DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 1171 x

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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 LOAN

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

Routing Slip

To:	SUPPLY DIVISION	Date	9-10-51
To:	Reports and Records	Date	SEP 11 1951
To:		Date	
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DO NOT DETACH

CONTROLLED DOCUMENT

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

SEP 12 1951

Re: DMA-1171
L. Thompson
L., R. L. & C. Ward
Hard Luck Mines
Elliston, Montana
Exploration loan $14,000
Lead, zinc

G. E. C.

Memorandum

To: Reports and Records Unit
Administrative Management Division

From: Chief, Lead-Zinc Branch

Subject: Denial of exploration loan

The field team report on the subject property recommends that an exploration loan should be denied. Assays and the field examination indicated a very low grade of lead-zinc ore. The mineralization is insufficient to justify exploration under the Defense Minerals Administration's program. We concur in recommending a denial on the requested loan.

Returned herewith are:

4 Field team reports
4 Forms MF-103

T. P. Billings, Chief
Lead-Zinc Branch

Approved:
Tom Lyon
Director, Supply Division

FILE COPY
SURNAME:

350

Newcomb (ETM)
McKnight
Billings
Br. Chief

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

SEP 12 1951

a, E, C

Re: DMA-1171
L. Thompson
L., R. L. & C. Ward
Hard Luck Mines
Elliston, Montana
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Returned herewith are:

4 Field team reports
4 Forms MF-103

T. P. Billings, Chief
Lead-Zinc Branch

Approved:
Tom Lyon
Director, Supply Division

ELNewcomb:emp
G 9-7-51

Copies to: A. E. Weissenborn Region II (2)
Chief, Lead-Zinc Br.
E. T. McKnight 4204 GSA
R. H. Mote
Directors r. files 4214 GSA
Br. r. files 4214 GSA
Administrators r. file
DMA docket files

FILE COPY
SURNAME: 350

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

SEP 12 1951

Newcomb (ETM)
McKnight
Bishop
Brabop

Re: DMA-1171

a. E. C.

Mr. Lester Thompson
Hard Luck Mines
Elliston, Montana

Dear Mr. Thompson:

The Defense Minerals Administration has reviewed your application for an exploration loan. We have the field examination report on your property. From our available information, we must conclude that insufficient lead-zinc mineralization is showing at your property to qualify for exploration under the Defense minerals Administration's program. We regret, therefore, that we are unable to approve an expenditure of public funds for your project.

We wish to thank you for bringing this property to our attention.

Very truly yours,

Tom Lyon, Director
Supply Division

JF 9/12

ELNewcomb:emp
G 9-7-51
Copies to: A. E. Weissenborn Region II (2)
Chief, Lead-Zinc Br.
E. T. McKnight 4204 GSA
R. H. Mote
Directors r. files 4214 GSA
Br. r. files 4214 GSA
Administrators r. file
DMA docket files

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

So. 157 Howard Street
Spokane 4, Washington

August 16, 1951

Memorandum

Through: Landon F. Strobel

To: Mr. Tom Lyon, Chairman, Coordinating Committee

From: Field Team, Region II

Subject: DMA Docket 1171X
Hard Luck Mines
Powell County, Montana

Enclosed herewith is a report by J. J. Quinlan on the subject property, together with the docket material.

The examining geologist recommends that the applicant's request for aid be denied as the vein exposed on the property does not show sufficient lead-zinc mineralization to warrant exploration under the DMA program.

The field team concurs with this recommendation.

By Field Team, Region II

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

M. E. Volin, Member
(U. S. Bureau of Mines)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 20 1951

Enclosures

cc: L. F. Strobel
U. S. B. M.

AUG 31 1951

B

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
So. 157 Howard Street
Spokane 4, Washington

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 20 1951

August 16, 1951

Memorandum

To: A. E. Weissenborn, Executive Officer, DMA Field Team, Region II

From: J. J. Quinlan, U.S.G.S.

Subject: Hard Luck Mines, DMA Docket 1171X

Recommendation

The DMA field examiner recommends that the application of the Hard Luck mines for an exploration loan of $14,000 be denied.

The vein exposed in the adit and in the No. 1 trench does not show sufficient lead-zinc mineralization to warrant exploration under the DMA program. A grab sample of the so-called hi-grade from the No. 1 trench ran a trace gold, 2.7 ozs. silver, 1.6 percent lead, and no zinc.

Applicant

The applicant is Hard Luck Mines, a Montana co-partnership. The partners are Lester Thompson, Larry Ward, Ray L. Ward, and Charles Ward all of Elliston, Montana.

Location

The Hard Luck mine is approximately 14 miles southeast of Elliston, Montana, on the north side of the East Fork of Ontario Creek. It is most easily reached from Elliston by the road up Telegraph Creek, which drops into the Ontario Creek drainage.

The property is comprised of two unpatented quartz lode mining claims, Hard Luck #1, and Hard Luck #2 in secs. 20 and 21, T. 8 N., R. 6 W., M.P.M. Elliston Mining District, Powell County, Montana.

History and Past Production

The mine is said to have been operated by two prospectors about 1880, and has been idle since that date. There is no recorded past production from the property.

Description of Proposal

The applicant proposes to extend the present drift face of the adit 280 feet southeast (see map) to develop the mineralized showing in trench No. 1 at a depth of 120 feet.

The applicant is not prepared to contribute any money toward the cost of the project. However, the four partners will contribute as their part of the cost, labor, compressor, drifter, pipe and small tools.

Mine Workings and Geology

The development workings consist of several trenches, a small caved (July 1951) shaft and an adit 270 feet in length.

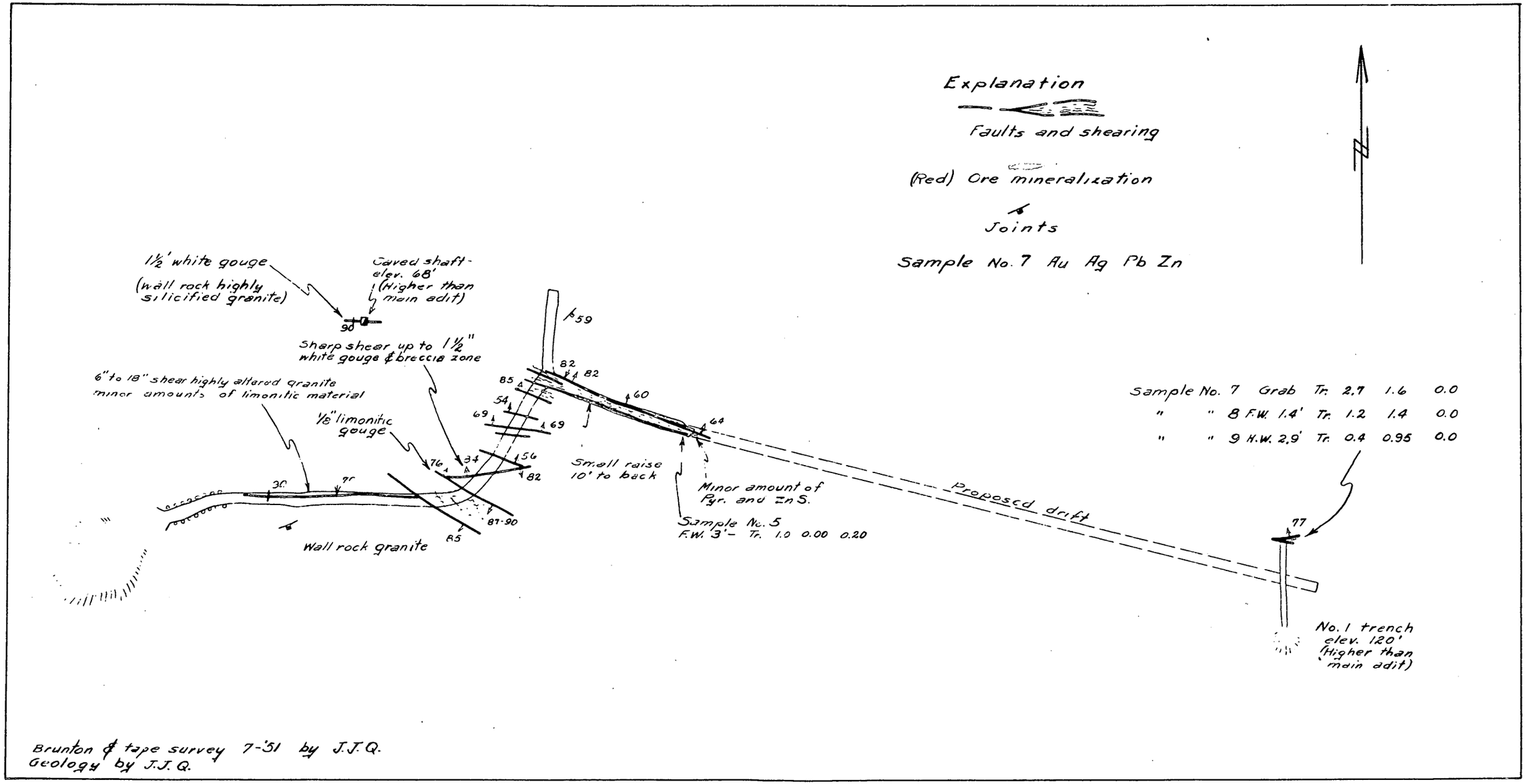
The structure on which the applicant proposes drifting is an an 8-foot shear zone in granite of the Boulder Batholith (late Cretaceous age). Seventy feet of drifting in the adit has been completed along the shear. The shear zone strikes S. 70° E., and has an irregular dip which varies from 64° N. to 82° S. The only mineralization seen along this zone was in the hanging wall portion of the shear at the southeast drift face. A three foot sample cut across the zone assayed tr. gold, 1.0 ozs. silver, no lead and 0.20 zinc. The wall rock of the shear zone is slightly silicified.

