form and scheelite in a quartz gangue associated with fluorite and a high percentage of iron. The iron, as in the case of the zinc and copper occurs as an oxide and sulphide. The sulphides are pyrite and the copper in its sulphide form occurs as chalcopyrite with an occasional showing of bornite. Three other copper

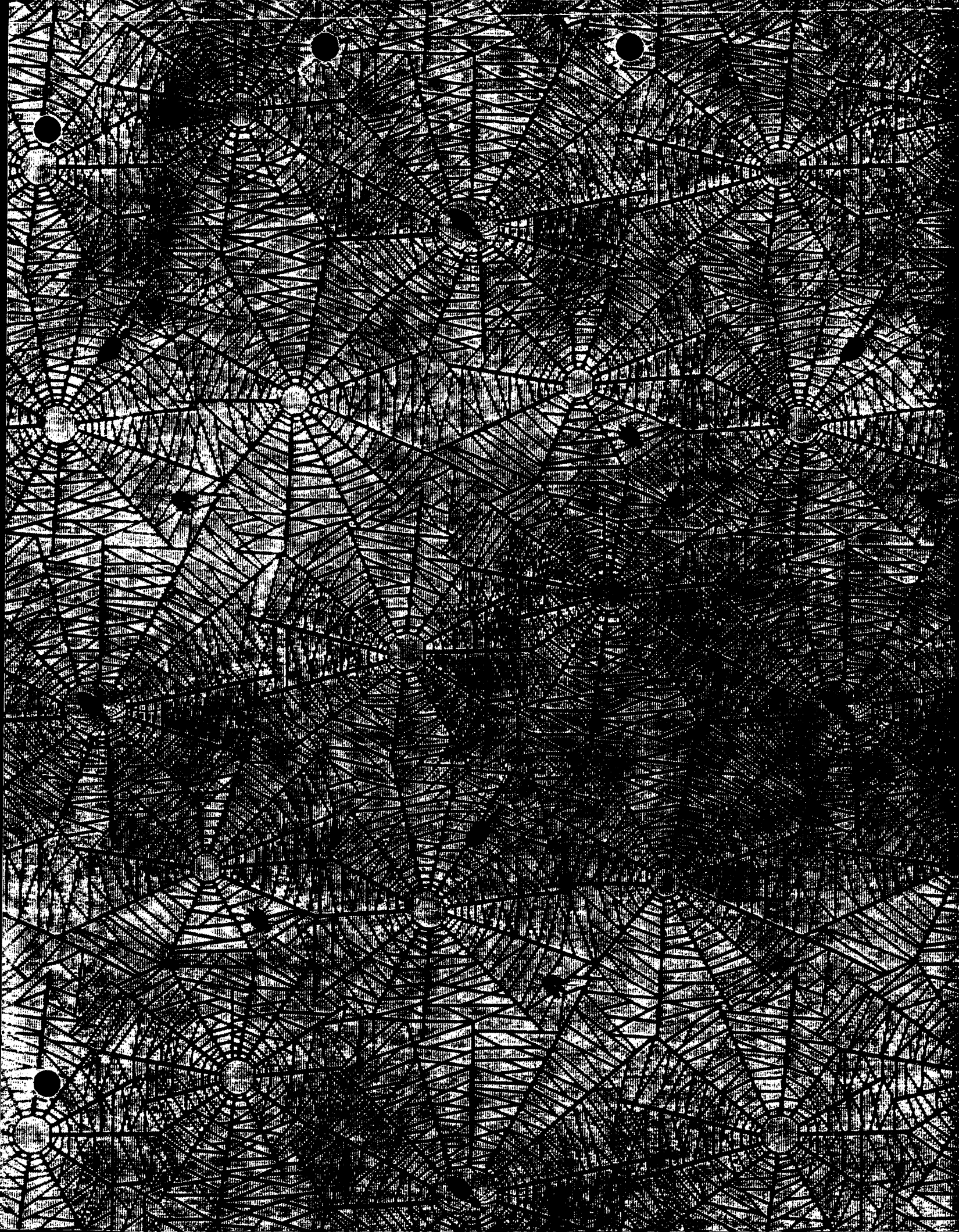
minerals were identified, malachite, the green carbonate of copper, azurite, the blue carbonate of copper, and chrysocolla, the silicate of copper. At some places in the claims, especially in the Bronze, there has been some brecciation with the fragments cemented with iron and calcite, a little dolomite and some quartz.

