DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 3312

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 Assistance

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.

Cys to USBM & USGS

Routing Slip

To:	500	Date	4/16/54
To:	Oper Com	Date	6-4-54
To:	Oper. Com	Date	11-15-54
To:	Oper Com	Date	1-19-54
To:	Oper Com	Date	2-7-55
To:		Date	
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DO NOT DETACH

CONTROLLED DOCUMENT

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
9/28		110
		220

SEP 28 1967

Mrs. Jerlie J. Eckerson
P. O. Box 267
Boulder, Montana 59632

Re: DMEA-3312 (Lead-Zinc-Copper)
Mrs. Jerlie Eckerson
Belle Mine
Jefferson County, Montana

Dear Mrs. Eckerson:

A copy of your letter of September 20, 1967, to our office in Spokane, Washington, requesting copies of reports made by Government representatives in connection with the subject application for aid in an Exploration Project under the former DMEA program, has been referred to this office.

We regret that we cannot furnish you with copies of the reports mentioned in your letter as such reports are for the confidential use of the Government and are not made available to the public. However, we are enclosing a copy of a map of your property submitted with these reports showing the geology of the Bell Mine with available assay data.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

Enclosure

cc: Director's reading file
Division file
Economic Geology file
OME file
OME reading file
OME Region I
FEJohnson/bih 9/28/67

23263

GEOLOGICAL SURVEY
So. 157 Howard Street
Spokane, Washington 99204
September 21, 1967

OFFICIAL
COPY
O. M. E.
RECEIVED
SEP 22 1967
INITIALS | CODE
gla | 130
~~120 M~~
110
2-2-0

Mrs. Jerlie J Eckerson
P. O. Box 267
Boulder, Montana 59632

Re: DMEA-3312 (Lead-Zinc-Copper)
Mrs. Jerlie Eckerson
Belle Mine
Jefferson County, Montana

Dear Mrs. Eckerson:

This will acknowledge receipt of your letter dated September 20, 1967, to this office in regard to any reports we might have on your property written by Messrs. Weeks and Bardill.

You letter is being referred to our Washington, D. C. office for reply

Sincerely yours,

Mary L. Smelser for
D. R. MacLaren
Field Officer, OME
Region I

MLSmelser/mls

cc: OME w/cpy incoming

Director's Reading File

C O P Y C O P Y

Boulder, Montana

Sept. 20, 1967

Minerals Exploration Dept.

Spokane, Wash.

Dear Sir:

I would like to have any reports you have on my mine, Docket No. DMEA-3312, Belle Mine, Jefferson County, Montana.

These reports were made by Mr. Weeks, and Mr. Bardill.

If there is any charge for these let me know and I'll send you the money.

Thank you

/s/ MRS. JERLIE J. ECKERSON
Box 267
Boulder, Mont.

Re: DMEA-3312 (Lead-Zinc-Copper)
Mrs. Jerlie Eckerson
Belle Mine
Jefferson County, Montana

(Appln. withdrawn 2/11/55)

4-52

OFFICE FILE COPY
DMEA
RECEIVED JAN 22 1957

DATE	INITIALS	CODE
1-23	C	220
		225

Sa. 157 Howard Street
Spokane 4, Washington

January 18, 1957

Mr. James D. Eckerson
1917 Harrison Avenue
Butte, Montana

Re: Docket No. DMEA-3312 (Lead-Zinc-Copper)
Mrs. Jerlie J. Eckerson
Belle Mine
Jefferson County, Montana

Dear Mr. Eckerson:

Your letter seeking advice on the Belle mine has prompted me to review the correspondence with your mother and my field notes on the mine. I have also discussed the property with the Defense Minerals Exploration Administration personnel in this office. Inasmuch as I am not directly concerned with DMEA any longer, what I will say here is by way of advice.

First, let me correct one statement in your letter -- you said something to the effect that your mother obtained the first loan. This is not strictly accurate, since she withdrew her application before it was acted on, and no contract was ever negotiated between your mother and DMEA. At the time of your mother's application I submitted a letter to Washington, D. C., in which I described the mine and discussed the problems your mother would have to face in exploring it. The immediate problem that caused your mother to withdraw her application was the problem of financing her share of any program. Specific details of an exploration program were never developed, and the problem of repairing the road to the mine was mentioned, but no action was taken.

With this somewhat gloomy preamble out of the way I would like to proceed with the more cheerful chore of advising you on what you can do. First, you will have to make a new application for a DMEA loan, according to the letter sent to your mother on January 8, 1957. In applying, you should refer to your mother's previous application and particularly to our letter of June 18, 1954, a copy of which we are enclosing for your convenience.

Your new application should give in as great detail as possible your proposed exploration program, your proposed method of

financing the program and your proposed method of doing the work, that is, whether the actual mining will be done by subcontracting the work with inspections at regular intervals by a competent superviser or consultant, or by miners employed by you under the supervision of a skilled miner or by some other method. Further, you should make inquiry of the Forest Service to see if any work is going to be done on the road to the mine.

Before any contract is granted, DMEA field men will undoubtedly want to visit the mine to ascertain the conditions apt to be encountered in mining and to determine whether the program you propose is feasible. To do this, they will almost certainly want to gain access to as much of the mine as possible. You mentioned that no mining had been done in the last two years and that the mine has suffered additional caving. It might be well for you to be sure of the exact amount of accessible workings and the estimated amount of time required to rehabilitate the adit for thorough examination. If the work is not too costly, it would certainly be to your advantage to clean out the adit, since any further work will certainly require this as a first step. It would also permit you to plan better what kind of exploration program will be of most benefit.

I sincerely recommend that you obtain the services of a competent mining engineer or geologist to assist you in planning an exploration program and that, if your are granted a contract, you retain him to supervise, or at least to check on, the progress of your exploration.

Sincerely yours,

Robert A. Weeks
Geologist

Enclosure
: DMEA(2) w/cy incoming
USMM(2) do.
Weeks do.

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 22 1957

DATE	INITIALS	CODE

File Copy
Surname
J. A. Kimmel

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

MAR 7 - 1955

Mrs. Jerlie J. Eckerson

Boulder, Montana

Re: Docket No. DMEA-3312 (Lead-Zinc-Copper)
Mrs. Jerlie J. Eckerson
Belle Mine
Jefferson County, Montana

Dear Mrs. Eckerson:

This is to acknowledge your letter of February 26, 1955 and to advise you that when you can finance your share of the cost of an exploration project on your property, you may again file an application for Government exploration assistance. If you decide to file another application, please send it to:

Mr. A. E. Weissenborn
Executive Officer
DMEA Field Team, Region I
Northwest District
South 157 Howard Street
Spokane 4, Washington

We suggest that if you do file another application, that you supply a property map showing your claims and where the proposed work is to be done.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

VAlt/er 3/7/55
Copy to: - Docket
Admr. R. File
Op. Committee
Base Metals
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Region I (2)
Chron.

Department of the Interior
Defense Minerals Administration
RECEIVED
MAR 2 - 1955
3/4/55-4:00 P.M. Received by Lina.

Boulder, Montana
Feb. 26, 1955

C. O. Mathendorf
Washington D. C.

Docket no.
DMEA-3312
Belle Mine
J. J. C.

Dear Sir:

I did not want this application for Government exploration assistance to be with drawn, but seem Mr. Weissenborn thought it should as I had not got started, or raised the necessary money to equal the (G.E.A.).

I have men interested and expect to get started this summer. this is a very good property, and I hope I can apply for the loan again, if necessary.

Sincerely,
Mrs Jerlie J. Eckerson.

File Copy
Surname

J. M. Alt
Selfridge
E. Johnson

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

FEB 11 1955

Mrs. Jerlie J. Eckerson

Boulder, Montana

Re: Docket No. DMEA-3312 (Lead-Zinc-Copper)
Belle Mine
Jefferson County, Montana

Dear Mrs. Eckerson:

This is with reference to the cited application for Government exploration assistance. As you have not replied to Mr. A. E. Weissenborn's letter dated November 22, 1954, we assume that you no longer wish to pursue the matter of your application for exploration assistance. Therefore, we are placing it in our inactive files.

We regret the necessity of this; however, it is done without prejudice to your property.

Sincerely yours,

C. O. Mittendorf

Administrator

JWAlt/er (rewritten 2/9/55)
bjl (written 2/7/55)

Copy to: Docket
Admr. R. File
Op. Committee
Base Metals
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Region I, Northwest Dist. (2)
Chron.

R.C.L.

File Copy
Surname
J. W. Alt.
Franzwell
Kiilsgaard
Hedges

UNITED STATES 500
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

Mrs. Jerlie J. Eckerson

Boulder, Montana

Re: Docket No. DMEA-3312 (Lead-Zinc-Copper)
Belle Mine
Jefferson County, Montana

Dear Mrs. Eckerson:

This is with reference to the cited application for Government exploration assistance. As you have not replied to Mr. A. E. Weissenborn's letter dated November 22, 1954, we assume that you no longer wish to pursue the matter of your application for exploration assistance. Therefore, we are withdrawing your application and placing it in our inactive files.

We regret the necessity of this; however, it is done without prejudice to your property.

Sincerely yours,

Administrator

JWAlt/bjl (2/7/55)

Copy to: Docket
Admr. R. File
Op. Committee
Base Metals
Mr. Bishop
Mr. Kiilsgaard
Region I (N.W.Dist.) (2)
Chron.

UNITED STATES 500
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

February 7, 1955

Memorandum

To: Chief, Operations Control & Statistics Division

From: Chief, Base Metals Division

Subject: Withdrawal of Mrs. Jerlie J. Eckerson's application Docket No. DMEA-3312 (Lead-Zinc-Copper), Belle Mine, Jefferson County, Montana

Will you please withdraw the cited application from the active files. The Applicant has not replied to A. E. Weissenborn's letter of November 22, 1954. Apparently she has not been able to finance her share of the costs of the proposed exploration project.

W. R. Griswold

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 - 3 1955

January 31, 1955

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

Re: Docket No. DMEA-3312 (lead-zinc-copper)
Mrs. Jerlie J. Eckerson
Belle Mine
Jefferson County, Montana

Dear Mr. Selfridge:

In answer to your letter of January 19, 1955, we must report that we have had no answer to our letter of November 22, 1954, to Mrs. Eckerson. In this letter we stated that we would consider the application withdrawn if we did not hear from her in 30 days.

Inasmuch as more than 60 days have elapsed, the application can well be withdrawn from the active files.