The No. 1 trench (see map for location) was mostly caved, however, the applicant cleaned out a part of it to expose the better portions of the vein. The structure as exposed was a highly silicified zone 4.3' wide. The strike of the shear planes in the zone varied from N. 76° E., to N. 80° W., and dipped 77° N. The footwall portion (2.9 feet) is silicified granite assaying tr. gold, 0.40 ozs. silver, 0.95 percent lead and no zinc. The hanging wall portion (1.4') of highly silicified [illegible] material assayed tr. gold, 1.2 ozs. silver, 1.4 percent lead and no zinc. A grab sample of the so called hi-grade material from this zone assayed tr. gold, 2.7 ozs. silver, 1.6 percent lead and no zinc.

Sloughed trenches were observed for 700 feet along the strike of the structure.

Most of the talus material seen along the strike of the shear zone is rhyolite, of Miocene or Pliocene age. The shear zone is evidently close to the contact between the Boulder-Batholith and the later rhyolite flows.

It is doubtful if the structure exposed in the No. 1 trench and the shear zone in the adit are the same structure.



GEOLOGIC MAP OF HARD LUCK MINES
POWELL COUNTY, MONT.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

[illegible] 15th Howard Street
[illegible] 4, [illegible]

[illegible] [illegible]

[illegible] [illegible] [illegible] [illegible]

To: Mr. Tom Lyons, Chairman, [illegible]

From: Field Team, [illegible]

Subject: [illegible] 1972
[illegible]
Powell County, Montana

[illegible] report is a report by [illegible] on the [illegible] property, together with the [illegible] material.

The accompanying geologist recommends that the applicant's request [illegible] be denied as the vein exposed on the property does not show a [illegible] [illegible] [illegible] under the [illegible] program.

[illegible] [illegible] [illegible] [illegible] recommendation.

[illegible] Field Team, Section II

[illegible]
C. [illegible] Executive Officer
(U. S. Geological Survey)

[illegible]
[illegible] Member
(U. S. Bureau of Mines)

Enclosures

[illegible]

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

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[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

History and Production

The mine is said to have been operated by two prospectors about [illegible], and has been idle since that date. There is no recorded past production from the property.

Description of Proposal

The applicant proposes to extend the present drift face of the adit 250 feet southwest (see map) to develop the mineralized showing in trench No. 1 at a cost of [illegible] feet.

The applicant is not prepared to contribute any money toward the cost of the project. However, the four partners will contribute as their part of the cost, labor, compressor, drifter, [illegible] and small tools.

Mine Workings and Geology

The development workings consist of several trenches, a small caved (July 1951) shaft and an adit 2[illegible]0 feet in length.

The structure on which the applicant proposes drifting is an [illegible] shear zone in granite [illegible]. Seventy feet of drifting in the adit has been completed along the shear. The shear zone strikes [illegible], and has an irregular dip which varies from [illegible] to [illegible]. The only mineralization seen along this zone was in the hanging wall [illegible] at the southwest drift face. A three foot sample cut across the zone [illegible] oz. gold, [illegible] oz. silver, [illegible] lead and [illegible] zinc. The wall rock of the shear zone is [illegible] silicification.

[illegible] No. 1 trench [illegible] for location [illegible], however, the applicant [illegible] the upper portions of the vein. The structure so exposed was a [illegible] silicified zone [illegible] wide. The strike of the shear planes in the zone varied from [illegible] to [illegible], and dipped [illegible]. The footwall portion ([illegible] feet) is silicified granite assaying [illegible] oz. gold, [illegible] oz. silver, [illegible] percent lead and [illegible] zinc. The hanging wall portion ([illegible] feet) silicified material assayed [illegible] oz. gold, [illegible] oz. silver, [illegible] percent [illegible]. A [illegible] sample of the so called [illegible] [illegible] oz. gold, [illegible] oz. silver, [illegible] percent lead and [illegible] zinc.

[illegible] were observed for [illegible] feet along the strike of the structure.

[illegible] along the strike of the shear zone is granite, [illegible]. The shear zone is evidently close to [illegible] and the later [illegible].

It is doubtful if the structure exposed in the No. 1 trench and the shear zone in the adit are the same structure.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

[illegible] Street
[illegible] 25, [illegible]

[illegible] 1951

Memorandum: [illegible]

To: [illegible] Defense Minerals Administration

From: [illegible]

Subject: [illegible]
[illegible]
[illegible] County, Arizona

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 20 1951

[illegible] and [illegible] is a report by [illegible] on the subject property, together with the coal material.

[illegible] recommends that the applicant's request for [illegible] as the [illegible] on the property [illegible] under the [illegible] contract.

[illegible] concurrence in the recommendation.

[illegible]

[illegible]
U. S. Geological Survey

[illegible]
(U. S. Bureau of Mines)

Enclosure
[illegible]

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

[illegible] Howard Street
[illegible] 6, California

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 20 1951

Memorandum

To: A. [illegible] Wilson-Orr, Executive Officer, [illegible]

From: J. [illegible]

Subject: Lucky Lass, [illegible] (171)

Recommendation

The [illegible] examiner recommends that the application of the Lucky Lass [illegible] be denied.

The vein exposed in the pit on the No. 1 drain does not show sufficient [illegible] mineralization to warrant exploration under the MA program. A grab sample of the nonmineralized [illegible] from the No. 1 drain [illegible] a trace [illegible] gold, [illegible] silver, [illegible] lead, and [illegible] zinc.

Applicant

The applicant is [illegible] and associates. The partners are [illegible], [illegible], and [illegible] all of [illegible].

Location

The [illegible] mine is approximately 14 miles southeast of [illegible], [illegible] on the [illegible] of Oregon [illegible]. It is [illegible] reached from [illegible] by [illegible] Creek, which [illegible] into the Oregon [illegible].

The property is [illegible] of two [illegible] quartz [illegible] claims, [illegible] and [illegible] [illegible] and [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].

Ownership and production

[illegible] operated by the [illegible] since [illegible]. There is no recorded past production from the property.

Description of prospect

A [illegible] was to extend the present drift from [illegible] feet northeast (see map) to develop the mineralized shear in trench No. 1 at a depth of [illegible] feet.

[illegible] are prepared to contribute any money toward the cost of the project. However, the four partners will contribute as their part of the cost, labor, powder, drills, [illegible] and small tools.

Mine workings and geology

The development works consists of several trenches, a small shaft (fully [illegible]) which cut [illegible] feet in length.

The structure on which the applicant proposes drifting is an [illegible]-foot shear zone in granite of the Bullfrog Hills (late Cretaceous age). Twenty feet of drifting in the adit has been carried along the shear. The shear zone strikes [illegible], and has an [illegible] varying from [illegible] to [illegible]. The only mineralized zone observed to date was in the [illegible] wall portion of the shear at the exposed drift face. A three foot sample cut across the zone gave [illegible] gold, [illegible] silver, no lead and [illegible] zinc. The wall rock of the shear zone is [illegible] silicified.

The [illegible] (see [illegible]) has developed two drifts, between the applicant claims are [illegible] to extend the lower portions of the [illegible]. The structure on [illegible] and a [illegible] strike [illegible] 6.5' wide. The strike of the shear zone in the area varied from [illegible], [illegible], and [illegible]. The foot wall portion (1.6 feet) is silicified granite containing [illegible] gold, [illegible] oz. silver, [illegible] lead and no zinc. The hanging wall portion (1.[illegible] feet) is mineralized quartz [illegible] gold, 1.8 oz. silver, 1.8 percent lead and no zinc. A grab sample of this so called "hanging wall" portion assayed [illegible] gold, 6.7 oz. silver, 1.4 percent lead and no zinc.

