FILE COPY
SURNAME:
500

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

JUN 29

Mr. Henry L. Day, President
Day Mines, Inc.
Wallace, Idaho

Re: Docket No. [illegible] 2506 (Lead-Zinc)
Day Mines, Inc.
Tamarack-Sherman Mine
Shoshone County, Washington

Dear Mr. Day:

We have your letter dated June 20, 1953, regarding the above application for Government assistance in an exploration project.

This is to inform you that, effective May 15, 1953, the commitment of funds allocated to the [illegible] for exploration assistance under the Defense Production Act was restricted to certain specified metals and minerals still in short supply. Lead and zinc were not specified, and consequently were automatically removed from the list of metals or minerals eligible for exploration assistance.

I regret to advise you that, since your application relates to lead-zinc and was not actively pending on the date of the restrictive order, we are without authority or funds to enter into a contract for exploration of your property, and your application is accordingly denied. This action is taken without prejudice to the merits of your proposed project.

I wish to thank you for your interest in the exploration program and for bringing your property to our attention.

Sincerely yours,

C. O. Mittendorf

Administrator

WRGriswold/hmj
(6/29/53)
CC to; Docket
Adm. R. File
Op. Committee
Region II (2)
Base Metals
Mr. Kinkel
Mr. Bishop
Chron.

6-29-53

NON-PRIVILEGED DOCUMENT

TO BE PHOTOCOPIED AND PRODUCED

DO NOT CODE

BATES NO. USGSP0000405

Thanks anyway?

Not appropriate because it has not been under consideration. If so, we would be obliged to handle

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

Mr. Henry L. Day, President
Day Mines, Inc.
Wallace, Idaho

Re: Docket No. DMEA 2506 (Lead-Zinc)
Day Mines, Inc.
Tamarack-Sherman Mine
Shoshone County, Washington

Dear Mr. Day:

We have your letter dated June 20, 1953, regarding the above application for Government assistance in an exploration project.

This is to inform you that, effective May 15, 1953, the commitment of funds allocated to the DMEA for exploration assistance under the Defense Production Act was restricted to certain specified metals and minerals still in short supply. Lead and zinc were not specified, and consequently were automatically removed from the list of metals or minerals eligible for exploration assistance.

I regret to advise you that, since your application relates to lead-zinc and was not actively pending on the date of the restrictive order, we are without authority or funds to enter into a contract for exploration, and your application is accordingly denied. This action is taken without prejudice to the merits of your proposed project.

~~The staff of the DMEA wishes to express its appreciation for your interest in the exploration program and for your cooperation during the period your application has been under consideration.~~

Sincerely yours,

I wish to thank you for your interest in the exploration program and for bringing your property to our attention.

Administrator

Withhold this page

FILE COPY
SURNAME:

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

Keating

JAN 28 1953

Mr. Henry Day
Day Mines, Inc.
Day Building
Wallace, Idaho

Re: Docket No. DMA 2506 (Lead-Zinc)
Day Mines, Inc.
Tamarack-Sherman Mine
Shoshone County, Idaho

Dear Mr. Day:

This in reply to your letter of January 10, 1953, to Mr. A. E. Weissenborn, regarding the above referenced docket in which you request that your application be withdrawn. This is to advise you that your application for Government exploration assistance for the Tamarack-Sherman Mine is withdrawn from our active files.

There is no reason why this application could not be re-submitted at some later date should the Day Mines, Inc. desire to do so.

The contract for the Day Mines, Inc., Docket No. 2719, has been prepared and you should hear shortly from Mr. Weissenborn regarding this contract.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

JWAlt/hmj
1-27-53
CC to: Docket file copy
Admr. Reading File
Op. Committee
Base Metals Division
Mr. Kinkel
Mr. Bishop
Region II (2)

1-28-53

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

January 26, 1953

Memorandum

To: Robert E. Adams

From: Base Metals Division

Subject: Day Mines, Inc., Tamarack-Sherman Mine, Docket No. DMEA-2506, Shoshone County, Idaho.

Please withdraw the above referenced docket from the active files. This action was requested by the applicant, to which this division concurs.

A. G. Keating

A. G. Keating, Acting Chief
Base Metals Division

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

January 26, 1953

Memorandum

To: Robert E. Adams

From: Base Metals Division

Subject: Day Mines, Inc., Tamarack-Sherman Mine, Docket No. DMEA-2506, Shoshone County, Idaho.

Please withdraw the above referenced docket from the active files. This action was requested by the applicant, to which this division concurs.

/s/ ly l
A. G. Keating, Acting Chief
Base Metals Division

FILE COPY
500 SURNAME:

J.W.Alt

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

January 26, 1953

Memorandum

To: Robert T. Adams

From: Base Metals Division

Subject: Day Mines, Inc., Tamarack-Sherman Mine, Docket No. DMEA-2506, Shoshone County, Idaho.

Please withdraw the above referenced docket from the active files. This action was requested by the applicant, to which this division concurs.

/s/ lyl
J. G. Keating, Acting Chief
Base Metals Division

JWAlt/hmj
1-26-53

CC to: Docket File Copy
Base Metals Div.
Mr. Alt.

FILE COPY
SURNAME:

Moulds
J Mus
H Boyd
Lemmon
F E Johnson

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

MAY 16 1952

Mr. Paul B. Jessup
Day Mines, Inc.
Day Building
Wallace, Idaho

Re: Docket No. DMEA 2506
Tamarack Mine

Dear Mr. Jessup:

The Region II office of the Defense Minerals Exploration Administration has advised this office that they propose to make a field examination on your property.

They will contact you at their earliest opportunity, in regard to your project.

Sincerely yours,

D. E. Moulds (mef)

J.N. 5-16-52

D. E. Moulds, Chief
Base Metals Division
Defense Minerals Exploration
Administration

DEMoulds/mef/hmj
5-14-52
CC to: Adm. Reading File
Docket File Copy
Region II
Mr. Moulds

Docket 500

FILE COPY
SURNAME:

Moulds
Lemmon (NB)
Hedges

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

MAY 16 1952

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

Re: Docket No. DMEA 2506
Day Mines, Inc.
Lead-Zinc

Dear Mr. Weissenborn:

With reference to your letter of transmittal on the subject application; we are advising Mr. Jessup that a field examination will be made by your office.

Sincerely yours,

(signed) FRANK E. JOHNSON (NB)

Chairman, Operating Committee
Base Metals Division
Defense Minerals Exploration
Administration

F.N. 5-16-52

APPROVED:

Jo. H. Hedges (NB)
Member, Bureau of Mines

J. M. Lemmon (NB)
Member, Geological Survey

DEMoulds/hmj
5-13-52
CC to: Adm. Reading File
Docket File Copy
Operating Committee
Region II
Mr. Bishop
Mr. McKnight
Mr. Moulds

IN REPLY REFER TO:

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

May 7, 1952

Re: DMEA-2506
Tamarack Mine
Shoshone County, Idaho
$211,800

Memorandum

To: Mr. D. E. Moulds

From: E. L. Newcomb

Subject: Review of application

The field team has retained a copy of the application to facilitate a field examination. They plan to make an examination and prepare a report on the proposed Hidden Treasure project.

We are returning the attached application to your office. Further consideration of the application will be made after we receive the field examination report.

E. L. Newcomb
E. L. Newcomb
Geologist

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

May 7, 1952

Re: DMEA-2506
Tamarack Mine
Shoshone County, Idaho
$211,800

Memorandum

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From: E. L. Newcomb

Subject: Review of application

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We are returning the attached application to your office. Further consideration of the application will be made after we receive the field examination report.

E. L. Newcomb
E. L. Newcomb
Geologist

EXPLORATION

Subject: DMEA-2506
Re: Exploration Loan
Tamarack and Sherman Mines
May 5, 1952

Mr. Paul B. Jessup
Day Mines, Inc.
Day Building
Wallace, Idaho

My dear Mr. Jessup:

This will acknowledge receipt of your application dated April 23, 1952 for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMEA-2506 and referred to the Base Metals Division.

Kindly refer to DMEA-2506 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams
Administrative Officer

7862

DMEA-2506

OFFICE OF THE ADMINISTRATOR

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION

WASHINGTON 25, D. C.

So. 157 Howard Street
Spokane 4, Washington

April 24, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY - 2 1952

Mr. Frank E. Johnson
Chairman, Operating Committee
Defense Minerals Exploration Administration
Department of the Interior
Washington 25, D. C.

Dear Mr. Johnson:

Enclosed are the original and three copies of an application submitted by the Day Mines, Inc. for the exploration of the DMEA assistance on their proposed Hidden Treasure exploration project in the Coeur d'Alene district. A copy is also retained here.

Inasmuch as both the Bureau and the Geological Survey are familiar with the general area, we propose to make an examination and prepare a report with our recommendation.

Sincerely yours,

A E Weissenborn

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

Enclosures
cc: USBM
W.S. Hobbs

DMEA-2506

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

April 24, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY - 2 1952

Mr. Frank E. Johnson
Chairman, Operating Committee
Defense Minerals Exploration Administration
Department of the Interior
Washington 25, D. C.

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Inasmuch as both the Bureau and the Geological Survey are familiar with the general area, we propose to make an examination and prepare a report with our recommendation.

Sincerely yours,

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

Enclosures
cc: USBM
W.S. Hobbs

DMEA-2506

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY - 2 1952

April 24, 1952

Mr. Frank E. Johnson
Chairman, Operating Committee
Defense Minerals Exploration Administration
Department of the Interior
Washington 25, D. C.

Dear Mr. Johnson:

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Inasmuch as both the Bureau and the Geological Survey are familiar with the general area, we propose to make an examination and prepare a report with our recommendation.