COPPER QUEEN GROUP

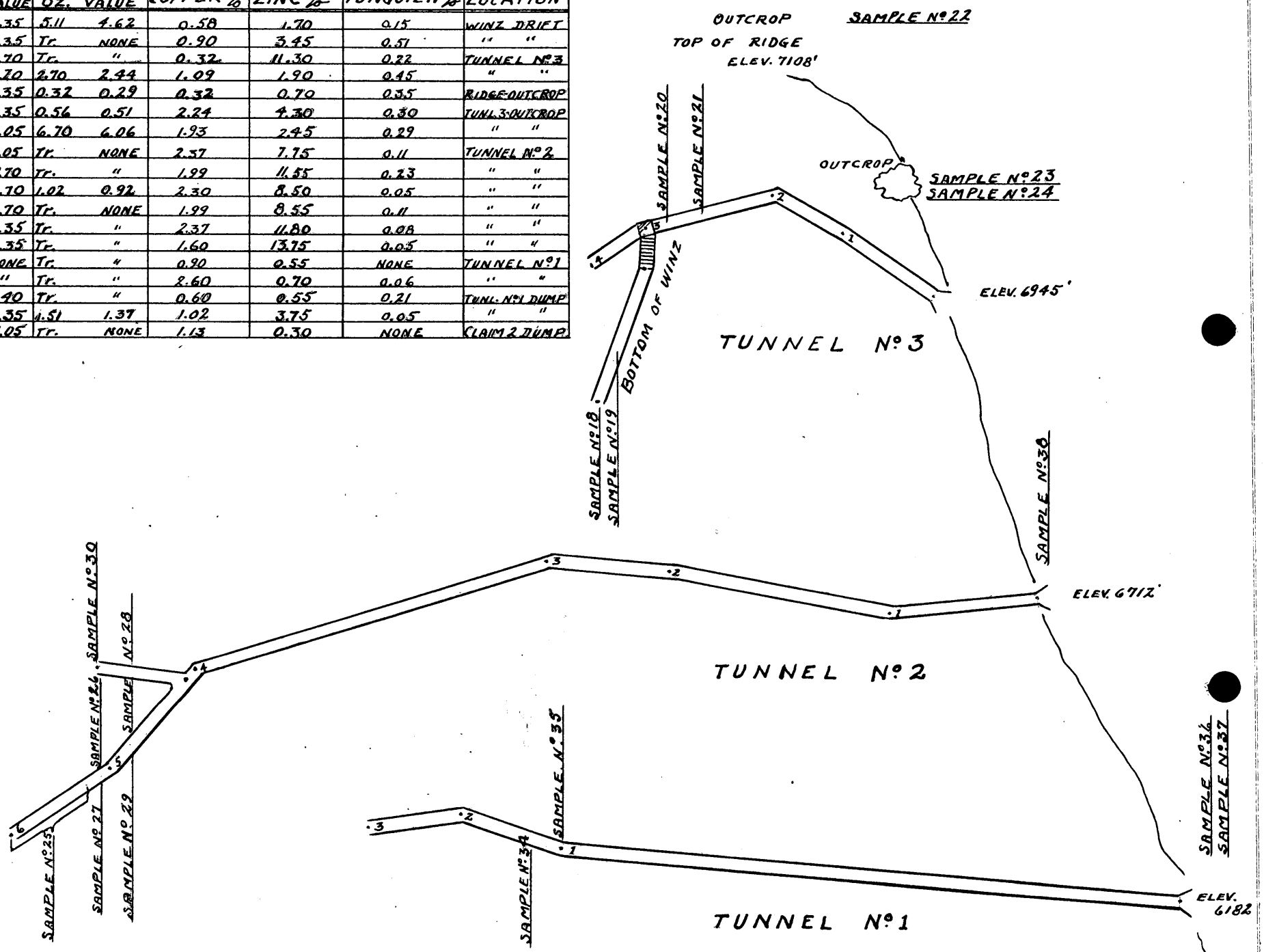
The Copper Queen group is developed by three cross cut tunnels with some drifting on the vein at the different horizons. The Upper Tunnel, which is on Claim #3 is located near the ridge on the Eastern flank of the New York Mountains at an elevation of 6945 feet. The elevation of the discovery monument at the crest of the ridge is 7100 feet. The ridge is covered by Claim #4. No work is done on this claim but a good mineralization is in evidence at the discovery monument. This ores hows a tungsten content under the lamp. The horizontal distance between the Upper Tunnel on Claim #3 and the ridge on Claim #4 is approximately 300 feet. Between the Upper tunnel and the ridge but in closer proximity to the tunnel there is a very strong outcropping whose entire width could not be ascertained. However, it shows an ore exposure of 11 feet. Two samples were taken from this exposure at a point 30 feet up the hill from the Upper Tunnel. One samplr represents the hanging wall section while the other was taken from the footwall. The Upper Tunnel, as well as the others is a crosscut to the ore which it reaches at a distance of 60 feet from the portal. The length of the tunnel is 88 feet. At a point 73 feet from the portal a winze inclined at approximately 75° from the horizontal is sunk 36 feet in the mineralization. At its bottom a drift has been driven 32.9 feet on a strike of S 70°E. The mineralization in the winze and drift is broken and mixed with waste. A series

of two samples was taken in the drift at the bottom of the winze. At 68 feet from the portal a sample was taken in the drift over a width of 6 feet and another at 60 feet from the portal which concluded the sampling at this horizon. From the outcropping up the hill starting at about 30 feet from the crosscut it would appear that a stronger mineralization occurs at the higher elevation approaching the crest of the ridge. No work has been done on this ore in the upper workings. However, in my opinion, it might provide fertile ground for prospecting. A longer crosscut tunnel has been driven at an elevation of 6712 feet which is 233 feet vertically below the upper workings just described. The tunnel is driven as a crosscut 254 feet to the present face. The first 220 feet are entirely in waste. At this point a strong mineralization was encountered. A short branch tunnel was driven on the ore for 20 feet. In the main drift from a point 220 feet from the portal to the face, a distance of 34 feet the broken ore has been thrown back until it fills the drift to a depth of about 3½ feet. This precluded a sampling at the face and instead a sample of the broken ore was substituted. At 230 feet from the portal a sample was cut to the hanging wall section of the vein over a width of 3.2 feet. A sample was taken at this same station of the footwall section over a width of 6 feet. A second sample was taken 10 feet nearer the portal. This sample was taken in two sections. The hanging wall sample measured 3.5 feet and the footwall 5.8 feet. A final sample of the ore showing in this tunnel was taken in the branch drift at its face, 240 feet from the portal. The width of this sample was 4 feet.