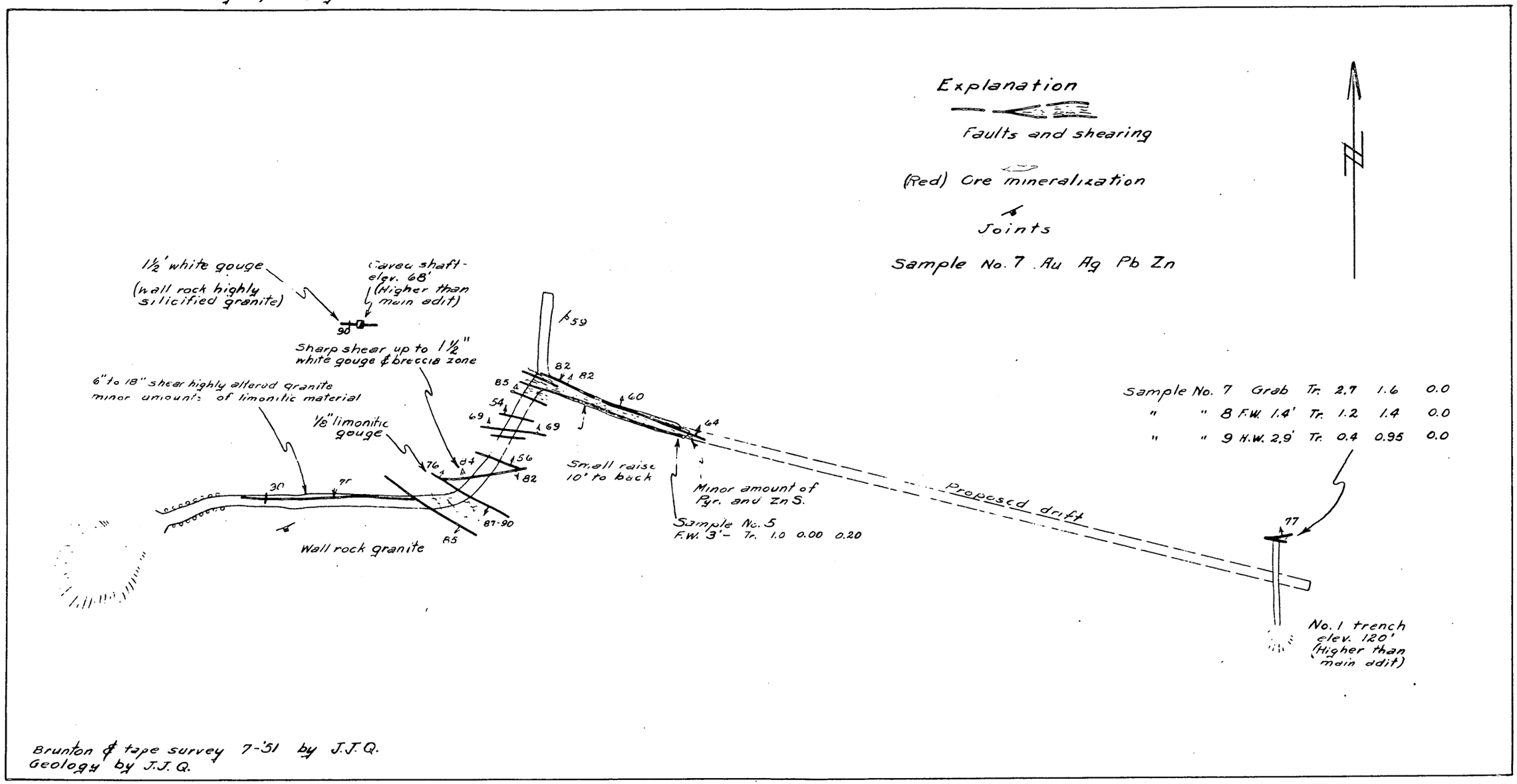
Fracture [illegible] were observed for 100 feet along the strike of the structure.

[illegible] the [illegible] of the shear zone is [illegible] to [illegible] of [illegible] [illegible]. The shear zone is extremely close to the contact between the [illegible] and the later granite [illegible].

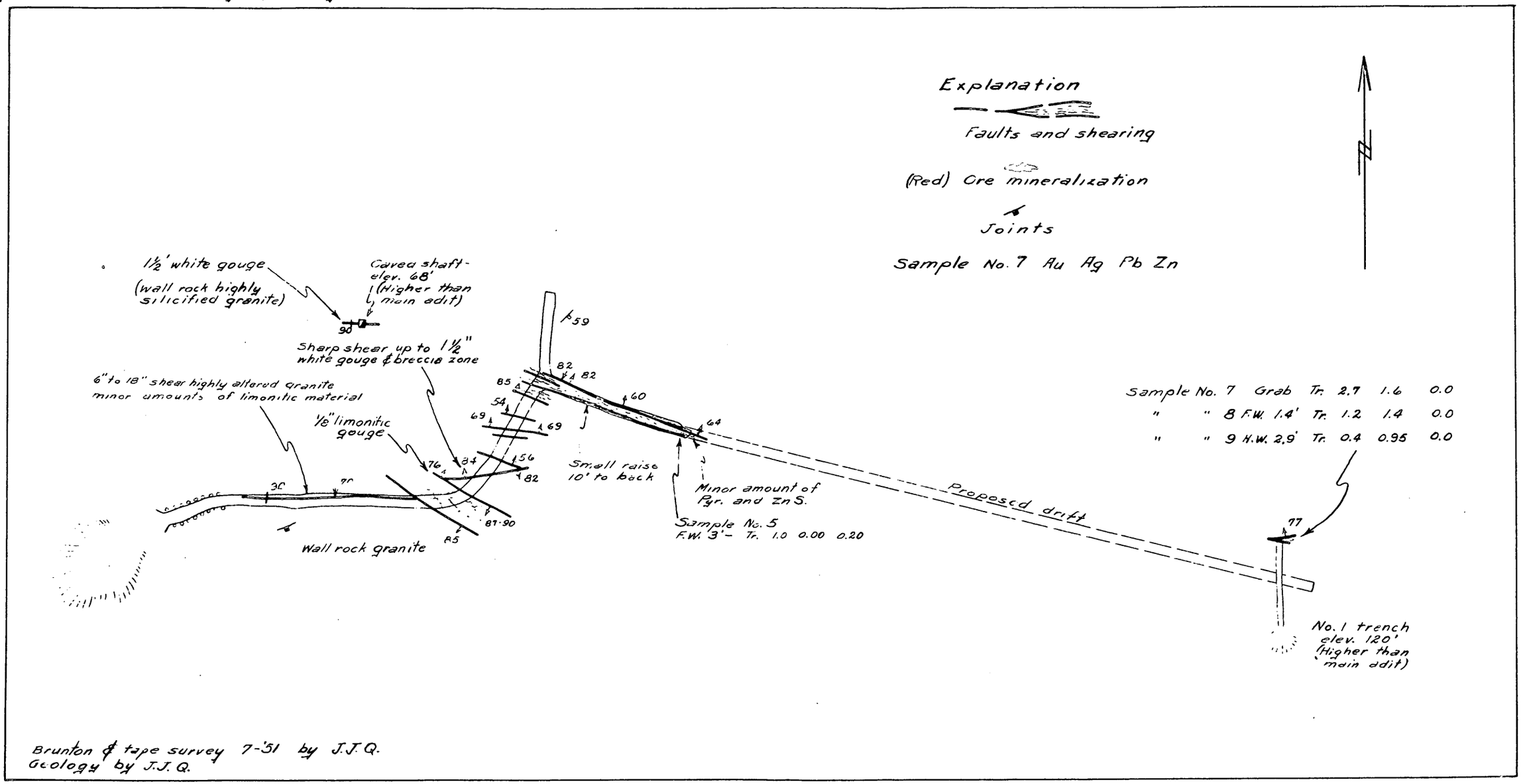
It is doubtful if the structure exposed in the No. 1 trench and the shear zone in the adit are the same structure.

Department of the Interior
United States Geological Survey

D.M.A. Docket 1171 X



GEOLOGIC MAP OF HARD LUCK MINES
POWELL COUNTY, MONT.



GEOLOGIC MAP OF HARD LUCK MINES
POWELL COUNTY, MONT.

FILE COPY
SURNAME:

McKnight
Moore
Hebre

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

File mailed to — JUN 6 1951

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

Re: Docket DMA-1171
Hardluck Mines
Elliston, Montana
Gold-silver-lead-zinc
Exploration loan

Dear Mr. Weissenborn:

The attached application is being referred to the field team for further information and advice.

The applicants have a vein in granite located in the Elliston district, Montana. No thickness is given of the vein and very little description is given other than that it contains gold, silver, lead, and zinc. A sketch map enclosed with the application shows a zinc sulfide vein. The applicants have not given an adequate description of what they propose to do other than "to continue tunnel" for an estimated 120 days.

The geologic setup is not a particularly good lead-zinc type of prospect and we believe that the prospect holds little promise for lead-zinc production. However, a few veins in this general area are known to show fairly good mineralization, so that the property should be examined before it can be turned down. If the vein is exposed in the workings and does not show enough zinc-lead to make it of interest, the project should be denied as there seems to be little point in drifting blindly on such a vein in the hope that it will become better in base metals. Considering the location of this mine, it is probable that no zinc would be recovered, unless the property should prove up enough ore to justify a small mill, which seems improbable.

Very truly yours,

Tom Lyon

Chairman
Coordinating Committee

Lowell B. Moon
for the Bureau of Mines

Chas. N. Rove
for the Geological Survey

ETMcKnight:emp G 6/5/51
Copies to: Chief, Lead-Zinc Br.
E. T. McKnight 4204 GSA
L. B. Moon
R. H. Mote
L. F. Strobel
Tom Lyon
Directors r. file 4214 GSA
Br. r. file 4214 GSA
Adm. file
Files

File 1171

8596

FILE COPY
SURNAME:

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

McKnight
Moon

June 5, 1951

Re: Docket DMA-1171

Mr. Lester Thompson, President
Hardluck Mines
Elliston, Montana

Dear Mr. Thompson:

Your application (Docket DMA-1171) for a Government loan under the provisions of the Defense Production Act of 1950 has been reviewed by the Lead-Zinc Branch of the Defense Minerals Administration. Before final decision can be taken on your request it will be necessary to obtain additional information on your property. Your application, therefore, has been referred to Mr. A. E. Weissenborn, Executive Officer of the Field Team, South 157 Howard Street, Spokane 8, Washington, with the request that the needed information be supplied to us.