Sincerely yours,

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

Enclosures
cc: USBM
W.S. Hobbs

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
JUN 22 1953
Department of the Interior
SPOKANE, WASHINGTON
Defense Minerals Administration
RECEIVED
JUL - 1 1953

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

Not to be filled in by applicant

Docket No. .....
Metal or Mineral .....
Date Received .....
Estimated Cost .....
Participation (Government %) .....

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: DAY MINES, INC.,
Day Building,
Wallace, Idaho.

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

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

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

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

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract .....

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

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

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

(*e*) If you own the land, describe any liens or encumbrances on it .....

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

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

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

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

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

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

5. *The exploration project.*—(a) State the mineral or minerals for which you [illegible] to explore .....

.....

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

[x] Money [x] Use of equipment owned by you [ ] Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated June 20, 1963

DAY MINES, INC.
(Applicant)

By Henry L. Day
President

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

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

NON-PRIVILEGED DOCUMENT

TO BE PHOTOCOPIED AND PRODUCED

DO NOT CODE

BATES NO. USGSPO 0000405

DAY MINES, INC.

HIDDEN TREASURE EXPLORATION PROJECT (AMENDED)

(DOCKET No. DMEA 2506)

Item 1: (a) Day Mines, Inc.,

Day Building,

Wallace, Idaho.

(b) Corporation, incorporated in Idaho.

(c)

Henry L. Day	Wallace, Idaho,	President and Manager.
F. M. Rothrock	P.O.Box 2184, Spokane 5, Wash.	Vice President.
S. F. Heitfeld	Wallace, Idaho,	Secretary and Treasurer.
R. W. Anno	Wallace, Idaho,	Asst. Secretary and Asst. Treasurer.

Item 2: None.

DAY MINES, INC.

HIDDEN TREASURE EXPLORATION PROJECT (AMENDED)

(DOCKET No. DMEA 2506)

Item 3: (a) The project will pass through the Hecla lode, Mineral Survey No. 949, Sheridan lode, Mineral Survey No. 1319, Tiger lode, Mineral Survey No. 679, Lot 54, and the Sheridan Fraction lode, Mineral Survey No. 3083, all owned by Hecla Mining Co., and through the De Long Fraction lode, Mineral Survey No. 1523, Hidden Treasure lode, Mineral Survey No. 663, Lot 43, Bengal Tiger Fraction lode, Mineral Survey No. 983, Union lode, Mineral Survey No. 654, Lot 37, Union Fraction Consolidated lode, Mineral Survey No. 1305, and the Sinker lode, Mineral Survey No. 1933, all owned by Day Mines, Inc. All of the above are located in the Lelande Mining District, Shoshone County, Idaho.

(b) Hecla and Sherman Mines.

(c) Owner of Sherman Mine.

(d) (See attached letter from Hecla Mining Co.)

(e) None.

(f) All patented claims.

DAY MINES, INC.

HIDDEN TREASURE EXPLORATION PROJECT (AMENDED)

(DOCKET No. DMEA 2506)

Item 4: (a) The Hecla Mining Co. suspended mining operations at its Hecla mine in 1944. The Hecla Shaft, however, has been kept in continuous operation to service the Star mine; and the proposed exploration project would start from the Hecla 1200' level, near the shaft station. The Sherman mine, operating through the Hercules No. 5 adit, with portal at Burke, has been producing since 1926. Company operations will be suspended in 1953, and the proposed project would explore the Sherman vein system approximately 1200 feet below the present workings.

(b) Recent production from the Sherman mine, covering the past four years, has shown:

123,511 tons averaging 9.6% lead and 1.8% zinc with 6.9 oz. silver per ton.

(c) Ores of the type sought by this project have been mined in the Sherman and neighboring mines, and the deposits are generally agreed to be mesothermal veins. The ground to be explored lies beneath the Sherman mine and in the intervening area to the east. Geologically

this is within a block of ground bounded by the Puritan-Standard and O'Neil Gulch Faults. These are major transverse faults in the area; and a similar subsidiary structure, the Swan Fault, is located about midway between them. These faults are believed to be essentially pre-mineral structures, and their occurrence may be some index of the strength of fracturing within the block itself. Illustrations of the project are filed under "Item 5" of this application.

(d) The Hecla shaft is in the town of Burke which is served by the U. P. R. R.

(e) All manpower, facilities, and equipment for mining are available for this project.

DAY MINES, INC.

HIDDEN TREASURE EXPLORATION PROJECT (AMENDED)

(DOCKET No. DMEA 2506)

Item 5: (a) Exploration would be directed towards the development of lead (and zinc) ores of the type found in the Sherman mine.

(b) The proposed work would explore the Sherman vein system below the Sherman mine, at the elevation of the Hecla 1200' level, from the Hecla shaft. The project would consist of:

(1) A northerly crosscut, estimated at 990 feet.

(2) A westerly drift, estimated at 4600 feet, to be followed by

(3) Horizontal diamond drilling, estimated at 2000 feet.

The crosscut would reach the Sherman vein system west of the old Tiger-Poorman workings. This would be followed by drifting along the vein to an objective point below the Sherman oreshoot. This in turn, would be followed by diamond drilling, north and south, to test the walls for other veins. Two illustrations are submitted with this application, both on a scale of 1000 feet to the inch. The first is a composite plan

shewing the property outlines and the course of the proposed exploration, with the major faults projected to the Hecla 1200' level elevation. The second is a vertical longitudinal projection, looking northerly, which is self-explanatory.

(c) The work will start within thirty (30) days and be completed within twenty-four (24) months from the date of an exploration project contract.

(d) Day Mines, Inc., and its predecessor companies, have been continuously in the mining business, in the Coeur d' Alene district, since 1902.

DAY MINES, INC.

HIDDEN TREASURE EXPLORATION PROJECT (AMENDED)

(DOCKET No. DMEA 2506)

Item 6. ESTIMATE OF COSTS.

(a) Independent Contracts

1. Diamond drilling will be performed by independent contractors after calling for bids. Estimated cost of diamond drilling is

200 ft. at $5.00 per ft.	$ 10,000.00

2. Waste haulage and disposal on the surface, at considerable distance from the mine plant, will be performed by independent contractors after calling for bids. Estimated cost

	40,000 tons @ $1.00 per ton	40,000.00
(b)	Labor, supervision & consultants	105,600.00
(c)	Operating supplies (see attached schedule)	105,970.00
(d)	Operating equipment (see attached schedule)	47,702.00
(e)	Rehabilitation and repairs; open old surface waste bin, change position 1200 sump and clear pockets	10,000.00
(f)	New buildings, improvements, installations	None
(g)	Miscellaneous	32,320.00
(h)	Contingencies	5,960.00
	Total by Company	$ 307,552.00
	Total Project	$ 357,552.00

DAY MINES, INC.

HIDDEN TREASURE EXPLORATION PROJECT (AMENDED)

DOCKET NO. DMEA 2506

Item 6: (c) Operating Materials And Supplies:

Timbers or rock bolts: 4,600 ft. of drift @ 5.00	$ 23,000.00
Explosives: 5,500 ft. of lateral @ 5.20	28,600.00
Pipe: 5,500 ft. of lateral @ 3.35	18,425.00
Track: 5,500 ft. of 30# rail @ 1.74	9,570.00
Power: 24 Months @ 400.00	9,600.00
Drill Steel & Bits: 5,500 ft. of lateral @ 2.70	14,850.00
Small tools & Supplies: 5,500 ft. of lateral @ .35	1,925.00
TOTAL MATERIALS & SUPPLIES	$ 105,970.00

DAY MINES, INC.

HIDDEN TREASURE EXPLORATION PROJECT (AMENDED)

DOCKET NO. DMEA 2506

Item 6: (d) Schedule of Operating Equipment and Proposed Use Allowance

	Approx. New Price	Total	Depreciation Years	Maximum Monthly Rental	Months Needed	Total Proposed Rents
3 Drifter Rock Drills	$ 1,200.00	$ 3,600.00	2	$ 150.00	24	$ 3,600.00
1 Jackhammer Drill	365.00	365.00	2	15.20	24	364.80
1 Stoper Rock Drill	670.00	670.00	2	55.83	24	1,339.[illegible]
1 Drill Jumbo	600.00	600.00	3	16.67	24	400.08
1 Air Receiver 3' x 10'	300.00	300.00	5	5.00	24	120.00
1 Elec. Blasting Sub. and Galvanometer	250.00	250.00	5	4.16	24	99.84
1 15 H.P. Electric Blower	700.00	700.00	5	11.66	24	279.84
1 15 H.P. " "	700.00	700.00	5	11.66	18	209.88
1 15 H.P. " "	700.00	700.00	5	11.66	12	139.92
1 Slusher & Scraper	1,500.00	1,500.00	3	41.67	24	1,000.00
2 Air Gates For Pocket Loading	100.00	200.00	5	3.33	24	79.92
2 4-Ton Battery Locomotives & Chargers	7,200.00	14,400.00	8	150.00	24	3,600.00
2 Sets Batteries for Locomotives	2,400.00	4,800.00	4	100.00	24	2,400.00
16 45 Cu. Ft. Cars	500.00	8,000.00	5	133.33	24	3,199.92
1 Eimco 21B Loader	4,525.00	4,525.00	5	75.40	24	1,809.6[illegible]
2 Canton Car Transfers	500.00	1,000.00	5	16.67	24	400.2[illegible]
1 Rail Bender	90.00	90.00	10	.75	24	18.00
1 Water Pump, Boiler Feed	225.00	225.00	5	3.75	24	90.00
1 Electrical Substation at Shaft	1,500.00	1,500.00	10	12.50	24	300.00
5,000 ft. #6, 600 V. Rubber Covered Cable	.85	4,250.00	2	177.10	24	4,250.00
2 90E Compressors	6,000.00	12,000.00	5	200.00	24	4,800.00
Surface facilities & 300 H.P. Pump Over	75,000.00	75,000.00	30	200.00		4,800.00
Hoist & Shaft facilities "	150,000.00	150,000.00	20	600.00	24	14,400.00
						$ 47,702.00

SCAN COVER SHEET ONLY

U.S. v. ASARCO

DOCUMENT CONTROL FORM: PRIVILEGED DOCUMENT

(Staple to Original Privilege Document or to copy of privilege document)

Repository Name USGS

Repository Location SPOKANE, WASHINGTON

File Bates Number: USGSP0000405

File Owner: Natalie Eades

File Location: DOI -- SOL, WASH DC

Document Date: Appears to be 6/19/53. Received 6/22/53.

