FILE COPY
SURNAME:

Corbett
Gammell

500

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

MAR 3 1953

Mr. Robert M. Gammell, Manager
Bismarck Mining Company
P. O. Box 809
Kellogg, Idaho

Re: Docket No. DMEA-2540 (Lead-Copper)
Bismarck Mining Company
Shoshone County, Idaho

J.C. 3/3/53

Dear Mr. Gammell:

Please be informed that your application for Government assistance in exploring your property will be considered inactive, as you have requested.

If, in the future, you wish to revive your application, your request to do so will be considered at that time.

Sincerely yours,

C. O. Mittendorf (for)
Administrator

FXCorbett/bjl (written 2/27/53)

Copy to: Docket
Admr. R. File
Op. Committee
Base Metals
Mr. Kinkel
Mr. Bishop
Region II (2)
Chron.

DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMEA ~~DMA~~ Docket No. 2540

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

EXPLORATION PROJECT

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 Copies to USBM, and USGS.
One copy was retained by Region II.

To:	Code 500, Rm. 2614	Date	5-20-52
To:	Op Com	Date	7-7-52
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	

DO NOT DETACH

CONTROLLED DOCUMENT

FILE COPY
SURNAME:

Corbett
Griswold

500

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

MAR 3 1953

Memorandum

To: Administrator

From: Chief, Base Metals Division J.C. 3/3/53

Subject: Withdrawal of Application, Docket No. DMEA-2540 (lead-copper)
Bismarck Mining Company, Shoshone County, Idaho

The application for Government assistance in the case of this property has been placed on the inactive list at the request of the Applicant, Mr. Robert M. Gammell.

Mr. Gammel has failed to reach a working agreement with the Sunshine Mining Company by which they would participate on an equal basis with the Bismarck Mining Company in the project.

The application may be revived later when the Sunshine Mining Company has completed its own exploration programs and when its facilities are not taxed to the limit of their capacity.

/s/ BJL
W. R. Griswold

FXCorbett/bjl (written 2/27/53)

Copy to: Docket
Admr. R. File
Op. Committee
Base Metals
Mr. Kinkel
Mr. Bishop
Region II (2)
Chron

NON-PRIVILEGED DOCUMENT

TO BE PHOTOCOPIED AND PRODUCED

DO NOT CODE

BATES NO. USGS100000381

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

500

Memorandum

To: Administrator MAR 3 1953

From: Chief, Base Metals Division

Subject: Withdrawal of Application, Docket No. DMEA-2540 (lead-copper)
Bismarck Mining Company, Shoshone County, Idaho

The application for Government assistance in the case of this property has been placed on the inactive list at the request of the Applicant, Mr. Robert M. Gammell.

Mr. Gammel has failed to reach a working agreement with the Sunshine Mining Company by which they would participate on an equal basis with the Bismarck Mining Company in the project.

The application may be revived later when the Sunshine Mining Company has completed its own exploration programs and when its facilities are not taxed to the limit of their capacity.

W. R. Griswold

W. R. Griswold

REPORT ON
BISMARCK MINE
BIG CREEK, IDAHO
by
Robert M. Gannell
April 30, 1952

Lead-Copper-Zinc

Summary

The Bismarck Mine is situated along the West Fork of Big Creek, eight miles by road southeast of Kellogg, Idaho. The mine has been intermittently worked since about 1910. There has been no production from the property.

The adit tunnel workings is 3000 feet above sea level. Snowfall is relatively heavy in this area. Several snowslides occured in the immediate vicinity of the mine during the winters of 49 and 50.

Ore deposits in this area of the Coeur d'Alene Mining District occur as replacement veins and as fracture fillings, occuring principally, in sheared Revett quartzite, and on the south limb of the Big Creek anticline. The mineralized structure developed in the Bismarck workings, is believed to be the most important mineralized structure that has been developed, on the south limb of the Big Creek anticline. The downward and latteral extension of this structure may project into ore bodies of importance.

The mineralized structure as developed in the Bismarck workings appears to warrant deeper development. Because of the high cost of sinking an exploration shaft to possible ore horizon, it is recommended that the Bismarck Company enter into a 50-50 part participation development of the Bismarck with the Sunshine Mining Company. The work to be done from

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

500

Memorandum

MAR 3 1953

To: Administrator

From: Chief, Base Metals Division

Subject: Withdrawal of Application, Docket No. DMEA-2540 (lead-copper)
Bismarck Mining Company, Shoshone County, Idaho

The application for Government assistance in the case of this property has been placed on the inactive list at the request of the Applicant, Mr. Robert M. Gammell.

Mr. Gammel has failed to reach a working agreement with the Sunshine Mining Company by which they would participate on an equal basis with the Bismarck Mining Company in the project.

The application may be revived later when the Sunshine Mining Company has completed its own exploration programs and when its facilities are not taxed to the limit of their capacity.

/s/ WRG

W. R. Griswold

COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 2 - 1953

[redacted]
Grosvold

February 18, 1953

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA 2540 (Lead-Copper)
Bismarck Mining Co.
Shoshone Co., Idaho

Dear Mr. Selfridge:

I am enclosing herewith copies of a letter dated February 10, 1953, from Mr. R. D. Leisk, General Manager of the Sunshine Mining Company, to Mr. Robert M. Gammell regarding a proposed working agreement for the prosecution of an exploration project of the Bismarck Mining Company property.

The letter makes it clear that such an agreement is impossible in the near future. In view of this fact and since the only practical approach to the project is through the Sunshine mine workings, the Bismarck Company wishes to withdraw their application with the hope that circumstances will permit them to resubmit it at some more favorable time in the future.

We recommend that the application be withdrawn without prejudice.

Sincerely yours,

S. Warren Hobbs

S. Warren Hobbs
for A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

Enclosure
cc: USBM(2) w/encl.
Hobbs

the Metropolitan cross cut on the 3100 level of the Sunshine Mine. The work to be carried out by the Sunshine Mining Company.

Fig 3 shows a plan of reaching the target area. No. 1 proposed plan would prospect more favorable area than proposed plan No. 2, however, it would require a little more drifting and cross cutting to reach the target area under plan No. 1. To adequately explore the downward and latteral extension of the mineralized structure in the Bismarck Mine it will require approximately the following drifting and cross cutting.

5000 feet of cross cutting	@ $44.50 per foot	$222,500.00
2000 feet of drifting	@ $44.50 per foot	99,000.00
5000 feet of diamond drilling	@ $6.00 per ft.	30,000.00
	Total estimated cost	$351,500.00

The above cost per foot is based on the cost of $42.00 per foot for untimbered drift or cross cut and $47.00 per foot for timbered drift or cross cut. The cost included all costs. See detail f of costs.

If the above area project would prove positive reserves, it would probably mean the beginning of development of a new mineralized zone on the south limb of the Big Creek anticline, between the Bismarck and the Bunker Hill mines.

Introduction

The writer carried out the development of the Bismarck Mine from July 1948 to December 1951. This report presents the data obtained from the surface examinations and daily following the development. Included is an estimated cost of exploring the downward extension of the mineralized structure from the Metropolitan cross cut 3100 level Sunshine Mine. Data on neighboring mines are included where necessary.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

WASHINGTON 25, D.C.
No. 157 Howard Street
Spokane 1, Washington

February 13, 1953

Mr. George C. Selfridge, Chairman
Operating Committee,
Department of the Interior
Washington 25, D. C.

Re: Docket No. [illegible] 2540 (Cost-Sharing)
Bismarck Mining Co.
Shoshone Co., Idaho

Dear Mr. Selfridge:

I am enclosing herewith copies of a letter dated February 10, 1953, from Mr. [illegible] Melck, General Manager of the Bunker Hill Company, to Mr. Robert [illegible] Farrell regarding a proposed working agreement for the prosecution of an exploration project of the Bismarck Mining Company property.

The letter makes it clear that such an agreement is impossible in the near future. In view of this fact and since the only practical approach to the project is through the same line workings, the Bismarck Company wishes to withdraw their application with the hope that circumstances will permit them to resubmit it at some more favorable time in the future.

We recommend that the application be withdrawn without prejudice.

Sincerely yours,

[illegible] Aaron Tobias
For [illegible] Blackburn
Executive Officer,
Field Team, Region [illegible]

Enclosure
cc: [illegible] 2 w/encl.
[illegible]

COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 2 - 1953

February 18, 1953

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA 2540 (Lead-Copper)
Bismarck Mining Co.
Shoshone Co., Idaho

Dear Mr. Selfridge:

I am enclosing herewith copies of a letter dated February 10, 1953, from Mr. R. A. Leisk, General Manager of the Sunshine Mining Company, to Mr. Robert M. Gammell regarding a proposed working agreement for the prosecution of an exploration project of the Bismarck Mining Company property.

The letter makes it clear that such an agreement is impossible in the near future. In view of this fact and since the only practical approach to the project is through the Sunshine mine workings, the Bismarck Company wishes to withdraw their application with the hope that circumstances will permit them to resubmit it at some more favorable time in the future.

We recommend that the application be withdrawn without prejudice.

Sincerely yours,

S. Warren Hobbs
for A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

Inclosure
cc: USBM(2) w/encl.
Hobbs

History

The Bismarck claim No. 1 and 3 and the New York No. 1 were first located about 1910. The Bismarck Company was incorporated Jan. 15, 1924 and capitalized at 1,500,000 shares of par value of five cents. All the treasury stock was subsequently issued. The stock at this time was principally owned by Dutch interests in Holland. This company drove the present adit cross cut tunnel about 1350 feet.

In 1944 and 1945 the Dutch interests in the Bismarck was purchased by Spokane, Washington interests. In April 1946, the company located 23 claims that are contiguous ot the New York No. 1 patented claim.

Active development of the Bismarck Mine was started December 1948. On Jamurary 8, 1949 a snowslide demolished the compressor building and did considerable damage to equipment. A new compressor site was excavated and equipment repaired by April 27, 1949.

From December 1948 to December 1951 the Bismarck Company completed 2638 feet of drifting, 955 feet of cross cutting, 3400 feet of slabbing drift, enlarging the old tunnel for 1300 feet.

In December 1951, the writer recommended that development be suspended because it was believed that sufficient mineralized structure was developed to warrent deeper development from some of the Sunshine Mining Company's workings.

Physical Features and Communications

The Bismarck Mine is situated along the West Fork of Big Creek, eight miles southeast of Kellogg, Idaho. The topography is similar to the rough sections of the Coeur d'Alene Mining District. The hills are exceptionally steep and are covered with thin to heavy patches of timber and brush. The relief ranges from about 3000 feet above sea level at the mine portal to 4200 feet along the north side of the Bismarck claim No. 1 and 3

NON-PRIVILEGED DOCUMENT

TO BE PHOTOCOPIED AND PRODUCED

DO NOT CODE

BATES NO. 0381

COPY

SUNSHINE MINING COMPANY
KELLOGG, IDAHO

February 10, 1953

Mr. Robert M. Gammell
P. O. Box 809
Kellogg, Idaho

Dear Mr. Gammell:

At the time of our last meeting I agreed to try to give you an answer on the subject of a multi-company project, with the assistance of a DMEA loan, for exploration on Sunshine's 3100 level of an area in the vicinity of the Big Creek Fault projected down dip from the Bismarck tunnel work. We have given this project careful consideration and do not feel that we could undertake it in the near future.

We have a rather heavy program of development ahead of us in connection with extension of our known mineralized areas and are using our underground facilities to capacity at this time. Possibly the project could be reconsidered at some future date when the pressure of our present development program has eased somewhat.

Yours very truly,

R. D. LEISK
General Manager

RDL/mm

cc: Mr. R. M. Hardy

COPY

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

SUNSHINE MINING COMPANY
KELLOGG, IDAHO

February 10, 1953

Mr. Robert M. Gammell
P. O. Box 809
Kellogg, Idaho

Dear Mr. Gammell:

At the time of our last meeting I agreed to try to give you an answer on the subject of a multi-company project, with the assistance of a DMEA loan, for exploration on Sunshine's 3100 level of an area in the vicinity of the Big Creek Fault projected down dip from the Bismarck tunnel work. We have given this project careful consideration and do not feel that we could undertake it in the near future.

We have a rather heavy program of development ahead of us in connection with extension of our known mineralized areas and are using our underground facilities to capacity at this time. Possibly the project could be reconsidered at some future date when the pressure of our present development program has eased somewhat.

Yours very truly,

R. D. LEISK
General Manager

RDL/mm

cc: Mr. R. M. Hardy

COPY

COPY

SUNSHINE MINING COMPANY
KELLOGG, IDAHO

February 10, 1953

Mr. Robert M. Gammell
P. O. Box 809
Kellogg, Idaho

Dear Mr. Gammell:

At the time of our last meeting I agreed to try to give you an answer on the subject of a multi-company project, with the assistance of a DMEA loan, for exploration on Sunshine's 3100 level of an area in the vicinity of the Big Creek Fault projected down dip from the Bismarck tunnel work. We have given this project careful consideration and do not feel that we could undertake it in the near future.

We have a rather heavy program of development ahead of us in connection with extension of our known mineralized areas and are using our underground facilities to capacity at this time. Possibly the project could be reconsidered at some future date when the pressure of our present development program has eased somewhat.

Yours very truly,

R. D. LEISK
General Manager

RDL/mm

cc: Mr. R. M. Hardy

COPY

by Joseph B. Umpleby and E. L. Jones U.S.G.S. Bulletin 732, also Philip J. Shenon formerly with the U.S.G.S. The general geology is shown in Fig. 1.