Very truly yours,

Tom Lyon, Director
Supply Division

ETMcKnight:emp
G 6/5/51
Copies to: A. E. Weissenborn (2)
Chief, Lead-Zinc Br.
E. T. McKnight 4204 GSA
L. B. Moon
R. H. Mote
L. F. Strobel
Tom Lyon
Directors r. file 4214 GSA
Br. r. file 4214 GSA
Files

FILE COPY
SURNAME:

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

Herres
McKnight
Hunt
Lyon
Strobel 6/5

May 31, 1951

DMA-1171
Lester Thompson
Hard Luck Mines
Powell County, Montana

Honorable Mike Mansfield
House of Representatives
Washington 25, D. C.

Dear Mike:

The application of Mr. Lester Thompson, Ellistom, Montana, for assistance to the Hard Luck Mines in Powell County, Montana, under the mineral exploration program of DMA was received by the Lead-Zinc Branch on May 15. The project has been referred to the United States Geological Survey for consideration and will be handled promptly.

In case I can be of further assistance to you at any time, please do not hesitate to call on me.

Sincerely yours,

JAMES BOYD

Administrator

JB

CHERRES:ks

cc: Administrator
Strobel
Hote
McKnight
Herres
Files

DMA 1171

FILE COPY
SURNAME:

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

May 16, 1951

Mr. Lester Thompson
Hard Luck Mines
Elliston, Montana

Subject: DMA 1171X
Re: Exploration Loan
Hard Luck #1 and Hard
Luck #2

My dear Mr. Thompson:

Receipt is acknowledged of your application and attachments from the Hard Luck Mines for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number 1171X and referred to Mr. Otto Herres, Chief, Lead-Zinc Branch on May 15, 1951.

In any future correspondence relating to your application, kindly refer to DMA 1171X.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

LFSTROBEL:mab
cc: Strobel 2
Files
Herres
Lyon

MIKE MANSFIELD
1ST DISTRICT, MONTANA

~~LANDON F. STROBEL~~ Mr. Herres

COMMITTEE:
FOREIGN AFFAIRS

Congress of the United States
House of Representatives
Washington, D. C.

May 14, 1951.

DMA 1171X

Mr. James Boyd, Administrator,
Defense Minerals Administration,
Washington, D. C.

Dear Jim:

Mr. Lester Thompson, Box 531, Elliston, Montana, has sent in his DMA application to your office. You will recall that I wrote you on March 21 asking you to send him the necessary forms etc. Mr. Thompson is one of a partnership who operate two quartz claims in the Elliston District.

I would appreciate it very much if you would advise me what action is being taken on this application. This application may be under the name of the claims - Hard Luck No. 1 and Hard Luck No. 2.

Thanking you and with best personal wishes, I am

Sincerely yours,

Mike Mansfield

Department of the Interior
Defense Minerals Administration
RECEIVED
MAY 23 1951
LANDON F. STROBEL
Executive Secretary

BUREAU OF MINES
MAIL ROOM
WASHINGTON, D. C.

MAY 17 8 54 AM '51

MIKE MANSFIELD
1ST DISTRICT, MONTANA

LANDON F. SCHOBEL

Mark - Copy Control

COMMITTEE:
FOREIGN AFFAIRS

Congress of the United States
House of Representatives
Washington, D. C.

May 14, 1951.

Mr. James Boyd, Administrator,
Defense Minerals Administration,
Washington, D. C.

Dear Jim:

Mr. Lester Thompson, Box 531, Elliston, Montana, has sent in his DMA application to your office. You will recall that I wrote you on March 21 asking you to send him the necessary forms etc. Mr. Thompson is one of a partnership who operate two quartz claims in the Elliston District.

I would appreciate it very much if you would advise me what action is being taken on this application. This application may be under the name of the claims - Hard Luck No. 1 and Hard Luck No. 2.

Thanking you and with best personal wishes, I am

Sincerely yours,

Mike Mansfield

MAY 29 1951
Mr. Jones
reply for Boyd

April 13, 1971

Mr. Lorden Thompson
Box 532
Billings, Montana

Dear Mr. Thompson:

At the request of the Hon. Mike Mansfield, I am pleased to enclose forms and information concerning the mineral exploration program of DMA.

In case further information is needed or I can be of assistance to you in any other way, kindly let me know.

Yours very truly,

Otto Tiger

OTTO TIGER, Chief
Land-Line Branch

Enclosure

OTTIGER:kn

cc: Administrator
Deputy Administrator
Mr. Stoebel
Mr. Moon
2 copies Mr. A. H. Weisenborn, Region II
Mr. Hote
Mr. McKnight
Mr. Harper
Files

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

March 26, 1951

Honorable Mike Mansfield
House of Representatives
Washington 25, D. C.

Dear Mike:

I shall be pleased to send Mr. Luther Thompson, Box 531, Ellinton, Montana, the necessary information and application forms requested in your letter dated March 21.

Probably Mr. Thompson and his partners would be interested in the mineral exploration program. This program has been approved and will be in operation as soon as application blanks and instructions can be issued. In case the partners plan exploration work to develop their claims, it is quite likely that they can qualify for assistance under the Defense Production Act.

If I can be of further assistance to you at any time, please let me know.

With best personal wishes.

Sincerely yours,

Administrator

CHNRRRB:kn

cc: Administrator
Deputy Administrator
Mr. Strobel
Mr. Moon
Mr. Hote
Mr. McKnight
Mr. Harres
2 copies Region ~~III~~ II, Mr. A. H. Meisenborn
South 157 Howard Street, Spokane, Washington
Files

MIKE MANSFIELD
1ST DISTRICT, MONTANA

LANDON F. STROBEL

COMMITTEE:
FOREIGN AFFAIRS

Congress of the United States
House of Representatives
Washington, D. C.
March 21, 1951

Mr. James Boyd, Director
Defense Minerals Administration
Interior Department
Washington, D. C.

Dear Jim:

Would you please send Mr. Lester Thompson, Box 531, Elliston, Montana, the necessary information and application forms for a loan under the Defense Production Act.

Mr. Thompson is one of four (4) partners who own and operate two (2) quartz claims, namely, Hard Luck No. 1 and Hard Luck No. 2, in the Elliston mining district. These claims will produce lead, zinc and silver.

Would you advise me if they would be eligible for consideration under this Act?

Thanking you for your consideration and with best personal wishes, I am

Sincerely yours,

Mike Mansfield

Mr. Herres

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 23 1951
LANDON F. STROBEL
Executive Secretary

Reply

March 26, 1952

Hon. James E. Murray
United States Senate
Washington 25, D. C.

My dear Senator Murray:

This is in answer to your letter of March 19. The enclosed is a copy of a letter written to Mr. Lester Thompson at Ellistom, Montana, at your request.

We expect to announce the exploration program within the next few days and will send a set of application blanks to Mr. Thompson just as soon as possible.

I am enclosing herewith Mr. Thompson's letter.

Sincerely yours,

Administrator

Enclosure 2

TLyon/apd

cc: Administrator
Deputy Administrator
Executive Secretary
Exec. Officer Field Team, Region II
Mr. Lyon
Files

LANDON F. STROBEL

JAMES E. MURRAY, MONT., CHAIRMAN
LISTER HILL, ALA.
MATTHEW M. NEELY, W. VA.
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GEORGE D. AIKEN, VT.
H. ALEXANDER SMITH, N. J.
WAYNE MORSE, OREG.
IRVING M. IVES, N. Y.
RICHARD M. NIXON, CALIF.
WILLIAM H. COBURN, CHIEF CLERK

United States Senate

COMMITTEE ON
LABOR AND PUBLIC WELFARE

March 19, 1951

Dr. James Boyd, Administrator
Defense Minerals Administration
Department of the Interior
Washington, D. C.

Dear Dr. Boyd:

I am enclosing herewith an inquiry I have received from Mr. Lester Thompson of Elliston, Montana, regarding procedures on development loans. I would appreciate it if you would communicate directly with Mr. Thompson advising him as to the requirements of the Defense Minerals Administration.

Please return the enclosure after it has served its purpose.

Sincerely yours,

James E. Murray

[illegible] 20

March 26, 1952

Mr. [redacted]
Box 511
Kilisten, Montana

Dear Mr. Thompson:

I have read your letter of March 15 to the Hon. James E. Murray, regarding your mining property in the Kilisten mining district.

I believe you are referring to the exploration program which the Defense Minerals Administration will announce within the next few days. When the announcement is made, we will send you the necessary blanks on which to make an application for an exploration lease.

Very truly yours,

Tom Lyon, Director
Supply Division

TLyon/apd

cc: Administrator
Deputy Administrator
Executive Secretary
Exec.Officer, Field Team, Region II
Mr. Lyon
Files

March 19, 1952

Hon. James E. Murray
U. S. Senator From Montana
Washington, D. C.