Document Title: "Hidden Treasure Exploration Project (Amended)" DOCKET # DMEA 2506

Document Author: L. G. Randall

11 pages. Lists Officers of Day Mines, Inc. Describes project, Hecla Mining, scope of work, length of time envisioned. Estimate of costs. Schedule of equipment, Plats.

Original Document Attached: Y (N)

If not attached, Original Document Current Location (must be segregated from other documents)

Addressee(s): Letter of 6/19/53 to Henry L. Day, Pres., Day Mines, Inc.

(Copyee(s): from L. J. Randall, Pres., Hecla Mining Co.

Type of Privilege:

ACC WP (CBI) DP (PI) Other

Reviewer: lm

STATUTORY PRIVILEGE OF CONFIDENTIAL BUSINESS & PROPRIETARY INFO

Hecla Mining Company

Wallace, Idaho
June nineteenth
1953

Mr. Henry L. Day, President
Day Mines, Inc.
Wallace, Idaho

Dear Sir:

With reference to the exploration of your company's Hidden Treasure Group of mining claims, please be advised that in the event Hecla Mining Company participates in the proposed exploration project, Hecla agrees to permit the use of the Hecla shaft, 1200 level station facilities and surface facilities for the purpose of driving the crosscut from Hecla's 1200 level into the Hidden Treasure property for a period covering the life of the project.

It is my opinion that current conditions warrant and favor such a project.

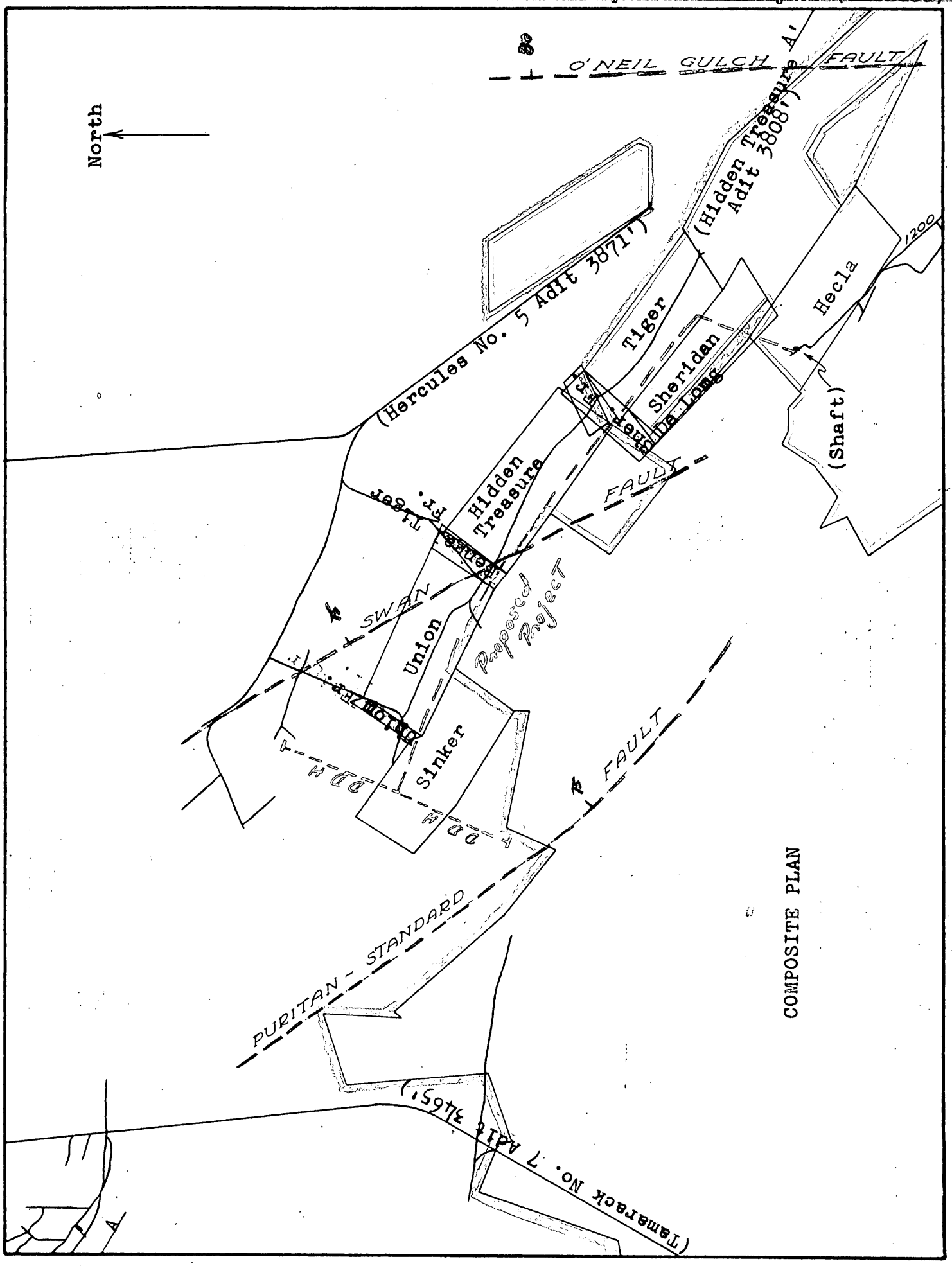
Yours very truly,

L. J. Randall, President

LJR/bbr

LEVEL _____ MINE Docket No. DMEA 2506 DATE _____ BY _____

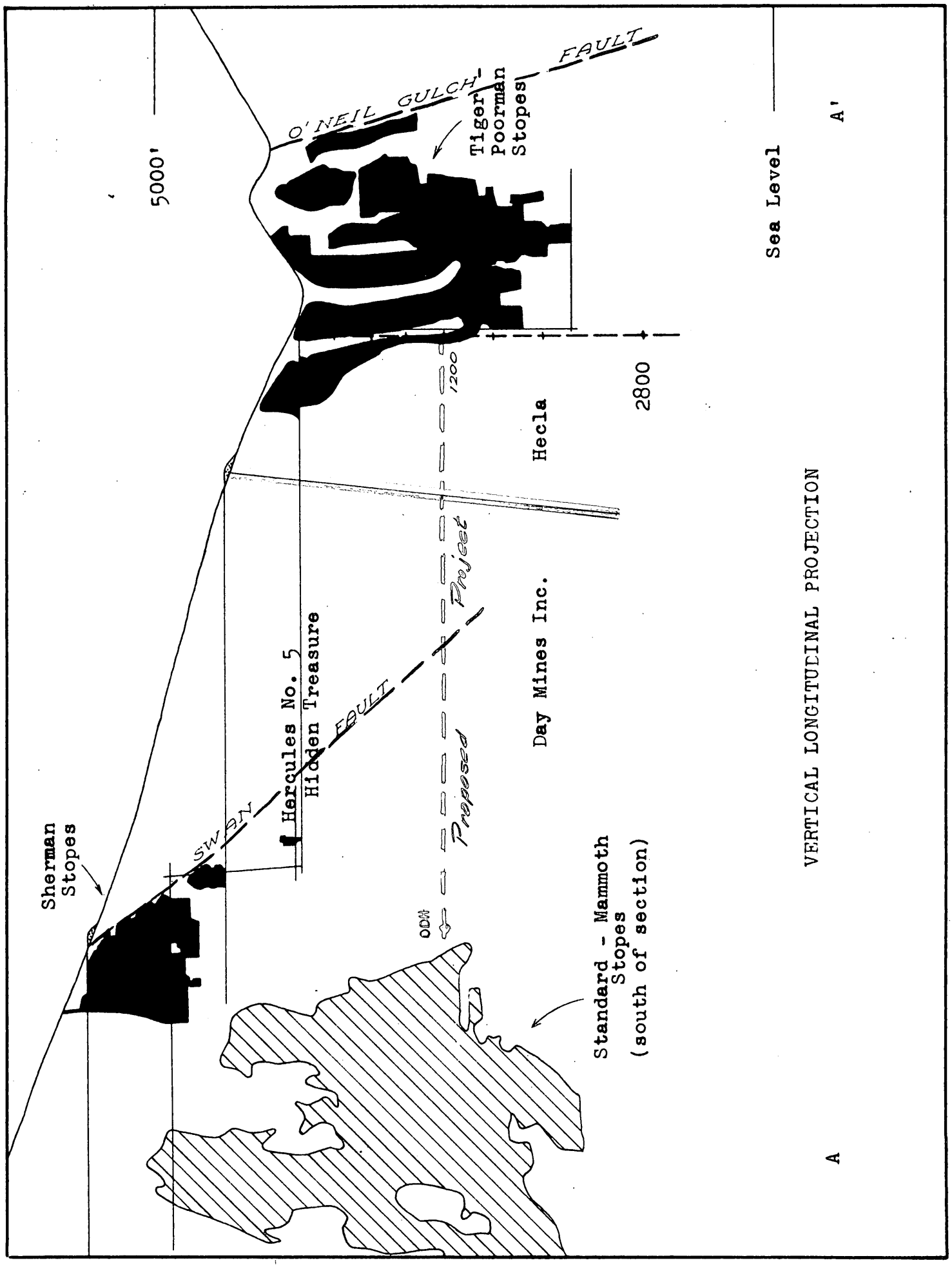
SCALE 1" = 1000' OPERATION Hidden Treasure Exploration Project (amended)



COMPOSITE PLAN

LEVEL ____ LINE Docket No. DMEA 2506 DATE ____ BY ____

SCALE 1" = 1000' OPERATION Hidden Treasure Exploration Project (amended)



VERTICAL LONGITUDINAL PROJECTION

MF-102
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
JUN 22 1953
U. S. G. S.
SPOKANE, WASH.