The main cross cut tunnel is driven on Claim #2 at an elevation



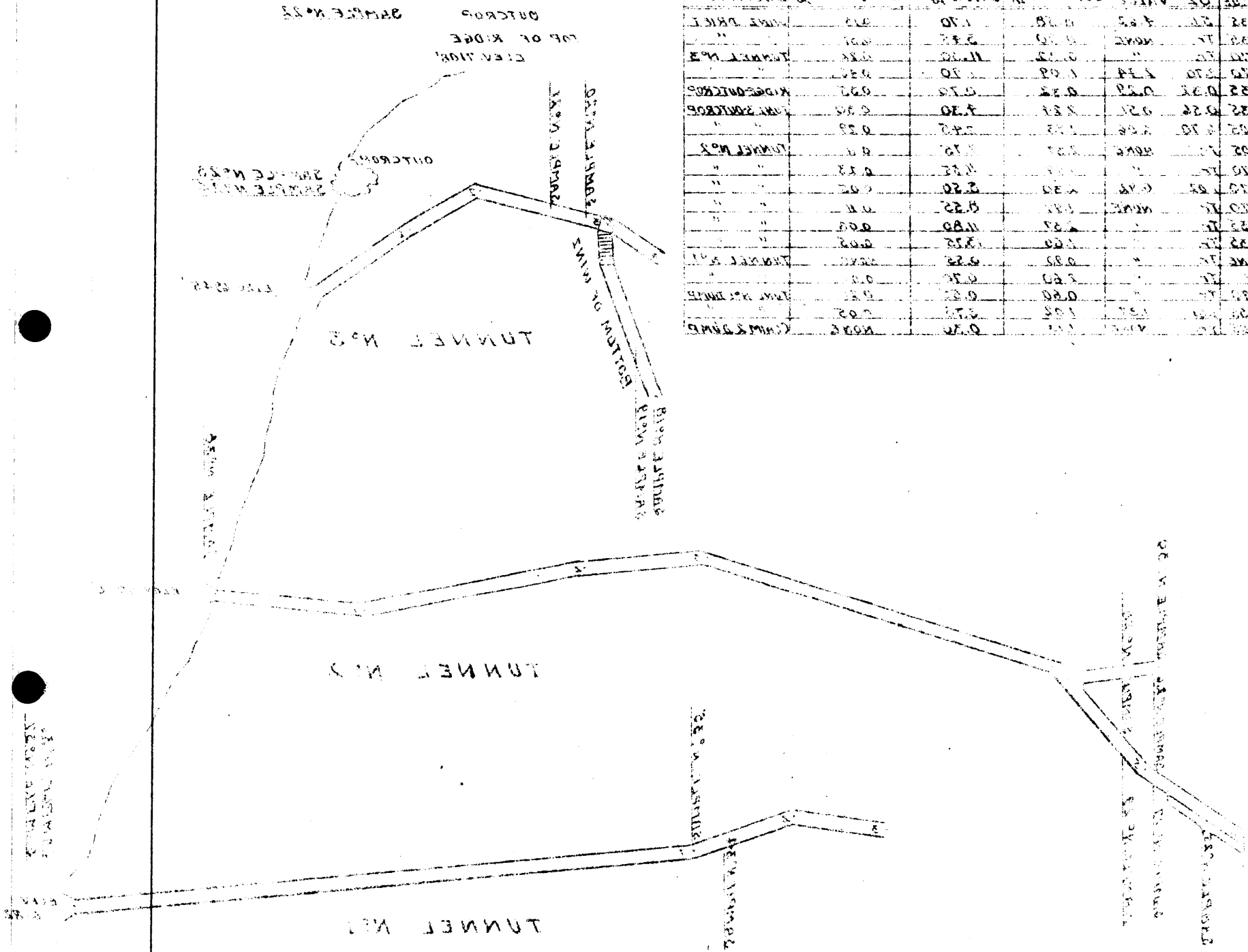
SAMPLE Nº	GOLD OZ.	GOLD VALUE	SILVER OZ.	SILVER VALUE	COPPER %	ZINC %	TUNGSTEN %	LOCATION
18	.01	0.35	5.11	4.62	0.58	1.70	0.15	WINZ DRIFT
19	.01	0.35	Tr.	NONE	0.90	3.45	0.51	" "
20	.02	0.70	Tr.	"	0.32	11.30	0.22	TUNNEL Nº3
21	.02	0.70	2.70	2.44	1.09	1.90	0.45	" "
22	.01	0.35	0.32	0.29	0.32	0.70	0.35	RIDGE-OUTCROP
23	.01	0.35	0.56	0.51	2.24	4.30	0.30	TUNL.3-OUTCROP
24	.03	1.05	6.70	6.06	1.93	2.45	0.29	" "
25	.03	1.05	Tr.	NONE	2.37	7.75	0.11	TUNNEL Nº2
26	.02	0.70	Tr.	"	1.99	11.55	0.23	" "
27	.02	0.70	1.02	0.92	2.30	8.50	0.05	" "
28	.02	0.70	Tr.	NONE	1.99	8.55	0.11	" "
29	.01	0.35	Tr.	"	2.37	11.80	0.08	" "
30	.01	0.35	Tr.	"	1.60	13.75	0.05	" "
34	Tr.	NONE	Tr.	"	0.90	0.55	NONE	TUNNEL Nº1
35	Tr.	"	Tr.	"	2.60	0.70	0.06	" "
36	.04	1.40	Tr.	"	0.60	0.55	0.21	TUNL. Nº1 DUMP
37	.01	0.35	1.51	1.37	1.02	3.75	0.05	" "
38	.03	1.05	Tr.	NONE	1.13	0.30	NONE	CLAIM 2 DUMP