Dear Sir:

In the February 21st issue of the Helena Independent Record, there appeared an item to the effect that" the government has set aside [illegible] to grub stake prospectors and mine operators in a search for scarce metals needed in the defense program."

The writer is one of a partnership comprised of four other men. We own and operate two quartz claims, namely, Hard Luck No. 1 and Hard Luck No. 2, in the Elliston mining district. These claims will produce lead, zinc and silver

Last summer we located these two claims, built two houses, moved in our own machinery, complete, ready to operate. The equipment is free of encumbrance and is valued at $10,000.

We are interested in securing a loan from the Defense Production Administration, and write this letter in an effort to learn how to secure applications for same. We plan to start operation this coming summer. However, unless we are able to secure a loan of $7,[illegible], we will be obliged to shut down for lack of supplies. If such a loan is granted, it is our intention to use these funds only for supplies, not salaries or personal use. We would appreciate an early response to this inquiry.

Very truly yours,

Lester Thompson by M.C.

Lester Thompson

Box 521
Elliston, Montana

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration

RECEIVED
MAR 2 2 1951

LANDON F. STROBEL
Executive Secretary

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. 1171X

Date received 5-15-51

Participation

Mr. Lester Thompson
Mr. Larry Ward
Mr. Ray L. Ward
Mr. Charles Ward
d/b/a Hard Luck Mines, a
co-partnership
Elliston, Montana

Name and address of applicant

Date May 7, 1951

FILL IN THIS BLOCK

Date of application May 7, 1951

Estimated cost $14,000.00

Mineral or metal Mineral

Percentage of Government participation $7,000.00

Location of mine 14 miles Southeast of Elliston, Powell County, Montana.

Date of filing MF-100

DMA Docket Number, if available 1171X

INSTRUCTIONS

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

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation? Partnership

*2. If a partnership, state names and addresses of partners. See Form MF-100

*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.

*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project. See Form MF-100

*5. Are you the owner or the lessee of the property? Owner.

6. If owner, state what claims, liens, or encumbrances, if any, are against the property. None, whatsoever.

7. If lessee, attach a copy of the lease and state if it is in good standing.

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

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement. Statement attached

9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)? See statement attached.

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

16—64067-1

THE PROPERTY

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

(*b*) Give the legal description of the area in which the exploration is to be conducted. See attached statement.

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

*11. State the present and former names of the property, if any. Hard Luck #1 and Hard Luck #2.

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

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

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work. See Form MF-100

15. State in detail how the ore could be shipped and how and where milled. See attached sheet #12.

*16. History:

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations. See application Form MF-100

(*b*) State briefly the known history and production of adjoining and neighboring properties. See Form MF-100

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations. See Form MF-100

*17. Production:

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

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

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

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

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

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

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

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted? See Form MF-100

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

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

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data. See Form MF-100.

THE REQUIREMENTS AND COSTS

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

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

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

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

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

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

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

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

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

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

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

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.

Hard Luck Mines
(Name of company)

By Lester Thompson
(Signature of authorized official)

May 7, 1951.
(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.

*Same as footnote on page 1.

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

8. Equipment on hand, total value of $8,600.00
Liabilities None
Net worth $8,600.00
No profit and loss statement is attached hereto because and by reason of the fact that we have not produced, but we have expended approximately $5,000.00 for labor and supplies in getting the property ready for production.

9. The applicants herein are prepared to invest an amount equivalent to $7,000.00 by furnishing labor of all four members of the partnership and in furnishing the equipment valued at $8,600.00, and the money advanced by the Government will be used wholly and solely for the purchase of supplies for the continuation of mining and production from said property.

10. a. There are two quartz lode mining claims involved herein, both standard size and, as heretofore shown in the application, with an existing tunnel of at least 270 feet, together with all necessary building for carrying on mining operations, and the necessary water supply therefor.
b. Hard Luck #1 and Hard Luck #2 in Township 8 North, Range 6 West, Sections 20 and 21, M. P. M., in Powell County, Montana.

12. The property is approximately 14 miles from the Northern Pacific Railway lines at Elliston, Montana, and approximately 14 miles from the hard top road at the Junction of U. S. Highway No. 10 and the road known as the Rimini Road. From the junction with the hard top road, it is approximately 13 miles to the American Smelting and Refining Company Smelter at East Helena, Montana, in case we want to truck our ore rather than ship it by rail; the rail line makes a direct connection from Elliston, Montana, which would be our shipping point, with the smelter at East Helena, Montana.

13. There are a great many mountain streams immediately adjacent to the property and we have much more water than we will ever have any need for. We intend to use a gas compressor for power but we are ten miles from an electrical line, if it ever became feasible to use same.

21. We propose to continue the tunnel and the estimated time required to complete the work proposed would be 120 days.

23. a. We propose to do the work ourselves (four partners who are all miners) with the expectation that we would not have to employ more than one miner, whose wages would be $14.00 per day.
b. We will do our own supervisory work, without cost.
c. All existing facilities are in good repair and no expense will be necessary to maintain them except for the usual wear and tear and breakdowns. We estimate this cost to run approximately $1,000.00 per month.
d. We intend to build a compressor house at a cost of approximately $1,000.00.
e. We will necessarily have to purchase additional powder and bits at an estimated cost of $300.00.
f. We own our own equipment and do not propose to rent any.
g. $2,000.00 per month.
h. Fuses and caps, approximately $500.00 per month.
i. Approximately $600.00.

24. We believe that with the four of us working, and with the help of one hired miner, we can develop the property to the point where production is steady and that the property thereafter will adequately take care of continued mining operations. We believe that the $7,000.00 requested from the Government will all be spent within a period of 120 days after the commencement of production and we expect to be on a solid paying basis within the 120 day period.

Page 11 of Exhibit 1

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. 1171 X

Date received 5-15-51

Mr. Lester Thompson
Mr. Larry Ward
Mr. Ray L. Ward
Mr. Charles Ward
d/b/a Hard Luck Mines
a co-partnership
Elliston, Montana

Name and address of applicant

Date May 7, 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) Necessity Certificate pursuant to the provisions of Sec. 124-A (Amortization Deduction) of Internal Revenue Code, 1950, (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

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? Gold, silver, lead, Zinc.
   (*b*) What are the byproducts, if any? None.
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. None.
   (*b*) Linear feet of drifts and crosscuts. 270 feet.
   (*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. 22 miles to smelter.
   (*b*) Mining district. Little Blackfoot.
   (*c*) Township, Section, Range. T. 8 N.R. 6 W-Sections 20 & 21
   (*d*) County, State. Powell County, Mont. M. P. M.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated. Closed for winter-will reopen June 1, 1951.
   (*b*) Are you operating this property as:
   - [x] Owner.
   - [ ] Lessee.
   - [ ] Contractor.
5. Number of years in production New-but in summer of 1950 got ready for operation.

   If not in production or operation, estimated date when production will begin June 1, 1951
6. Experience of operators:

   Describe the [illegible] the person or persons who manage the project. Applicants have been mining for many years.
7. History:
   (*a*) Give a statement, as complete as possible, of [illegible] operation, and production of property, with reasons for suspension of operation. See attached statement.
   (*b*) State briefly the known history and production of adjoining and neighboring properties. see attached
   (*c*) Furnish any available (private) reports that may apply to this application, including results of [illegible] recommended exploration and development and metallurgical investigations. There is attached hereto a chart made by the Montana State School of Mines.

16—63792-1

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)
Lester Thompson							
Elliston, Montana	Partner	None	$7,000			None	
Larry Ward							
Elliston, Montana	Partner	None	$4,000			None	
Ray L. Ward							
Elliston, Montana	Partner	None	$3,000			None	
Charles Ward							
Elliston, Montana	Partner	None	$8,000			None	
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet. $22,000.00

9. Capital Stock Issues:

For Corporate Applicants

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

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)	No production has been had from this property as yet.				
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. See above answer.

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. See sheet attached hereto.

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

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

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

TOTAL ORE OR MINERAL RESERVES

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

(*c*) If placer:

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

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

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

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

Property is approximately 14 miles from the hard top road and we intend to improve the gravel road which is in fair shape, leading from the hard top road to our property.

14. Water Supply:

State source and quantity of water available for operation, whether official or unofficial source.

Unlimited supply for our purposes.

15. Power:

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

Gas compressor-approximately $5.00 per day.

16. Labor:

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

All partners, who are applicants, will work themselves and the most we will employ will be one extra miner.

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.

See list attached hereto.

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

See attached list.

No.

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.

Hard Luck Mines
(Name of company)

By Lester Thompson
(Signature of authorized official)

May 7, 1951
(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

7. a. The information obtained by the applicants is to the effect that two prospectors drove the tunnel on this property some seventy (70) years ago but, at that time, the prices were so low that a successful operation from a financial standpoint could not be maintained. There is no record of production from this operation because, of course, at the time of the driving of the tunnel, the prospectors were looking only for gold, as the other products did not have any value.

b. Adjoining the two quartz lode mining claims are two mining properties known as The Ontario and the Julia. Both of these mines were heavy producers, the Ontario mine having produced approximately $2,000,000.00 and the Julia approximately $265,000.00.

17.