By Field Team, Region I
Northwest District

Thomas E Howard
For: Wing G. Agnew, Acting Exec. Officer
U. S. Bureau of Mines

John S. Vhay
John S. Vhay, Acting Member
U. S. Geological Survey

cc: USBM (2)

500

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

JAN 19 1955

Mr. A. E. Weissenborn
Executive Officer, Northwest District
DMEA Field Team, Region I
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA-3312 (Lead-Zinc-Copper)
Mrs. Jarlie J. Eckerson
Belle Mine
Jefferson County, Montana

Dear Mr. Weissenborn:

This is with reference to your letter of November 22, 1954, regarding the cited application. You stated that you were notifying the Applicant on that date that her application for exploration assistance would be withdrawn within thirty days unless she furnished information that she was able to supply her share of the funds necessary to enter into a contract.

To date we have heard nothing further from you, and request that you notify us as to whether or not you have heard from Mrs. Eckerson. If you have not heard from her, we will withdraw the application from our active files.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (JHB)

APPROVED:

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

E. L. Newcomb (JHB)
Member, Geological Survey

JWAlt/bjl (1/17/55)

Copy to: Docket
Admr. R. File
Op. Committee
Base Metals
Mr. Bishop
Mr. Kiilsgaard
Chron.

R.C.B.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

November 22, 1954

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

Re: Docket No. DMEA-3312 (lead-zinc-copper)
Mrs. Jerlie J. Eckerson
Belle Mine
Jefferson County, Montana

Dear Mr. Selfridge:

Reference is made to your letter of November 15, 1954, concerning the status of the above-cited application.

The last correspondence had with the applicant was our letter to her of June 23, 1954. Unfortunately, we left the thing wide open with no definite deadline for her to tell us that she is prepared to go ahead with the exploration.

We have written Mrs. Eckerson today to correct this condition. We are sorry this application has remained on the books so long without remedial action being taken.

Sincerely yours,

A. E. Weissenborn

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

cc: USBM (2)
Weeks

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 29 1954

XXXXXXXXXXXXXXXXXX
So. 157 Howard Street
Spokane 4, Washington

November 22, 1954

Mrs. Jerlie J. Eckerson
Boulder
Montana

Re: Docket No. DMEA-3312 (lead-zinc-copper)
Mrs. Jerlie J. Eckerson
Belle Mine
Jefferson County, Montana

Dear Mrs. Eckerson:

We have again received inquiries from Washington as to your intentions about your application for an exploration project contract. We would suggest that if you have not yet been able to acquire funds to finance your share of the proposed exploration that you formally withdraw your application. Such a withdrawal would, of course, be without prejudice and we would be glad to consider a new application at any time you might wish to submit it.

If we have not heard from you in 30 days we will consider the application withdrawn.

Sincerely yours,

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

cc: DMEA (2)
USBM (2)
Weeks

File Copy
Surname

J. W. Alt.
Selfridge
Johnson
Mitchenoff

UNITED STATES
DEPARTMENT OF THE INTERIOR 500
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

NOV 15 1954

Mr. A. E. Weissenborn
Executive Officer
DMEA Field Team, Region II
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA-3312 (Lead-Zinc-Copper)
Mrs. Jerlie J. Eckerson
Belle Mine
Jefferson County, Montana

Dear Mr. Weissenborn:

Will you please advise us regarding the status of the cited application. The last correspondence that is in our file pertaining to this application is a copy of a letter from you to the Applicant, dated June 23, 1954.

We would appreciate hearing from you at your earliest convenience regarding this application.

Sincerely yours,

George C. Selfridge by EST
Chairman, Operating Committee

APPROVED:

T. E. Hedges by EST
Member, Bureau of Mines

E. L. Newcomb by EST
Member, Geological Survey

JWAlt/er 11/10/54

Copy to: Docket
Admr R File
Base Metals
Op. Committee
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
No. 157 Howard Street
Spokane 4, Washington

June 23, 1954

Mrs. Jerlie J. Anderson
Boulder
Montana

Re: Docket No. [illegible]-5312 (lead-zinc-copper)
Belle Mine
Jefferson County, Montana

Dear Mrs. Anderson:

We were glad to receive your letter of June 21, 1954. As explained in our previous letter, we will defer action until you can advise us that you will have the funds available to finance your share of the proposed exploration of the Belle Mine.

Sincerely yours,

A. [illegible] Eisenberg
Executive Officer, DMEA
Field Team, Region II

cc: DMEA (2)
USBM (2)
Weeks

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

June 18, 1954

Mrs. Jerlie J. Eckerson
P. O. Box 148
Boulder, Montana

Re: Docket No. DMEA-3312 (lead-zinc-copper)
Belle Mine
Jefferson County, Montana

Dear Mrs. Eckerson:

Reference is made to your application for a DMEA contract to explore your Belle mine in Jefferson County, Montana. You will recall that in April of this year you were visited by Mr. Robert Weeks, Geological Survey, and Mr. Jack Bardill, Bureau of Mines, both men inquiring as to your proposed exploration plans. Their reports have since been forwarded to Washington, D. C.

Careful study of your application and of Weeks' and Bardill's reports raises some questions, which, we believe, should be carefully considered before a contract is negotiated. For example, we believe the work you propose to do will cost more than you have estimated. We note that you propose to drive 500 feet of tunnel at a cost of $7,500, or at a unit cost of $15 per foot. Our experience, in over 180 DMEA contracts, is that drifting costs will probably range somewhere between $30 and $45 per foot, depending upon various circumstances at the mine. These anticipated increases in costs raise serious doubts in our minds as to whether you will be able to meet your share of these higher exploration costs. We appreciate your desire to explore your mine, yet at the same time we do not believe it would be wise for you to embark on a costly exploration program unless you are perfectly sure that you are adequately financed to meet any incurred costs. It would not be to the best interests of either yourself or the Government to commence a project, spend thousands of dollars in the initial phases of the work, and then find it necessary to abandon the project short of completion because of financial stress. We note that you propose to finance part of your expenses by the work of your son and by the sale of ore from the exploration heading. While your son may be of excellent assistance to you, and certainly is to be admired for offering his services on your behalf, still the financial help that his labor will produce will be very small with respect to over-all expenses of the proposed work. Further, we have not been in business with a single DMEA contract that has been able to extract its share of expenses from ore sold from exploration headings. Practically all mines require the

expenditure of considerable capital beyond the exploration costs before they are ready to produce any amount of ore, and we do not believe your mine will prove to be an exception. Therefore, we strongly suggest that you consider funds from ore sold during exploration as a potential added income, but that you not consider them in any way as a means of financing your share of the exploration costs. With these thoughts as a background, we must inform you that the Government cannot consider entering into a DMEA contract with you unless you can give adequate proof of being financially able to meet your share of the exploration costs.

Another point we have been concerned with involves a manager to supervise your proposed work. We believe you should engage a competent manager to assist you in planning your proposed work and to supervise operations once they were under way. The services of a competent engineer would be expensive, but by engaging such a man you would gain in the long run as he would be able to cut costs by efficient and better workmanship. He would also give both yourself and the Government assurance that exploration funds were being wisely spent and in such a manner that maximum information was being obtained by minimum expenditures. Inasmuch as we are accountable to DMEA for the expenditure of Government funds, we would have to insist that a competent and experienced manager be retained before we could consider entering into an exploration contract.

We invite your consideration of this letter. If you can offer proof that you are financially able to participate in your share of the costs of the proposed work and if you will agree to engage a competent manager to supervise the operations, please inform us and we will proceed with the drawing up of a contract. If, however, you believe that you cannot give assurance of meeting these obligations, it is suggested that you withdraw your application, as it would be detrimental both to you and the Government to enter into an exploration contract that might have to be abandoned short of completion.

By Field Team, Region II

Wing G. Agnew, Acting Exec. Officer
U. S. Bureau of Mines

Thor H. Kiilsgaard, Acting Member
U. S. Geological Survey

cc: DMEA (2)
USBM (2)
Weeks

File Copy
Surname
Griswold
Selfridge
Kjolmson
Wittendorf

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

JUN - 7 1954

Mr. A. E. Weissenborn
Executive Officer
DMEA Field Team, Region II
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA-3312 (Lead-Zinc-Copper)
Mrs. Jerlie J. Eckerson
Belle Mine
Jefferson County, Montana

Dear Mr. Weissenborn:

We have your letter of May 14, with enclosures, referring to the cited application. We have reviewed all the available material and we are in accord with your opinion that: "The Field Team concurs with the examiners and recommends that the applicant be advised that her application will not be acted upon until she demonstrates her financial ability to participate in the costs of the program and until she gives assurance that she will obtain a competent manager to help in planning and in supervising the proposed work."

However, we feel that such a letter should emanate from your office. You are the one who must finally pass upon the competency of the Applicant, who must decide whether she is in a proper financial position to undertake the work, and whether any project manager whom she might obtain can be considered as satisfactory.

We suggest that she be further advised in plain, unequivocable terms that it is neither to the best interests of the Government nor to herself to enter into an ill-advised and poorly planned project, and that her idea of financing her share of the proposed work from possible ore sales cannot be given consideration.

Sincerely yours,

George C. Selfridge (2WB)
Chairman, Operating Committee

APPROVED:

J. H. Hedges
Member, Bureau of Mines (2WB)

D. M. Larrabee
Member, Geological Survey (2WB)

WRGriswold/bjl (6/3/54)
Copy to: Docket
Admr. R.File
Base Metals
Mr. Gildersleeve
Mr. Bishop
Chron.
Ops Com

R.C.S.

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

June 1, 1954

Memorandum

To: W. R. Griswold, DMEA

From: O. M. Bishop, USBM

Subject: Recommendation relative to field team report on Docket No. DMEA-3312, Belle lead-gold-silver prospect, Jefferson County, Montana, owner Mrs. Jerlie J. Eckerson

The field team reports prepared by Weeks of the U. S. Geological Survey and Bardill of the U. S. Bureau of Mines and approved by Weissenborn indicate the Belle prospect is based on a narrow, but continuous vein structure which has some potentiality as a small producer.

However, both Weeks and Bardill state that in their opinion the applicant is incompetent to plan or direct an exploration program, and is possibly financially unable to assure her portion of the proposed program even at the too-low costs outlined. They further note that 13 miles of poor mountain road and a 2- to 3-month work season adds to difficulties and costs of any proposed project on the applicant's claims.

Because of these many unfavorable elements it is recommended that the application be held in abeyance until the applicant can present satisfactory evidence that the services of a competent miner-foreman as well as financial means are available to her. However, if the field team believes the exploration planned holds but little promise of commercial ore the application should be denied on geologic grounds. The evidence offered has not been adequate to determine whether the vein currently developed is commercial at any particular price.