HARLEY A. SILL
CONSULTING ENGINEER

COPPER QUEEN TUNNELS

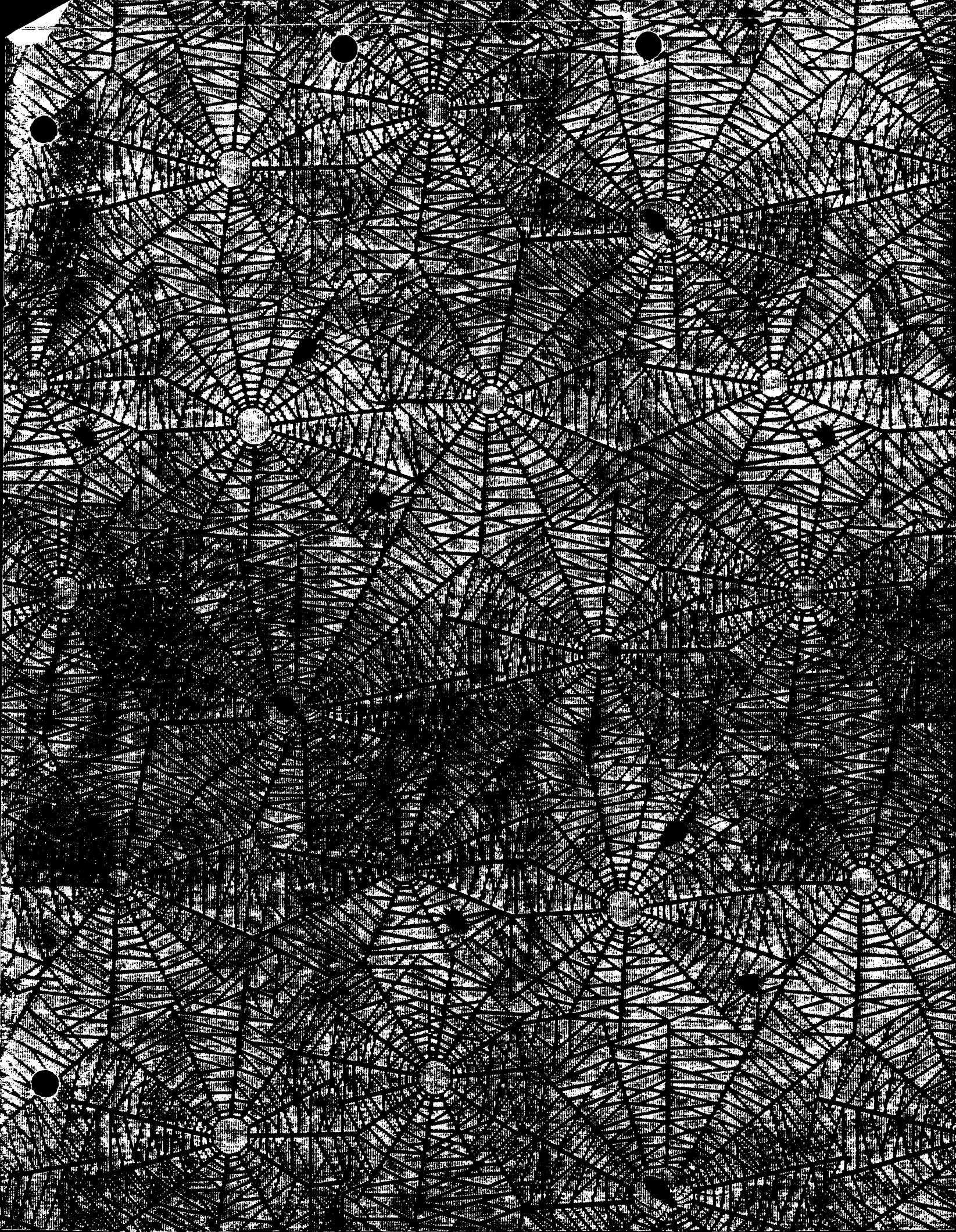
Sample No.	Gold oz/ton	Silver oz/ton	Copper %	Zinc %	Tunnel No. & Location
18	0.01	0.35	4.42	0.18	1.70	Tunnel Price
19	0.01	0.35	Trace	None	3.45	"
20	0.02	0.10	"	"	11.30	Tunnel No. 3
21	0.02	0.10	2.70	2.14	1.09	1.20	"
22	0.01	0.35	0.36	0.29	0.36	0.72	Ridge Outcrop
23	0.01	0.35	0.56	0.52	2.84	4.30	Tun. Southern
24	0.03	1.05	0.70	0.06	1.03	3.45	"
25	0.01	1.05	Trace	None	0.07	0.70	Tunnel No. 2
26	0.02	0.10	Trace	"	0.07	0.33	"
27	0.02	0.10	0.02	0.14	2.30	5.50	"
28	0.02	0.10	Trace	None	0.07	0.55	"
29	0.01	0.35	Trace	"	2.37	11.80	"
30	0.01	0.35	Trace	"	1.60	3.25	"
31	Trace	None	Trace	"	0.82	0.55	Tunnel No. 1
32	Trace	"	Trace	"	1.60	0.70	"
33	0.04	0.10	Trace	"	0.60	0.25	Tun. Northern
34	0.01	0.35	Trace	0.27	1.02	3.75	"
35	0.03	1.05	Trace	None	0.30	None	Cham. Lump