The country rock in the Bismarck workings is principally Revett quartzite. Burke quartzite may occur at greater depth. The ore bodies in the productive mines in this district occur in the Revett, Burke, and St. Regis formations. The Bismarck workings are near the east end of an intensely fractured area that has been highly productive in lead, silver and zinc. The Bunker Hill mine is near the west end of this fractured area. The Crescent mine is near the east end of the fractured area, in the hanging wall of the Alhambra Fault, near where the fault turns toward the Big Creek Fault. The east end of the Bismarck property is in the hanging wall of the Big Creek Fault near where the fault turns toward the Alhambra Fault, Fig. 1.

The mineralized structure as developed in the Bismarck underground workings, strikes from east to northeast. The dip ranges from 60 degrees south to 85 degrees south.

The Ore Deposits:

The ore deposits in this district occur as replacement lodes and as fracture fillings along a broad zone of fracturing. The Bismarck workings show several recognizable fractures. The A structure is about 650 feet from the adit portal. The strike the -A- structure is about west and dips 60 to 85 degrees south. The structure is two to three feet wide. The assay map shows sampling results of sections along the structure.

The -B- structure is about 1350 feet from the adit portal. The strike is north 60 degrees east. The dip is 60 to 85 degrees south east The structure is 3 to 8 feet wide. Seven places along this structure contained a high grade concentration of lead and silver. See sections

DMEA-2540

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

[illegible]

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 20 1952

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

COPY

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

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

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

Not To Be Filled in by Applicant

Docket No. DMEA-2540
Metal or Mineral
Date Received 5-20-52
Amount $
Participation (Government %)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 20 1952

RECEIVED
MAY 14 1952
U. S. G. S.
SPOKANE, WASH.

Name and address of applicant

Date

If you have already filed MF-100, give date filed 4-30-52, type of assistance requested

DMA Docket Number (if available)

INSTRUCTIONS

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

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

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

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

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

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

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

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

1 to 7

The -C- structure, 2 to 3 feet wide, strikes east and dips 70 degrees south. Section 8 shows sampling results at a point 12 feet east of the cross cut.

The -D- structure, 3 to 6 feet wide, strikes a north 70 degrees east and dips 70 to 80 degrees southeast. This structure shows considerable chalcopyrite associated with lead and silver. Section 9 shows the sample results from one section of the structure. Figs 2 and 3 show the location of the structure and sections.

The Ore

The ore consists of galena, and chalcopyrite in a gangue of siderite quartz and altered quartzite.

Potential Ore Tonnage

The possible or potential of ore from this area could be important but until more exploration has been completed, there is no factual data on which to base an estimate.

Company Operations

The Bismarck Company has proposed to explore the downward extension of the Bismarck structure from the Metropolitan cross cut on the Sunshine Mining Company 3100 level (Fig 3). The Bismarck Company has proposed to do this work on a 50-50 participation with the Sunshine Mining Company.

Conclusion

1. The area included in the Bismarck holdings appears to offer favorable conditions for the existence of deposits of lead, silver and copper ore. The structure developed on the Bismarck adit level shows nine different places where there was high grade concentration of lead, silver and

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

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

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

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

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

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

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

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

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

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

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

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

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

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

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

CERTIFICATION

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

[illegible] (Name of company)

By Chas. A. Power (Signature of authorized official)

[illegible] (Date)

[illegible] (Title)

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

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

COPY

Bismarck Mining Company
209 Peyton Building
Spokane, Washington Po Box 1788
April 30, 1952

Form NF 103

Claims Loc

1 (a) Bismarck Company property consisting of- Bismarck 1 &3 Patent 3320, New York No.1 Patent No.3319 and New York No.2,4,5, Bismarck No.4,5, H. 1to 13, Johnson No.1&2, Forrester No.1&2 Bay All claims listed without survey numbers are held by location.

Part of the Sunshine Mining Company property holdings

(b) The Bismarck Company is the owner of the mining claims listed above.

(c) Same as listed under a above.

COPY

cop er. This structure may project into ore deposits of importance.

2. Between the Bunker Hill and Sullivan Mine and the east end of the Bismarck property there is about 25,000 feet of fractured folded quartzite that is similar to the highly productive Bunker Hill Mine. If the proposed development of the downward extension of the Bismarck structure proves positive ore bodies, it will probably be the beginning of major development of the area between the Bismarck Mine and the Bunker Hill Mine.

Suggestions for Company Operations

The deep shaft of the Sunshine Mining Company has been the means of developing a number of properties in the vicinity of the Sunshine property. The development is done on a profit sharing basis. In as much as the Bismarck Company has spent considerable money in the development of the Bismarck property and has proved that there is mineralized structure opening within the property boundaries, the following is recommended:

It is recommended that the Bismarck Company enter into a 50-50 participation agreement with the Sunshine Mining Company in the development of the downward extension of the structure developed in the Bismarck workings. It is suggested that the Bismarck apply for a government loan sufficient to cover one half of the x estimated expenditures. The Sunshine Mining Company would be responsible for one half of the total expenditures.

Projected Costs

The Sunshine Mining Company has a wide area of operations. The costs are based on the over all operations. The following is an estimated cost of the proposed development of the downward extension of the structure developed in the Bismarck adit tunnel from the Metropolitan cross cut on the Sunshine 3100 foot level.

Bunker Hill Company
309 Peyton Building
Spokane, Washington PO Box 1700
April 30,52

Form WP103

2 (a) Lead, Copper, Silver

(b) See included report

COPY

COPY

NON-PRIVILEGED DOCUMENT

TO BE PHOTOCOPIED AND PRODUCED

DO NOT CODE

BATES NO. 0381

At 5.0 advance per shift bare drift

Indirect cost per day----------	$75.06
Contract labor @ $10.00 per foot	$50.00
Material cost @ $6.05	$30.25
	$155.31

At five feet advance per shift 155.31/5.0 equals $31.06 per foot.

At 3.0 feet advance per shift timbered drift

Indirect cost	$75.06
Contract labor timbering $13.00 per ft.	$39.00
Material cost @ $6.05	$18.15
	$132.21

At 3.0 feet advance per shift 132.21/3.0 equals $44.07 per foot. In estimating the total cost of a project that will possibly take over two years to complete and not being sure what type of formation we would be drifting or cross cutting in, it is recommended that a figure of $44.50 per foot be used.

7000 feet of cross cutting and drifting @ $44.50 per ft.	$311,500.00
5000 feet of diamond drilling @ $8.00 per ft.	40,000.00
Estimated cost of project	$351,500.00

Robert H. Gannell
Registered Mining Engineer

Bismarck Mining Company
309 Peyton Building
Spokane, Washington
April 30 ,1952

Form SP 103

3 (a)

About 7000 feet of drifting and cross cutting ,costing $311,500.00
5000 feet of diamond drilling @ $6.00 per foot 30,000.00
Estimated total cost——— $351,500.00

3 (b) Three to four Years

COPY

COPY

NON-PRIVILEGED DOCUMENT

TO BE PHOTOCOPIED AND PRODUCED

DO NOT CODE

BATES NO. 0381

[illegible]
[illegible] MINE
[illegible], IDAHO

by
Robert M. Carroll
April 30, 1950

Lead-Copper-Zinc

SUMMARY

The Bismarck Mine is situated along the West Fork of Big Creek, eight miles by road southeast of Kellogg, Idaho. The mine has been intermittently worked since about 1910. There has been no production from the property.

The adit tunnel workings is 3000 feet above sea level. Snowfall is relatively heavy in this area. Several snowslides occured in the immediate vicinity of the mine during the winters of 1948-49 and 50.

Ore deposits in this area of the Coeur d'Alene Mining District occur as replacement veins and as fracture fillings, occuring principally, in altered Revett quartzite, and on the south limb of the Big Creek anticline. The mineralized structure developed in the Bismarck workings, is believed to be the most important mineralized structure that has been developed, on the south limb of the Big Creek anticline. The downward and lattoral extension of this structure may project into ore bodies of importance.

The mineralized structure as developed in the Bismarck workings appears to warrant deeper development. Because of the high cost of sinking an exploration shaft to possible ore horizon, it is recommended that the Bismarck Company enter into a 50-50 part participation development of the Bismarck with the Sunshine Mining Company. The work to be done from

Bismarck Mining Company
209 Peyton Building
Spokane, Washington.
PO Box 1760

Form MF-103

5 to 9 included in cost per foot of drift or cross cut

COPY

COPY

Bismarck Mining Company
209 Peyton Building
Spokane, Washington
PO Box 1788

Form MF-103

10 (a) One half of the proposed cost would be invested by operating Company.

(b) Could start within 60 days after receiving assurance of Government aid in one half the total cost of project.

COPY

the Metropolitan cross cut on the 3100 level of the Sunshine Mine. The work to be carried out by the Sunshine Mining Company.

Fig 3 shows a plan of reaching the target area. No. 1 proposed plan would prospect more favorable ground than proposed plan No. 2, however, it would require a little more drifting and cross cutting to reach the target area under plan No. 1. To adequately explore the downward and lateral extension of the mineralized structure in the Bismarck mine it will require approximately the following drifting and cross cutting.

5000 feet of cross cutting	[illegible] per foot	$[illegible],000.00
2000 feet of drifting	[illegible] per foot	99,000.00
5000 feet of diamond drilling	[illegible] per ft.	[illegible],000.00
	Total estimated cost	$[illegible],500.00

The above cost per foot is based on the cost of $[illegible].00 per foot for unlimbered drift or cross cut and $47.00 per foot for timbered drift or cross cut. The cost included all costs. See detail of costs.

If the above proposed project could prove conclusive reserves, it would probably mean the beginning of development of a new mineralized zone on the south limb of the Big Creek anticline, between the Bismarck and the Hunter Hill mines.

Introduction

The writer carried out the development of the Bismarck mine from July 1948 to December 1951. This report presents the data obtained from the surface examinations and daily following the development. Included is an estimated cost of exploring the downward extension of the mineralized structure from the Metropolitan cross cut 3100 level Sunshine Mine. Data on neighboring mines are included where necessary.

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMEA-2540

Date received 5-20-52

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 26 1952

Bismarck Mining Company
209 Peyton Bldg
Spokane Washington

Name and address of applicant

Date April 30, 1952

INSTRUCTIONS

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

GENERAL TECHNICAL DATA

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

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

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

COPY

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 x & xx (see below) (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)
Chas. A. Power 604 W.23rd Ave,Spokane,Wn.	President "D"	None	x xx	302,789	none	none	none
Robert M. Gammell Box 809, Kellogg, Ida.	V-Pres. "D" Gen. Mgr.	$7200	x xx	50,000	none	none	none
E. K. Barnes, V.-Pres. 1st Nat'l Bank,Spokane,Wn	Treasurer "D"	None	x xx	10,000	none	none	none
M. D. Swartley, 209 Peyton Bldg.,Spokane,Wn.	Secretary "D"	None	x xx	10,000	none	none	none
Paul L. Sandberg, 209 Peyton Bldg.,Spokane,Wn.			x xx	202,789	none		
Roland O. Barton, 201 Peyton Bldg.,Spokane,Wn.			x xx	40,000	none		
Cecil V. Stanfield, c/o The Pastime,Ritzville,Wn.			x xx	40,000	none		
	Total	$7200	x x x x	655,578	none	x x x x x	x x x x x

If more lines are needed continue on separate sheet.

x-Information will be furnished if necessary
xx- See No. 17

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	150,000	149,028.80	$ .10	1,490,288	none
Preferred stock	$ none	$ none	$ none	none	none

*Indicate period covered.

10. Production: inapplicable

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. inapplicable

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.

[illegible]

[illegible]

Hundred Barrows and Scarnmanden

[illegible]

Bismarck Mining Company
209 Peyton Building
PO Box 1788
Spokane, Washington.

1- Materials Produced.

a- Chief products will probably be lead, copper & silver

b- none known

COPY

COPY

NON-PRIVILEGED DOCUMENT

TO BE PHOTOCOPIED AND PRODUCED

DO NOT CODE

BATES NO. 0381

[illegible] one of concentration [illegible] by [illegible] the line, similar [illegible] [illegible] Building, Inc.

Labor and Wages Problem.

[illegible] follows: Skilled labor [illegible] $1.50 per day of 8 hours. [illegible] and [illegible] $1.50. [illegible] Building Contractors [illegible].

Property and Ownership.

The Diamond [illegible] of 3 [illegible] of 3 office buildings built by [illegible]. The property is in the name of the Diamond Holding Company, 201 Boylston Building, [illegible], Inc. The officers of the company are: Chas. A. Green, President, Edward A. Orcutt, Vice President and Gen. Manager, H. H. Prince, Secretary, and [illegible], Treasurer.

Mortgage Loans.

The original mortgage [illegible] Mr. C. The original mortgage [illegible], [illegible] ground [illegible] subject, [illegible] $[illegible].

Description of the Property.

General Building.

[illegible] office. The property is [illegible] Building [illegible] Building [illegible] working [illegible] $[illegible] monthly [illegible].

The [illegible] shall

Bismarck Mining Company
209 Peyton Building Spokane, Washington PO box 1700

2- Bismarck Mine- Lode mine

a-none

b- Main adit cross cut 1700 foot. Drifting 2030 foot. Cross cuts 650 feet. Total underground workings 4370 feet. All the workings are accessible.

COPY

COPY

Bismarck Mining Company
209 Peyton Building Spokane, Washington PO box 1798

3-

a- eight miles by road southeast of Kellogg, Idaho

b-Yreka Mining District

c-Township 48 north- Section 28-29, Range 3 east.

d- Shoshone, County, Idaho.

COPY

Bismarck Mining Company
209 Peyton Building Spokane, Washington PO box 1788

4-

a-Development was suspended December 1951

b-The Bismarck Mining Company is the owner of the property

COPY

COPY

Bismarck Mining Company
209 Peyton Building Spokane, Washington PO box 1788

5- Not in production, Possibly could be in production 1954 or 1955

COPY

1 to 7

The -C- structure, 2 to 3 feet wide, strikes east and dips 70 degrees south. Section 8 shows sampling results at a point 12 feet east of the cross cut.