O. M. Bishop

O. M. Bishop

Copy to: Minerals Division
A. R. Kinkle
O. M. Bishop
Files

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

June 1, 1954

Memorandum

To: W. R. Griswold, DMEA

From: O. M. Bishop, USBM

Subject: Recommendation relative to field team report on Docket No. DMEA-3312, Belle lead-gold-silver prospect, Jefferson County, Montana, owner Mrs. Jarlie J. Eckerson

The field team reports prepared by Weeks of the U. S. Geological Survey and Bardill of the U. S. Bureau of Mines and approved by Weissenborn indicate the Belle prospect is based on a narrow, but continuous vein structure which has some potentiality as a small producer.

However, both Weeks and Bardill state that in their opinion the applicant is incompetent to plan or direct an exploration program, and is possibly financially unable to assure her portion of the proposed program even at the too-low costs outlined. They further note that 13 miles of poor mountain road and a 2- to 3-month work season adds to difficulties and costs of any proposed project on the applicant's claims.

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O. M. Bishop

Copy to: Minerals Division
A. R. Kinkle
O. M. Bishop
Files

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

June 1, 1954

Memorandum

To: W. R. Griswold, DMEA

From: O. M. Bishop, USBM

Subject: Recommendation relative to field team report on Docket No. DMEA-3312, Belle lead-gold-silver prospect, Jefferson County, Montana, owner Mrs. Jerlie J. Eckerson

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O. M. Bishop

Copy to: Minerals Division
A. R. Kinkle
O. M. Bishop
Files

IN REPLY REFER TO:

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

May 28, 1954

Memorandum

Re: DMEA-3312
Belle Mine
Jefferson County, Montana
$18,300
Lead, zinc

To: Mr. W. R. Griswold, DMEA

From: E. L. Newcomb, USGS

Subject: Review of application

The field team report indicates that DMEA exploration assistance may be warranted on the Belle property.

However, the applicant's incompetence and lack of financial resources pose problems which should be resolved by the field team before a firm recommendation is made regarding the proposed exploration project.

I recommend the field team be instructed to thoroughly acquaint the applicant with all DMEA requirements. If she does not have sufficient money for her share of total costs and is unable to hire a competent mining foreman, the field team should inform the applicant that DMEA cannot further consider her application.

E. L. Newcomb
E. L. Newcomb
Geologist

IN REPLY REFER TO:

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

May 28, 1954

Memorandum

Re: IMEA-3312
Belle Mine
Jefferson County, Montana
$18,300
Lead, zinc

To: Mr. W. R. Griswold, IMEA

From: E. L. Newcomb, USGS

Subject: Review of application

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E. L. Newcomb
Geologist

ELNewcomb:emp
Copies to: O. M. Bishop 3617 Interior
Branch files
Branch r. files
Bildersleeve

UNITED STATES
DEPARTMENT OF THE INTERIOR

COPY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

All Betty

May 14, 1954

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

Re: Docket No. DMEA-3312 (lead-zinc-copper)
Mrs. Jerlie Eckerson
Belle Mine
Jefferson County, Montana

Dear Mr. Selfridge:

Enclosed are memoranda by R. A. Weeks, U. S. Geological Survey, and J. D. Bardill, U. S. Bureau of Mines, containing recommendations that the subject application not be approved at this time, although noting that geologically the mine merits exploration.

The applicant does not appear competent to manage a mining venture by hereself. Her proposed exploration program is not well stated, and her estimated costs are not realistic. Further, the applicant does not appear to have sufficient assets to pay her share of the proposed costs.

The mine is in a remote location and is accessible by a road in very poor condition. The cost of improving this road is included in the applicant's proposed work. It is a Forest Service road, and as such, should not have to be repaired by an individual, since it is used primarily by fishermen, hunters, and Forest Service employees. The Forest Service may not care to improve the road as their funds for such work are limited, and as they undoubtedly have other roads in which they are more interested.

The Field Team concurs with the examiners and recommends that the applicant be advised that her application will not be acted upon until she demonstrates her financial ability to participate in the costs of the program and until she gives assurance that she will obtain a competent manager to help in planning and in supervising the proposed work.

Reviewed by
DMEA OPERATING COMMITTEE

5-21-54
(date)

If the applicant satisfies these conditions, specific points of the exploration program could be discussed with her. Any contract that might be negotiated should be on a unit-cost basis.

By Field Team, Region II

/s/ A. E. Weissenborn, Executive Officer
U. S. Geological Survey

/s/ Wing G. Agnew, Member
U. S. Bureau of Mines

Enclosures

cc: USBM (2)
Weeks

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

May 12, 1954

Memorandum

To: DMEA Field Team, Region II

From: Robert A. Weeks, Geologist, U. S. Geological Survey

Subject: Docket No. DMEA-3312 (lead-zinc-copper), application of Mrs. Jerlie Eckerson, Jefferson County, Montana

While I was in Boulder, Montana on April 14, I discussed several problems with Mrs. Jerlie Eckerson concerning her application for a DMEA exploration loan on the Belle mine. I had previously mapped the accessible part of the Belle mine in September 1950, as a part of the Boulder batholith project studies, and also mapped the surface in its vicinity.

The geology of the Belle is shown on the accompanying map. The mine is near the mouth of Moose Creek, not far from the Callahan (Golden Age) mine from which considerable gold-silver-lead-copper ore has been mined. The Belle has a reported production of about $16,000 in silver-gold-lead ore. The structure at the Belle is a strong vein trending slightly north of east and dipping about 75° south. By surface dozing and prospect shafts, the structure has been traced on the surface for over 2,000 feet. It is mineralized throughout, with galena and secondary lead minerals found in most exposures. In the mine stopes, the ore averaged from 8 to 12 inches in thickness in the part that I mapped, with vein widths up to 4 feet.

The vein consists of quartz, carbonate (calcite, ankerite or manganiferous ankerite?) pyrite, galena, sparse sphalerite, chalcopyrite, malachite, limonite, secondary lead carbonates and rare tetrahedrite, in a bleached altered andesitic tuff.

The mine is in a remote location. It is at an elevation of about 6,700 feet, in the valley of Moose Creek, a tributary of Wilson Creek and Crow Creek. The mine portal is about 25 to 40 feet above creek level, at the toe of a glacial morainal deposit. The road to the mine passes over Bullock Hill at an elevation of 7,500 feet, along the divide separating Prickly Pear Creek from Wilson Creek. The road generally is not open to traffic before July, and may close as early as September. Year-round operations have been conducted at the Callahan mine, but the camp was essentially isolated much of the year.

Reviewed by
DMEA OPERATING COMMITTEE
5-21-54
(date)

The applicant's knowledge of mining appeared to be limited and her financial resources were unknown, but her statement that she expected to pay part of her share of the costs from proceeds of the sale of ore from the mine indicated that she probably did not have liquid assets to cover her portion of contract costs.

In the course of our conversation, the following information was reported by Mrs. Eckerson. Her husband was working alone in the Belle mine during the summer of 1946 or 1947, and was stoping ore from an underhand winze near the face of the drift. One day, while he was stoping, a rock-fall occurred between him and the portal. He was successful in digging his way out in a matter of two or three hours, but did not resume mining again. Shortly after this he died. The mine was leased to several individuals afterwards, but no actual mining appears to have been done since that time. Mrs. Eckerson believes, therefore, that the ore her husband was stoping is still in place. This stope would lie beyond the part of the mine that I mapped. (See accompanying map.)

She confirmed the information I obtained in 1950 from Nat Chamberlin, a local miner. Chamberlin reported total production from the Belle was about $16,000. He had a lease on the mine at that time, but was not working at the mine.

She stated that she proposed to meet her share of the costs in part by cash, and in part by the work to be performed by one of her sons, in addition to hoping for some returns on ore produced from the mine. She did not offer (and I did not ask for) a detailed statement of her financial affairs. Her son is not an experienced miner. She further stated that she hoped to obtain an experienced miner, perhaps as a partner, to direct the work.

We discussed the exploration program in general terms, but other than suggesting that the figures she submitted were not specific enough on some items, and were unrealistic on some others, no decision on a program was reached. I suggested that she should make an effort to obtain an experienced miner to help plan the program.

We also discussed the road to the Belle mine. The mine is about 13 miles east of Jefferson City--the first 3 miles are by county-maintained gravel road that is in fair condition, and the last 10 miles are Forest Service road that is in very poor condition. The road was constructed by the CCC in the late 30's, and was washed out by a couldburst early in the war years. Little, if any, maintenance work has been done recently. Average driving time for the 13 miles is about three hours. Vehicle maintenance costs would be quite high for trucks using this road frequently.

Summarizing the above facts:

1. Geologically, the mine is worth exploration.

2. The applicant, the widow of a miner, does not have mining experience and would not be able to direct an exploration program adequately.

3. The applicant does not appear to have sufficient assets to finance all of her share of the costs--although this is just an impression, and no credit investigation has been made.

4. The mine access road is in poor repair and would make mining costs high.

5. The mine is remote, and would be able to operate only from about July to October.

In view of these conditions, I recommend that the application be denied, unless:

1. the applicant obtains managerial help in planning and conducting the exploration program, and submits a more detailed plan of what exploration is to be done;

2. The applicant demonstrates possession of sufficient assets to carry out the program; and

3. arrangements are made, probably with the Forest Service, to improve the road.

Until these conditions are established, I don't believe there is any point is discussing specific exploration programs for the Belle mine.

Enclosure - 1

DMEA (Orig. & 3)
USBM (2)
USGS (SRO)
Docket
Weeks

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

1201 N. Division St.
Spokane 2, Washington
May 4, 1954

MEMORANDUM

To: DMEA Field Team, Region II

From: John D. Bardill, Bureau of Mines, Region II

Subject: Appraisal of DMEA application for exploration assistance, Mrs. Jerlie J. Eckerson, P. O. Box 148, Boulder, Montana, Docket No. DMEA 3312 (lead-~~silver~~ zinc), Jefferson County, Montana

Mrs. Jerlie J. Eckerson has submitted an application to DMEA Spokane office for Government exploration assistance to prospect the Belle mine by extending the adit level 500 feet and rehabilitating several surface pits and shafts. Her estimated cost of the project is $18,300. Attached are ozalid copies of her replies to Question 4 thru 7 accompanying form MF-103. Also attached is a copy of a sketch map which accompanied the application.

Several phases of the application were discussed with Mrs. Eckerson at the Montana State Training School, Boulder, on April 29, 1954 where she is a cook. It was immediately evident that although she is very sincere, she is wholly incompetent to direct an exploration project and would be still less competent to manage the operations of the Belle mine should it ever reach the production stage. Her application indicates 500 feet of drifting at a cost of $7,500, which is equivalent to $15 per foot. The applicant agreed to my suggestion that if her application is favorably considered, all work will be done on a unit cost contract basis by competent contractors suitable to the Government.

A large portion of the road to the mine is Forest Service access road. Mrs. Eckerson plans to request the Forest Service to repair and maintain this road.