COPPER QUEEN TUNNELS

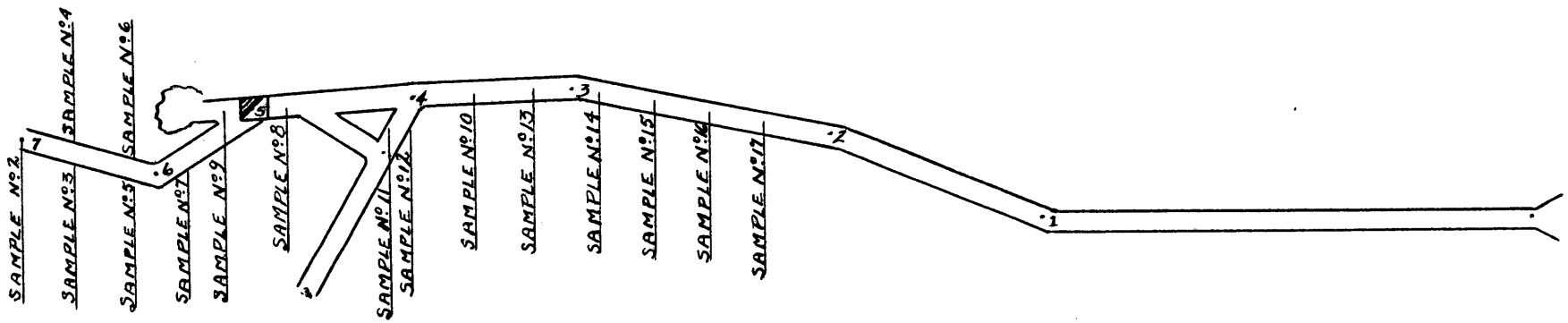
HARLEY A. SILL
CONSULTING ENGINEER

of 6182 feet. This tunnel is inaccessible beyond a point 287 feet from the portal. The timbers are broken completely and the tunnel filled for an indeterminate distance. However, there is evidence that ore was encountered at some point beyond the present caved face because there is an ore dump of perhaps 200 tons near the portal. Since no drifting or stopeing was done on the other two mineralizations at 97 and 142 feet respectively from the portal the ore must have come from some working beyond the present point of accessibility. Ninety seven feet in the tunnel there is a quartz mineralization 9 feet in width which is heavily impregnated with very coarse pyrite. Some of the crystals approach an inch in size. It is doubtful whether this mineralization is in commercial ore. However, no sampling was done to evaluate this quartz showing. Some 45 feet beyond this point another mineralization was encountered which has considerable copper in a quartz gangue with the presence of fluorspar indicated in a small degree. Throughout the various workings the presence of fluorspar has indicated its association with scheelite. However, its absence does not preclude the presence of tungsten. A very large number of tests with the Fluorescent Lamp has shown tungsten occurring with other minerals such as quartz, iron and zinc. It is often found in granite without any associated minerals. In the vein cut at 142 feet from the portal it appears to have been penetrated near the top of an ore body because at the back of the drift there is but a narrow band of mineral which rapidly widens to 5 feet as it reaches the floor. This vein has an apparent width of 14 feet although there are spots of lower grade ore or waste which would preclude this being considered as a solid body of ore in the tunnel. If the floor of the drift alone was



HARLEY A. SILL
CONSULTING ENGINEER

SAMPLE Nº	GOLD OZ.	GOLD VALUE$	SILVER OZ.	SILVER VALUE$	COPPER%	ZINC%	TUNGSTEN%	LOCATION
1	Tr.	NONE	1.27	1.15	NONE	0.85	0.12	DUMP-TUNNEL 2
2	Tr.	"	0.63	0.57	"	0.80	0.10	TUNNEL Nº1
3	Tr.	"	0.14	0.13	0.19	1.55	1.00	" "
4	Tr.	"	0.11	0.10	0.19	9.15	1.39	" "
5	Tr.	"	0.18	0.16	0.26	3.35	Tr.	" "
6	Tr.	"	0.09	0.08	0.84	5.20	0.13	" "
7	Tr.	"	Tr.	NONE	0.51	1.40	0.37	" "
8	Tr.	"	1.03	0.93	2.50	5.00	0.10	" "
9	Tr.	"	Tr.	NONE	0.39	0.55	Tr.	" "
10	Tr.	"	1.12	1.01	0.51	1.00	0.11	" "
11	Tr.	"	1.08	0.98	0.58	1.45	0.06	" "
12	.01	0.35	1.84	1.66	1.93	8.80	0.33	" "
13	.01	0.35	1.66	1.50	0.64	2.90	0.30	" "
14	.04	1.40	Tr.	NONE	0.71	3.90	0.05	" "
15	.07	2.45	Tr.	"	0.32	1.05	0.11	" "
16	.02	0.70	0.37	0.33	0.26	1.75	0.06	" "
17	.26	9.10	1.55	1.40	0.32	2.05	0.06	" "
31	Tr.	NONE	Tr.	NONE	0.19	0.45	NONE	GULCH TUNNEL
32	Tr.	"	Tr.	"	2.30	0.70	0.16	" "
33	.01	0.35	0.96	0.87	0.78	4.25	0.11	DUMP-CLAIM