The -D- structure, 3 to 6 feet wide, strikes a north 70 degrees east and dips 70 to 80 degrees southeast. This structure shows considerable chalcopyrite associated with lead and silver. Section 9 shows the sample results from one section of the structure. Figs 2 and 3 show the location of the structure and sections.

The Ore

The ore consists of galena, and chalcopyrite in a gangue of siderite quartz and altered quartzite.

Potential Ore Tonnage

The possible or potential of ore from this area could be important but until more exploration has been completed, there is no factual data on which to base an estimate.

Company Operations

The Bismarck Company has proposed to explore the downward extension of the Bismarck structure from the Metropolitan cross cut on the Sunshine Mining Company 3100 level (fig 3). The Bismarck Company has proposed to do this work on a 50-50 participation with the Sunshine Mining Company.

Conclusion

1. The area included in the Bismarck holdings appears to offer favorable conditions for the existence of deposits of lead, silver and copper ore. The structure developed on the Bismarck adit level shows nine different places where there was a high grade concentration of lead, silver and

Bismarck Mining Company
209 Peyton Building Spokane [redacted] PO box 1788

6 Chas A.Powers
a- The applicant has had about 35 years of general business experience.

b- Robert M.Gammell , Manager has had 30 years experience in mining engineering and mine management.

COPY

COPY

Bismarck Mining Company
209 Peyton Building Spokane, Washington PO box 1788

15. Goon roads:

[illegible]

COPY

cop or. This structure may project into ore deposits of importance.

2. Between the Junior Hill and Sullivan Mine and the east end of the Diamond property there is about 25,000 feet of structural folded quartzite that is similar to the highly productive Junior Hill Mine. If the proposed development of the downward extension of the Diamond structure proves positive ore bodies, it will probably be the beginning of major development of the area between the Diamond Mine and the Junior Hill Mine.

Suggestions for Company Operations

The deep shaft of the Sunshine Mining Company has been the means of developing a number of properties in the vicinity of the Sunshine property. The development is done on a profit sharing basis. Inasmuch as the Diamond Company has spent considerable money in the development of the Diamond property and has proved that there is mineralized structure opening within the property boundaries, the following is recommended:

It is recommended that the Diamond Company enter into a 50-50 participation agreement with the Sunshine Mining Company in the development of the downward extension of the structure developed in the Diamond workings. It is suggested that the Diamond apply for a government loan sufficient to cover one half of the estimated expenditures. The Sunshine Mining Company would be responsible for one half of the total expenditures.

Projected Costs

The Sunshine Mining Company has a wide range of operations. The costs are based on the over all operations. The following is an estimated cost of the proposed development of the downward extension of the structure developed in the Diamond adit tunnel from the Metropolitan cross cut on the Sunshine 3100 foot level.

Diamond Mining Company
209 Peyton Building, Spokane, Washington PO Box 1780

14- Water Supply:

Water supply from the creek will be sufficient for all seasons of the year.

COPY

COPY

Bismarck Mining Company
209 Peyton Building ,Spokane,Washington PO Box 1788

1- Power;
Washington Water Power

COPY

At 5.0 advance per shift bare drift

Indirect cost per day	$75.06
Contract labor @ $10.00 per foot	50.00
Material cost @ $6.05	30.25
	$155.31

At five foot advance per shift 155.31/5.0 equals $31.06 per foot.

At 3.0 feet advance per shift timbered drift

Indirect cost	$75.06
Contract labor timbering @ 13.[illegible] per ft.	39.00
Material cost @ $6.05	18.15
	$132.21

At 3.0 feet advance per shift 132.21/3.0 equals $44.07 per foot.

In estimating the total cost of a project that will possibly take over two years to complete and not being sure what type of formation would be drifting or cross cutting in, it is recommended that a figure of $44.00 per foot be used.

7000 feet of cross cutting and drifting @ $44.00 per ft.	$312,000.00
5000 feet of diamond drilling @ $20 per ft.	100,000.00
Estimated cost of project	$412,000.00

Robert E. Sherrill
Registered Mining Engineer

Bisma[illegible] Mining Company
209 Peyton Building ,Spokane,Washington PO Box 1788

16- Inapplicable as we have not [illegible]

COPY

IN REPLY REFER TO:

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

May 22, 1952

Memorandum

To: Mr. D. E. Moulds, DMEA

From: Erwin J. Lyons, USGS

Subject: Docket DMEA-2540, Bismark Mining Company, Spokane, Washington

The applicant has requested an exploration grant of $351,500 on a participating basis to investigate the Bismark mine, Shoshone County, Idaho. The project will consist of about 7000 ft. of drifting and crosscutting and 5000 ft. of diamond drilling.

The field team has retained a copy of the application and will prepare a report. We therefore are returning the docket for your files until the field report is submitted.

Erwin J. Lyons

Erwin J. Lyons
Geologist

Bismarck Mining Company
209 Peyton Building ,Spokane,Washington PO Box 1788

17 Children and Possibilities

[illegible] the [illegible] and [illegible] 50-50 [illegible] the [illegible] mining company will have a [illegible] equipment and [illegible] information and minds.

COPY

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

May 22, 1952

Memorandum

To: Mr. D. E. Moulds, DMEA

From: Erwin J. Lyons, USGS

Subject: Docket DMEA-2540, Bismark Mining Company, Spokane, Washington

The applicant has requested an exploration grant of $351,500 on a participating basis to investigate the Bismark mine, Shoshone County, Idaho. The project will consist of about 7000 ft. of drifting and crosscutting and 5000 ft. of diamond drilling.

The field team has retained a copy of the application and will prepare a report. We therefore are returning the docket for your files until the field report is submitted.

Erwin J. Lyons
Geologist

Bismarck Mining Company
209 Peyton Building ,Spokane,Washington PO Box 1788

10-

[illegible] operations is not a large company, the Bismarck Mining Company, will be actually doing the work on a 70- 70 basis. This company has a quite adequate for any development or mining.

COPY

REPORT ON
BISMARCK MINE
SHOSHONE COUNTY, IDAHO

by
Robert M. Gammell
April 30, 1952

Lead-Copper-Zinc

Summary

The Bismarck Mine is situated along the West Fork of Big Creek, eight miles by road southeast of Kellogg, Idaho. The mine has been intermittently worked since 1910. There has been no production from the property.

The adit tunnel workings is 3080 feet above sea level. Snowfall is relatively heavy in this area. Several snowslides occured in the immediate vicinity of the mine during the winters of 48-49 and 50.

Ore deposits in this area of the Coeur d'Alene Mining District occur as replacement veins and as fracture fillings, occuring principally in sheared Revett quartzite, and on the south limb of the Big Creek anticline. The mineralized structure developed in the Bismarck workings is beleived to be the most important mineralized structure that has been developed on the south limb of the Big Creek anticline. The downward and latteral extension of this structure may project into ore bodies of importance.

The mineralized structure as developed in the Bismarck workings appears to warrent deeper development. Because of the high cost of sinking and exploration shaft to possible ore horizon, it is recommended that the Bismarck Company enter into a 50-50 participation development of the Bismarck with the Sunshine Mining Company. The work to be done from

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

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

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

TOTAL ORE OR MINERAL RESERVES inapplicable

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

(*c*) If placer:

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

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

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

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

Bismarck Mining Company
(Name of company)

By Chas. A. Power
(Signature of authorized official)

April 30, 1952
(Date)

President
(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

the Metropolitan cross cut on the 3100 level of the Sunshine Mine. The work to be carried out by the Sunshine Mining Company.

Fig 3 shows a plan of reaching the target area. No. 1 proposed plan would prospect more favorable area than proposed plan No. 2, however, it would require a little more drifting and cross cutting to reach the target area under plan No. 1. To adequately explore the downward and latteral extension of the mineralized structure in the Bismarck Mine it will require approximately the following drifting and cross cutting.

5000 feet of cross cutting	@ $44.50 per foot	$222,500.00
2000 feet of drifting	@ $44.50 per foot	99,000.00
5000 feet of diamond drilling	@ $6.00 per ft.	30,000.00
	Total estimated cost	$351,500.00

The above cost per foot is based on the cost of $42.00 per foot for untimbered drift or cross cut and $47.00 per foot for timbered drift or cross cut. The cost included all costs. See detail of costs.

If the above area project would prove positive reserves, it would probably mean the beginning of development of a new mineralized zone on the south limb of the Big Creek anticline, between the Bismarck and the Bunker Hill mines.

Introduction

The writer carried out the development of the Bismarck Mine from July 1948 to December 1951. This report presents the data obtained from the surface examinations and daily following the development. Included is an estimated cost of exploring the downward extension of the mineralized structure from the Metropolitan cross cut 3100 level Sunshine Mine. Data on neighboring mines are included where necessary.

DMEA-2540

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION

WASHINGTON 25, D. C.

No. 257 Federal Street
[illegible] 6, Washington

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 20 1952

May 21, 1952

Memorandum

To: Operating Committee, [illegible]

From: [illegible], Reg. Officer, [illegible] Field Team, Region [illegible]

Subject: Application of Shamrock Uranium Company, 201 Peyton Building, P. O. Box 1715, Spokane, Washington

Attached are three copies of an application filed by the Shamrock Uranium Company, 201 Peyton Building, P. O. Box 1715, Spokane, Washington, for the exploration of Public Domain in the Coeur d'Alene district. One copy of the application is being retained for field team investigation. This application has been the subject of some previous correspondence because of the fact that the exploration will be done through the Sunshine Silver and although the operation could be completed within two years, it will actually take longer because of interference from the Sunshine mining operations.

A review of the application will be prepared. In addition to discussing the desirability of the property, other questions such as the relationship between the Sunshine Mining Company and the Shamrock Mining Company will be investigated and discussed.

[illegible]
Location Officer, [illegible]
Field Team, Region [illegible]

Enclosures

cc: [illegible], Spokane

History

The Bismarck claim No. 1 and 3 and the New York No. 1 were first located about 1910. The Bismarck Company was incorporated Jan. 15, 1924 and capitalized at 1,500,000 shares of par value of five cents. All the treasury stock was subsquently issued. The stock at this time was principally owned by Dutch interests in Holland. This company drove the present adit cross cut tunnel about 1350 feet.

In 1944 and 1945 the Dutch interests in the Bismarck was purchased by Spokane, Washington interests. In April 1946, the company located 23 claims that are contiguous to the New York No. 1 patented claim.

Active development of the Bismarck Mine was started December 1948. On Janurary 8, 1949 a snowslide demolished the compressor building and did considerable damage to equipment. A new compressor site was excavated and equipment repaired by April 27, 1949.

From December 1948 to December 1951 the Bismarck Company completed 2638 feet of drifting, 955 feet of cross cutting, 3400 feet of slabbing drift, and enlarging the old tunnel for 1300 feet.

In December 1951, the writer recommended that development be suspended because it was believed that sufficient mineralized structure was developed to warrent deeper development from some of the Sunshine Mining Company's workings.

Physical Features and Communications

The Bismarck Mine is situated along the West Fork of Big Creek, eight miles southeast of Kellogg, Idaho. The topography is similar to the rough sections of the Coeur d'Alene Mining District. The hills are exceptionally steep and are covered with thin to heavy patches of timber and brush. The relief ranges from about 3000 feet above sea level at the mine portal to 4200 feet along the north side of the Bismarck claim No. 1 and 3

Form MF
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

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

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

Not To Be Filled in by Applicant

Docket No. DMEA-2540
Metal or Mineral
Date Received 5-20-52
Amount $
Participation (Government %)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
MAY 20 1952
RECEIVED

RECEIVED
MAY 14 1952
U. S. G. S.
SPOKANE, WASH.

Name and address of applicant: Bismarck Mining Company
300 Peyton Bldg
Spokane, Washington

Date ~~30 Apr 1950~~
April 30, 1952

If you have already filed MF-100, give date filed 4-30-52 type of assistance requested Loan,
DMA Docket Number (if available)

INSTRUCTIONS

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

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

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

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

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

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

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

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

Crude ore or concentrates can be hauled by truck from the Sunshine Mine, six miles over paved roads to the Bunker Hill Smelter at Kellogg, Idaho.

Labor and Living Conditions

Base wages at the Sunshine Mine for Miners in May 1952 were as follows: Drift Miners and Timbermen $14.34 plus 8 1/3 for overtime equals $15.50 per day of 8 hours. The usual contract price for drifting and cross cutting is $10.00 per foot. Room and board are available at the Sunshine boarding house and at Kellogg or Wallace.

Property and Ownership

The Bismarck property consists of 3 patented lode claims and 23 claims held by location. The property is owned by the Bismarck Mining Company, 209 Peyton Building, Spokane, Wash. The officers of the company are; Chas. A. Powers, President, Robert M. Gammell, Vice President and Gen. Manager, E. K. Barnes, Treasurer, and Melven Swartly, Secretary.

Mine Workings

The principal workings of the Bismarck Mine is shown in Fig. 3. The principal workings of the Sunshine Mine, from which the proposed underground work is to start, is shown in Fig. 1 and 3.

Description of the Deposits

General Geology:

The Bismarck property is along the south limb of the Big Creek anticline. The property is more or less surronded by the Sunshine Consolidated Mining Company property. The Sunshine Mining Company has a perpetual 50-50 working agreement with the Sunshine Consolidated Company. It is a 50-50 profit sharing basis.

The geology of this area has been studied in considerable detail

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

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

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

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

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

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

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

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

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

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

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

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

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

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

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

CERTIFICATION

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

Bismarck Mining Company
(Name of company)

By Chas. A. Power
(Signature of authorized official)

April 30, 1952
(Date)

President
(Title)

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

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

by Joseph B. Umpleby and E. L. Jones U.S.G.S. Buletin 732, also Philip J. Shenon formerly with the U.S.G.S. The general geology is shown in Fig. 1.