Mr. R. A. Weeks, U.S.G.S., visited and mapped the mine in 1950 and has some ideas of extent and advisability of tunnel, road and shaft repairs.

When questioned about her financial capabilities to contribute her 50 percent share of the expenses, Mrs. Eckerson was hesitant and uncertain. At present her entire hope is to have a Texan lady acquaintance of hers provide the necessary funds for an interest in the venture.

Reviewed by
DMEA OPERATING COMMITTEE

(date)

She has agreed to advise the Spokane office whether she can obtain the necessary finances after she and her acquaintance have visited the mine. I suggested that this information should be known before the application is processed further.

Regardless of the geological merits of the mine, I believe that a DMEA project under Mrs. Eckerson's direction would be another Romerio fiasco. (Refer to Docket No. DMEA 326 (lead-zinc), Mrs. Alberta K. Romerio, Hope & Bullion mine, Jefferson County, Montana. Mrs. Romerio was also employed at the Montana State Training School.)

I recommend that this application be held in abeyance either at the Spokane or Washington office until the applicant can definitely give assurance of her financial capabilities to uphold her end of the expenses. If the application should reach the stage where it is being considered favorably for a contract, the contract should be drafted on a firm unit cost basis.

John D. Bardill

John D. Bardill

Orig. & 3 cys - Wash. ✓
USGS (2)
DMEA
M/D
JDB/he

4.

(a) Development consists of one tunnel 700 feet in length on the vein, open for inspection for 550 feet in. An opening the other 150 feet at this time. Several shafts 20 feet to 50 feet in depth, and accessible. A 300-foot tunnel on east end not open. Five cross-cuts with bulldozer exposing vein and ore. My interest in this work is complete cost of all exploration and development.

(b) Past production. Smelter settlement sheets accompany this application. Many sheets are lost. Ore reserves present in tunnel running from $7.00 to $60.00 per ton in silver, lead and gold. Some lead assays 61.2 percent.

(c) There is a continuous vein or lode from 24 inches to 6 feet in width with tunnels and open pit cross-cuts showing in length of 4500 feet in a porphyry dike from 100 feet to 300 feet in width, the full length of the vein, with granite walls on the north, and diarite on the south. (See sketch for proposed work.)

(d) Thirteen miles off the main highway, about 30 miles from Helena for supplies and equipment.

Road: Thirteen miles of old mountain road off the highway; 30 miles to smelter at East Helena.

(e) Plenty of water at mine. Plenty of timber. 13 miles off main highway. About 30 miles from Helena for supplies and equipment.

5.

(a) See form.

(b) The proposed work: Will be on a continuous vein or lode from 24 inches to 6 feet in width with tunnels and open pit cross-cuts showing a length of 4500 feet in a porphyry dike from 100 feet to 300 feet in width, the full length of the vein, with granite walls on the north, and diarite on the south. (See sketch for proposed work.)

(c) See form.

(d) Operating experience and background of applicant: 20 years of supervision with husband in mining. (?)

6.

(a)

(b)

(c) Operating materials and supplies: (under $50)

Cook Stove	- $45.00	4 Bedsteads	- $48.00
Heating Stove	- 35.00	4 Mattresses	- 48.00
8 Blankets	- 48.00	8 Quilts	- 40.00
Dishes	- 35.00	Pots and pans	- 25.00
12 sheet blankets	- 36.00	4 gas lamps	- 46.00
Table ware	- 12.00		
	$211.00		$207.00

$211.00 plus $207.00 ----- $418.00 Total

6.

(d) Operating equipment:

Bulldozer, rent with option to purchase, monthly rental	$ 400.00
Air compressor with power unit, per month	250.00
2 Air drills, cash price.....	$ 900.00
Electric Light Plant.....	650.00
Powder, caps, fuse.....	500.00
	$2050.00

Rental of equipment..... $650.00 per month

Purchase price of operating equipment... $2050.00

(e) Rehabilitation and repairs: Lowest estimated cost of road repair, tunnel repair, building repair, ready to ship ore:

Road repair - 13 miles ----------	$ 3000.00 (?)
Tunnel repair - 700 feet----------	5600.00
Building repair ----------	700.00
Repair shafts, (ore and ventilation) ---------	1500.00 (?)
Extending tunnel 500 feet ----------	7500.00 (?)
Total -----$18,300.00	

(f) --

(g) --

(h) --

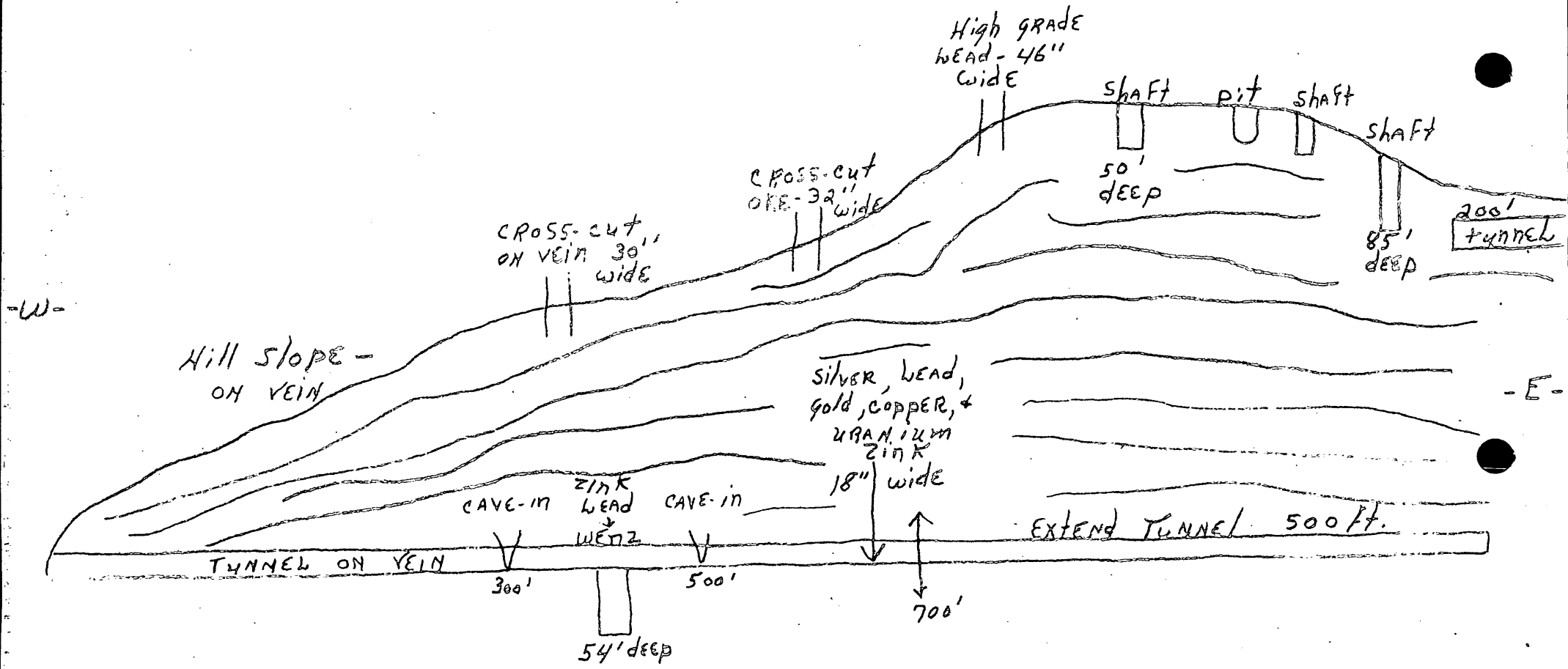
7.

(a) Yes.

(b) By trading a certain percentage of the proceeds of ore shipments for cash and machinery. This not to exceed 35 percent.

****

Length of Vein - 4500 feet.
3 patented claims - 2 Recorded claims.



UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

May 14, 1954

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

Re: Docket No. DMEA-3312 (lead-zinc-copper)
Mrs. Jerlie Eckerson
Belle Mine
Jefferson County, Montana

Dear Mr. Selfridge:

Enclosed are memoranda by R. A. Weeks, U. S. Geological Survey, and J. D. Bardill, U. S. Bureau of Mines, containing recommendations that the subject application not be approved at this time, although noting that geologically the mine merits exploration.

The applicant does not appear competent to manage a mining venture by herself. Her proposed exploration program is not well stated, and her estimated costs are not realistic. Further, the applicant does not appear to have sufficient assets to pay her share of the proposed costs.

The mine is in a remote location and is accessible by a road in very poor condition. The cost of improving this road is included in the applicant's proposed work. It is a Forest Service road, and as such, should not have to be repaired by an individual, since it is used primarily by fishermen, hunters, and Forest Service employees. The Forest Service may not care to improve the road as their funds for such work are limited, and as they undoubtedly have other roads in which they are more interested.

"The Field Team concurs with the examiners and recommends that the applicant be advised that her application will not be acted upon until she demonstrates her financial ability to participate in the costs of the program and until she gives assurance that she will obtain a competent manager to help in planning and in supervising the proposed work."

If the applicant satisfies these conditions, specific points of the exploration program could be discussed with her. Any contract that might be negotiated should be on a unit-cost basis.

By Field Team, Region II

A. E. Weissenborn

A. E. Weissenborn, Executive Officer
U. S. Geological Survey

Wing G. Agnew

Wing G. Agnew, Member
U. S. Bureau of Mines

Enclosures

cc: USBM (2)
Weeks

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.
~~xxxxxxxxxxxxxxxxxxxx~~
So. 157 Howard Street
Spokane 4, Washington

May 14, 1954

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

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Mrs. Jerlie Eckerson
Belle Mine
Jefferson Count,, Montana

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By Field Team, Region II

A. E. Weissenborn, Executive Officer
U. S. Geological Survey

Wing G. Agnew, Member
U. S. Bureau of Mines

Enclosures

cc: USBM (2)
Weeks

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

May 12, 1954

Memorandum

To: DMEA Field Team, Region II

From: Robert A. Weeks, Geologist, U. S. Geological Survey

Subject: Docket No. DMEA-3312 (lead-zinc-copper), application of Mrs. Jerlie Echerson, Jefferson County, Montana

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The geology of the Belle is shown on the accompanying map. The mine is near the mouth of Moose Creek, not far from the Callahan (Golden Age) mine from which considerable gold-silver-lead-copper ore has been mined. The Belle has a reported production of about $16,000 in silver-gold-lead ore. The structure at the Belle is a strong vein trending slightly north of east and dipping about 75° south. By surface doning and prospect shafts, the structure has been traced on the surface for over 2,000 feet. It is mineralized throughout, with galena and secondary lead minerals found in most exposures. In the mine stopes, the ore averaged from 8 to 12 inches in thickness in the part that I mapped, with vein widths up to 4 feet.