TUNNEL Nº1

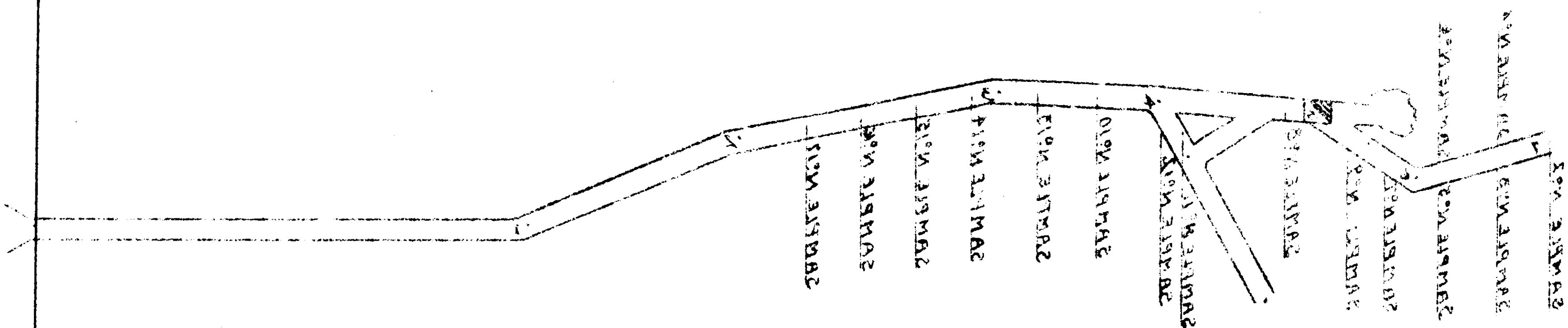
SCALE 1" = 30 FT.

Dec. 4, 1950

BRONZE TUNNEL

HARLEY A SILL
CONSULTING ENGINEER

Sample No.	Gold		Silver		Copper %	Zinc %	Tungsten %	Location
1	[illegible]	None	[illegible]	[illegible]	None	[illegible]	0.2	Dump-Tunnel #1
2	Tr	"	0.43	0.37	"	0.80	0.10	Tunnel #1
3	Tr	"	0.29	[illegible]	0.19	1.52	1.00	" "
4	Tr	"	[illegible]	0.60	0.19	2.15	1.29	" "
5	Tr	"	[illegible]	0.16	0.26	3.35	Tr	" "
6	Tr	"	[illegible]	0.08	0.84	2.20	0.13	" "
7	Tr	"	Tr	None	0.32	1.40	0.17	" "
8	Tr	"	1.03	0.93	2.50	5.00	0.10	" "
9	Tr		Tr	None	0.39	0.55	Tr	" "
10	Tr		[illegible]	1.01	0.51	1.00	0.11	" "
11	Tr	"	[illegible]	0.92	0.58	1.45	0.06	" "
12	[illegible]	0.35	1.84	1.66	1.75	8.80	0.33	" "
13	[illegible]	0.32	[illegible]	1.50	0.64	2.90	0.80	" "
14	[illegible]	[illegible]	Tr	None	0.71	3.90	0.05	" "
15	.07	[illegible]	Tr	"	0.32	1.05	0.11	" "
16	.02	0.70	0.37	0.55	0.26	1.75	0.06	" "
17	.26	9.10	[illegible]	1.40	0.32	2.05	0.06	" "
31	Tr	None	Tr	None	0.19	0.45	None	Lunch Tunnel
32	Tr	"	Tr	"	2.50	0.70	0.16	" "
33	[illegible]	0.35	0.94	0.87	0.70	4.25	0.11	Dump-Claim



TUNNEL No.1

SCALE 1" = 30'

BRONZE TUNNEL

DEC. 4, 1950

considered it might approach a continuous mineralization of 14 feet but near the roof of the drift there are numerous ore stringers from an inch to a foot in width with the intermediate areas filled with waste.

BRONZE TUNNEL

The Bronze group of 3 claims side lines the Copper Queen claims. The principal development consists of a cross cut tunnel driven approximately 140 feet in limestone or waste. Since the mineralization in the Bronze, as well as the Copper Queen, occurs on the contact between limestone and granite the tunnels were driven as crosscuts in limestone to reach the granite. Such is the case with the Bronze. Its main tunnel is 278 feet in length. It is driven at an elevation of 5877 feet. At 220 feet from the portal an incline winze has been sunk at approximately 75° from the horizontal and is reported to have reached a depth of 48 feet. It is impossible to confirm this because the winze is partially filled with water. However, other measurements made during some previous epoch coincide so closely with my own that I can give some credence to the reported depth. The winze has been sunk in a broad mineralization which exceeds 10 feet in width. Some 5 feet back of the winze is a stope approximately 50 feet in height which has been driven apparently on a hydrozincite portion of the vein. Unfortunately it is inaccessible. At 200 feet from the portal a short cross cut has been driven 38.5 feet with a strike of S 65°W. At a point 11 feetin the cross cut from the main drift a short parallel drift has been driven S 20°W for 20 feet to a small water dam. This branch connects with the main tunnel with just an ore pillar between. The greatest width of ore seems to be in the vicinity of the winze and further back to a distance of 270 feet from the portal. At this point the vein seems to be leaving the drift and going into the

North wall. Sampling was conducted every 10 feet for a distance of 130 feet. The sampling started at 270 feet from the portal and carried to a point 140 feet from it. When the mineralization attained a width of 10 feet or more the vein was sampled in two sections, one on the hanging wall and the other on the footwall. A Fluorescent Lamp was utilized as an adjunct to the cut samples and it showed a continuity of scheelite for the entire length of the ore body. Hydrozincite also showed strongly in places. Throughout the area just described the sampling was made from a minimum of 4 feet to a maximum in excess of 15 feet.