The country rock in the Bismarck workings is principally Revett quartzite. Burke quartzite may occur at greater depth. The ore bodies in the prodictive mines in this district occur in the Revett, Burke, and St. Regis formations. The Bismarck workings are near the east end of an intensely fractured area that has been highly productive in lead, silver and zinc. The Bunker Hill mine is near the west end of this fractured area. The Crescent mine is near the east end of the fractured area, in the hanging wall of the Alhambra Fault, near where the fault turns toward the Big Creek Fault. The east end of the Bismarck property is in the hanging wall of the Big Creek Fault near where the fault turns towrd the Alhambra Fault, Fig. 1.

The mineralized structure as developed in the Bismarck underground workings, strikes from east to northeast. The dip ranges from 60 degrees south to 85 degrees south.

The Ore Deposits:

The ore deposits in this district occur as replacement lodes and as fracture fillings along a broad zone of fracturing. The Bismarck workings show several recognizable fractures. The A-structure is about 650 feet from the adit portal. The strike of the A structure is about west and dips 60 to 85 degrees south. The structure is two to three feet wide. The assay map shows sampling results of sections along the structure.

The B structure is about 1350 feet from the adit portal. The strike is north 60 degrees east. The dip is 60 to 85 degrees south east The structure is 3 to 8 feet wide. Seven places along this structure contained a high grade concentration of lead and silver. See sections

Bismarck Mining Company
209 Peyton Building
Spokane, Washington Po Box 1788
April 30, 1952

Form MP 103

Claims Nos

1 (a) Bismarck Company property consisting of- Bismarck 1 &3 Patent 3320, New York No.1 Patent No.3319 and New York No.2,4,5, Bismarck No.4,5, H.W. No 13, Johnson No.1&2, Forrester No.1&2 May All claims listed without survey numbers are held by location.

Part of the Sunshine Mining Company property holdings

(b) The Bismarck Company is the owner of the mining claims listed above.

(c) Same as listed under a above.

COPY

1 to 7

The -C- structure, 2 to 3 feet wide, strikes east and dips 70 degrees south. Section 8 shows sampling results at a point 12 feet east of the cross cut.

The -D- structure, 3 to 6 feet wide, strikes a north 70 degrees east and dips 70 to 80 degrees southeast. This structure shows considerable chalcopyrite associated with lead and silver. Section 9 shows the sample results from one section of the structure. Figs 2 and 3 show the location of the structure and sections.

The Ore

The ore consists of galena, and chalcopyrite in a gangue of siderite quartz and altered quartzite.

Potential Ore Tonnage

The possible or potential of ore from this area could be important but until more exploration has been completed, there is no factual data on which to base an estimate.

Company Operations

The Bismarck Company has proposed to explore the downward extension of the Bismarck structure from the Metropolitan cross cut on the Sunshine Mining Company 3100 level (fig 3). The Bismarck Company has proposed to do this work on a 50-50 participation with the Sunshine Mining Company.

Conclusion

1. The area included in the Bismarck holdings appears to offer favorable conditions for the existance of deposits of lead, silver and copper ore. The structure developed on the Bismarck adit level shows nine different places where there was a high grade concentration of lead, silver and

Bismarck Mining Company
809 Peyton Building
Spokane, Washington PO Box 1788
April 30,52

Form MF103

2 (a) Lead, Copper, Silver

(b) See included report

COPY

copper. This structure may project into ore deposits of importance.

2. Between the Bunker Hill and Sullivan Mine and the east end of the Bismarck property there is about 25,000 feet of fractured folded quartzite that is similar to the highly productive Bunker Hill Mine. If the proposed development of the downward extension of the Bismarck structure proves positive ore bodies, it will probably be the beginning of major development of the area between the Bismarck Mine and the Bunker Hill Mine.

Suggestions for Company Operations

The deep shaft of the Sunshine Mining Company has been the means of developing a number of properties in the vicinty of the Sunshine property. The development is done on a profit sharing basis. In as much as the Bismarck Company has spent considerable money in the development of the Bismarck property and has proved that there is mineralized structure apexing within the property boundaries, the following is recommended:

It is recommended that the Bismarck Company enter into a 50-50 participation agreement with the Sunshine Mining Company in the development of the downward extension of the structure developed in the Bismarck workings. It is suggested that the Bismarck apply for a goverment loan sufficient to cover one half of the estimated expenditures. The Sunshine Mining Company would be responsible for one half of the total expenditures.

Projected Costs

The Sunshine Mining Company has a wide area of operations. The costs are based on the over all operations. The following is an estimated cost of the proposed development of the downward extension of the structure developed in the Bismarck adit tunnel from the Metropolitan cross cut on the Sunshine 3100 foot level.

NON-PRIVILEGED DOCUMENT

TO BE PHOTOCOPIED AND PRODUCED

DO NOT CODE

BATES NO. 0381

At 5.0 advance per shift bare drift

Indirect cost per day----------	$75.06
Contract labor @ $10.00 per foot	$50.00
Material cost @ $6.05	$30.25
	$155.31

At five feet advance per shift 155.31/5.0 equals $31.06 per foot.

At 3.0 feet advance per shift timbered drift

Indirect cost	$75.06
Contract labor timbering $13.00 per ft.	$39.00
Material cost @ $6.05	$18.15
	$132.21

At 3.0 feet advance per shift 132.21/3.0 equals $44.07 per foot. In estimating the total cost of a project that will possibly take over two years to complete and not being sure what type of formation we would be drifting or cross cutting in, it is recommended that a figure of $44.50 per foot be used.

7000 feet of cross cutting and drifting @$44.50 per ft.	$311,500.00
5000 feet of diamond drilling @$600 per ft.	30,000.00
Estimated cost of project	$351,500.00

Robert M. Gammell
Robert M. Gammell
Registered Mining Engineer

Bismarck Mining Company
209 Peyton Building
Spokane, Washington
April 30 ,1952

Form DF 103

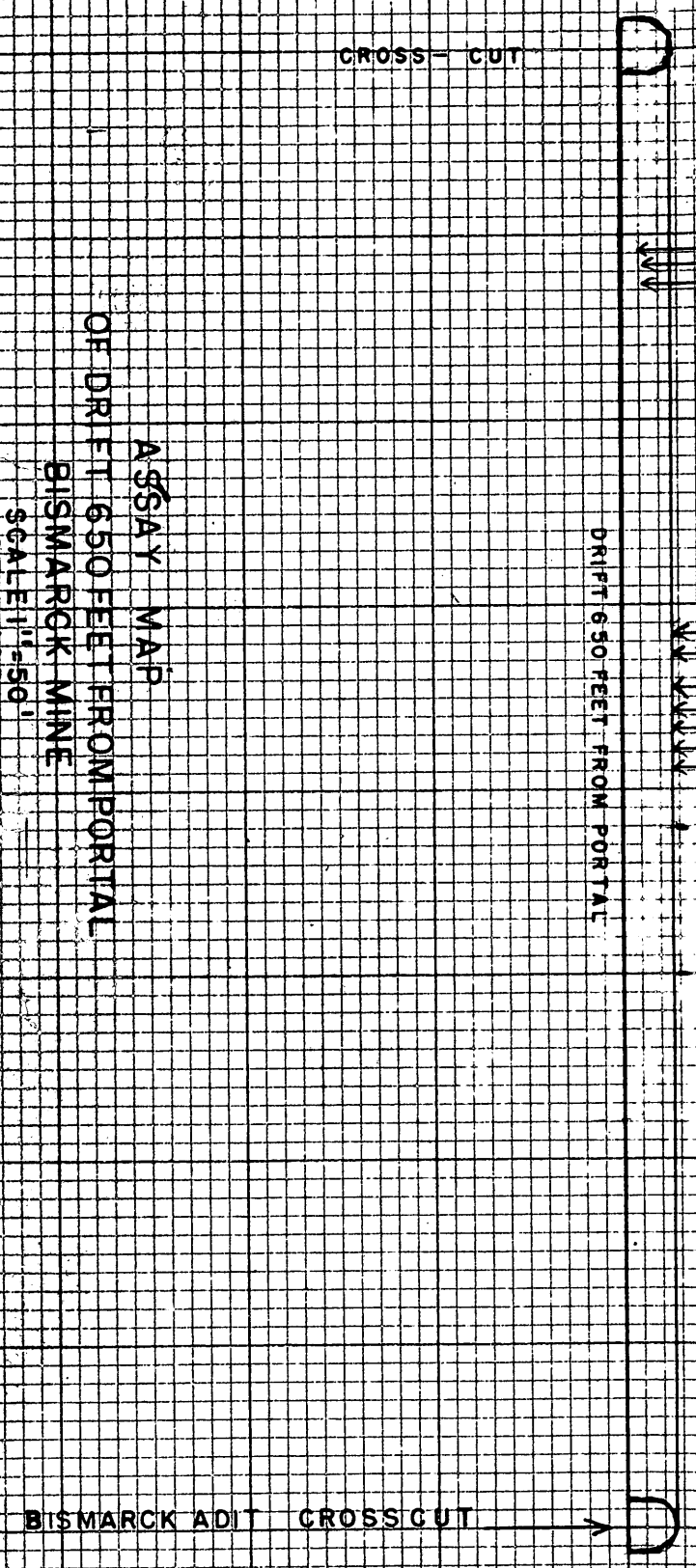
3 (a) About 7000 feet of drifting and cross cutting ,costing $321,000.00
5000 feet of diamond drilling @ $6.00 per foot 30,000.00
Estimated total cost——— $351,500.00

3 (b) Three to four Years

COPY

ASSAY MAP
OF DRIFT 650 FEET FROM PORTAL
BISMARCK MINE

SCALE 1" = 50'
OCT. 1951



SAMPLE NO.	% LEAD	OZS. SILVER	% ZINC	% COPPER	WIDTH FEET
1142	0.08	0.8	0.0	5.7	0.3'
1141	0.0	0.02	0.0	0.7	0.2'
1140	0.22	0.0	0.0	3.9	0.3'
1113	0.0	0.22	0.0	Tr	0.7'
1114	0.0	0.0	0.1	0.02	0.8'
1115	12.0	47.5	0.1	0.40	0.5'
1116	32.3	13.1	0.0	0.20	0.4'
1117	0.0	0.0	0.2	0.02	1.3'
1118	0.0	0.0	0.3	0.05	1.0'
1119	0.0	0.0	0.0	Tr	1.1'