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 1 1953

Not to be filled in by applicant

Docket No. .....
Metal or Mineral .....
Date Received .....
Estimated Cost .....
Participation (Government %) .....

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: DAY MINES, INC.,
Day Building,
Wallace, Idaho.

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

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

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

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

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract .....

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

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

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

(*e*) If you own the land, describe any liens or encumbrances on it .....

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

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

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

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

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

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

5. *The exploration project.*—State the mineral or minerals for which you wish to explore .....

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

[x] Money [x] Use of equipment owned by you [ ] Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated June 20, 1953

DAY MINES, INC.
(Applicant)

By Henry L. Day
President

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

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

NON-PRIVILEGED DOCUMENT

TO BE PHOTOCOPIED AND PRODUCED

DO NOT CODE

BATES NO. USGSP00000405

DAY MINES, INC.

HIDDEN TREASURE EXPLORATION PROJECT (AMENDED)

(DOCKET No. DMEA 2506)

Item 1: (a) Day Mines, Inc.,

Day Building,

Wallace, Idaho.

(b) Corporation, incorporated in Idaho.

(c)

Henry L. Day	Wallace, Idaho,	President and Manager.
F. M. Rothrock	P.O.Box 2184, Spokane 5, Wash.	Vice President.
S. F. Heitfeld	Wallace, Idaho,	Secretary and Treasurer.
R. W. Anno	Wallace, Idaho,	Asst. Secretary and Asst. Treasurer.

Item 2: None.

DAY MINES, INC.

HIDDEN TREASURE EXPLORATION PROJECT (AMENDED)

(DOCKET No. DMEA 2506)

Item 3: (a) The project will pass through the Hecla lode, Mineral Survey No. 949, Sheridan lode, Mineral Survey No. 1319, Tiger lode, Mineral Survey No. 679, Lot 54, and the Sheridan Fraction lode, Mineral Survey No. 3083, all owned by Hecla Mining Co., and through the De Long Fraction lode, Mineral Survey No. 1523, Hidden Treasure lode, Mineral Survey No. 663, Lot 43, Bengal Tiger Fraction lode, Mineral Survey No. 983, Union lode, Mineral Survey No. 654, Lot 37, Union Fraction Consolidated lode, Mineral Survey No. 1305, and the Sinker lode, Mineral Survey No. 1933, all owned by Day Mines, Inc. All of the above are located in the Lelande Mining District, Shoshone County, Idaho.

(b) Hecla and Sherman Mines.

(c) Owner of Sherman Mine.

(d) (See attached letter from Hecla Mining Co.)

(e) None.

(f) All patented claims.

DAY MINES, INC.

HIDDEN TREASURE EXPLORATION PROJECT (AMENDED)

(DOCKET No. DMEA 2506)

Item 4: (a) The Hecla Mining Co. suspended mining operations at its Hecla mine in 1944. The Hecla Shaft, however, has been kept in continuous operation to service the Star mine; and the proposed exploration project would start from the Hecla 1200' level, near the shaft station. The Sherman mine, operating through the Hercules No. 5 adit, with portal at Burke, has been producing since 1926. Company operations will be suspended in 1953, and the proposed project would explore the Sherman vein system approximately 1200 feet below the present workings.

(b) Recent production from the Sherman mine, covering the past four years, has shown:

123,511 tons averaging 9.6% lead and 1.8% zinc with 6.9 oz. silver per ton.

(c) Ores of the type sought by this project have been mined in the Sherman and neighboring mines, and the deposits are generally agreed to be mesothermal veins. The ground to be explored lies beneath the Sherman mine and in the intervening area to the east. Geologically

this is within a block of ground bounded by the Puritan-Standard and O'Neil Gulch Faults. These are major transverse faults in the area; and a similar subsidiary structure, the Swan Fault, is located about midway between them. These faults are believed to be essentially pre-mineral structures, and their occurrence may be some index of the strength of fracturing within the block itself. Illustrations of the project are filed under "Item 5" of this application.

(d) The Hecla shaft is in the town of Burke which is served by the U. P. R. R.

(e) All manpower, facilities, and equipment for mining are available for this project.

DAY MINES, INC.

HIDDEN TREASURE EXPLORATION PROJECT (AMENDED)

(DOCKET No. DMEA 2506)

Item 5: (a) Exploration would be directed towards the development of lead (and zinc) ores of the type found in the Sherman mine.

(b) The proposed work would explore the Sherman vein system below the Sherman mine, at the elevation of the Hecla 1200' level, from the Hecla shaft. The project would consist of:

(1) A northerly crosscut, estimated at 900 feet.

(2) A westerly drift, estimated at 4600 feet, to be followed by

(3) Horizontal diamond drilling, estimated at 2000 feet.

The crosscut would reach the Sherman vein system west of the old Tiger-Poorman workings. This would be followed by drifting along the vein to an objective point below the Sherman oreshoot. This in turn, would be followed by diamond drilling, north and south, to test the walls for other veins. Two illustrations are submitted with this application, both on a scale of 1000 feet to the inch. The first is a composite plan

showing the property outlines and the course of the proposed exploration, with the major faults projected to the Hecla 1200' level elevation. The second is a vertical longitudinal projection, looking northerly, which is self-explanatory.

(c) The work will start within thirty (30) days and be completed within twenty-four (24) months from the date of an exploration project contract.

(d) Day Mines, Inc., and its predecessor companies, have been continuously in the mining business, in the Coeur d' Alene district, since 1902.

DAY MINES, INC.

HIDDEN TREASURE EXPLORATION PROJECT (AMENDED)

(DOCKET No. DMEA 2506)

Item 6. ESTIMATE OF COSTS.

(a) Independent Contracts

1. Diamond drilling will be performed by independent contractors after calling for bids. Estimated cost of diamond drilling is

200 ft. at $5.00 per ft.	$ 10,000.00

2. Waste haulage and disposal on the surface, at considerable distance from the mine plant, will be performed by independent contractors after calling for bids. Estimated cost

40,000 tons ¢ $1.00 per ton	40,000.00
(b) Labor, supervision & consultants	105,600.00
(c) Operating supplies (see attached schedule)	105,970.00
(d) Operating equipment (see attached schedule)	47,702.00
(e) Rehabilitation and repairs; open old surface waste bin, change position 1200 sump and clear pockets	10,000.00
(f) New buildings, improvements, installations	None
(g) Miscellaneous	32,320.00
(h) Contingencies	5,960.00
Total by Company	$ 307,552.00
Total Project	$ 357,552.00

DAY MINES, INC.

HIDDEN TREASURE EXPLORATION PROJECT (AMENDED)

DOCKET NO. DMEA 2506

Item 6: (c) Operating Materials And Supplies:

Timbers or rock bolts:	
4,600 ft. of drift @ 5.00	$ 23,000.00
Explosives:	
5,500 ft. of lateral @ 5.20	28,600.00
Pipe:	
5,500 ft. of lateral @ 3.35	18,425.00
Track:	
5,500 ft. of 30# rail @ 1.74	9,570.00
Power:	
24 Months @ 400.00	9,600.00
Drill Steel & Bits:	
5,500 ft. of lateral @ 2.70	14,850.00
Small tools & Supplies:	
5,500 ft. of lateral @ .35	1,925.00
TOTAL MATERIALS & SUPPLIES	$ 105,970.00

DAY MINES, INC.

HIDDEN TREASURE EXPLORATION PROJECT (AMENDED)

DOCKET NO. DMEA 2506

Item 6: (d) Schedule of Operating Equipment and Proposed Use Allowance

	Approx. New Price	Total	Depre-ciation Years	Maximum Monthly Rental	Months Needed	Total Proposed Rents
3 Drifter Rock Drills	$ 1,200.00	$ 3,600.00	2	$ 150.00	24	$ 3,600.00
1 Jackhammer Drill	365.00	365.00	2	15.20	24	364.80
1 Stoper Rock Drill	670.00	670.00	2	55.83	24	1,339.[illegible]
1 Drill Jumbo	600.00	600.00	3	16.67	24	400.08
1 Air Receiver 3' x 10'	300.00	300.00	5	5.00	24	120.00
1 Elec. Blasting Sub. and Galvanometer	250.00	250.00	5	4.16	24	99.84
1 15 H.P. Electric Blower	700.00	700.00	5	11.66	24	279.84
1 15 H.P. " "	700.00	700.00	5	11.66	18	209.88
1 15 H.P. " "	700.00	700.00	5	11.66	12	139.92
1 Slusher & Scraper	1,500.00	1,500.00	3	41.67	24	1,000.00
2 Air Gates For Pocket Loading	100,00	200.00	5	3.33	24	79.92
2 4-Ton Battery Locomotives & Chargers	7,200.00	14,400.00	8	150.00	24	3,600.00
2 Sets Batteries for Locomotives	2,400.00	4,800.00	4	100.00	24	2,400.00
16 45 Cu. Ft. Cars	500.00	8,000.00	5	133.33	24	3,199.92
1 Eimco 21B Loader	4,525.00	4,525.00	5	75.40	24	1,809.6[illegible]
2 Canton Car Transfers	500.00	1,000.00	5	16.67	24	400.[illegible]
1 Rail Bender	90.00	90.00	10	.75	24	18.00
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Hecla Mining Company