The only other development of consequence in the Bronze group is in the so called Gulch tunnel on the side lines of No.1 and # 2 claims. On this claim there is a cross cut 45 feet in length driven S 10°W. At a point 30 feet in from the portal the vein was encountered. The drift was driven 40.8 feet on a strike N 80°W. The ore in this working is white quartz heavily impregnated with pyrite and some chalcopyrite.

The above described development on the Copper Queen and Bronze groups completes the workings on these properties except for a short water tunnel on the Copper Queen near the former owner's house and other inconsequential operations.

WATER

A little water has been developed in the granite on both the Copper Queen and Bronze but it is only enough to supply modest domestic requirements. In my opinion, it is extremely doubtful whether water could be developed for mining and milling purposes on these claims. However, at Barnwell about 5 miles easterly a good mill site could be made available. Wells functioning in that area indicate that ample water could be provided for a milling operation such as you contemplate.

CONCLUSIONS AND RECOMMENDATIONS

Your mineral holdings should be considered as two separate groups even though their end and side lines are nearly contiguous. The two groups are similar in their mineralization as they both show values in tungsten, copper and zinc together with some gold and silver. The above minerals in both properties are associated with fluorspar. There is apparently more copper in the Copper Queen Claims. However, the appearance may be due, partially at least, to the fact that there is a greater degree of oxidation of the copper minerals at that horizon. At least four such minerals have been identified in the Copper Queen ores. They are chalcopyrite, malachite, azurite and chrysocolla. The development work so far accomplished has been performed for the greater part in the country rock which is limestone. In the Upper Tunnel of the Copper Queen only 20 feet of work has been done in ore along the drift. In the middle crosscut the mineralization has been opened only 34 feet and in the Lower Tunnel no workings in ore are available for inspection although, apparently some drifting has been done in ore as evodenced by a few hundred tons of rock on the dump. The above measurements do not delineate the ore bodies but show the present limits of ore developed. It should be borne in mind that there is a vertical distance of 763 feet between the Upper and Lower tunnels on the Copper Queen and that a similar character of ore exists in all three workings. Thus there is reason to believe that there may be a vertical continuity of ore for at least that distance with a probability of a vertical extension above the Upper Tunnel toward the crest of the ridge and a downward continuity below the present main

cross cut tunnel. There seems to be some variation in the strike of the ore and also its dip. This may lead to bulges and pinches in the ore. This would probably be due,in part at least, to the nature of the country rock which is a contact between granite and limestone. In the short shoots of ore now evident in the various workings apparently the ore does not always make on the contact but sometimes in the granite itself.

I believe that a limited development program is justified and that it should be initiated by,

1) Retimbering the main crosscut on the Copper Queen and that the tunnel then be cleaned out in preparation for a continuation of the drift on the vein in the Cross cut and that preparations be made for upraising on the ore thus defined toward the middle or No.2 Crosscut. Simultaneously, some drifting should be done in both directions on the mineralization showing in the Cross cut at 142 feet from the portal. I further suggest that the water be pumped out of the winze on the Bronze Claim and that further development work be done both laterally and vertically in this area. The winze is located in a wide mineralization and the above suggested work would prove the continuity of the values in this ore body.

This suggested development program is predicated on a satisfactory solution to the possessory rights on both of these groups.

The ores of these properties, as intimated in the text of my findings, are complex and thus present the necessity for some detailed metallurgical research to satisfactorily segregate and save the various valuable constituents of your ore. It is not sufficient to merely develop ore reserves. It is equally important to be able to successfully beneficiate those ores into a successful metallurgical and financial balance sheet.

Your ore is composed of several valuable minerals. At least two of these minerals, copper and zinc, occur in multiple forms which adds to the difficulty of their satisfactory recovery. The tungsten seems to be disseminated throughout the greater part of your ore. It occurs as a scheelite or calcium tungstate. In order to make this a saleable product it should be concentrated to at least 60% tungstic acid and be copper free. The gold and silver in your ore add to the complexity of your problem. Therefore, the metallurgy of your ore should be considered in the over all picture of your problem. Unless an economic and satisfactory saving can be made of the valuable constituents of your ore it would be useless to develop ore reserves because you are too remote from rail transportation and the metal markets to make your ore valuable except by concentration through the agency of some form of milling or a combination of such agencies into a smoothly functioning metallurgical unit.

It is my opinion that you are justified in undertaking a development on your holdings and that you have a reasonable chance for success if you carry out your development, operation and milling program to fulfillment. However, I wish to again impress on you the fact that your metallurgical problem is one of complexity not only on account of the number of valuable minerals in your ore but because of the manner in which they occur. You have both oxidized and sulphide minerals in your copper, zinc and iron. This mixture together with the gold and silver also tungsten makes the ore one of real complexity. Its treatment will require talent, experience and concentrated study before its amenability to segregation and recovery can be established.