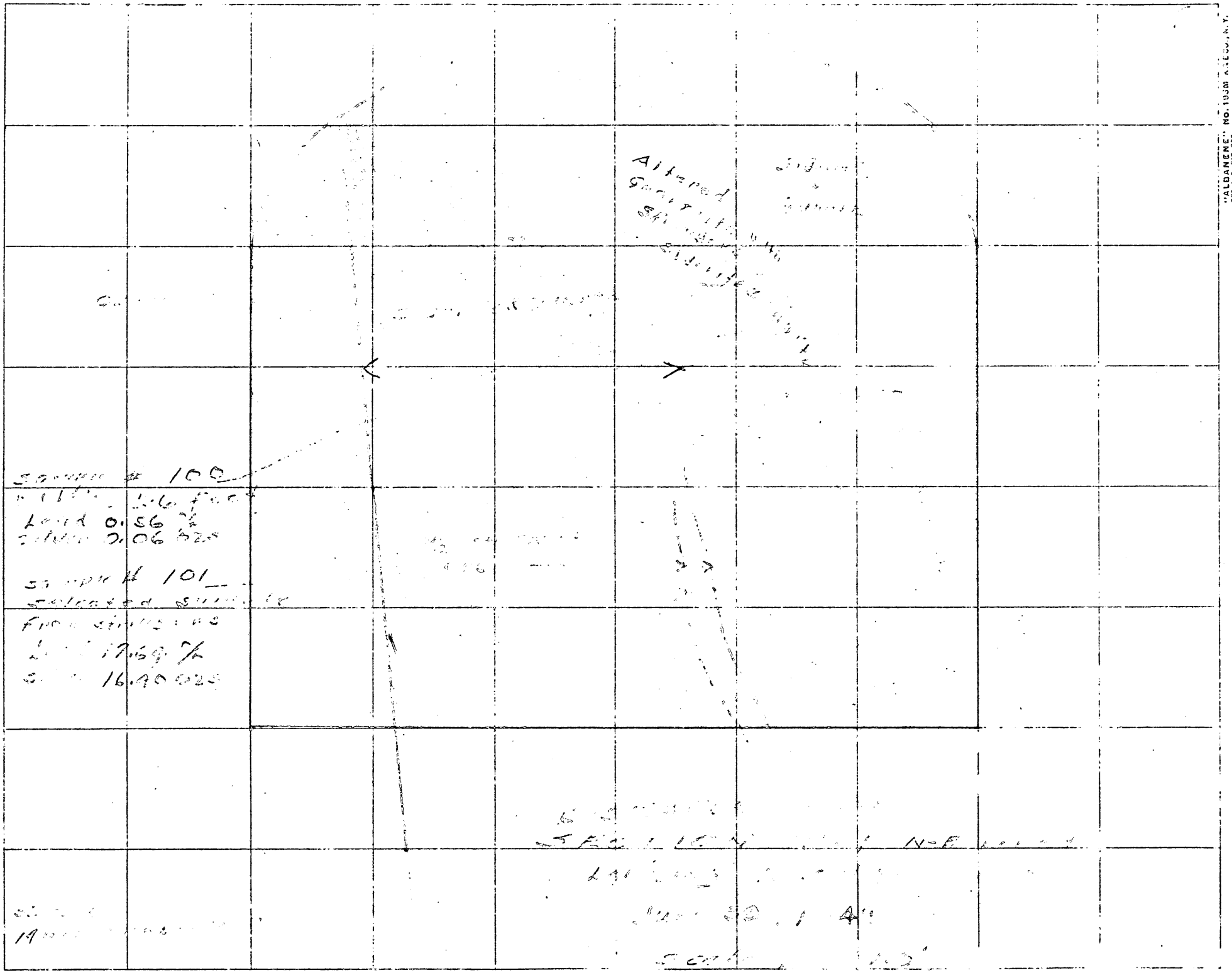
SAMPLES NO. 1115 & 1116 WERE RESAMPLED AND DID NOT CHECK FIRST SAMPLING

NON-PRIVILEGED DOCUMENT

TO BE PHOTOCOPIED AND PRODUCED

DO NOT CODE

BATES NO. 0381



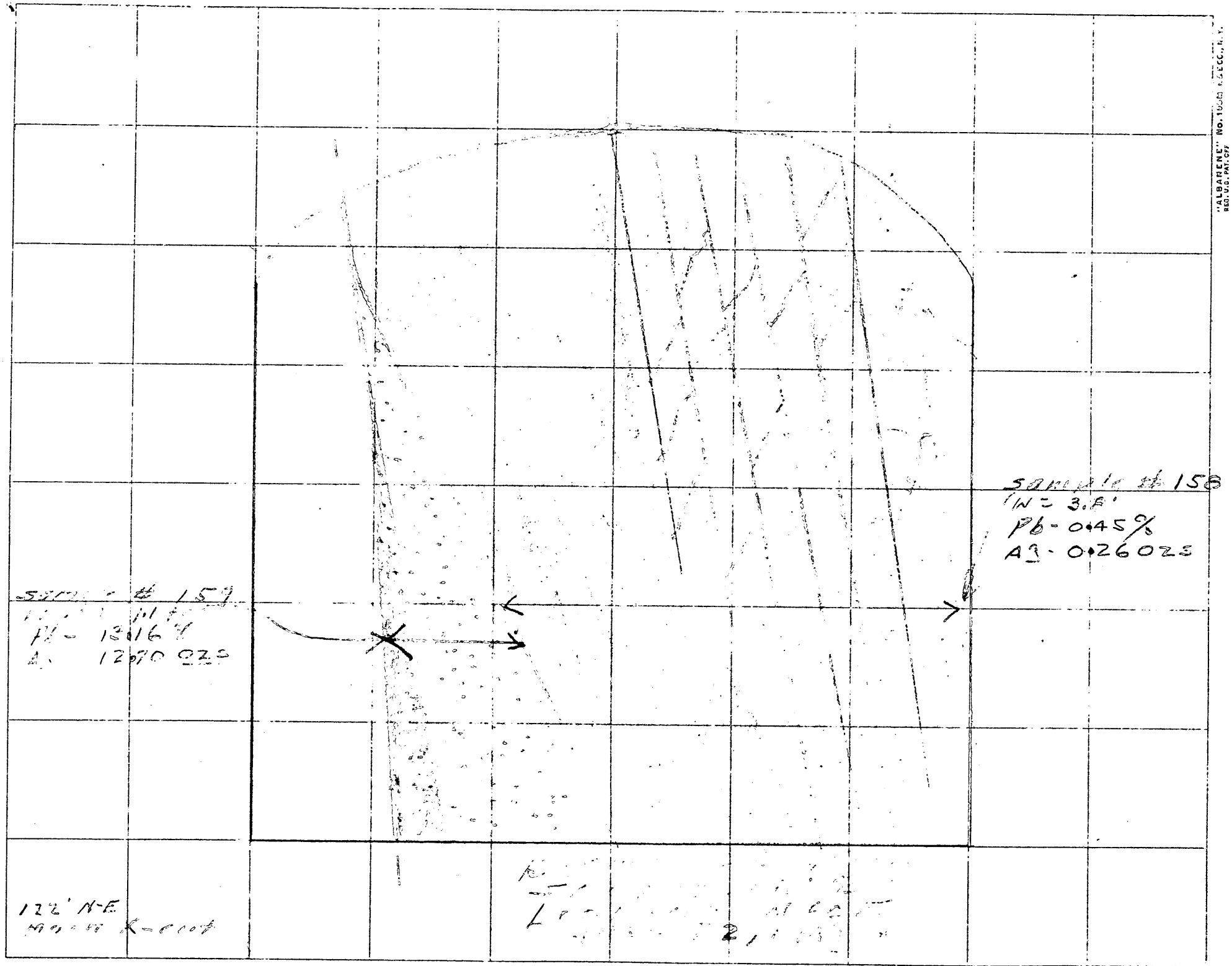
"ALDANENE" NO. 1030 REG. U.S. PAT. OFF

Bismarck Mining Company
209 Peyton Building
Spokane, Washington.
PO Box 1788

Form MF-103

5 to 9 included in cost per foot of drift or cross cut

COPY


Sample # 158
IN = 3.8'
Pb - 0.45%
Ag - 0.26 ozs
Sample # 159
Pb - 13.16%
Ag 12.70 ozs
122' N-E
K-0.07

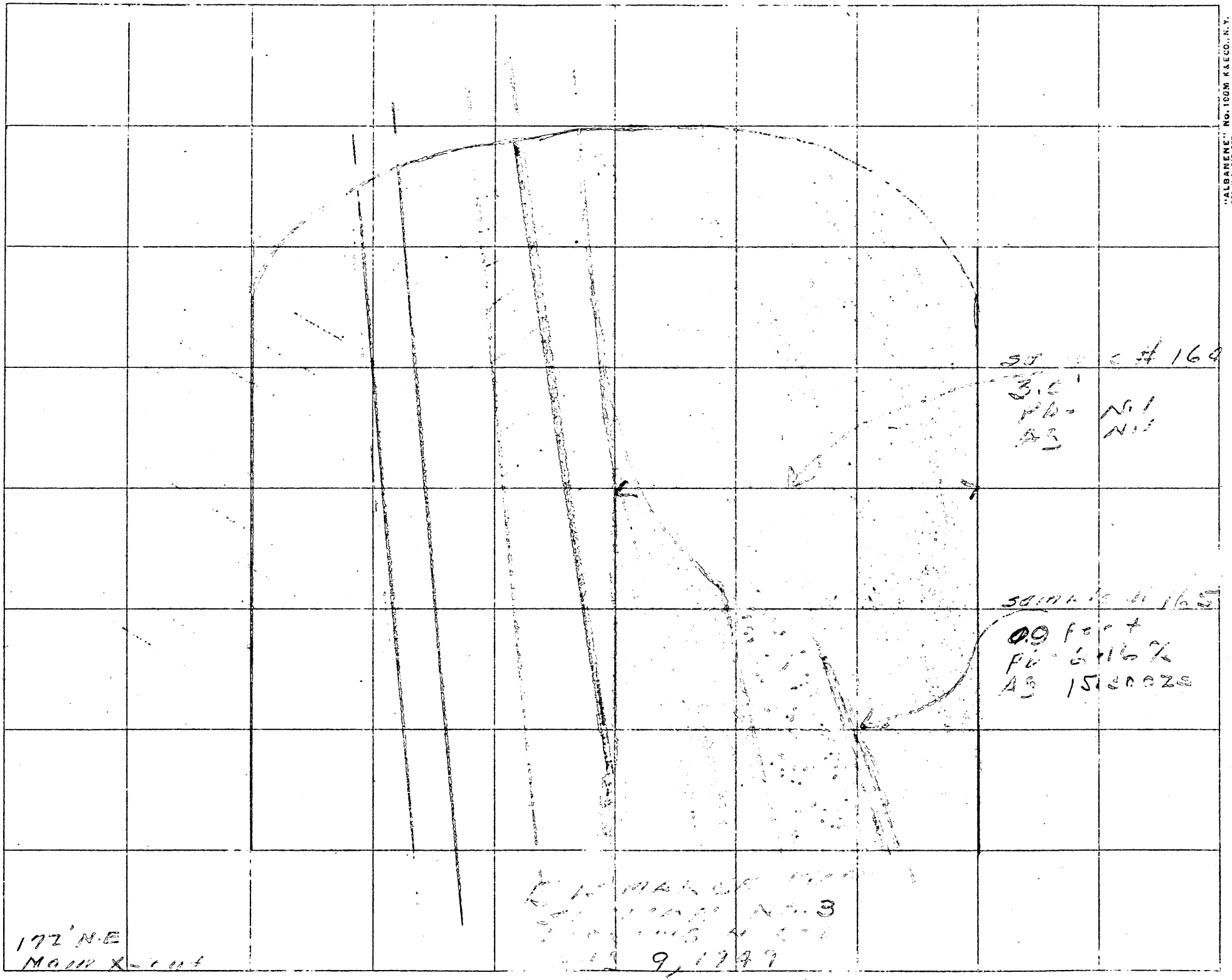
Bismarck Mining Company
209 Peyton Building
Spokane, Washington
PO Box 1788

Form MF-103

10 (a) One half of the proposed cost would be invested by operating Company.

(b) Could start within 60 days after receiving assurance of Government aid in one half the total cost of project.

COPY



"ALBANENE" No. 100M K&E CO., N.Y.
REG. U.S. PAT. OFF.

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMEA-2540

Date received 5-20-52

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 20 1952

Bismarck Mining Co.
209 Peyton Bldg
Spokane, Washington
Name and address of applicant

Date April 30 1952

INSTRUCTIONS

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

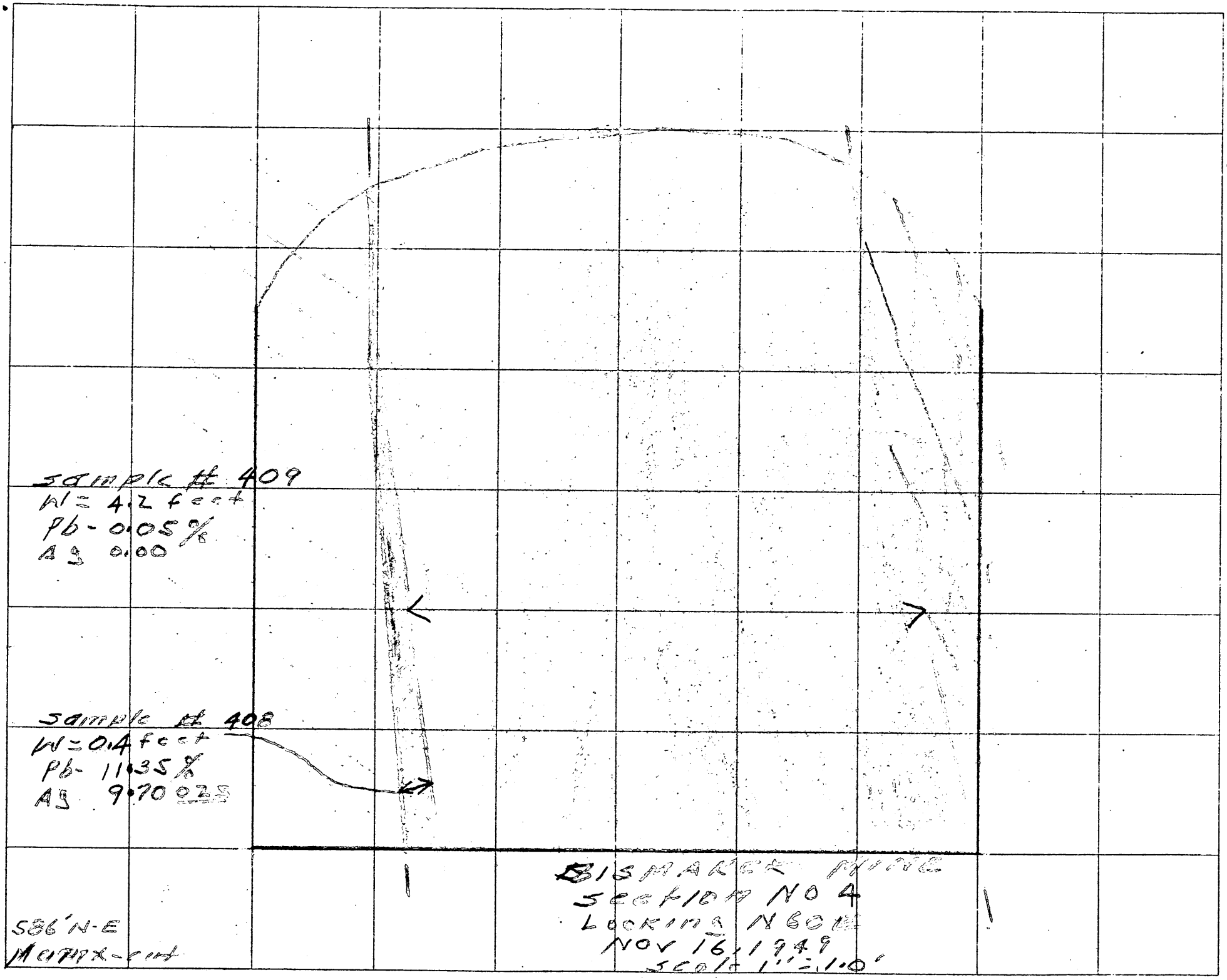
GENERAL TECHNICAL DATA

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

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

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



"ALBANENE" No. 195M K & E CO., N.Y.
REG. U.S. PAT. OFF.