Wallace, Idaho
June nineteenth
1953

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Day Mines, Inc.
Wallace, Idaho

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LJR/bbr

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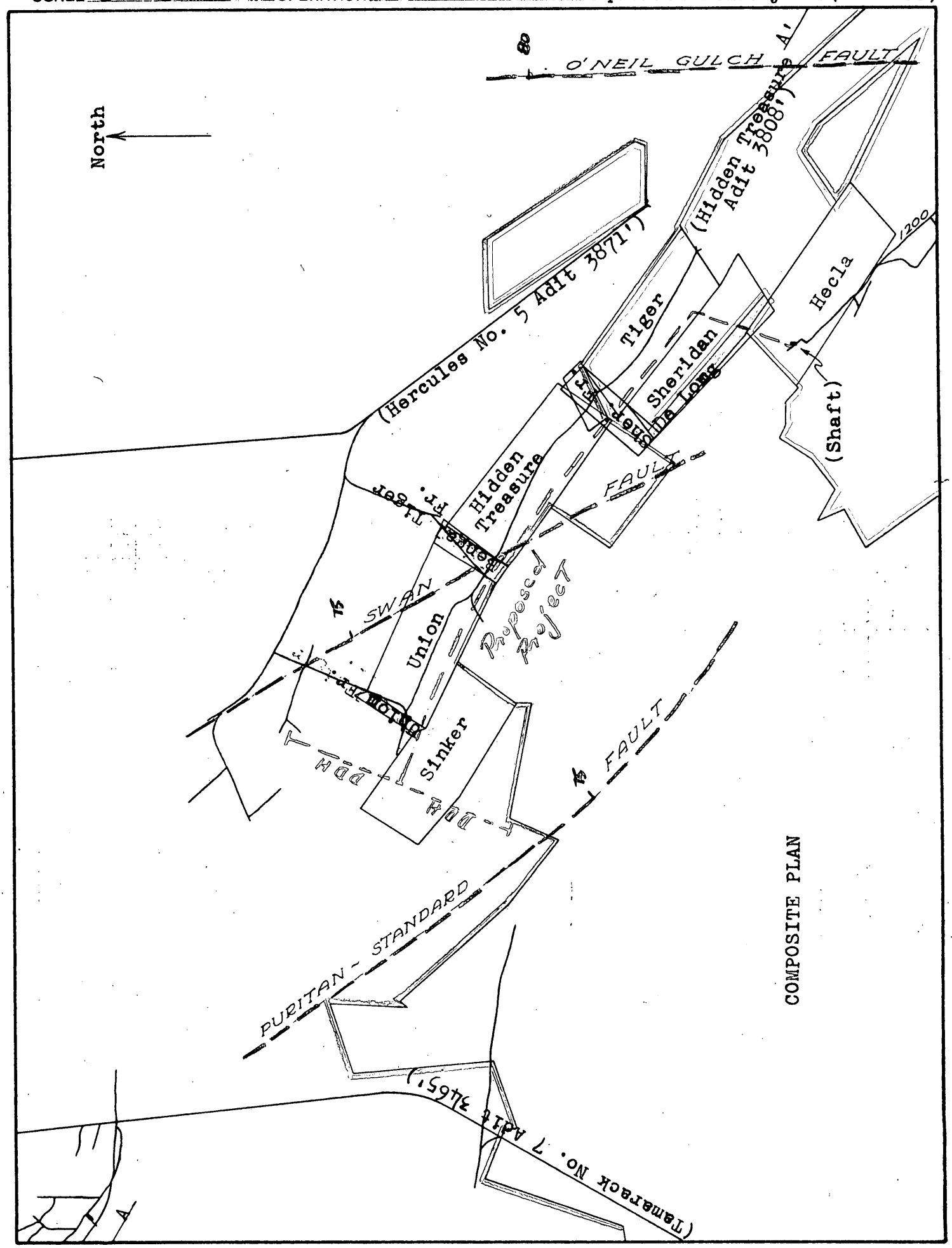

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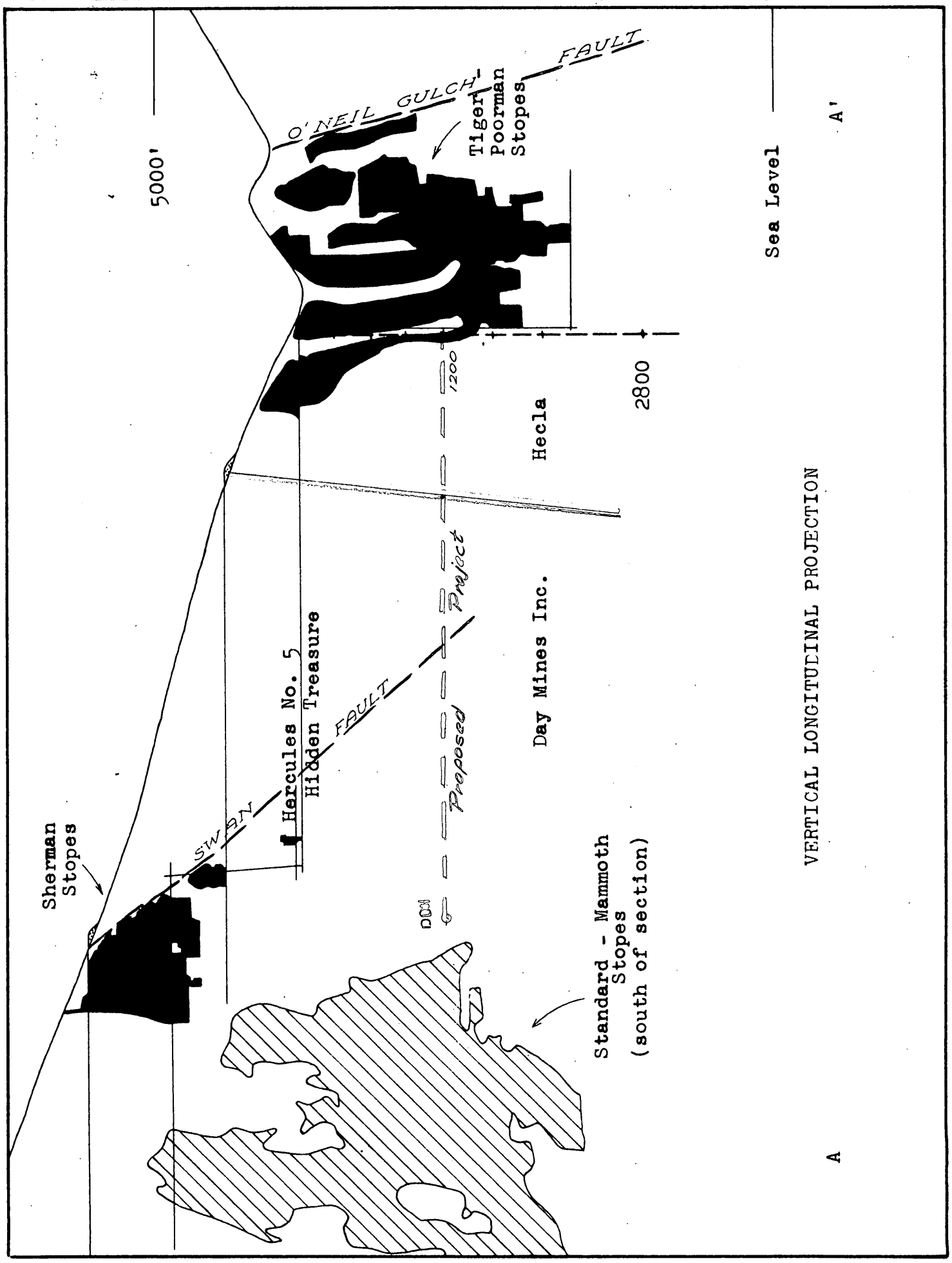

VERTICAL LONGITUDINAL PROJECTION

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
JUN 22 1953
U. S. G. S.
SPOKANE, WASH.

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

Not to be filled in by applicant

Docket No. .....
Metal or Mineral .....
Date Received .....
Estimated Cost .....
Participation (Government %) .....

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 1 1953

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

[X] Money [X] Use of equipment owned by you [ ] Other

Explain in detail on acompanying paper.

CERTIFICATION

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Dated June 20, 1953

BAY MINES, INC.
(Applicant)

By Henry L. Day
President

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

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

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BATES NO. USGS PO 0000405

DAY MINES, INC.

HIDDEN TREASURE EXPLORATION PROJECT (AMENDED)

(DOCKET No. DMEA 2506)

Item 1: (a) Day Mines, Inc.,

Day Building,

Wallace, Idaho.

(b) Corporation, incorporated in Idaho.

(c)

Henry L. Day	Wallace, Idaho,	President and Manager.
F. M. Rothrock	P. O. Box 2184, Spokane 5, Wash.	Vice President.
S. F. Heitfeld	Wallace, Idaho,	Secretary and Treasurer.
R. W. Anno	Wallace, Idaho,	Asst. Secretary and Asst. Treasurer.

Item 2: None.

DAY MINES, INC.

HIDDEN TREASURE EXPLORATION PROJECT (AMENDED)

(DOCKET No. DMEA 2506)

Item 3: (a) The project will pass through the Hecla lode, Mineral Survey No. 949, Sheridan lode, Mineral Survey No. 1319, Tiger lode, Mineral Survey No. 679, Lot 54, and the Sheridan Fraction lode, Mineral Survey No. 3083, all owned by Hecla Mining Co., and through the De Long Fraction lode, Mineral Survey No. 1523, Hidden Treasure lode, Mineral Survey No. 663, Lot 43, Bengal Tiger Fraction lode, Mineral Survey No. 983, Union lode, Mineral Survey No. 654, Lot 37, Union Fraction Consolidated lode, Mineral Survey No. 1305, and the Sinker lode, Mineral Survey No. 1933, all owned by Day Mines, Inc. All of the above are located in the Lelande Mining District, Shoshone County, Idaho.