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The applicant's knowledge of mining appeared to be limited and her financial resources were unknown, but her statement that she expected to pay part of her share of the costs from proceeds of the sale of ore from the mine indicated that she probably did not have liquid assets to cover her portion of contract costs.

In the course of our conversation, the following information was reported by Mrs. Robertson. Her husband was working alone in the Belle mine during the summer of 1966 or 1967, and was stoping ore from an underhand winze near the face of the drift. One day, while he was stoping, a rock-fall occurred between him and the portal. He was successful in digging his way out in a matter of two or three hours, but did not resume mining again. Shortly after this he died. The mine was leased to several individuals afterwards, but no actual mining appears to have been done since that time. Mrs. Robertson believes, therefore, that the ore her husband was stoping is still in place. This stope would lie beyond the part of the mine that I mapped. (See accompanying map.)

She confirmed the information I obtained in 1970 from Nat Chamberlin, a local miner. Chamberlin reported total production from the Belle was about $16,000. He had a lease on the mine at that time, but was not working at the mine.

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Summarizing the above facts:

1. Geologically, the mine is worth exploration.

2. The applicant, the widow of a miner, does not have mining experience and would not be able to direct an exploration program adequately.

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Until these conditions are established, I don't believe there is any point in discussing specific exploration programs for the Belle mine.

Enclosure - 1

DMEA (Orig. & 3)
USBM (2)
USGS (SEC)
Docket
Vesain

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

1201 N. Division St.
Spokane 2, Washington
May 4, 1954

MEMORANDUM

To: DMEA Field Team, Region II

From: John D. Hardill, Bureau of Mines, Region II

Subject: Appraisal of DMEA application for exploration assistance, Mrs. Jerlie J. Eckerson, P. O. Box 148, Boulder, Montana, Docket No. DMEA 3312 (lead-~~silver~~ zinc), Jefferson County, Montana

Mrs. Jerlie J. Eckerson has submitted an application to DMEA Spokane office for Government exploration assistance to prospect the Belle mine by extending the adit level 500 feet and rehabilitating several surface pits and shafts. Her estimated cost of the project is $18,300. Attached are emalid copies of her replies to Question 4 thru 7 accompanying form MF-103. Also attached is a copy of a sketch map which accompanied the application.

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When questioned about her financial capabilities to contribute her 50 percent share of the expenses, Mrs. Eckerson was hesitant and uncertain. At present her entire hope is to have a Texan lady acquaintance of hers provide the necessary funds for an interest in the venture.

She has agreed to advise the Spokane office whether she can obtain the necessary finances after she and her acquaintance have visited the mine. I suggested that this information should be known before the application is processed further.

Regardless of the geological merits of the mine, I believe that a RRRA project under Mrs. Rubarsen's direction would be another Remerie fiasco. (Refer to Docket No. RRRA 326 (lead-zinc), Mrs. Alberta K. Remerie, Hope & Bullion mine, Jefferson County, Montana. Mrs. Remerie was also employed at the Montana State Training School.)

I recommend that this application be held in abeyance either at the Spokane or Washington office until the applicant can definitely give assurance of her financial capabilities to uphold her end of the expenses. If the application should reach the stage where it is being considered favorably for a contract, the contract should be drafted on a firm unit cost basis.

John D. Bardill

Orig. & 3 cys - Wash.
RDOS (2)
RRRA
M/D
JDB/hc

4.

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6.

(a)

(b)

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Heating Stove	- 35.00	4 Mattresses	- 48.00
8 Blankets	- 48.00	8 Quilts	- 40.00
Dishes	- 35.00	Pots and pans	- 25.00
12 sheet blankets	- 36.00	4 gas lamps	- 46.00
Table ware	- 12.00		
	$211.00		$207.00

$211.00 plus $207.00 ----- $418.00 Total

6.

(d) Operating equipment:

Bulldozer, rent with option to purchase, monthly rental	$ 400.00
Air compressor with power unit, per month	250.00
2 Air drills, cash price.....	$ 900.00
Electric Light Plant.....	650.00
Powder, caps, fuse.....	500.00
	$2050.00

Rental of equipment..... $650.00 per month

Purchase price of operating equipment... $2050.00

(e) Rehabilitation and repairs: Lowest estimated cost of road repair, tunnel repair, building repair, ready to ship ore:

Road repair - 13 miles ----------	$ 3000.00
Tunnel repair - 700 feet----------	5600.00
Building repair ----------	700.00
Repair shafts, (ore and ventilation) ---------	1500.00
Extending tunnel 500 feet ----------	7500.00
Total ------	$18,300.00

(f) --

(g) --

(h) --

7.

(a) Yes.

(b) By trading a certain percentage of the proceeds of ore shipments for cash and machinery. This not to exceed 35 percent.

****

April 16, 1954

Mrs. Jerlie J. Eckerson
P. O. Box 148
Boulder, Montana

Subject: DMEA-3312
Re: Exploration Assistance
The Bell Mine

Dear Madam:

The receipt of your application dated March 27, 1954 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3312 and referred to the Base Metals Division.

Kindly refer to DMEA-3312 in any future correspondence relating to your application.

Sincerely yours,

Robert E. Adams
Chief, Operation's Control
and Statistics Division

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

April 16, 1954

Memorandum

To: Executive Officer, DMEA Field Team, Region II

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

There is listed below the assigned docket number to an application recently received from Region II.

DMEA-3312 Mr. Jerlie J. Eckerson

Robert E. Adams
Chief, Operation's Control
and Statistics Division

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

April 12, 1954

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

Re: DMEA application
Mrs. Jerlie J. Eckerson
Boulder, Montana

Dear Mr. Selfridge:

Enclosed are the original and two copies of an application submitted by Mrs. Jerlie J. Eckerson, Boulder, Montana. One copy of the application has been retained for the files of this office. With the application is included one copy of a set of smelter return statements which were printed from an original set which has been returned to the applicant.

The applicant's property was mapped in 1950 by Mr. Bob Weeks of the Geological Survey, the work being a part of the Boulder batholith project. At that time a lessee, Mr. Nat Chamberlin, had the property. He reported that the property had produced gold-silver-lead ore, the aggregate value of which was $16,000. Mr. Weeks reports that the mine is accessible by way of 13 miles of very poor road, which, coupled with severe winter weather, has previously limited operations to the summer season. Mr. Weeks also reports that the financial ability of the applicant is to be doubted.

We do not believe that another field examination is necessary; however, we plan to have DMEA examiners call on the applicant during the week starting April 11 to obtain further information concerning the proposed project. We shall then combine that information with data already in our possession and submit it to the Operating Committee together with Field Team recommendations for further review of the application.

Sincerely yours,

Thor H. Kiilsgaard

Thor H. Kiilsgaard
For: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

Enclosure
cc: USBM (2)
Weeks

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

~~XXXXXXXXXXXXXXXXXXXX~~

No. 157 Howard Street
Spokane 4, Washington

April 12, 1954

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

Re: DMEA application
Mrs. Jerlie J. Eskersen
Boulder, Montana

Dear Mr. Selfridge:

Enclosed are the original and two copies of an application submitted by Mrs. Jerlie J. Eskersen, Boulder, Montana. One copy of the application has been retained for the files of this office. With the application is included one copy of a set of smelter return statements which were printed from an original set which has been returned to the applicant.

The applicant's property was mapped in 1950 by Mr. Bob Weeks of the Geological Survey, the work being a part of the Boulder bathelith project. At that time a lessee, Mr. Nat Chamberlin, had the property. He reported that the property had produced gold-silver-lead ore, the aggregate value of which was $16,000. Mr. Weeks reports that the mine is accessible by way of 13 miles of very poor road, which, coupled with severe winter weather, has previously limited operations to the summer season. Mr. Weeks also reports that the financial ability of the applicant is to be doubted.

We do not believe that another field examination is necessary; however, we plan to have DMEA examiners call on the applicant during the week starting April 11 to obtain further information concerning the proposed project. We shall then combine that information with data already in our possession and submit it to the Operating Committee together with Field Team recommendations for further review of the application.

Sincerely yours,

Thor H. Kiilsgaard
For: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

Enclosure
cc: USGS (2)
Weeks

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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

Not to be filled in by applicant

Docket No. 3312
Metal or Mineral Lead, et al.
Date Received
Estimated Cost $18,300
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: Mrs. Jerlie J. Eckerson P.O. Box 148 Boulder, Montana

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

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

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

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

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract This Property consists of three patented mining claims: The Best lode mining claim, Survey No. 10575; The Belle lode claim, Survey No. 10575; The Last lode claim, Survey No. 10575; all in Township 7 North, Range 2 West, in Jefferson County, Montana

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

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Owner

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

(*e*) If you own the land, describe any liens or encumbrances on it None

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

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

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

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

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

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

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore Lead, Uranium, Copper, Zink, Antimony, & Tungsten

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

(*c*) The work will start within 10 days and be completed within 36 months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

☐ Money ☐ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated March 27, 1954

Mrs Julie J. Eckerson
(Applicant)

By Mrs Julie J. Eckerson
Box 148
Boulder, Montana

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

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

4.

(a) Development consists of one tunnel 700 feet in length on the vein, open for inspection for 550 feet in. Am opening the other 150 feet at this time. Several shafts 20 feet to 50 feet in depth, and accessible. A 300-foot tunnel on east end not open. Five cross-cuts with bulldozer exposing vein and ore. My interest in this work is complete cost of all exploration and development.

(b) Past production. Smelter settlement sheets accompany this application. Many sheets are lost. Ore reserves present in tunnel running from $7.00 to $60.00 per ton in silver, lead and gold. Some lead assays 61.2 percent.

(c) There is a continuous vein or lode from 24 inches to 6 feet in width with tunnels and open pit cross-cuts showing in length of 4500 feet in a porphyry dike from 100 feet to 300 feet in width, the full length of the vein, with granite walls on the north, and diarite on the south. (See sketch for proposed work.)

(d) Thirteen miles off the main highway, about 30 miles from Helena for supplies and equipment.

Road: Thirteen miles of old mountain road off the highway; 30 miles to smelter at East Helena.

(e) Plenty of water at mine. Plenty of timber. 13 miles off main highway. About 30 miles from Helena for supplies and equipment.

5.

(a) See form.

(b) The proposed work: Will be on a continuous vein or lode from 24 inches to 6 feet in width with tunnels and open pit cross-cuts showing a length of 4500 feet in a porphyry dike from 100 feet to 300 feet in width, the full length of the vein, with granite walls on the north, and diarite on the south. (See sketch for proposed work.)

(c) See form.

(d) Operating experience and background of applicant: 20 years of supervision with husband in mining.

6.