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 x & xx (see below) (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)
Chas. A. Power 604 W.23rd Ave,Spokane,Wn.	President "D"	None	x xx	302,789	none	none	none
Robert M. Gammell Box 809, Kellogg, Ida.	V-Pres. "D" Gen. Mgr.	$7200	x xx	50,000	none	none	none
E. K. Barnes, V.-Pres. 1st Nat'l Bank,Spokane,Wn	Treasurer "D"	None	x xx	10,000	none	none	none
M. D. Swartley, 209 Peyton Bldg.,Spokane,Wn.	Secretary "D"	None	x xx	10,000	none	none	none
Paul L. Sandberg, 209 Peyton Bldg.,Spokane,Wn.			x xx	202,789	none		
Roland O. Barton, 201 Peyton Bldg.,Spokane,Wn.			x xx	40,000	none		
Cecil V. Stanfield, c/o The Pastime,Ritzville,Wn.			x xx	40,000	none		
	Total	$7200	x x x x x	655,578	none	x x x x x	x x x x x

If more lines are needed continue on separate sheet.

x-Information will be furnished if necessary

9. Capital Stock Issues:

For Corporate Applicants xx- See No. 17

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$150,000	$149,028.80	$ .10	1,490,288	none
Preferred stock	$ none	$ none	$ none	none	none

*Indicate period covered.

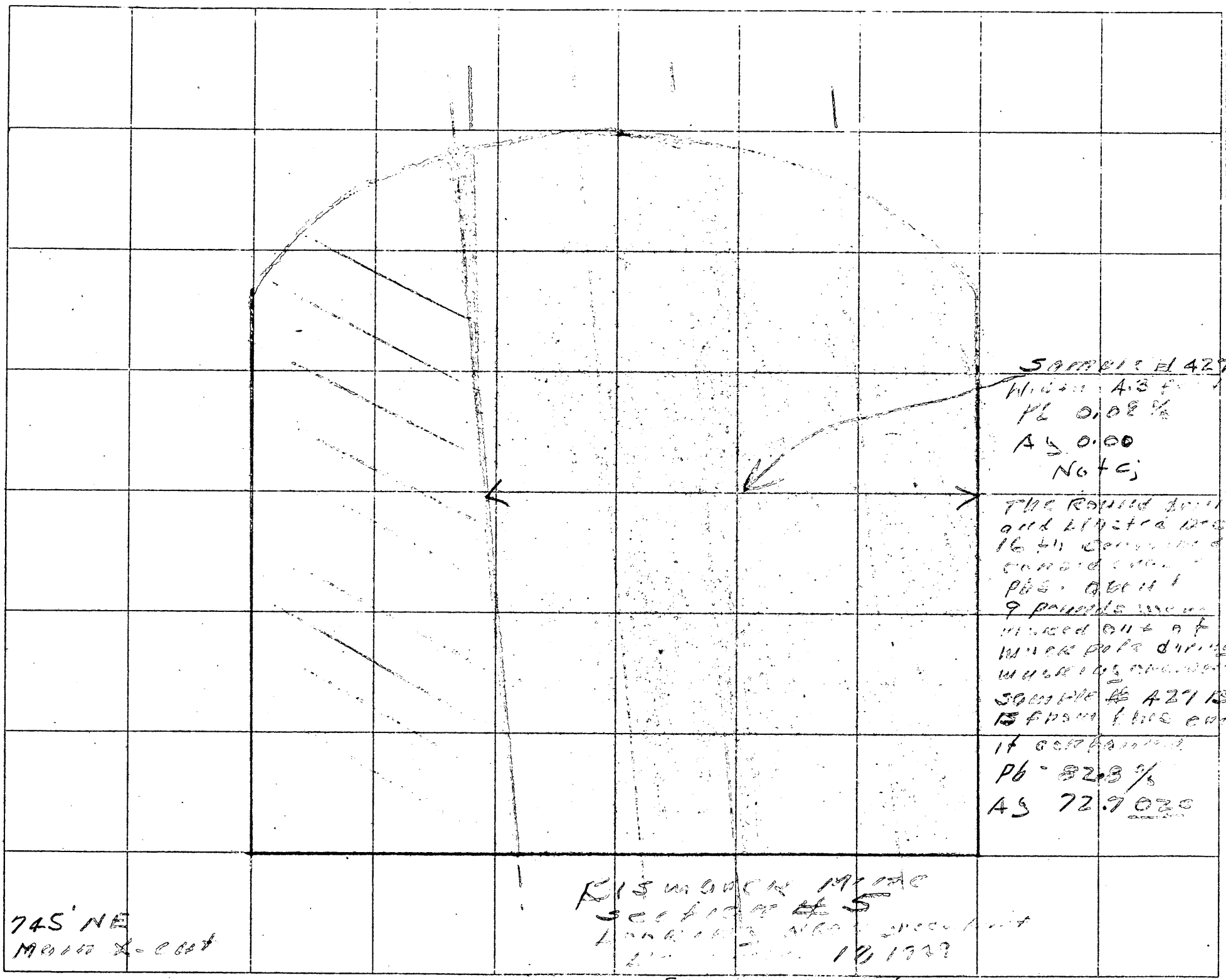
10. Production: inapplicable

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. inapplicable

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.



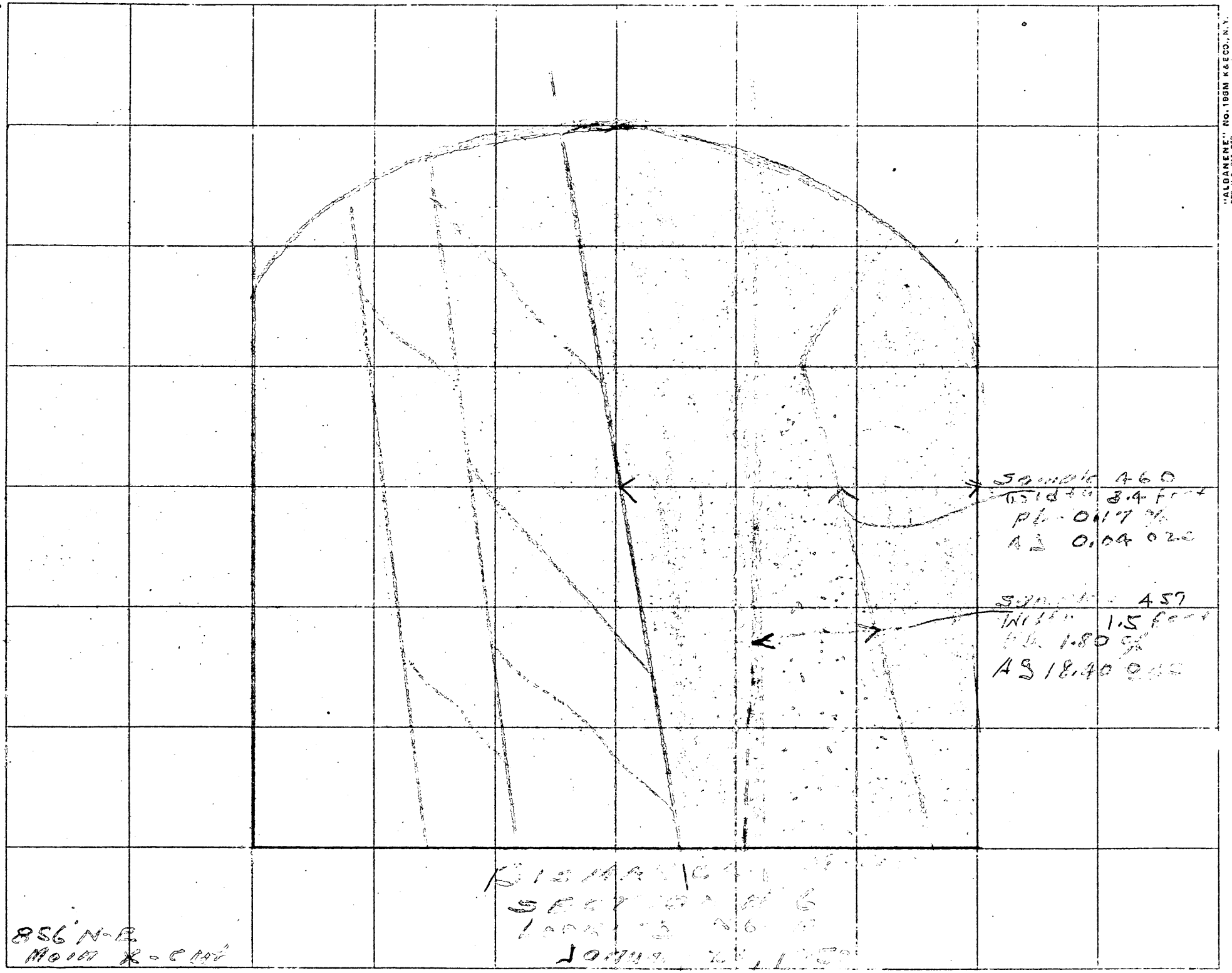
"ALBANENE" No. 10GM K&E CO., N.Y.
REG. U.S. PAT. OFF.

NON-PRIVILEGED DOCUMENT

TO BE PHOTOCOPIED AND PRODUCED

DO NOT CODE

BATES NO. 0381



"ALBANENE" No. 1 BGM K&E CO., N.Y.
REG. U.S. PAT. OFF

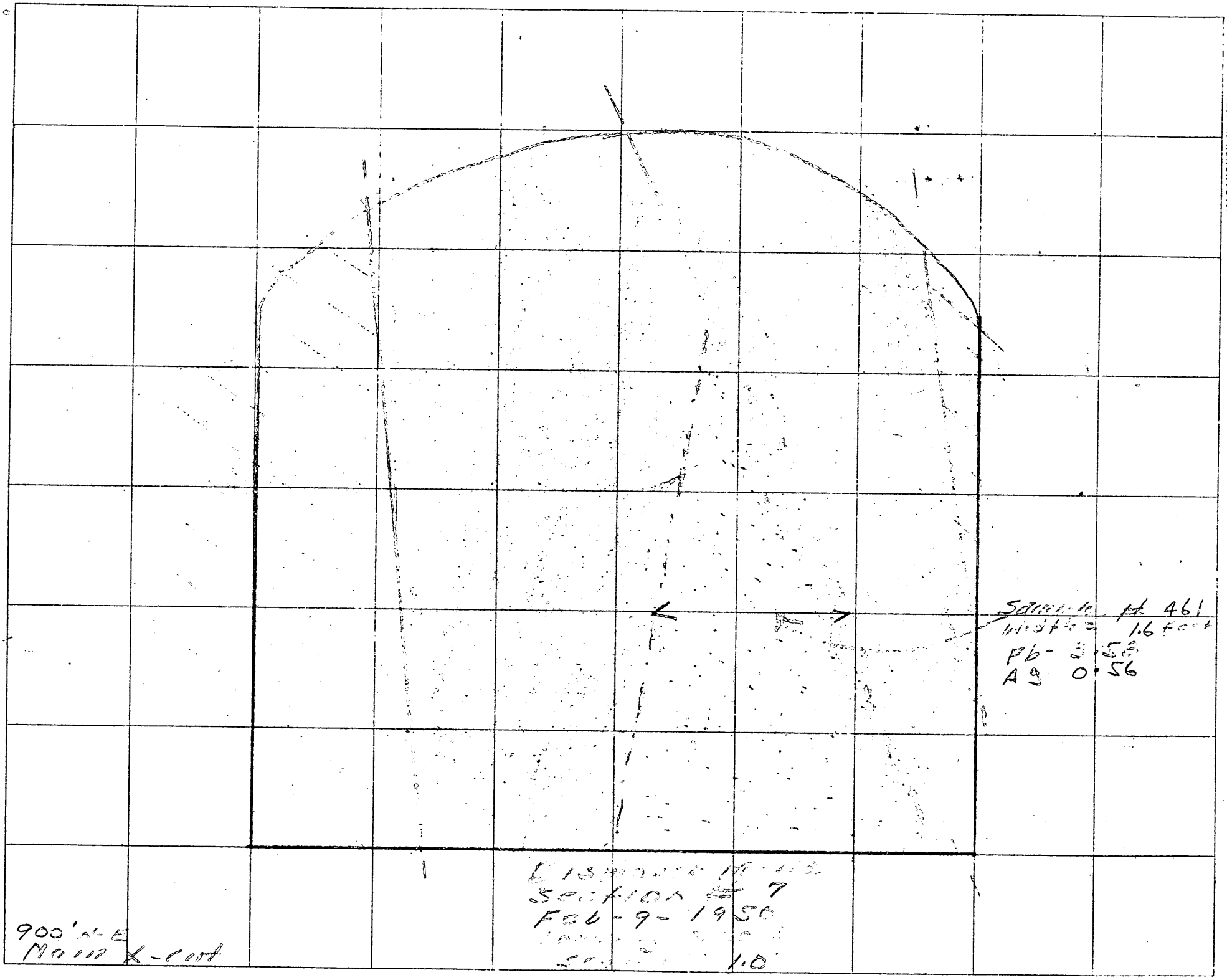
Bismarck Mining Conpany
209 Peyton Building
PO Box 1788
Spokane, Washington.