(b) Hecla and Sherman Mines.

(c) Owner of Sherman Mine.

(d) (See attached letter from Hecla Mining Co.)

(e) None.

(f) All patented claims.

DAY MINES, INC.

HIDDEN TREASURE EXPLORATION PROJECT (AMENDED)

(DOCKET No. DMEA 2506)

Item 4: (a) The Hecla Mining Co. suspended mining operations at its Hecla mine in 1944. The Hecla Shaft, however, has been kept in continuous operation to service the Star mine; and the proposed exploration project would start from the Hecla 1200' level, near the shaft station. The Sherman mine, operating through the Hercules No. 5 adit, with portal at Burke, has been producing since 1926. Company operations will be suspended in 1953, and the proposed project would explore the Sherman vein system approximately 1200 feet below the present workings.

(b) Recent production from the Sherman mine, covering the past four years, has shown:

123,511 tons averaging 9.6% lead and 1.8% zinc with 6.9 oz. silver per ton.

(c) Ores of the type sought by this project have been mined in the Sherman and neighboring mines, and the deposits are generally agreed to be mesothermal veins. The ground to be explored lies beneath the Sherman mine and in the intervening area to the east. Geologically

this is within a block of ground bounded by the Puritan-Standard and O'Neil Gulch Faults. These are major transverse faults in the area; and a similar subsidiary structure, the Swan Fault, is located about midway between them. These faults are believed to be essentially pre-mineral structures, and their occurrence may be some index of the strength of fracturing within the block itself. Illustrations of the project are filed under "Item 5" of this application.

(d) The Hecla shaft is in the town of Burke which is served by the U. P. R. R.

(e) All manpower, facilities, and equipment for mining are available for this project.

DAY MINES, INC.

HIDDEN TREASURE EXPLORATION PROJECT (AMENDED)

(DOCKET No. DMEA 2506)

Item 5: (a) Exploration would be directed towards the development of lead (and zinc) ores of the type found in the Sherman mine.

(b) The proposed work would explore the Sherman vein system below the Sherman mine, at the elevation of the Hecla 1200' level, from the Hecla shaft. The project would consist of:

(1) A northerly crosscut, estimated at 900 feet.

(2) A westerly drift, estimated at 4600 feet, to be followed by

(3) Horizontal diamond drilling, estimated at 2000 feet.

The crosscut would reach the Sherman vein system west of the old Tiger-Poorman workings. This would be followed by drifting along the vein to an objective point below the Sherman oreshoot. This in turn, would be followed by diamond drilling, north and south, to test the walls for other veins. Two illustrations are submitted with this application, both on a scale of 1000 feet to the inch. The first is a composite plan

showing the property outlines and the course of the proposed exploration, with the major faults projected to the Hecla 1200' level elevation. The second is a vertical longitudinal projection, looking northerly, which is self-explanatory.

(c) The work will start within thirty (30) days and be completed within twenty-four (24) months from the date of an exploration project contract.

(d) Day Mines, Inc., and its predecessor companies, have been continuously in the mining business, in the Coeur d' Alene district, since 1902.

DAY MINES, INC.

HIDDEN TREASURE EXPLORATION PROJECT (AMENDED)

(DOCKET No. DMEA 2506)

Item 6. ESTIMATE OF COSTS.

(a) Independent Contracts

1. Diamond drilling will be performed by independent contractors after calling for bids. Estimated cost of diamond drilling is

200 ft. at $5.00 per ft.	$ 10,000.00

2. Waste haulage and disposal on the surface, at considerable distance from the mine plant, will be performed by independent contractors after calling for bids. Estimated cost

40,000 tons ¢ $1.00 per ton	40,000.00
(b) Labor, supervision & consultants	105,600.00
(c) Operating supplies (see attached schedule)	105,970.00
(d) Operating equipment (see attached schedule)	47,702.00
(e) Rehabilitation and repairs; open old surface waste bin, change position 1200 sump and clear pockets	10,000.00
(f) New buildings, improvements, installations	None
(g) Miscellaneous	32,320.00
(h) Contingencies	5,960.00
Total by Company	$ 307,552.00
Total Project	$ 357,552.00

DAY MINES, INC.

HIDDEN TREASURE EXPLORATION PROJECT (AMENDED)

DOCKET NO. DMEA 2506

Item 6: (c) Operating Materials And Supplies:

Timbers or rock bolts: 4,600 ft. of drift @ 5.00	$ 23,000.00
Explosives: 5,500 ft. of lateral @ 5.20	28,600.00
Pipe: 5,500 ft. of lateral @ 3.35	18,425.00
Track: 5,500 ft. of 30# rail @ 1.74	9,570.00
Power: 24 Months @ 400.00	9,600.00
Drill Steel & Bits: 5,500 ft. of lateral @ 2.70	14,850.00
Small tools & Supplies: 5,500 ft. of lateral @ .35	1,925.00
TOTAL MATERIALS & SUPPLIES	$ 105,970.00

DAY MINES, INC.

HIDDEN TREASURE EXPLORATION PROJECT (AMENDED)

DOCKET NO. DMEA 2506

Item 6: (d) Schedule of Operating Equipment and Proposed Use Allowance

	Approx. New Price	Total	Depreciation Years	Maximum Monthly Rental	Months Needed	Total Proposed Rents
3 Drifter Rock Drills	$ 1,200.00	$ 3,600.00	2	$ 150.00	24	$ 3,600.00
1 Jackhammer Drill	365.00	365.00	2	15.20	24	364.80
1 Stoper Rock Drill	670.00	670.00	2	55.83	24	1,339.92
1 Drill Jumbo	600.00	600.00	3	16.67	24	400.00
1 Air Receiver 3' x 10'	300.00	300.00	5	5.00	24	120.00
1 Elec. Blasting Sub. and Galvanometer	250.00	250.00	5	4.16	24	99.84
1 15 H.P. Electric Blower	700.00	700.00	5	11.66	24	279.84
1 15 H.P. " "	700.00	700.00	5	11.66	18	209.88
1 15 H.P. " "	700.00	700.00	5	11.66	12	139.92
1 Slusher & Scraper	1,500.00	1,500.00	3	41.67	24	1,000.00
2 Air Gates For Pocket Loading	100.00	200.00	5	3.33	24	79.92
2 4-Ton Battery Locomotives & Chargers	7,200.00	14,400.00	8	150.00	24	3,600.00
2 Sets Batteries for Locomotives	2,400.00	4,800.00	4	100.00	24	2,400.00
16 45 Cu. Ft. Cars	500.00	8,000.00	5	133.33	24	3,199.92
1 Simco 21B Loader	4,525.00	4,525.00	5	75.40	24	1,809.60
2 Canton Car Transfers	500.00	1,000.00	5	16.67	24	400.[illegible]
1 Rail Bender	90.00	90.00	10	.75	24	18.00
1 Water Pump, Boiler Feed	225.00	225.00	5	3.75	24	90.00
1 Electrical Substation at Shaft	1,500.00	1,500.00	10	12.50	24	300.00
5,000 ft. #6, 600 V. Rubber Covered Cable	.85	4,250.00	2	177.10	24	4,250.00
2 90B Compressors	6,000.00	12,000.00	5	200.00	24	4,800.00
Surface facilities & 300 H.P. Pump Over	75,000.00	75,000.00	30	200.00		4,800.00
Hoist & Shaft facilities "	150,000.00	150,000.00	20	600.00	24	14,400.00
						$ 47,702.00

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1959

Hecla Mining Company

Wallace, Idaho

June nineteenth
1953

Mr. Henry L. Day, President
Day Mines, Inc.
Wallace, Idaho

Dear Sir:

With reference to the exploration of your company's Hidden Treasure Group of mining claims, please be advised that in the event Hecla Mining Company participates in the proposed exploration project, Hecla agrees to permit the use of the Hecla shaft, 1200 level station facilities and surface facilities for the purpose of driving the crosscut from Hecla's 1200 level into the Hidden Treasure property for a period covering the life of the project.

It is my opinion that current conditions warrant and favor such a project.