(a)

(b)

(c) Operating materials and supplies: (under $50)

Cook Stove	- $45.00	4 Bedsteads	- $48.00
Heating Stove	- 35.00	4 Mattresses	- 48.00
8 Blankets	- 48.00	8 Quilts	- 40.00
Dishes	- 35.00	Pots and pans	- 25.00
12 sheet blankets	- 36.00	4 gas lamps	- 46.00
Table ware	- 12.00		
	$211.00		$207.00

$211.00 plus $207.00 ----- $418.00 Total

6.

(d) Operating equipment:

Bulldozer, rent with option to purchase, monthly rental	$ 400.00
Air compressor with power unit, per month	250.00
2 Air drills, cash price.....	$ 900.00
Electric Light Plant.....	650.00
Powder, caps, fuse.....	500.00
	$2050.00

Rental of equipment..... $650.00 per month

Purchase price of operating equipment..... $2050.00

(e) Rehabilitation and repairs: Lowest estimated cost of road repair, tunnel repair, building repair, ready to ship ore:

Road repair - 13 miles ----------	$ 3000.00
Tunnel repair - 700 feet ---------- ----------	5600.00
Building repair ----------	700.00
Repair shafts, (ore and ventilation) ----------	1500.00
Extending tunnel 500 feet ----------	7500.00
Total ---	$18,300.00

(f) --

(g) --

(h) --

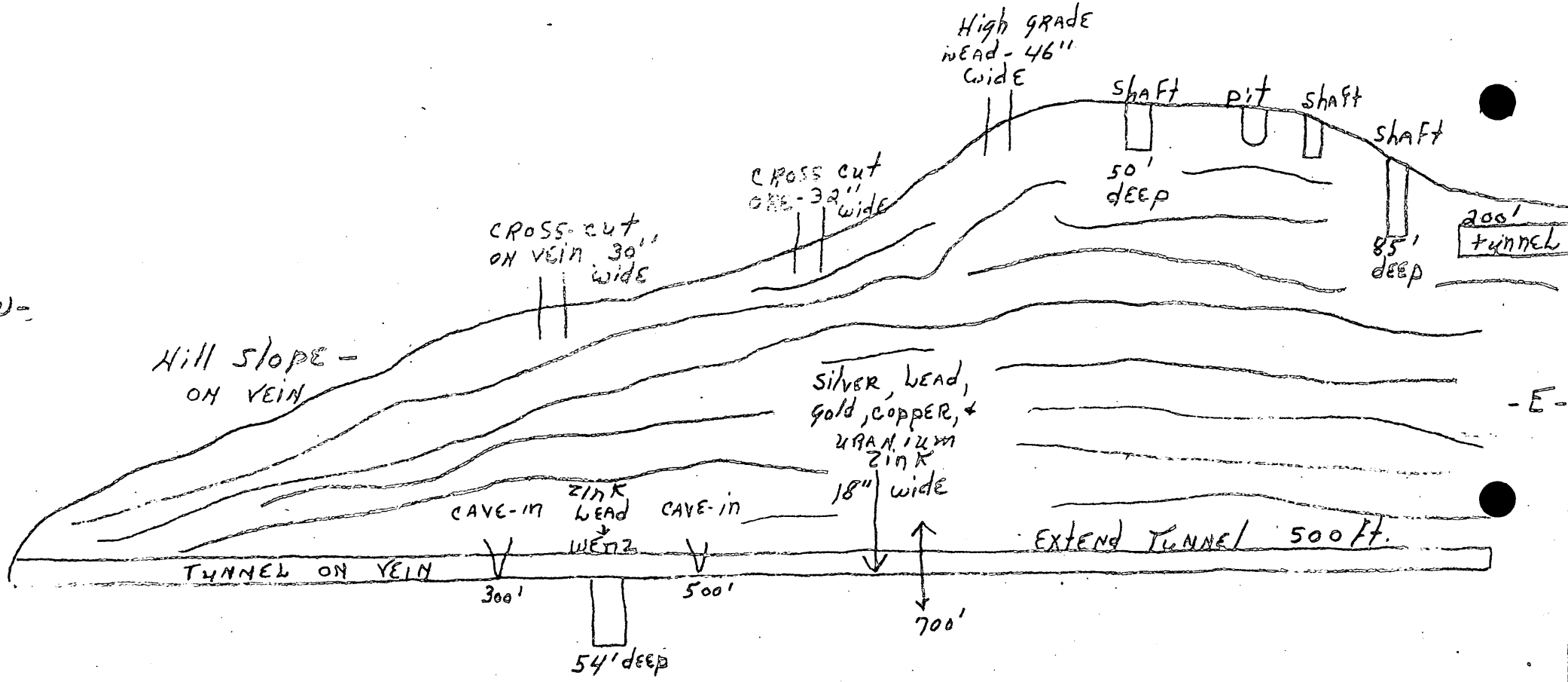
7.

(a) Yes.

(b) By trading a certain percentage of the proceeds of ore shipments for cash and machinery. This not to exceed 35 percent.

****

Length of Vein - 4500 feet.
3 patented claims - 2 Recorded claims.



AMERICAN SMELTING AND REFINING CO.
EAST HELENA PLANT

East Helena, Mont., December 28, 1934 193

Bought of J. T. [illegible] & B. C. [illegible] Mine [illegible] Out Lot No. 2327

Class Crude Shipping Point Jefferson City, Montana Mine Lot No. 1

Quotations of Week Avg. Silver .64 1/8 Lead 5.70 Cathode Copper 6.363

ASSAYS	Gold Oz. per ton	Silver Oz. per ton	Lead Per Cent	Copper Per Cent	Insol Per Cent	Iron Per Cent	Manganese Per Cent	Zinc Per Cent	Sulphur Per Cent	Arsenic Per Cent	Antimony Per Cent	Bismuth Per Cent
A. S. & R. Co.	0.41	12.7	4.7	0.50				2.2	10.0	0.08	0.07	0.06
Umpire												
Settlement	0.41	12.7	4.7	0.50				2.2	10.0	0.08	0.07	0.06

Car Number	WEIGHT	VALUES PER TON		DEDUCTIONS PER TON	
		Gold 100% @ 31.81825	13.05	Base for Charge Lead 7.00	
		Silver 100% 1.88 1 oz @ .64 1/8	7.50		
		Lead Less 00% @			
		Copper Less @			7.00
	Others		20.55	Insoluble % @	
	Truck 14960			Zinc % @	
				Sulphur % @	
				Arsenic % @	
				Antimony % @	
				Bismuth 1.105 lbs @ .50	.55
				Debit % @	
				Iron % @	
Weight of Lot					
Weight of 11 Sacks	11				
Wet Weight	14949				
Less Moisture 1.3 %	184	Less Total Deductions	7.55	Total Deductions	7.55
Dry Weight	14765	Lbs. @	13.00	Per ton $	95.91
		Freight Per Wet Ton @		$	
		Hauling Per Wet Ton @		$	
Date of B/L		Royalty 10.30 J. A. Templeton, Butte		$ 8.52	
Date of Arrival 12-12-34		Advances		$	
Checked		Sampling		$	
Correct		Umpire		$	

Rates, except on contracts, subject to change without notice.
A charge of $5.00 made on all lots under 5 tons.

TOTAL $ 9.59 $ 9.59

NET PROCEEDS $ 86.32

25M—3-34.

RECORD PRINT, HELENA, MONT.

AMERICAN SMELTING AND REFINING CO.

EAST HELENA PLANT

East Helena, Mont., June 30, 1935 193

Bought of J. T. Eckerson Mine Rest Our Lot No. 1141

Class Crude Shipping Point Jefferson City, Montana Mine Lot No. 2

Quotations of Weeks Avg. Silver .77 Lead 4.60 Cathode Copper 9.15

ASSAYS	GOLD Oz. per ton	SILVER Oz. per ton	LEAD Per Cent	COPPER Per Cent	INSOL Per Cent	IRON Per Cent	MANGANESE Per Cent	ZINC Per Cent	SULPHUR Per Cent	ARSENIC Per Cent	ANTIMONY Per Cent	BISMUTH Per Cent	
A. S. & R. Co.	0.695	46.4	18.2	0.55				2.8	15.0	0.18	4.35	0.28	
Umpire													
Settlement	0.695	46.4	18.2	0.55				2.8	15.0	0.18	4.35	0.28	

Car Number	Weight
Truck	5475

VALUES PER TON			
Gold	91.13713	@ 35.00-1/4%	22.11
Silver 95%		@ .77	33.94
Lead Less 1.5 90%		@ 4.60-1.50	9.32
Copper, Less		@	
			65.37
Less Total Deductions			12.89

DEDUCTIONS PER TON				
Base for Charge		Lead	5.00	
Truck Shipment			.25	
				5.25
Insoluble	% @			
Zinc	% @			
Sulphur	% @			
Arsenic	% @			
Antimony	3.35 % @		1.50	5.02
Bismuth	5.256 Lbs. @		.50	2.62
Debit				
Iron	% @			
Total Deductions				$ 12.89

Weight of Lot

Weight of 49 Sacks 35

Wet Weight 5440

Moisture 0.5 % 27

Dry Weight 5413 Pounds @ 52.45 Per Ton $ 142.04

Freight Per Wet Ton @	$	
Hauling Per Wet Ton @ to Claude Price Whitehall 3.00	$ 8.21	
Royalty to J. T. Eckerson, Jefferson City @ 3.00	$ 8.21	
Advances 10% Royalty to J. L. Templemen, Butte	$ 12.06	
Umpire	$	
Sampling When Less Than 10 Tons	$ 5.00	
TOTAL	$ 33.48	$ 33.48
NET PROCEEDS		$ 108.56

Date of B/L

Date of Arrival 6-25-35

Checked J. Mac

Correct

Rates except on contracts, subject to change without notice.

A charge of $5.00 made on all lots under 10 dry tons.

25M—10-35.

THE ALLENDER PUBLISHING CO.