A compressor, in good condition	$5,000.00
A liner, in good condition	600.00
Air lines, in good condition	700.00
Drills, bits, hoses, water tank, in good condition	600.00
Rails and car, in good condition	1,000.00
Powder, fuses, caps, gas and oil now on property	700.00

In addition to the above, we have two completely equipped houses, ready for occupancy, both of which are in good condition.

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. 1171 X

Date received 5-15-51

Mr. Lester Thompson
Mr. Larry Ward
Mr. Ray L. Ward
Mr. Charles Ward
d/b/a Hard Luck Mines
a co-partnership
Elliston, Montana

Name and address of applicant

Date May 7, 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) Necessity Certificate pursuant to the provisions of Sec. 124-A (Amortization Deduction) of Internal Revenue Code, 1950, (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

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? Gold, silver, lead, Zinc.
   (*b*) What are the byproducts, if any? Cadmium.
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. None.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits. 270 feet.
   (*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. 22 miles to smelter.
   (*b*) Mining district. Little Blackfoot.
   (*c*) Township, Section, Range. T. 8 N.R. 6 W-Sections 20 & 21
   (*d*) County, State. Powell County, Mont. M. P. M.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated. Closed for winter-will reopen June 1, 1951.
   (*b*) Are you operating this property as:
   - ☒ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production New-but in summer of 1950 got ready for operation.
   If not in production or operation, estimated date when production will begin June 1, 1951
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. Applicants have been mining for many years.
7. History:
   (*a*) Give a statement, as complete as possible, of prospecting, exploration, development, operation, and production of property, with reasons for suspension of operation. See attached statement.
   (*b*) State briefly the known history and production of adjoining and neighboring properties. see attached
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations. There is attached hereto a chart made by the Montana State School of Mines.

16—63792-1

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)
Lester Thompson							
Elliston, Montana	Partner	None	$7,000			None	
Larry Ward							
Elliston, Montana	Partner	None	$4,000			None	
Ray L. Ward							
Elliston, Montana	Partner	None	$3,000			None	
Charles Ward							
Elliston, Montana	Partner	None	$8,000			None	
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet. $22,000.00

9. Capital Stock Issues:

For Corporate Applicants

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

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)	No production has been had from this property as yet.				
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. See above answer.

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. See sheet attached hereto.

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

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

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

TOTAL ORE OR MINERAL RESERVES

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

(*c*) If placer:

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

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

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

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

approximately 14 miles from the hard top road and we intend to improve the gravel road, which is in fair shape, leading from the hard top road to our property.

14. Water:

State source and quantity of water available for operations and whether sufficient for 365 days a year.

Unlimited supply for our purposes.

15. Power:

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

Gas compressor

Gas compressor-approximately $5.00 per day.

16. Labor:

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

All partners who are applicants, will work themselves and the most we will employ will be one extra miner.

17. Equipment:

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.

See list attached hereto.

See attached list.

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

No.

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.

Hard Luck Mines (Name of company)

By _____ (Signature of authorized official)

May 7, 1951 (Date)

_____ (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

7. a. The information obtained by the applicants is to the effect that two prospectors drove the tunnel on this property some seventy (70) years ago but, at that time, the prices were so low that a successful operation from a financial standpoint could not be maintained. There is no record of production from this operation because, of course, at the time of the driving of the tunnel, the prospectors were looking only for gold, as the other products did not have any value.

b. Adjoining the two quarts lode mining claims are two mining properties known as The Ontario and the Julia. Both of these mines were heavy producers, the Ontario mine having produced approximately $2,000,000.00 and the Julia approximately $265,000.00.

17.

A compressor, in good condition	$5,000.00
A liner, in good condition	600.00
Air lines, in good condition	700.00
Drills, bits, hoses, water tank, in good condition	600.00
Rails and car, in good condition	1,000.00
Powder, fuses, caps, gas and oil now on property	700.00

In addition to the above, we have two completely equipped houses, ready for occupancy, both of which are in good condition.

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. 1171 X

Date received 5-15-51

Participation

Mr. Lester Thompson
Mr. Larry Ward
Mr. Ray L. Ward
Mr. Charles Ward
d/b/a Hard Luck Mines, a
co-partnership
Elliston, Montana

Name and address of applicant

Date May 7, 1951

FILL IN THIS BLOCK

Date of application May 7, 1951

Estimated cost $14,000.00

Mineral or metal Mineral

Percentage of Government participation $7,000.00

Location of mine 14 miles Southeast of Elliston, Powell County, Montana.

Date of filing MF-100

DMA Docket Number, if available 1171 X

INSTRUCTIONS

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

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation? Partnership

*2. If a partnership, state names and addresses of partners. See Form MF-100

*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.

*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project. See Form MF-100

*5. Are you the owner or the lessee of the property? Owner.

6. If owner, state what claims, liens, or encumbrances, if any, are against the property. None, whatsoever.

7. If lessee, attach a copy of the lease and state if it is in good standing.

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

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement. Statement attached

9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)? See statement attached.

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

16—64067-1

THE PROPERTY

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

(*b*) Give the legal description of the exact area in which the exploration is to be conducted. See attached statement.

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

*11. State the present and former names of the property, if any. Hard Luck #1 and Hard Luck #2.

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

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

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work. See Form MF-100

15. State in detail how the ore could be shipped and how and where milled. See attached sheet #12.

*16. History:

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation and production of property, with reasons for any past suspensions of operations. See application Form MF-100

(*b*) State briefly the known history and production of adjoining and neighboring properties. See Form MF-100

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations. See Form MF-100

*17. Production:

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

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

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

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

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

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

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

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted? See Form MF-100

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

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

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data. See Form MF-100.

THE REQUIREMENTS AND COSTS

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

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

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

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

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

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

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

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

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

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

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

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.

Hard Luck Mines
(Name of company)

By Lester Thompson
(Signature of authorized official)

May 7, 1951.
(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.

*Same as footnote on page 1.

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

8. Equipment on hand, total value of $8,600.00
Liabilities None
Net worth $8,600.00
No profit and loss statement is attached hereto because and by reason of the fact that we have not produced, but we have expended approximately $5,000.00 for labor and supplies in getting the property ready for production.

9. The applicants herein are prepared to invest an amount equivalent to $7,000.00 by furnishing labor of all four members of the partnership and in furnishing the equipment valued at $8,600.00, and the money advanced by the Government will be used wholly and solely for the purchase of supplies for the continuation of mining and production from said property.

10. a. There are two quartz lode mining claims involved herein, both standard size and, as heretofore shown in the application, with an existing tunnel of at least 270 feet, together with all necessary building for carrying on mining operations, and the necessary water supply therefor.
b. Hard Luck #1 and Hard Luck #2 in Township 8 North, Range 6 West, Sections 20 and 21, M. P. M., in Powell County, Montana.

12. The property is approximately 14 miles from the Northern Pacific Railway lines at Elliston, Montana, and approximately 14 miles from the hard top road at the Junction of U. S. Highway No. 10 and the road known as the Rimini Road. From the junction with the hard top road, it is approximately 13 miles to the American Smelting and Refining Company Smelter at East Helena, Montana, in case we want to truck our ore rather than ship it by rail; the rail line makes a direct connection from Elliston, Montana, which would be our shipping point, with the smelter at East Helena, Montana.

13. There are a great many mountain streams immediately adjacent to the property and we have much more water than we will ever have any need for. We intend to use a gas compressor for power but we are ten miles from an electrical line, if it ever became feasible to use same.

21. We propose to continue the tunnel and the estimated time required to complete the work proposed would be 120 days.

23. a. We propose to do the work ourselves (four partners who are all miners) with the expectation that we would not have to employ more than one miner, whose wages would be $14.00 per day.
b. We will do our own supervisory work, without cost.
c. All existing facilities are in good repair and no expense will be necessary to maintain them except for the usual wear and tear and breakdowns. We estimate this cost to run approximately $1,000.00 per month.
d. We intend to build a compressor house at a cost of approximately $1,000.00.
e. We will necessarily have to purchase additional powder and bits at an estimated cost of $300.00.
f. We own our own equipment and do not propose to rent any.
g. $2,000.00 per month.
h. Fuses and caps, approximately $500.00 per month.
i. Approximately $600.00.

24. We believe that with the four of us working, and with the help of one hired miner, we can develop the property to the point where production is steady and that the property thereafter will adequately take care of continued mining operations. We believe that the $7,000.00 requested from the Government will all be spent within a period of 120 days after the commencement of production and we expect to be on a solid paying basis within the 120 day period.

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. 1171 X

Date received 5-15-51

Participation

Mr. Lester Thompson
Mr. Larry Ward
Mr. Ray L. Ward
Mr. Charles Ward
d/b/a Hard Luck Mines, a
co-partnership
Elliston, Montana

Name and address of applicant

Date May 7, 1951

FILL IN THIS BLOCK

Date of application May 7, 1951

Estimated cost $14,000.00

Mineral or metal Mineral

Percentage of Government participation $7,000.00

Location of mine 14 miles Southeast of Elliston, Powell County, Montana.

Date of filing MF-100

DMA Docket Number, if available 1171 X

INSTRUCTIONS

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

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*1. Is applicant an individual, partnership, or corporation? Partnership

*2. If a partnership, state names and addresses of partners. See Form MF-100

*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.