Yours very truly,

L. J. Randall, President

LJR/bbr

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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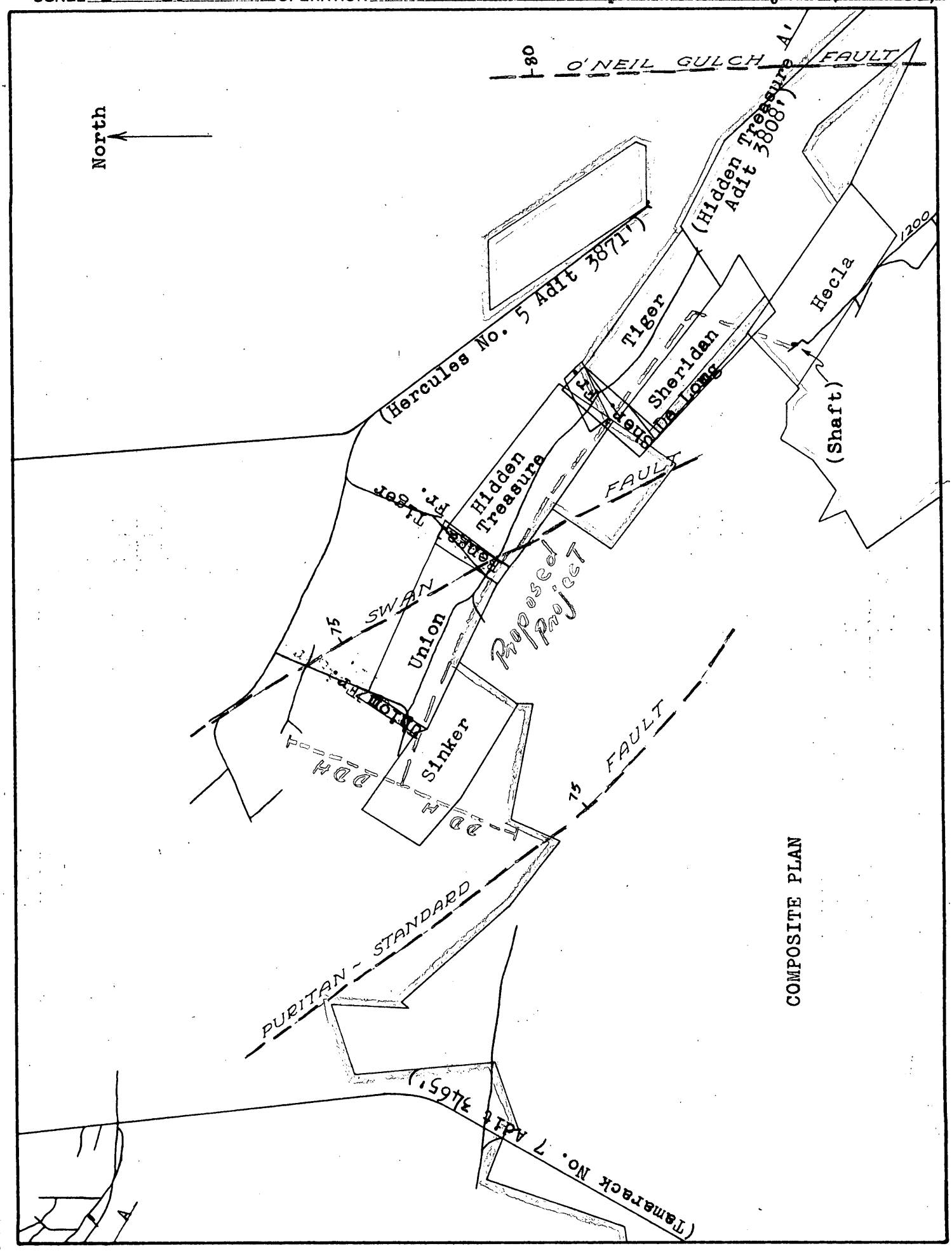
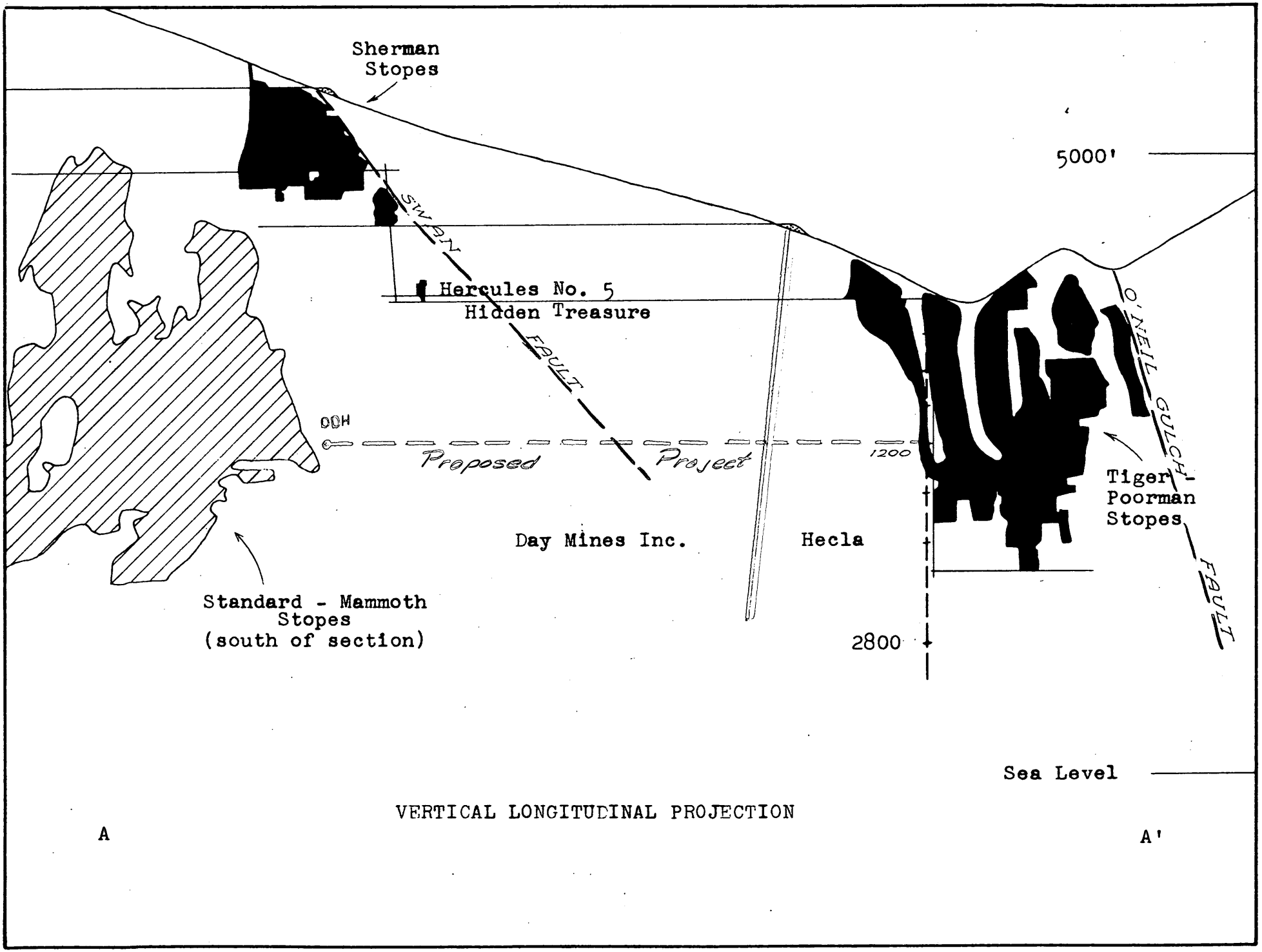
JUL - 1 1953

LEVEL _____ Docket No. DMEA 2506 DATE _____ BY _____

SCALE 1" = 1000' OPERATION Hidden Treasure Exploration Project (amended)



COMPOSITE PLAN



LEVEL ____ Docket No. DMEA 2506 DATE ____ BY ____

SCALE 1" = 1000' OPERATION Hidden Treasure Exploration Project (amended)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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JAN 15 1953

Keating
Betty
1/28/53

January 12, 1953

Mr. F. E. Johnson, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

RE: Docket No. DMEA-2506
Day Mines, Inc.
Tamarack-Sherman (Hidden Treasure)
Shoshone Co., Idaho

Dear Mr. Johnson:

In April of this year Day Mines Inc. submitted an application for the exploration of the Tamarack-Sherman Mine. Shortly after, officials of the company discussed with me an application which they proposed to file for the exploration of the Hercules Mine. They regarded both of these proposals as exploration which the company wanted to do, but because of the drop in metal prices, the company at this time would only be able to undertake one of these explorations; they preferred to concentrate on the Hercules Mine (and, of course, on the National Tunnel project which was then and is still in progress). I transmitted this information to you in my letter of July 16, 1952 in which I requested that the Tamarack-Sherman application, Docket No. DMEA-2506, be considered withdrawn without prejudice with the possibility that it might be resubmitted at some later date.

In a recent telephone conversation, Mr. Keating requested that written confirmation be obtained of this from the Day Mines Company. Attached is a letter from Mr. Henry Day requesting that this action be taken with respect to Docket No. DMEA-2506.

Sincerely yours,

A. E. Weissenborn

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

Enclosure 1 (in trip.)
cc: USBM (2) w/1 encl.
Hobbs

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BATES NO. USGSPO0000405

DAY MINES, INC.

WALLACE, IDAHO

COPY

January 10, 1953

Mr. A. E. Weissenborn
U. S. Geological Survey
Defense Minerals Exploration Administration, Region II
So. 157 Howard Street
Spokane 8, Washington

Dear Sir: Docket No. DMEA 2506

The above designation was assigned on May 5, 1952, to an application dated April 23, 1952, for a loan under the Defense Production Act of 1950. It involved a lateral from the Tamarack Mine reaching easterly underneath the Sherman Mine at a total estimated cost of $211,800 and a time of two years. One-half the cost or $105,900 was to be borne by Day Mines, Inc.

As yet this application has not been approved or denied. Circumstances have somewhat changed in the intervening months. For one thing substantial declines in the prices of lead and zinc have forced us to curtail capital expenditures and to concentrate exploration to those projects most attractive. Accordingly, progress in the west and deeper levels of the Hercules Mine indicated justification for still deeper work plus facilities for more economical extraction. So an application for another loan was filed on September 18, 1952, and assigned Docket No.2719.

Our company feels at this time that the latter application from all factors involved is more meritorious than Docket No. DMEA 2506, Tamarack-Sherman Mine. So without cancellation DMI respectfully asks permission to withdraw indefinitely application Docket No. 2506.

Yours very truly,

Henry L. Day

5 cc: enclosed

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JAN 12 1953
U. S. G. S.
SPOKANE, WASH.

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

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

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

Not To Be Filled in by Applicant

Docket No. DMEA-2506
Metal or Mineral
Date Received 5-2-52
Amount $
Participation (Government %)

Name and address of applicant

Day Mines, Inc.,
Day Building,
Wallace, Idaho.

Date April 23, 1952

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

DMA Docket Number (if available) _____

INSTRUCTIONS

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY - 2 1952

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

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

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

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

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

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

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

CERTIFICATION

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

DAY MINES, INC.
(Name of company)

By Paul B. Jones
(Signature of authorized official)

April 23, 1952
(Date)

Vice-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.