AMERICAN SMELTING AND REFINING CO.
EAST HELENA PLANT

East Helena, Mont., SEPTEMBER 26, 1935 193

Bought of J. T. ECKERSON Mine BEST Our Lot No. 1673

Class CRUDE Shipping Point BOULDER, MONTANA Mine Lot No. 5

Quotations of WEEKS AVG. Silver .77 Lead 4.425 Cathode Copper 8.15

ASSAYS	Gold Oz. per ton	Silver Oz. per ton	Lead Per Cent	Copper Per Cent	Insol Per Cent	Iron Per Cent	Manganese Per Cent	Zinc Per Cent	Sulphur Per Cent	Arsenic Per Cent	Antimony Per Cent	Bismuth Per Cent	
A. S. & R. Co.	1.02	11.9	2.7	1.15				1.6	10.0	.14	.30		
Umpire													
Settlement	1.02	11.9	2.7	1.15				1.6	10.0	.14	.3		

Car Number	WEIGHT	VALUES PER TON		DEDUCTIONS PER TON	
		Gold 91.13715% @ 35.00 -1/4%	39.46	Base for Charge Lead 5.00	
		Silver 100% less 100 @ .77	8.39		
		Lead Less 00% @			
		Copper, Less 1.0 @ 8.15-6.00	.06		5.00
			0.20	Insoluble % @	
				Zinc % @	
Truck				Sulphur % @	
				Arsenic % @	
				Antimony % @	
				Bismuth % @	
				Debit % @	
				Iron % @	
Weight of Lot					
Weight of Sacks					
Wet Weight	19040				
Less Moisture 0.6 %	114	Less Total Deductions	5.00	Total Deductions $	5.00
Dry Weight	18926	Lbs. @	35.90	Per ton	$ 339.72
		Freight Per Wet Ton @ 5.00		$	
		Hauling Per Wet Ton @ Eric Jendresen 10 miles		$ 76.16	
Date of B/L		Royalty Templeman		$ 25.86	
Date of Arrival 9-21-35		Advances Butte, Mont.		$	
Checked		Sampling when less than 10 tons		$ 5.00	
Correct		Umpire		$	
				TOTAL $ 107.02	$ 107.02
				NET PROCEEDS $	232.70

Rates, except on contracts, subject to change without notice.
A charge of $5.00 made on all lots under 50 tons.

25M—3-34.

RECORD PRINT, HELENA, MONT.

AMERICAN SMELTING AND REFINING CO.

EAST HELENA PLANT

East Helena, Mont., June 30, 1936 193

Bought of J. T. Ackerson Mine East Our Lot No. 1141

Class Crude Shipping Point Jefferson City, Montana Mine Lot No. 2

Quotations of Weeks Ave. Silver .77 Lead 4.60 Cathode Copper 9.15

ASSAYS	GOLD Oz. per ton	SILVER Oz. per ton	LEAD Per Cent	COPPER Per Cent	INSOL Per Cent	IRON Per Cent	MANGANESE Per Cent	ZINC Per Cent	SULPHUR Per Cent	ARSENIC Per Cent	ANTIMONY Per Cent	BISMUTH Per Cent	
A. S. & R. Co.	0.695	46.4	18.2	0.53				2.8	15.0	0.18	4.35	0.28	
Umpire													
Settlement	0.695	46.4	19.2	0.53				2.8	15.0	0.18	4.35	0.28	

Car Number	Weight
Truck	5475

VALUES PER TON			
Gold	$1.1571½	@ $35.00-1/45	22.11
Silver 95%		@ .77	33.94
Lead Less 1.5%		@ 4.60-1.50	9.32
Copper, Less		@	
			65.37

DEDUCTIONS PER TON			
Base for Charge	Lead	5.00	
Truck Shipment		.25	
			5.25
Insoluble	% @		
Zinc	% @		
Sulphur	% @		
Arsenic	% @		
Antimony	2.35 % @	1.50	3.52
Bismuth	5.235 Lbs. @	.50	2.62
Debit			
Iron	% @		
Less Total Deductions			12.86
Total Deductions			$ 12.86

Weight of Lot

Weight of 49 Sacks 30

Wet Weight 5440

Less Moisture 0.5 % 27

Dry Weight 5413 Pounds @ 52.49 Per Ton $ 142.04

Freight Per Wet Ton @	$	
to Glenn Price		
Hauling Per Wet Ton @ Whitehall @ 3.00	$ 8.21	
Royalty to J. T. Ackerson, Jefferson City @ 3.00	$ 8.21	
10% Royalty to J. L. Templeman, Butte		
Advances	$ 12.06	
Umpire	$	
Sampling When Less Than 10 Tons	$ 5.00	
TOTAL	$ 33.48	$ 33.48
NET PROCEEDS		$ 108.56

Date of B/L

Date of Arrival 6-22-36

Checked

Correct J. Mac

Rates except on contracts, subject to change without notice.

A charge of $5.00 made on all lots under 10 dry tons.

25M—10-35.

INDEPENDENT PUBLISHING CO.

AMERICAN SMELTING AND REFINING CO.
EAST HELENA PLANT

East Helena, Mont., June 25, 1935 193

Bought of J. L. TEMPLEMAN Mine BEST Our Lot No. 922

Class Crude Shipping Point Jefferson City, Montana Mine Lot No. 2

Quotations of Weeks Avg. Silver .77 Lead 4.00 Cathode Copper 8.65 - 7.258

ASSAYS	Gold Oz. per ton	Silver Oz. per ton	Lead Per Cent	Copper Per Cent	Insol Per Cent	Iron Per Cent	Manganese Per Cent	Zinc Per Cent	Sulphur Per Cent	Arsenic Per Cent	Antimony Per Cent	Bismuth Per Cent
A. S. & R. Co.	0.87	20.9	5.5	2.05				4.4	28.0	0.40	0.79	
Umpire												
Settlement	0.87	20.9	5.5	2.05				4.4	28.0	0.40	0.79	

Car Number	WEIGHT	VALUES PER TON		DEDUCTIONS PER TON	
		91.1371% 35.00-1/4%			
		Gold @	27.68	Base for Charge Lead 5.00	
		Silver 95% @ .77	15.29		
		Lead Less 1.5 .90% @ 4.00-1.25	1.80		
		Copper, Less 1.0 @ 8.65-6.0	.56		5.00
			45.33	Insoluble % @	
				Zinc % @	
	Truck 25126			Sulphur % @	
				Arsenic % @	
				Antimony % @	
				Bismuth % @	
				Debit % @	
				Iron % @	
Weight of Lot					
Weight of Sacks					
Weight					
Less Moisture 0.5 %	126	Less Total Deductions	5.00	Total Deductions	$ 5.00
Dry Weight	25000	Lbs. @	40.33	Per ton	$ 504.13
		Freight Per Wet Ton @		$	
		Hauling Per Wet Ton @ 2.00		$ 100.50	
Date of B/L		Royalty		$ 40.36	
Date of Arrival	6-19-35	Advances		$	
Checked		Sampling		$	
Correct		Umpire		$	
		TOTAL		$ 140.86	$ 140.86
				NET PROCEEDS $	363.27

to Eric Jendresen
10% to J. L. Templeman, Butte
Whitehall

Rates, except on contracts, subject to change without notice.
A charge of $5.00 made on all lots under 5 tons.

25M—3-34.

RECORD PRINT, HELENA, MONT.

AMERICAN SMELTING AND REFINING CO.

EAST HELENA PLANT

East Helena, Mont., March 27, 1936 193

Bought of J. T. Pickerson Mine Best Our Lot No. 467

Class Crude Shipping Point Jefferson, Montana Mine Lot No. 1

Quotations of Weeks Avg. Silver .77 Lead 4.60 Cathode Copper 8.90

ASSAYS	GOLD Oz. per ton	SILVER Oz. per ton	LEAD Per Cent	COPPER Per Cent	INSOL Per Cent	IRON Per Cent	MANGANESE Per Cent	ZINC Per Cent	SULPHUR Per Cent	ARSENIC Per Cent	ANTIMONY Per Cent	BISMUTH Per Cent
A. S. & R. Co.	1.62	23.4	5.5	1.69	48.8	17.5	0.3	3.0	15.0	0.18	0.68	0.03
Umpire												
Settlement	1.62	23.4	5.5	1.69	48.8	17.5	0.3	3.0	15.0	0.18	0.68	0.03

Car Number	Weight
Truck	8300

Weight of Lot

Weight of 50 Sacks 32

Wet Weight 6268

Less Moisture 0.7 % 44

Dry Weight 6224

VALUES PER TON

Gold	31.18775	@ 32.00-1/4%	31.55
Silver 95%		@ .77	17.16
Lead Less 1.50%		@ 4.60-1.50	3.10
Copper, Less 1.0		@ 8.00-6.00	.40
			71.20
Less Total Deductions			5.25
Pounds		@	65.95

DEDUCTIONS PER TON

Base for Charge Lead			5.00
			5.00
Insoluble	% @		
Zinc	% @		
Sulphur	% @		
Arsenic	% @		
Antimony	% @		
Bismuth	0.69 Lbs. @	.50	.25
Debit			
Iron	% @		
Total Deductions		$	5.25
Per Ton		$	206.55

Freight Per Wet Ton @	$	
Hauling Per Wet Ton @	$	
Royalty 16% J. L. Templeman, Butte	$	20.06
Advances	$	
Umpire	$	
Sampling When Less Than 10 Tons	$	5.00
TOTAL	$ 25.06	$ 25.06
NET PROCEEDS		$ 180.49

Date of B/L

Date of Arrival 3-19-36

Checked

Correct J Moe

Rates except on contracts, subject to change without notice.

A charge of $5.00 made on all lots under 10 dry tons.

25M—10-35.

INDEPENDENT PUBLISHING CO.

AMERICAN SMELTING AND REFINING CO.
EAST HELENA PLANT

East Helena, Mont., [illegible] 193

Bought of [illegible] Mine [illegible] Out Lot No. [illegible]

Class [illegible] Shipping Point [illegible] Mine Lot No. 3

Quotations of [illegible] Silver .77 Lead 4.20 Cathode Copper 7.65

ASSAYS	Gold Oz. per ton	Silver Oz. per ton	Lead Per Cent	Copper Per Cent	Insol Per Cent	Iron Per Cent	Manganese Per Cent	Zinc Per Cent	Sulphur Per Cent	Arsenic Per Cent	Antimony Per Cent	Bismuth Per Cent
A. S. & R. Co.	0.84	15.8	4.4	2.55				4.8	20.0	0.25	0.7[illegible]	
Umpire												
Settlement	0.84	15.8	4.4	2.55				4.8	20.0	0.25	0.7[illegible]	

Car Number	WEIGHT
	Truck [illegible]

VALUES PER TON	
[illegible]	
Gold 95% @ $20.00	[illegible]
Silver 95% [illegible] @ [illegible]	[illegible]
Lead Less [illegible] 00% @ [illegible]	[illegible]
Copper, Less [illegible] @ [illegible]	[illegible]
	[illegible]
Less Total Deductions	5.00

DEDUCTIONS PER TON	
Base for Charge % Lead 5.00	
Insoluble % @	
Zinc % @	
Sulphur % @	
Arsenic % @	
Antimony % @	
Bismuth % @	
Debit % @	
Iron % @	
Total Deductions $	5.00

Weight of Lot

Weight of [illegible] Sacks [illegible]

Wet Weight [illegible]

Less Moisture [illegible] % 100

Dry Weight [illegible]

Lbs. @ [illegible]

Per ton $ [illegible]

Freight Per Wet Ton @

Hauling Per Wet Ton @ .00 [illegible]

Royalty [illegible]

Advances

Sampling

Umpire

Date of B/L

Date of Arrival

Checked

Correct [illegible]

Rates, except on contracts, subject to change without notice.
A charge of $5.00 made on all lots under 5 tons.