1- Materials Produced.

a- Chief products will probably be lead, copper &silver

b- none known

COPY



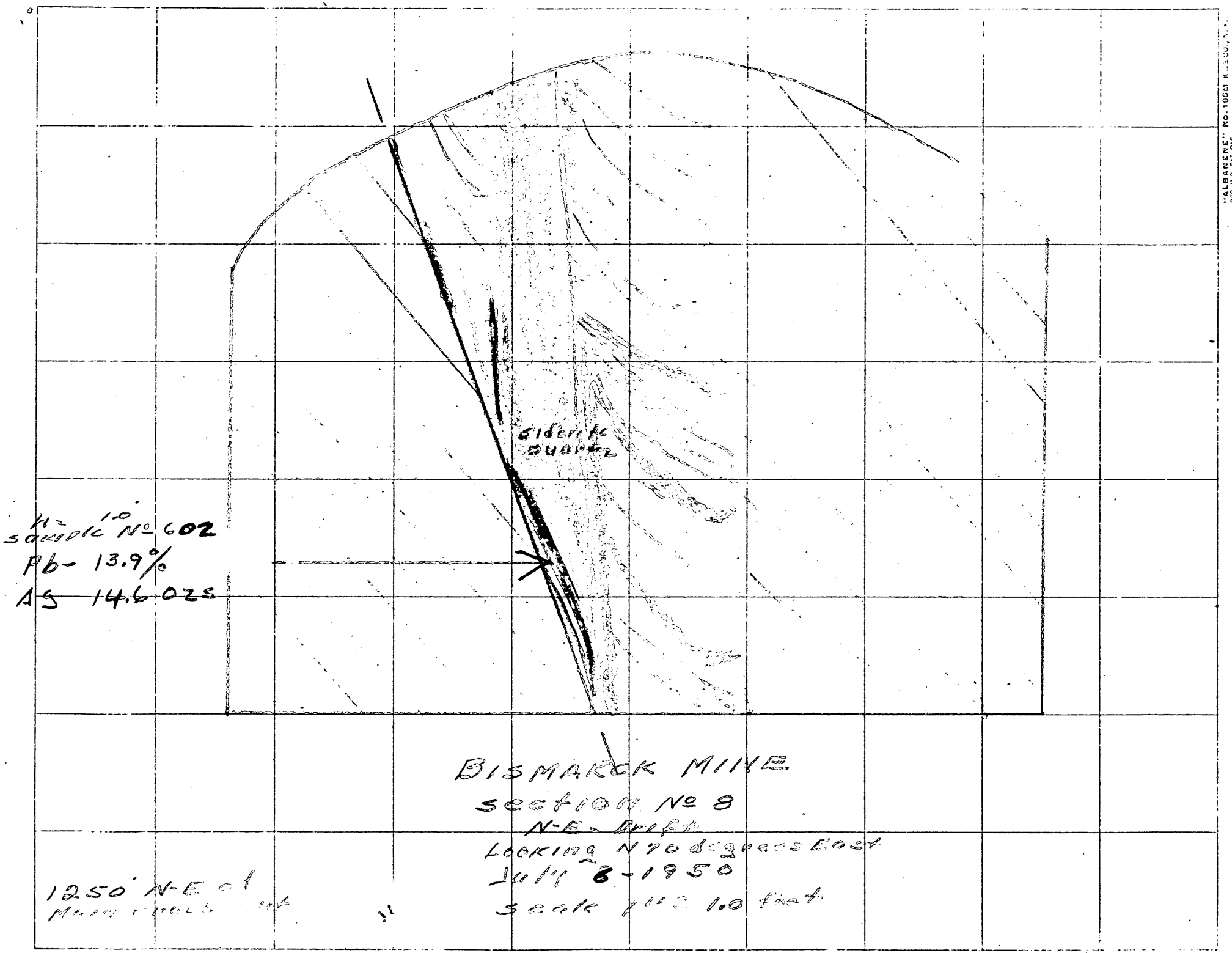
"ALBANENE" No. 190M K&E CO., N.Y.
REG. U.S. PAT. OFF
REG. U.S. PAT. OFF

NON-PRIVILEGED DOCUMENT

TO BE PHOTOCOPIED AND PRODUCED

DO NOT CODE

BATES NO. 0381

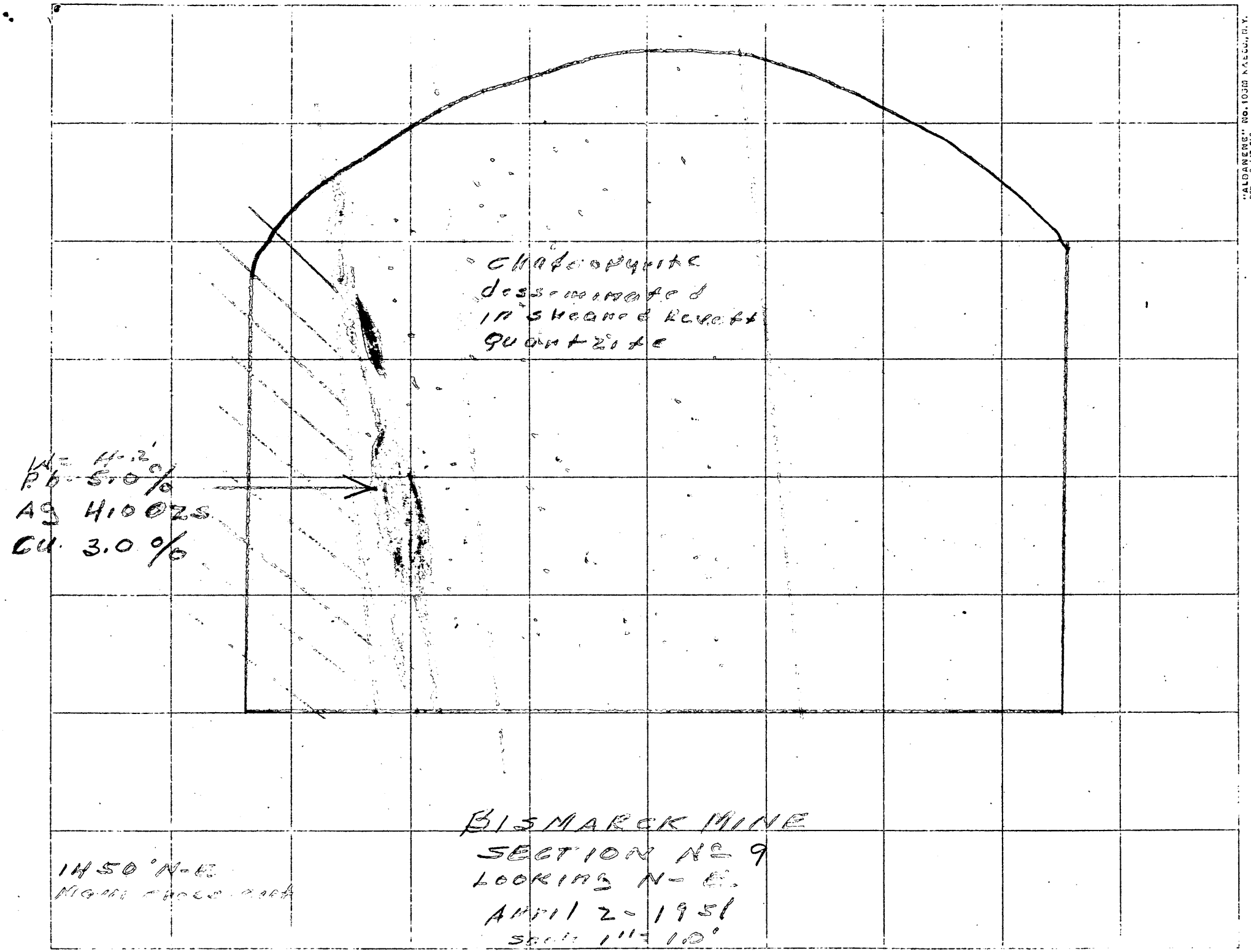

Siderite
Quartz
Hi-10
sample No 602
Pb- 13.9%
Ag 14.6 ozs
BISMARCK MINE
section No 8
N-E- Drift
Looking N 70 degrees East
July 6-1950
Scale 1" = 1.0 foot
1250' N-E of

Bismarck Mining Company
2- Bismarck Mine 100 Post Building
Spokane, Washington 20 Oct 1700

a-none

b- Main adit cross cut 1700 feet. Drifting 2030 feet. Cross cuts 650 feet. Total underground workings 4370 feet. All the workings are accessible.

COPY


Chalcopyrite
disseminated
in sheared Recent
quartzite
W= 4.2'
Pb. 5.0%
Ag 4.0 OZS
Cu. 3.0%
BISMARCK MINE
SECTION No 9
LOOKING N-E.
APRIL 2-1951
SCALE 1" = 1.0'
1H 50° N-E
NORTH FACE - 2004

Bismarck Mining Company
200 Peyton Building
Spokane, Washington PO Box 1708

3- a- eight miles by road southeast of Kellogg, Idaho

b-Yreka Mining District

c-Township 48 north- Section 28-29, Range 3 east.

d- Shoshone, County, Idaho.

COPY

Grand view Mines
310 Radio Central Bldg
Spokane 4, Wash.

DMA Exploration Loan Application

Bismarck Mining Company
4- 209 Peyton Building
a-Development Spokane, Washington December 1931 P.O. Box 1788

b-The Bismarck Mining Company is the owner of the property

COPY

Bismarck Mining Company
209 Peyton Building
Spokane, Washington PO Box 1788

5- Not in production, Possibly could be in production 1954 or 1955

COPY

Bismarck Mining Company
209 Peyton Building
Chas A.Powers Spokane,Washington PO Box 1788

6 a- The applicant has had about 35 years of general business experience.

b- Robert M.Gammell , Manager has had 30 years experience in mining engineering and mine management.

COPY

NON-PRIVILEGED DOCUMENT

TO BE PHOTOCOPIED AND PRODUCED

DO NOT CODE

BATES NO. 0381

Bismarck Mining Company
209 Peyton Building
Spokane, Washington PO Box 1788

7- History;

a- First development of the Bismarck mine was completed in about 1925-26 by the Bismarck Company which, was then controlled by Dutch interests in Holland, .The company at this time drove the present adit cross cut tunnel about 1300 feet.

The Holland interests in the Bismarck Company was purchased in 1940 by Spokane, Washington interests.

Road repair work and dozer trenching was started by the present Bismarck Company on July 2, 1948. Mining equipment and air compressor and building was completed October 1948. The old adit cross cut tunnel was enlarged for 1300 feet. From December 1948 to December 1951 the Bismarck company completed 2030 feet of drifting and 650 feet of cross cutting. Operations was suspended because it was believed that sufficient mineralized structure was developed to warrent deep development from the Sunshine Mining Company 3100 level.

It is proposed that the Bismarck Mining Company inter into a 50-50 participation agreement with the ~~XXXXXXX~~ Sunshine Mining company, for the development of the downward extention of the structure developed in the Bismarck adit level. The actual work would be done by the Sunshine mining Company ,from the Sunshine 3100 foot level. The 3100 foot level of the Sunshine is approximatly 3400 feet below the Bismarck adit level.

b-The Sunshine Mine has been and is now one of the major producing mines in the district.

c- See included report to Bismarck Company October 1951.

COPY

Bismarc Mining Company
209 Peyton Building
Spokane, Washington PO Box 1788

13- [illegible]

[illegible] on the [illegible] on the [illegible] [illegible] ello C. Idaho.
The roads are paved.

Bi[illegible]rck Mining Company
209 Peyton Building
Spokane, Washington PO Box 1788

14- Water Supply:

Water supply is from Big Creek and is sufficient for all seasons of the year.

COPY

Bismarck Mining Company
209 Peyton Building
Spokane, Washington PO Box 1788

15- Power;
Washington Water Power

COPY

Bismarck Mining Company
209 Peyton Building
Spokane, Washington PO Box 1788

15- inapplicable [illegible]

COPY

Bis[illegible]rck Mining Company
209 Peyton Building
Spokane, Washington PO Box 1788

17 Equipment and facilities:

In the working mining company would be doing the work under a 50-50 agreement, there is no question but that the outline mining company would have adequate equipment for exploration and mining.

COPY

Bismarck Mining Company
209 Peyton Building
Spokane, Washington PO Box 1788

12-

The part that contains that effect the operations is that a large company, the Sunshine Mining Company, will be actually doing the work on a 50-50 basis. This company has adequate equipment for any development or mining.

COPY

(*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 Inapplicable

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

(*c*) If placer:

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

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

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

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

Bismarck Mining Company
(Name of company)

By Chas. A. Power
(Signature of authorized official)

April 30, 1952
(Date)

President
(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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.
Co. 157 Howard Street
Spokane 1, Washington

DMEA

December 17, 1952

~~Contact~~
Betty

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 22 1952

Mr. Robert H. Sewell, Manager
Silver King Mining Company
P.O. Box [illegible]
Kellogg, Idaho

Re: Project No. [illegible]
Shoshone County, Idaho

Dear Mr. [illegible]:

We are making an effort to clarify the proposal submitted some time ago for an exploration project by the Silver King Mining Company, in order to note action one way or the other.

After a careful re-appraisal of the application we feel that the project, although very difficult to justify on specific data and direct evidence, does have a certain justification as an interesting "long shot" that not only may find ore on the Silver King property, but by so doing may stimulate further vigorous exploration in an entirely new and essentially unproven area. Confidence in the area's general potential is expressed by other companies in the form of such projects as the Metropolitan crosscut, etc.

One of the principal stumbling blocks we encountered on the part of the Washington office is the possibility that the project will result in discovery of silver ore only. Assume this is a possibility, we can see still another part the Silver King could be a producer of significant amounts of lead as well as producer of very appreciable amounts of copper from the tetrahedrite ore. The Silver area is in a different structural zone south and east of the Sunshine, and furthermore, is located on the south side of the big Osburn fault in quite a different province from that on the north side, and many of the factors affecting type of mineralization may be different. We cannot

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

Mr. F. X. C.

Would you like to take over on this case? It's unassigned

Noted

attach to file if any.

NON-PRIVILEGED DOCUMENT

TO BE PHOTOCOPIED AND PRODUCED

DO NOT CODE

BATES NO. 0381

of course, unless you are certain your office would consider these arguments valid.

However, before we send in our report and recommendations, it will be necessary to spell out in black and white the property ownership and working agreements for the several interests involved in the exploration. As I understand the situation, Ranchito Mine has a 50-50 perpetual working agreement with Metro Edition, with Sun Con., and with Bramark. If the contract is written in the name of the Ranchito Mining Company, you would have to obtain owner's consent to lien agreements from all the other companies, and then, finally, contract the job on a cost plus basis. Perhaps you have other arrangements in mind. In essence, the problem is who is to pay the 50 percent of the cost that is not being paid by the Government, and in addition, can owner's consent to lien agreements be obtained from all groups involved in the exploration so that the Government can have assurance of repayment should a discovery be made. Once these conditions can be clarified and resolved we will be justified in urging prompt action on the application. If there are any legal barriers to a solution, we would recommend that the application be withdrawn without prejudice with the understanding that it can be resubmitted should the financial difficulties be resolved and provided the DMEA is in operation at that time.