Harley R. Gill
Consulting Engineer

SAMPLE DESCRIPTION	GOLD Ounces	GOLD Value	SILVER Ounces	SILVER Value	% Copper	% Zinc	% Tungsten Oxide
1. Ore on dump from tunnel #2 on Bronze Claim	Trace	None	1.27	$1.15	None	0.85	0.12
2. Cut 270' from portal width 17". Vein apparently leaves drift here	Trace	None	0.63	0.57	None	0.80	0.10
3. Bronze tunnel #1 260' from portal width 6' footwall section	Trace	None	0.14	0.13	0.19	1.55	1.00
4. Bronze tunnel #1 H.W. section width 42"	Trace	None	0.11	0.10	0.19	9.15	1.39
5. Bronze tunnel #1 250' from portal F. W. section width 6'	Trace	None	0.18	0.16	0.26	3.35	Trace
6. Bronze tunnel #1 250' from portal H. W. section width 9'	Trace	None	0.09	0.08	0.84	5.20	0.13
7. Bronze tunnel #1 240' from portal F. W. only width 9'	Trace	None	Trace	None	0.51	1.40	0.37
8. Bronze tunnel #1 220' from portal across back at winze width 9.6'	Trace	None	1.03	0.93	2.50	5.00	0.10
9. Bronze tunnel #1 parallel drift back of winze width 6'	Trace	None	Trace	None	0.39	0.55	Trace
10. Bronze tunnel #1 187' from portal width 5.9'	Trace	None	1.12	1.01	0.51	1.00	0.11
11. X cut connecting main drift to parallel west side width 6'	Trace	None	1.08	0.98	0.58	1.45	0.06
12. E side X cut between main and parallel drift width 6'	0.01	0.35	1.84	1.66	1.93	8.80	0.33
13. Bronze tunnel #1 177' from portal width 5.2'	0.01	0.35	1.66	1.50	0.64	2.90	0.30
14. Bronze tunnel #1 167' from portal width 5.3'	0.04	1.40	Trace	None	0.71	3.90	0.05
15. Bronze tunnel #1 157' from portal width 4.2'	0.07	2.45	Trace	None	0.32	1.05	0.11
16. Bronze tunnel #1 147' from portal width 4.2'	0.02	0.70	0.37	0.33	0.26	1.75	0.06
17. Bronze tunnel #1 137' from portal width 4'	0.26	9.10	1.55	1.40	0.32	2.05	0.06
18. Face of drift bottom 36' winze width 5.5' Copper Queen Upper Tun	0.01	0.35	5.11	4.62	0.58	1.70	0.15
19. Copper Queen Upper Tunnel 10' from face bottom of winze width 6.1'	0.01	0.35	Trace	None	0.90	3.45	0.51

SAMPLE DESCRIPTION	GOLD Ounces	GOLD Value	SILVER Ounces	SILVER Value	% Copper	% Zinc	% Tungsten Oxide
20.Cppper Queen Upper Tunnel 5' toward portal from top of winze width 6'	0.02	$0.70	Trace	None	0.32	11.30	0.22
21.Copper Queen Upper Tunnel 60' from portal width 6'	0.02	0.70	2.70	2.44	1.09	1.90	0.45
22.Outcrop top ridge E. 7108'	0.01	0.35	0.32	0.29	0.32	0.70	0.35
23.Outcrop 30' up hill from Upper Tunnel Copper Queen H.W. width 5.8'	0.01	0.35	0.56	0.51	2.24	4.30	0.30
24.Same as above F.W. width 5'	0.03	1.05	6.70	6.06	1.93	2.45	0.29
25.Copper Queen #2 254' from portal 20' from face grab	0.03	1.05	Trace	None	2.37	7.75	0.11
26.Copper Queen #2 or middle tunnel 230' from portal H. W. section 3.2'	0.02	0.70	Trace	None	1.99	11.55	0.23
27.Copper Queen #2 230' from portal F. W. section 6'	0.02	0.70	1.02	0.92	2.30	8.50	0.05
28.Copper Queen #2 220' from portal H. W. section 3.6'	0.02	0.70	Trace	None	1.93	8.55	0.11
29.Copper Queen #2 220' from portal F. W. section 5.8'	0.01	0.35	Trace	None	2.37	11.80	0.08
30.Copper Queen #2 face of branch drift 35', 235' from portal 4'	0.01	0.35	Trace	None	1.60	13.75	0.05
31.Gulch Tunnel #1 and #2 face drift 48' from X cut width 4'	Trace	None	Trace	None	0.19	0.45	None
32.Gulch tunnel side line between Bronze 1-2 in drift 3.8'	Trace	None	Trace	None	2.30	0.70	0.16
33.Dump Bronze claim	0.01	0.35	0.96	0.87	0.78	4.25	0.11
34.Copper Queen main X cut 150' from portal width 3.4'	Trace	None	Trace	None	0.90	0.55	None
35.Copper Queen main X cut 142' from portal w side width 4.6'	Trace	None	Trace	None	2.60	0.70	0.06
36.Dump sample at main X cut Copper Queen # 2	0.04	1.40	Trace	None	0.60	0.55	0.21
37.General ore dump sample main X cut Copper Queen	0.01	0.35	1.51	1.37	1.02	3.75	0.05
38.Dump sample Claim #2 Copper Queen	0.03	1.05	Trace	None	0.13	0.30	None