TOTAL $ [illegible]

NET PROCEEDS $ [illegible]

RECORD PRINT, HELENA, MONT.

AMERICAN SMELTING AND REFINING CO.

EAST HELENA PLANT

East Helena, Mont., October 29, 1936 193

Bought of Mrs. J. E. Dickerson Mine West Our Lot No. 2165

Class Crude Shipping Point Jefferson City, Montana Mine Lot No. 3

Quotations of Weeks Av. Silver .77 Lead 4.60 Cathode Copper 9.40

ASSAYS	GOLD Oz. per ton	SILVER Oz. per ton	LEAD Per Cent	COPPER Per Cent	INSOL Per Cent	IRON Per Cent	MANGANESE Per Cent	ZINC Per Cent	SULPHUR Per Cent	ARSENIC Per Cent	ANTIMONY Per Cent	BISMUTH Per Cent
A. S. & R. Co.	0.64	23.0	9.2	1.60	35.0	19.5	0.3	4.4	20.0	0.15	0.28	0.14
Umpire												
Settlement	0.64	23.0	9.2	1.60	35.0	19.5	0.3	4.4	20.0	0.15	0.28	0.14

Car Number	Weight
Truck	30680

Weight of Lot

Weight of Sacks

Net Weight

Less Moisture 0.8 % 245

Dry Weight 30435

VALUES PER TON

Gold 21.1[illegible]	@ 35.00-1/4	20.36
Silver 95%	@ .77	16.82
Lead Less 1.5 90%	@ 4.60-1.50	4.30
Copper, Less 1.0	@ 9.40-6.00	.41
		41.89
Less Total Deductions		6.56

DEDUCTIONS PER TON

Base for Charge Lead	5.00	
Truck Shipment	.25	
		5.25
Insoluble % @		
Zinc % @		
Sulphur % @		
Arsenic % @		
Antimony % @		
Bismuth 2.816 Lbs.	@ .50	1.31
Debit		
Iron % @		
Total Deductions		$ 6.56

Pounds @ 35.33 Per Ton $ 537.63

Freight Per Wet Ton @	$	
to N. Puers, Jefferson @ 7.00 Hauling Per Wet Ton @	$ 107.39	
10% to Templeman Estate, Butte Royalty	$ 43.03	
1/3 of proceeds to R. Madison, Jefferson Advances	$ 129.07	
1/3 of proceeds to M. Ferrero, Jefferson Umpire	$ 129.07	
Sampling When Less Than 10 Tons	$	

Date of B/L

Date of Arrival 10-24-36

Checked

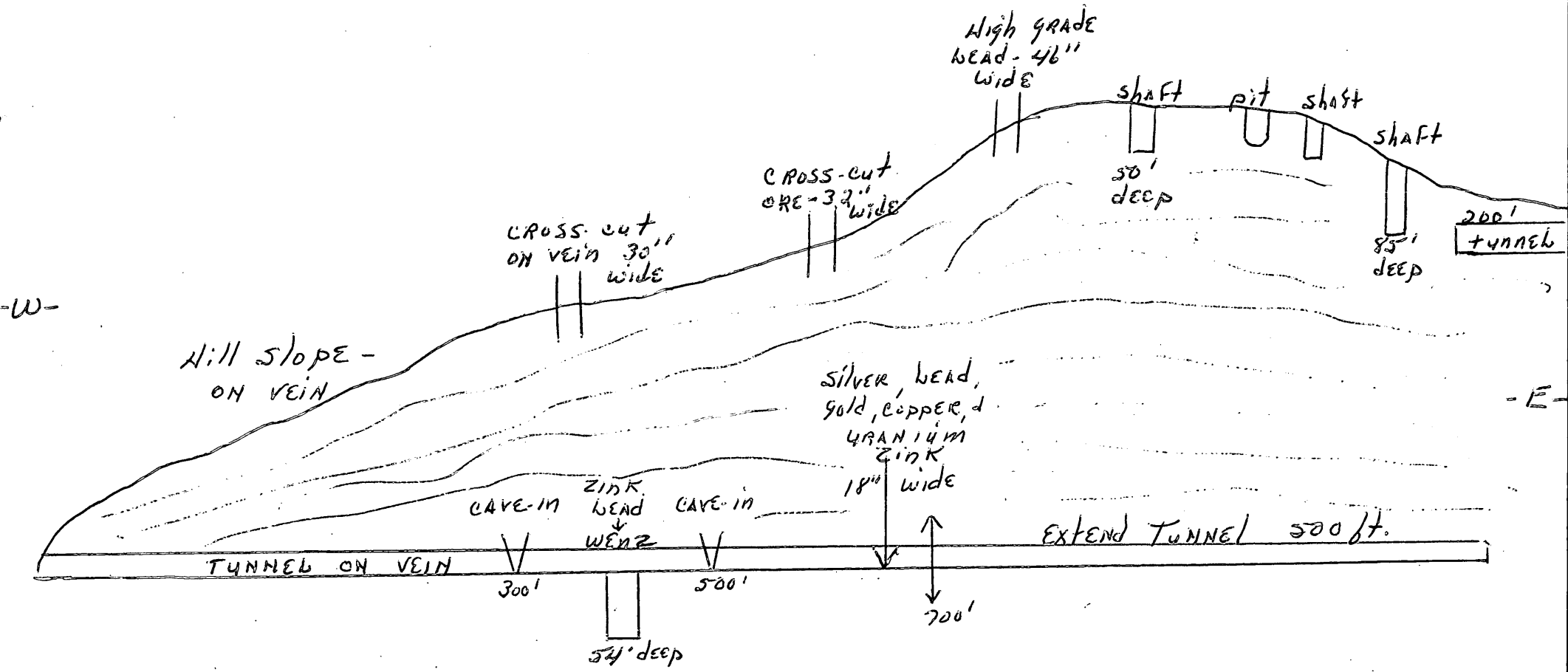
Correct JMc

Rates except on contracts, subject to change without notice. TOTAL $ 408.55 $ 408.55

A charge of $5.00 made on all lots under 10 dry tons. NET PROCEEDS $ 129.08

25M--10-35. INDEPENDENT PUBLISHING CO.

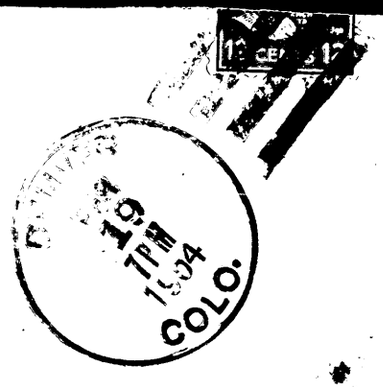
Length of Vein - 4500 feet.
3 patented claims - 2 recorded claims.



BUREAU OF MINES

OFFICIAL BUSINESS

224 NEW CUSTOMHOUSE
DENVER 2, COLORADO

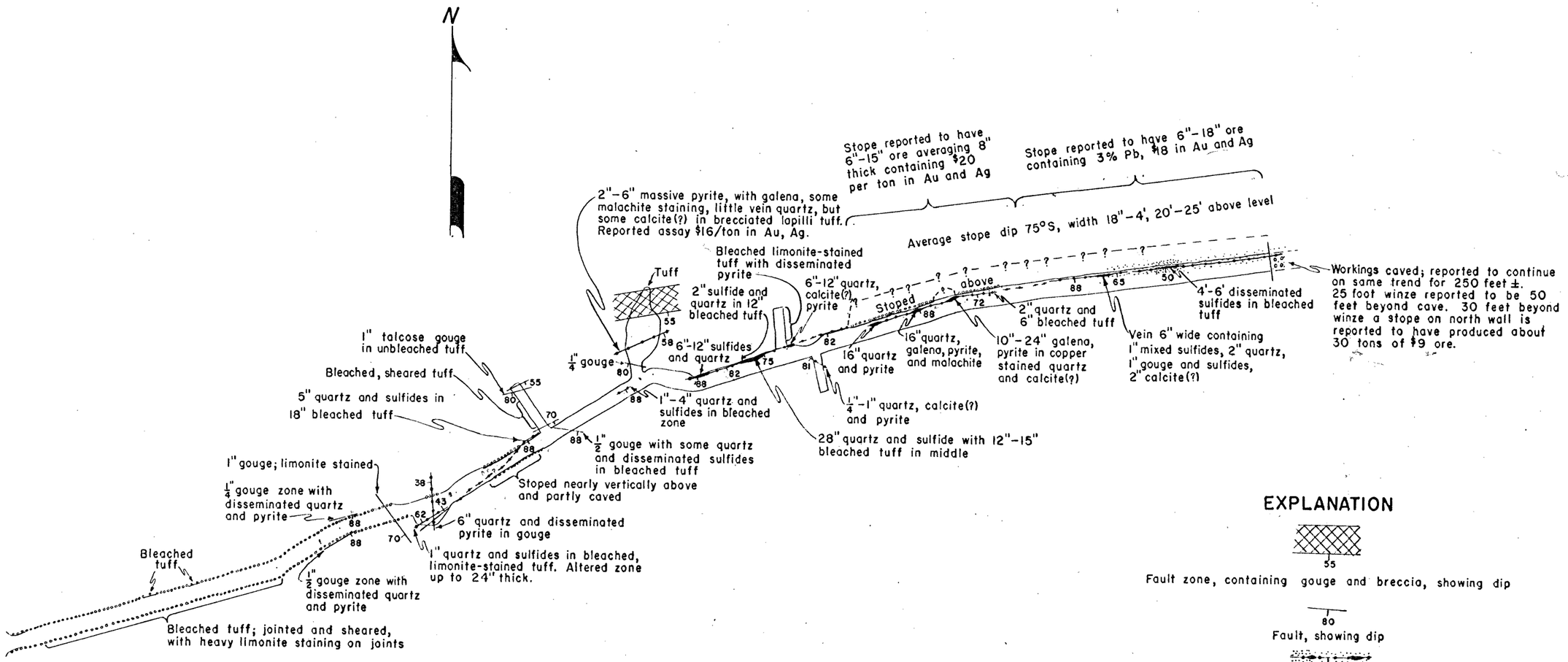


Defense Minerals Exploration Administration

Interior Bldg.

Washington 25, D.C.

DEPARTMENT O. HE INTERIOR
UNITED STATES GEOLOGICAL SURVEY



GEOLOGIC MAP OF BELL MINE, NW 1/4 SEC. 15, T. 7 N., R. 2 W., JEFFERSON COUNTY, MONTANA

40 0 40 80 120 Feet