Sincerely yours,

A. . Alexandrov
Executive Officer, D. A
Field Ops., Region II

cc: USBM (2)
DMEA (2) ✓
Hobbs

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

[illegible]
[illegible] Street
[illegible], [illegible]

[illegible] 17, [illegible]

[illegible]
[illegible]
[illegible]
[illegible], Iowa

[illegible] No. [illegible]-2,10
[illegible], Iowa

Dear [illegible],

[illegible]

[illegible]

[illegible]

[illegible] **factors** [illegible]. [illegible] cannot

[illegible] would consider these arrangements [illegible].

However, before we [illegible] it will be necessary to [illegible] owners [illegible] and [illegible] interests involved in the exploration. As I understand the situation, [illegible] for a 50-50 joint venture [illegible] with [illegible], with [illegible], and [illegible]. [illegible] of the [illegible], we would have to obtain owner's consent [illegible] from all the other companies, [illegible] contract [illegible]. Moreover, the [illegible] is to [illegible] of the cost that is not [illegible], and in addition, [illegible] consent of the [illegible] for all [illegible] involved [illegible] and the [illegible] of [illegible] discovery [illegible]. These [illegible] clarified and resolved [illegible] [illegible] consultation. If there are any [illegible] barriers to a solution, [illegible] the [illegible] [illegible] the [illegible] that is [illegible] resolution should be [illegible] and [illegible] as [illegible] as possible at this time.

[illegible],

[illegible]
[illegible]
[illegible], [illegible]

cc: [illegible] (2)
[illegible] (2)
[illegible]

NON-PRIVILEGED DOCUMENT

TO BE PHOTOCOPIED AND PRODUCED

DO NOT CODE

BATES NO. 0381

FILE COPY
SURNAME:

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

500

BS

JUL 8 1952

Mr. Chas. A. Power
Bismarck Mining Company
P. O. Box 1788
209 Peyton Building
Spokane, Washington

Re: Docket No. DMEA 2540 (Lead-Copper)
Bismarck Mining Company

Dear Mr. Power:

Your application for Government assistance, Docket No. DMEA 2540, has been reviewed by the Base Metals Division of the Defense Minerals Exploration Administration, and has been referred to Mr. A. E. Weissenborn, Executive Officer, Region II, DMEA Field Team, South 157 Howard Street, Spokane 8, Washington for an investigation of your property as soon as practicable.

This Region office will contact you at their earliest opportunity in regard to your project.

Sincerely yours,

H. F. Keller, Acting Chief
Base Metals Division

7-8-52

HFKeller/mef/mb
7/2/52
cc to: Adm. R. File
Docket
Mr. Keller
Region II

FILE COPY
500 SURNAME:

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

H.F. Keller

JUL 8 1952

Mr. A. E. Weissenborn
Executive Officer, Region II
DMEA Field Team
South 157 Howard Street
Spokane 8, Washington

Re: Docket No. DMEA 2540 (Lead-Copper)
Bismarck Mining Company

Dear Mr. Weissenborn:

With reference to your letter of transmittal of May 14 on the subject application, in which you state that a copy of the application has been retained by your office for field team investigation and discussion, we are advising Mr. Power that he will be contacted by your office as soon as practicable.

Sincerely yours,

(signed) FRANK E. JOHNSON (JHB)

Chairman, Operating Committee

APPROVED:

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

S. M. Lemmon (JHB)
Member, Geological Survey

H.F. Keller/mb
7/2/52
cc to: Oper. Comm.
Adm. R. File
Docket
Mr. Keller
Mr. McKnight
Mr. Bishop
Region II

F.N.
7-8-52

EXPLORATION

Subject: DMEA-2540
Re: Bismarck Mine
Exploration Loan
May 20, 1952

Mr. Chas. A. Power
Bismarck Mining Company
P. O. Box 1788
209 Peyton Building
Spokane, Washington

My dear Mr. Power:

This will acknowledge receipt of your application dated April 30, 1952 for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMEA-2540 and referred to the Base Metals Division.

Kindly refer to DMEA-2540 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams
Administrative Officer

7862

DMEA-2540

OFFICE OF THE ADMINISTRATOR

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION

WASHINGTON 25, D. C.

So. 157 Howard Street
Spokane 4, Washington

May 14, 1952

Memorandum

To: Operating Committee, DMEA

From: A. E. Weissenborn, Exec. Officer, DMEA Field Team, Region II

Subject: Application of Bismarck Mining Company, 209 Peyton Building, P. O. Box 1788, Spokane, Washington

Enclosed are three copies of an application filed by the Bismarck Mining Company, 209 Peyton Building, P. O. Box 1788, Spokane, Washington, for the exploration of their property in the Coeur d' Alene district. One copy of the application is being retained for Field Team investigation. This application has been the subject of some previous correspondence because of the fact that the exploration will be done through the Sunshine shaft and although the operation could be completed within two years, it will actually take longer because of interference from the Sunshine mining operations.

A review of the application will be prepared. In addition to discussing the feasibility of the program, other questions such as the relation between the Sunshine Mining Company and the Bismarck Mining Company will be investigated and discussed.

A E Weissenborn

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 20 1952

Enclosures

cc: USBM, Spokane

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

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

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

Not To Be Filled in by Applicant

Docket No. DMEA-2540
Metal or Mineral
Date Received 5-20-52
Amount $
Participation (Government %)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 20 1952

Bismarck Mining Company
209 Peyton Bldg
Spokane, Washington
PO Box 1788
Name and address of applicant

Date April 30, 1952

If you have already filed MF-100, give date filed Yes 4-30/52 type of assistance requested Loan,

DMA Docket Number (if available)

INSTRUCTIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

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

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

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

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

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

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

CERTIFICATION

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

Bismarck Mining Company
(Name of company)

By Chas. A. Power
(Signature of authorized official)

April 30, 1952
(Date)

President
(Title)

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

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

Bismarck Mining Company
209 Peyton Building
Spokane,Washington
Po Box 1788
April 30,1952

Form MF 103

Claims Nos

1 (a) Bismarck Company property consisting of- Bismarck 1 &3 Patent 3320,New York No.1 Patent No.3319 and New York No.2,4,5,Bismarck No.4,5, H.W 1to 13, Johnson No.1&2, Forrester No.1&2 May All claims listed without survey numbers are held by location.

Part of the Sunshine Mining Company property holdings

(b) The Bismarck Company is the owner of the mining claims listed above.

(c) Same as listed under a above.

Bismarck Mining Company
909 Peyton Building
Spokane, Washington PO Box 1788
April 30,52

Form MF103

2 (a) Lead, Copper, Silver

(b) See included report

NON-PRIVILEGED DOCUMENT

TO BE PHOTOCOPIED AND PRODUCED

DO NOT CODE

BATES NO. 0381

Bismarck Mining Company
209 Peyton Building
Spokane, Washington
April 30 ,1952

Form MF 103

3 (a) About 7000 feet of drifting and cross cutting ,costing $311,500.00
5000 feet of diamond drilling @ $6.00 per foot 30,000.00
Estimated total cost------ $351,500.00

3 (b) Three to four Years

NON-PRIVILEGED DOCUMENT

TO BE PHOTOCOPIED AND PRODUCED

DO NOT CODE

BATES NO. 0381

Bismarck Mining Company
209 Peyton Building
Spokane, Washington.
PO Box 1788

Form MF-103

5 to 9 included in cost per foot of drift or cross cut

Bismarck Mining Company
209 Peyton Building
Spokane, Washington
PO Box 1788

Form MF-L03

10 (a) One half of the prpposed cost would be invested by operating Company.

(b) Could start within 60 days after receiving assurance of Government aid in one half the total cost of project.

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMEA-2540

Date received 5-20-52

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 20 1952

Bismarck Mining Company
2 09 Pettyon Bldg
Spokane, Washington

Name and address of applicant

Date April 30, 1952

INSTRUCTIONS

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

GENERAL TECHNICAL DATA

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

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

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

RECEIVED
MAY 14 1952
U. S. G. S.
SPOKANE, WASH.

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)
			x x x x x (see below)				
Chas. A. Power 604 W.23rd Ave.,Spokane,Wn.	President "D"	None	x xx	202,709	none	none	none
Robert W. Carnell Box 209, Wallace, Ida.	V-Pres. "D" Gen. Mgr.	$7200	x xx	50,000	none	none	none
B. K. Barnes, V.-Pres. 1st Natl Bank,Spokane,Wn	Treasurer "D"	None	x xx	10,000	none	none	none
M. D. Swartley, 209 Peyton Bldg.,Spokane,Wn.	Secretary "D"	None	x xx	10,000	none	none	none
Paul L. Sandberg, 209 Peyton Bldg.,Spokane,Wn.			x xx	202,709	none		
Roland O. Barton, 201 Peyton Bldg.,Spokane,Wn.			x xx	40,000	none		
Cecil V. Stanfield, c/o The Pastime,Ritzville,Wn.			x xx	40,000	none		
	Total	$7200	x x x x x	655,570	none	x x x x x	x x x x x

If more lines are needed continue on separate sheet.

x-Information will be furnished if necessary

9. Capital Stock Issues:

For Corporate Applicants xx- See No. 17

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$150,000	$149,028.00	$ .10	1,490,280	none
Preferred stock	$ none	$ none	$ none	none	none

*Indicate period covered.

10. Production: Inapplicable

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 Inapplicable

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

(*c*) If placer:

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

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

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

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

Bismarck Mining Company
(Name of company)

By Chas A. Power
(Signature of authorized official)

April 30, 1952
(Date)

President
(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

Bismarck Mining Conpany
209 Peyton Building
PO Box ~~XXX~~ 1788
Spokane,Washington.

1- Materials Produced.

a- Chief products will probably be lead,copper &silver

b- none known

NON-PRIVILEGED DOCUMENT

TO BE PHOTOCOPIED AND PRODUCED

DO NOT CODE

BATES NO. 0381

2- Bismarck Mine- Lode mine

a-none

b- Main adit cross cut 1700 feet.Drifting 2030 feet. Cross cuts 650 feet. Total underground workings 4370 feet. All the workings are accessible.

Bismarck Mining Company
209 Peyton Bldg
Spokane, Washington Box 1700

3-

a- eight miles by road southeast of Kellogg, Idaho

b-Yreka Mining District

c-Township 48 north- Section 28-29, Range 3 east.

d- Shoshone, County, Idaho.

Bismarck Mining Company
209 Peyton Bldg
Spokane, Washington PO Box 1788

4-

a-Development was suspended December 1951

b-The Bismarck Mining Company is the owner of the property

Bismarck Mining Company
209 Peyton Bldg
Spokane,Washington PO Box 1788

5- Not in production,Possibly could be in production 1954 or 1955

Bismarck Mining Company
209 Peyton Bldg
Spokane, Washington PO Box 1788

6. Chas A. Powers

a- The applicant has had about 35 years of general business experience.

b- Robert M. Gammell , Manager has had 30 years experience in mining engineering and mine management.

NON-PRIVILEGED DOCUMENT

TO BE PHOTOCOPIED AND PRODUCED

DO NOT CODE

BATES NO. 0381

Bismarck Mining Company
[illegible]09 Peyton Building
Spokane,Washington Po Box [illegible]88

7- History;

a- First development of the Bismarck mine was completed in about 1925-26 by the Bismarck Company which,was then controlled by Dutch interests in Holland, .The company at this time drove the present adit cross cut tunnel about 1300 feet.

The Holland interests in the Bismarck Company was purchased in 1940 by Spokane,Washington interests.

Road repair work and dozer trenching was started by the present Bismarck Company on July 2,1948. Mining equipment and air compressor and building was completed October 1948. The old adit cross cut tunnel was enlarged for 1300 feet. From December 1948 to December 1951 the Bismarck company completed 2030 feet of drifting and 650 feet of cross cutting. Operations was suspended because it was believed that sufficient mineralized structure was developed to warrent deep development from the Sunshine Mining Company 3100 level.

It is proposed that the Bismarck Mining Company inter into a 50-50 participation agreement with the ~~XXXXXXXX~~ Sunshine Mining company, for the development of the downward extention of the structure developed in the Bismarck adit level. The actual work would be done by the Sunshine mining Company ,from the Sunshine 3100 foot level. The 3100 foot level of the Sunshine is approximately 3400 feet below the Bismarck adit level.

b-The Sunshine Mine has been and is now one of the major producing mines in the district.

c- See included report to Bismarck Company October 1951.

Bismarck Mining Company
09 Peyton Building
Spokane,Washington Po Box 1788

13- Access roads;

Mine is about three miles from a shipping point on the railroad, and about 6 miles from Kellogg,Idaho. The roads are paved.

Bismarck Mining Company
09 Poyton Building
Spokane, Washington Po Box 1788

14- Water Supply;

Water supply is from Big Creek and is sufficient for all seasons of the year.

Diamond Mining Company
100 Peyton Building
Spokane, Washington Po Box 1700

15- Power;
Washington Water Power

16- inapplicable as we have not started project

17 Equipment and facilities;

As the Sunshine mining Company would be doing the work under a 50-50 agreement,there is no question but what the sunshine mining company would have adequate equipment for exploratiom and mining.

The particular conditions that effect the operatioms is that a large company, the Sunshine Mining Company, will be actually doing the work on a 50- 50 basis.This company has adequate equipment for any development or mining.