*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project. See Form MF-100

*5. Are you the owner or the lessee of the property? Owner.

6. If owner, state what claims, liens, or encumbrances, if any, are against the property. None, whatsoever.

7. If lessee, attach a copy of the lease and state if it is in good standing.

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

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9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)? See statement attached.

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16—64067-1

THE PROPERTY

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

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

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

*11. State the present and former names of the property, if any. Hard Luck #1 and Hard Luck #2.

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

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

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work. See Form MF-100

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(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations. See application Form MF-100

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(2) Milling				
(3) Shipped or sold				

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

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Hard Luck Mines
(Name of company)

By Lester Thompson
(Signature of authorized official)

May 7, 1951.
(Date)

President
(Title)

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*Same as footnote on page 1.

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

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Liabiliti None
Net worth $8,600.00
No profit and loss statement is attached hereto because and by reason of the fact that we have not produced, but we have expended approximately $5,000.00 for labor and supplies in getting the property ready for production.

9. The applicants herein are prepared to invest an amount equivalent to $7,000.00 by furnishing labor of all four members of the partnership and in furnishing the equipment valued at $8,600.00, and the money advanced by the Government will be used wholly and solely for the purchase of supplies for the continuation of mining and production from said property.

10. a. There are two quartz lode mining claims involved herein, both standard size and, as heretofore shown in the application, with an existing tunnel of at least 270 feet, together with all necessary building for carrying on mining operations, and the necessary water supply therefor.
b. Hard Luck #1 and Hard Luck #2 in Township 8 North, Range 6 West, Sections 20 and 21,M. P. M., in Powell County, Montana.

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Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. 1171 X

Date received 5-15-51

Participation

Mr. Lester Thompson
Mr. Larry Ward
Mr. Ray L. Ward
Mr. Charles Ward
d/b/a Hard Luck Mines, a
co-partnership
Elliston, Montana

Name and address of applicant

Date May 7, 1951

FILL IN THIS BLOCK

Date of application May 7, 1951

Estimated cost $14,000.00

Mineral or metal Mineral

Percentage of Government participation $7,000.00

Location of mine 14 miles Southeast of Elliston, Powell County, Montana.

Date of filing MF-100

DMA Docket Number, if available 1171 X

INSTRUCTIONS

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*2. If a partnership, state names and addresses of partners. See Form MF-100

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*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project. See Form MF-100

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16—64067-1

MAY 15 1951

THE PROPERTY

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

(*b*) Give the legal description of the area in which the exploration is to be conducted. See attached statement.

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*11. State the present and former names of the property, if any. Hard Luck #1 and Hard Luck #2.

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

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

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work. See Form MF-100

15. State in detail how the ore could be shipped and how and where milled. See attached shbet #12.

*16. History:

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations. See application Form MF-100

(*b*) State briefly the known history and production of adjoining and neighboring properties. See Form MF-100

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations. See Form MF-100

*17. Production:

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

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

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

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

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

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

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

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted. See Form MF-100

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

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

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data. See Form MF-100.

THE REQUIREMENTS AND COSTS

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

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

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

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

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

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

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

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

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

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

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

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.

Hard Luck Mines
(Name of company)

By Lester Thompson
(Signature of authorized official)

May 7, 1951.
(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.

*Same as footnote on page 1.

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

8. Equipment on hand, total value of $8,600.00
Liabiliti[illegible] None
Net worth $8,600.00
No profit and loss statement is attached hereto because and by reason of the fact that we have not produced, but we have expended approximately $5,000.00 for labor and supplies in getting the property ready for production.

9. The applicants herein are prepared to invest an amount equivalent to $7,000.00 by furnishing labor of all four members of the partnership and in furnishing the equipment valued at $8,600.00, and the money advanced by the Government will be used wholly and solely for the purchase of supplies for the continuation of mining and production from said property.

10. a. There are two quartz lode mining claims involved herein, both standard size and, as heretofore shown in the application, with an existing tunnel of at least 270 feet, together with all necessary building for carrying on mining operations, and the necessary water supply therefor.
b. Hard Luck #1 and Hard Luck #2 in Township 8 North, Range 6 West, Sections 20 and 21, M. P. M., in Powell County, Montana.

12. The property is approximately 14 miles from the Northern Pacific Railway lines at Elliston, Montana, and approximately 14 miles from the hard top road at the Junction of U. S. Highway No. 10 and the road known as the Rimini Road. From the junction with the hard top road, it is approximately 13 miles to the American Smelting and Refining Company Smelter at East Helena, Montana, in case we want to truck our ore rather than ship it by rail; the rail line makes a direct connection from Elliston, Montana, which would be our shipping point, with the smelter at East Helena, Montana.

13. There are a great many mountain streams immediately adjacent to the property and we have much more water than we will ever have any need for. We intend to use a gas compressor for power but we are ten miles from an electrical line, if it ever became feasible to use same.

21. We propose to continue the tunnel and the estimated time required to complete the work proposed would be 120 days.

23. a. We propose to do the work ourselves (four partners who are all miners) with the expectation that we would not have to employ more than one miner, whose wages would be $14.00 per day.
b. We will do our own supervisory work, without cost.
c. All existing facilities are in good repair and no expense will be necessary to maintain them except for the usual wear and tear and breakdowns. We estimate this cost to run approximately $1,000.00 per month.
d. We intend to build a compressor house at a cost of approximately $1,000.00.
e. We will necessarily have to purchase additional powder and bits at an estimated cost of $300.00.
f. We own our own equipment and do not propose to rent any.
g. $2,000.00 per month.
h. Fuses and caps, approximately $500.00 per month.
i. Approximately $600.00.

24. We believe that with the four of us working, and with the help of one hired miner, we can develop the property to the point where production is steady and that the property thereafter will adequately take care of continued mining operations. We believe that the $7,000.00 requested from the Government will all be spent within a period of 120 days after the commencement of production and we expect to be on a solid paying basis within the 120 day period.

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. 1171 X

Date received 5-15-51

Mr. Lester Thompson
Mr. Larry Ward
Mr. Ray L. Ward
Mr. Charles Ward
d/b/a Hard Luck Mines
a co-partnership
Elliston, Montana

Name and address of applicant

Date May 7, 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) Necessity Certificate pursuant to the provisions of Sec. 124-A (Amortization Deduction) of Internal Revenue Code, 1950, (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

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? Gold, silver, lead, Zinc.
   (*b*) What are the byproducts, if any? Cadmium.
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. None.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits. 270 feet.
   (*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. 22 miles to smelter.
   (*b*) Mining district. Little Blackfoot.
   (*c*) Township, Section, Range. T. 8 N.R. 6 W-Sections 20 & 21
   (*d*) County, State. Powell County, Mont. M. P. M.

(*a*) State whether or not property is now in operation, and if in operation, by whom operated. Closed for winter-will reopen June 1, 1951.

(*b*) Are you operating this property as:
- [x] Owner.
- [ ] Lessee.
- [ ] Contractor.

ber of years in production New-but in summer of 1950 got ready for operation.

in production or operation, estimated date when production will begin June 1, 1951

nce of operators:

ribe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the ct. Applicans have been mining for many years.

ve a statement, as complete as possible, of previous exploration, development, operation, and production of property, h reasons for suspension of operation. See attached statement.

e briefly the known history and production of adjoining and neighboring properties. see attached

ish any available (private) reports that may apply to this application, including results of mine examinations, nended exploration and development, and metallurgical investigations. There is attached hereto lart made by the Montana State School of Mines.

16—63792-1

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

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)
Lester Thompson							
Elliston, Montana	Partner	None	$7,000			None	
Larry Ward							
Elliston, Montana	Partner	None	$4,000			None	
Ray L. Ward							
Elliston, Montana	Partner	None	$3,000			None	
Charles Ward Elliston, Montana	Partner	None	$8,000			None	
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet. $22,000.00

9. Capital Stock Issues:

For Corporate Applicants

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

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)	No production has been had from this property as yet.				
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. See above answer.

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. See sheet attached hereto.

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

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

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

TOTAL ORE OR MINERAL RESERVES

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

(*c*) If placer:

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

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

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

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

Property is approximately 14 miles from the hard top road and we intend to improve the gravel road, which is in fair shape, leading from the hard top road to our property.

14. Water Supply:

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

Unlimited supply for our purposes.

15. Power:

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

Gas compressor-approximately $5.00 per day.

16. Labor:

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

All 4 partners who are applicants, will work themselves and the most we will employ will be one extra miner.

17. Equipment and Buildings:

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.

See list attached hereto.

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

See attached list.

No.

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.

Hard Luck Mines (company)

By Lester Thompson (Signature of authorized official)

May 7, 1951 (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

7. a. The information obtained by the applicants is to the effect that two prospectors drove the tunnel on this property some seventy (70) years ago but, at that time, the prices were so low that a successful operation from a financial standpoint could not be maintained. There is no record of production from this operation because, of course, at the time of the driving of the tunnel, the prospectors were looking only for gold, as the other products did not have any value.

b. Adjoining the two quartz lode mining claims are two mining properties known as The Ontario and the Julia. Both of these mines were heavy producers, the Ontario mine having produced approximately $2,000,000.00 and the Julia approximately $265,000.00.

17.

A compressor, in good condition	$5,000.00
A liner, in good condition	600.00
Air lines, in good condition	700.00
Drills, bits, hoses, water tank, in good condition	600.00
Rails and car, in good condition	1,000.00
Powder, fuses, caps, gas and oil now on property	700.00

In addition to the above, we have two completely equipped houses, ready for occupancy, both of which are in good condition.

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. 1171 X

Date received 5-15-51

Mr. Lester Thompson
Mr. Larry Ward
Mr. Ray L. Ward
Mr. Charles Ward
d/b/a Hard Luck Mines
a co-partnership
Elliston, Montana

Name and address of applicant

Date May 7, 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) Necessity Certificate pursuant to the provisions of Sec. 124-A (Amortization Deduction) of Internal Revenue Code, 1950, (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

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? Gold, silver, lead, Zinc.
   (b) What are the byproducts, if any? Cadmium.
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. None.
   (b) Linear feet of drifts and crosscuts.
   (c) Linear feet of tunnels or adits. 270 feet.
   (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. 22 miles to smelter.
   (b) Mining district. Little Blackfoot.
   (c) Township, Section, Range. T. 8 N.R. 6 W-Sections 20 & 21
   (d) County, State. Powell County, Mont. M. P. M.
4. (a) State whether or not property is now in operation, and if in operation, by whom operated. Closed for winter-will reopen June 1, 1951.
   (b) Are you operating this property as:
   - [x] Owner.
   - [ ] Lessee.
   - [ ] Contractor.
5. Number of years in production New-but in summer of 1950 got ready for operation.
   If not in production or operation, estimated date when production will begin June 1, 1951
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. Applicans have been mining for many years.
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. See attached statement.
   (b) State briefly the known history and production of adjoining and neighboring properties. see attached
   (c) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations. There is attached hereto a chart made by the Montana State School of Mines.

16—63792-1

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)
Lester Thompson							
Elliston, Montana	Partner	None	$7,000			None	
Larry Ward							
Elliston, Montana	Partner	None	$4,000			None	
Ray L. Ward							
Elliston, Montana	Partner	None	$3,000			None	
Charles Ward							
Elliston, Montana	Partner	None	$8,000			None	
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet. $22,000.00

9. Capital Stock Issues:

For Corporate Applicants

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

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)	No production has been had from this property as yet.				
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. See above answer.

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. See sheet attached hereto.

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

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

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

TOTAL ORE OR MINERAL RESERVES

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

(*c*) If placer:

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

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

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

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

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Give road distances to shipping, supply and residence points, stating kind and condition of roads. Property is approximately 14 miles from the hard top road and we intend to improve the gravel road, which is in fair shape, leading from the hard top road to our property.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year. Unlimited supply for our purposes.

15. Power:

State amount of power used, rate per hour, and source thereof. Gas compressor-approximately $5.00 per day.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period. All 4 partners, who are applicants, will work themselves and the most we will employ will be one extra miner.

17. Equipment and Facilities:

See list attached hereto.

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. See attached list.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain. No.

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.

Hard Luck Mines
(Name of company)

By Lester Thompson
(Signature of authorized official)

May 7, 1951
(Date)

President
(Title)

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

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b. Adjoining the two quartz lode mining claims are two mining properties known as The Ontario and the Julia. Both of these mines were heavy producers, the Ontario mine having produced approximately $2,000,000.00 and the Julia approximately $265,000.00.

17.

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A liner, in good condition	600.00
Air lines, in good condition	700.00
Drills, bits, hoses, water tank, in good condition	600.00
Rails and car, in good condition	1,000.00
Powder, fuses, caps, gas and oil now on property	700.00

In addition to the above, we have two completely equipped houses, ready for occupancy, both of which are in good condition.

A. V. TRENT,
OWNER-MANAGER

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS

46 SO. MAIN ST., HELENA, MONTANA

TEL. 628
P. O. BOX 537

Date SEP 26 1949

UMPIRE ASSAY _____ CONTROL ASSAY _____ HAND SAMPLE _____

ASSAYED FOR: Lester Thompson

MARKS: Elliston

SAMPLE NO.	DESCRIPTION	GOLD OZS. PER TON	SILVER OZS. PER TON	WET LEAD PER CENT	COPPER PER CENT	ZINC PER CENT	IRON PER CENT	INSOL. PER CENT	PER CENT	TOTAL VALUE PER TON
1		0.01	9.5	2.0						8.90
2		0.02	22.4	12.4						48.73

Gold not deducted: _____

Charges $ 6.00

GOODALL BROTHERS

By A. V. Trent

THURBER'S, HELENA

A. V. TRENT,
Owner-Manager

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS

46 SO. MAIN ST., HELENA, MONTANA

TEL. 628
P. O. BOX 537

Date MAY 1 - 1951

UMPIRE ASSAY..... CONTROL ASSAY..... HAND SAMPLE.....

ASSAYED FOR: Ray Ward call

MARKS: Les Thompson may call — assay value

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Value Per Ton
						12.0				42.00

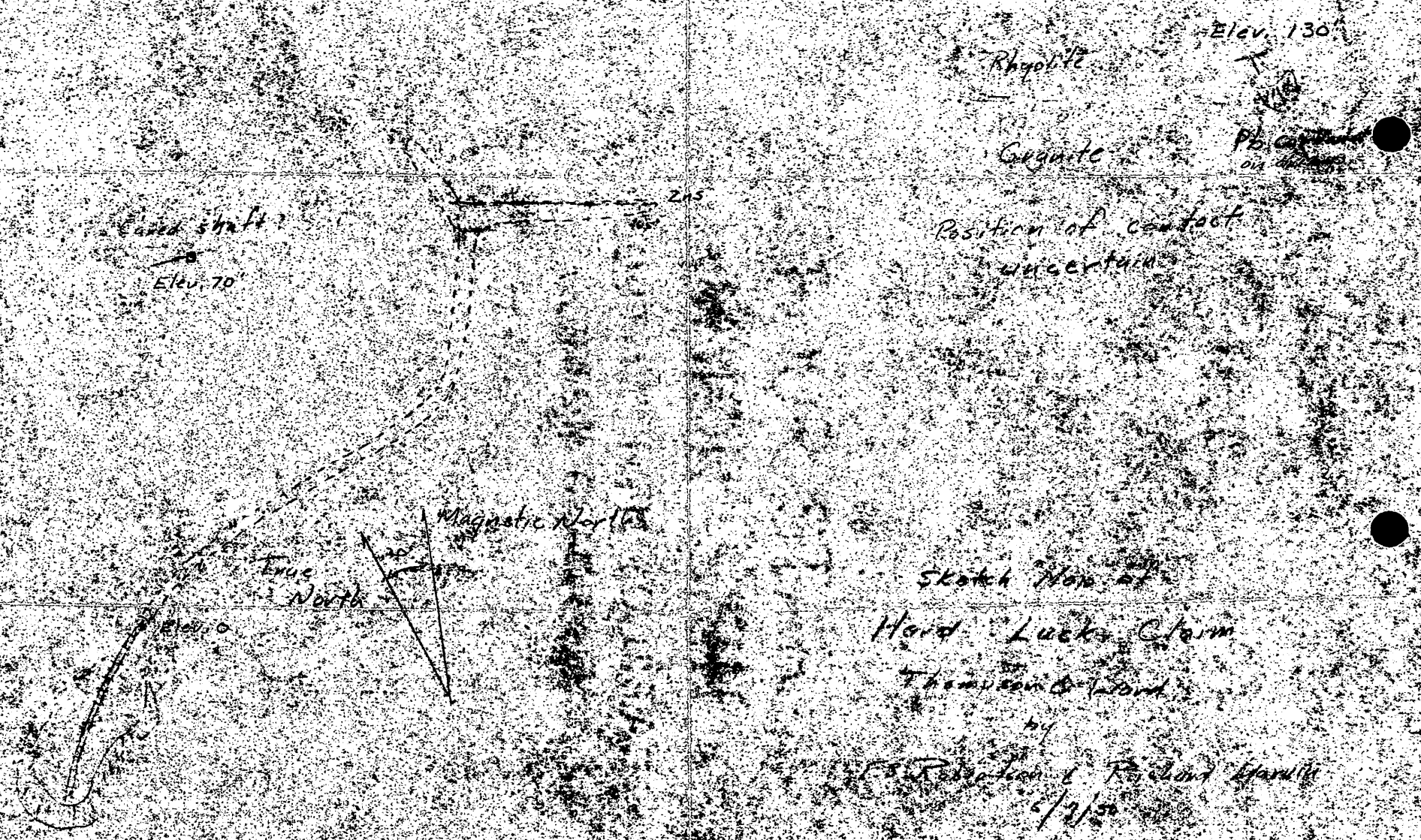
Gold not deducted:.....

Charges $ 1.50 Paid

GOODALL BROS.

By A. V. Trent

Form 1


Elev. 130'
Rhyolite
Pb
Granite
Zns
Caved shaft
Elev. 70'
Position of contact
uncertain
Magnetic North
True North
Elev. 0
Sketch Map of
Hard Luck Claim
Thompson & Lord
by
E. S. Robertson & Richard Harwill
6/7/50
1" = 50'