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BATES NO. USGSPO0000405

HIDDEN TREASURE EXPLORATION PROJECT (DMEA).

MF-103 (Application).

Item 1: (a) The Tamarack mine, operating through a 7,500-foot adit, with portal on Canyon Creek, has been producing since 1913 and is currently handling about 6,500 tons monthly in the company-owned Tamarack mill, situated at the portal of No. 7 adit (the main haulage level). The exploration project would start at a point about 4,600 feet from the portal of this adit. The Sherman mine, operating through the Hercules No. 5 adit, with portal at Burke, has been producing since 1926. Production through the company-owned Sherman mill, at the portal of the main adit, is currently about 3,600 tons monthly; and the Sherman ore body will be worked out in the near future. The exploration project would pass into the Sherman mine area and connect, by means of a 380-foot raise, with the Hidden Treasure adit at a point near the shaft-raise to the Sherman mine, which bottoms at the Hidden Treasure adit level.

(b) Not applicable (see paragraph "c").

(c) The proposed lateral drive will start within the Timber Line lode and pass through the Bonaparte lode, both U. S. Mineral Survey No. 1324. Day Mines, Inc. has an 11/360 interest in said claims and a perpetual easement and right-of-way over, across, under and

through for tunnel purposes. The project would continue through the following claims within the Sherman mine area, all wholly owned by Day Mines, Inc.: the Pearl lode, Oreano lode, and Sinker lode, all U. S. Mineral Survey No. 1933; the Sherman lode and Union Fraction lode, both U. S. Mineral Survey No. 1305; and the Union lode, U. S. Mineral Survey No. 654. All are situated in the Lelande and Placer Center Mining Districts, T. 48 N., R. 5 E.B.M., Shoshone County, Idaho.

Item 2: (a) Exploration would be directed towards the development of lead and zinc ores of the type found in the neighboring Sherman and Tamarack mines.

(b) The block of ground to be explored lies between the Tamarack and Sherman operating mines of DMI. Geologically, this block is bounded on the west by the Puritan-Standard Fault and on the east, by the Swan Fault. Both of these structures are major transverse faults in this locality and, in common with others of the district, are believed to be essentially pre-mineral structures showing only relatively minor post-ore readjustments. On that account, however, they are thought to constitute structural boundaries likely to interrupt or alter the pattern of fracturing within which veins and mineralization generally may occur. A block bounded by two such structures, therefore, makes a natural geological unit for exploration. Ores of the type sought by this project occur in the Sherman and Tamarack mines and are considered to be mesothermal vein deposits. Their tenor may be illustrated by an average of production figures covering the past three years of operation, which show:

MINE	TONS	Oz.Ag.	% Pb.	% Zn.	Vein Width
Sherman	116,150	6.7	9.3	1.7	3.6'
Tamarack	201,910	1.2	3.5	5.4	4.7'

Illustrations are filed under Item 4 of this application.

Item 3: (a) The proposed work would explore the ground between the Tamarack and Sherman mines at the level of the Tamarack No. 7 adit (portal elevation, 3,465 feet). The project can be divided into three sections consisting of:

(1) a lateral drive estimated at 3,850 feet in length, to be followed by

(2) a raise on the vein estimated at 380 feet in height, and by

(3) horizontal diamond drilling totalling an estimated 7,000 feet in seven holes.

Specifically, the lateral drive would be aimed at prospecting the Custer-Sherman vein system, with diamond drilling to explore the walls on both sides for possible extensions of other known veins or branches from any of them. The two southerly holes have, in addition, the possibility of interesting neighboring operators to the south and could be made available to them for deepening on their own account later, if desirable. A short stope above the Hidden Treasure adit makes an objective point near the east end of the drive, at which the proposed raise is planned.

Specifications: The proposed basis for cost of the project is an agreed price per linear foot of advance for each of the three types of work.

The lateral drive is to be 7 ft. wide by 9 ft. high, arched, equipped with 30 lb. rail, 4-inch air pipe, 2-inch water pipe and 15-inch ventilation pipe. The above size is to permit use of existing facilities

for haulage; better speed and cost will result than would if a smaller cross-section were used. The agreed price of $40.00 per ft. of lateral is the total cost, including all labor, depreciation of equipment, materials, supplies, supervision and operating overhead; it also includes the sidings and diamond drill stations needed to complete the program. No other charge will be added for timbering or for any other work to complete the lateral.

The raise is to be driven for the agreed total price per lin. foot of advance of $60.00. It is to be of the type locally termed "3 caps-2 joker chutes", which requires an excavation 7 ft. wide by 18 ft. long and is timbered to produce one manway compartment and one timber slide compartment plus two untimbered chuteways, one at each end of the raise, outside of timber. The timber will be in shaft-type framed sets, rising 5 ft. per ring, and consisting of two wall plates of 8" x 8" x 10'4" dimension plus two end plates of 8" x 8" x 5'4" dimension, one divider, six posts; plus blocking, chute planking, ladders, timber-slide and landings. A raise of this size is considered minimum to permit safely raising 380 ft. while following a vein. 3-inch air pipe, 2-inch water pipe, 12-inch ventilation pipe will be installed and a bottom station with a timber hoist will be provided.

Total cost of the project is estimated as follows:

(1) Lateral Drive	3,850 ft.	@ $40 per ft.	$154,000
(2) Raise on Vein	380 "	" $60 " "	22,800
(3) Diamond Drilling	7,000 "	" $ 5 " "	35,000
		ESTIMATED TOTAL COST.	$211,800

(b) The lateral drive can be completed within 13 to 20 months. The raise would require an additional four months, following completion of the lateral drive. The diamond drilling is estimated to take four to six months to complete, but it could be done concurrently with portions of either of the two foregoing sections of the project. Total time required would, therefore, amount to a maximum of two years from the starting date.

(c) Diamond drilling will be priced by competitive contractor's bids and will not be performed by regular DMI employees.

Item 4: Two illustrations are submitted with this application, showing the location of the proposed work. The first is a plan on a scale of 1,000 feet to the inch, and the second is a vertical longitudinal projection on the same scale, taken along the line of the proposed lateral drive. Together, these show the relation of the project to existing mine workings and to the major fault structures described in Item 2 of this application.

Item 5: The Tamarack No. 7 Plant, from which the proposed work will be based, is a complete mining and concentrating plant currently operated by a crew of about 150 men who mine and mill about 6500 tons of ore per month. The plant has an insurable value of $447,895.30 as of January 1, 1952. Buildings include: office, warehouse, compressor, change-house, electric shop, blacksmith shop, machine shop, crusher plant, grinding and concentrating plant, sawmill, and hydro-electric power plant.
No repair or rehabilitation of surface facilities is required for the project.

Item 6: Additional facilities to be installed by DMI are: Expanded waste dumping trestles estimated to cost $500.00.

Main adit facilities for junction with the new lateral: trackage switch, block signals, telephone, compressed air, trolley, drill water, electric power transformer; also the present installations will have to be moved for protection purposes during the early stage of the drive. The junction facilities are estimated to cost $1,000.00.

Total estimated cost for Item 6--$1,500.00.

We propose to cover this initial expense by designating the zero point for measurement of advance as Point of Switch on the main track, thereby offsetting the preparation expense by a reduced volume of excavation to be made in the first few feet of the drive.

Item 7: Operating Equipment.

a. none

b. none

c. Furnished by DMI:

1. Compressor

2. Trolley generator.

3. Haulage locomotives: 8 ton trolley locomotive on main haulage,

   4 ton battery locomotive plus charger, plus extra battery, for advanced haulage.

4. Mine cars: 12 bottom-dump, 60 cu.ft., 24-inch track gauge cars; two supply cars.

5. Ventilation fans: two 15 h.p. blowers plus 2,000 ft. of power cable to drive the second.

6. Drill water pump.

7. Eimco 21 shovel-loader.

8. Canton car-transfer or cherry picker.

9. Drill jumbo.

10. Rock drills: three I-R DB-35 drifters, one stoper plus one jack hammer during lateral advance; during raising three stoper drills plus one jack hammer.

11. Electric blasting machine and galvanometer.

Depreciation of equipment is estimated to be

$3.35 per ft. of drift and $3.00 per ft. of raise.

Item 8: Appended wage scale shows rates now current at the Tamarack Mine. Incentive bonus, based on work units completed, is in general use for crews in headings. Estimated full time crew for two shifts per day: 4 miners; 2 motormen. Estimated part time crew, working principally on Tamarack operation, include main haulage motormen, compressormen, mechanics, electricians, yard laborers and a timber framer. The above labor is estimated to cost $14.40 per ft. of drift and $25.20 per ft. of raise.

Estimated part time supervisory and technical personnel will include a small fraction of the full time of a number of persons, such as the superintendent, general foreman, mine foreman, two shift bosses, engineer, geologist, assayer, mechanical and electrical foremen, timekeeper, accountant, warehouseman, purchasing agent, etc.; the combined cost of this service is estimated to aggregate about 10% of the total cost. This charge for drifting would be $3.64 per ft. and $5.45 per ft. for raising.

Item 9: Materials and Supplies.

A. Used in lateral drive.	Per Lin.ft.
4-inch compressed air pipe, couplings and hangers	$ 1.45
2-inch water pipe, couplings and hangers	0.40
15-inch ventilation pipe, bands and hangers	1.50
Blasting powder at $18.10 per cwt.	3.50
Electric detonators at $22.00/c plus wire at $0.85/lb.	1.70
Track of 30-lb rails	1.58
Fish plates	.07
Bolts 3/8" x 2½"	.02
Spikes ½" x 4"	0.07
Ties	0.20
Drift timber (or rock bolts,) where required, at $60.00/M; est.	1.00
Drill bits (Carset) at $11.00 and $12.00 each	2.00
Drill Steel	0.70
Repair parts	1.80
Hoses	.20
Tamping sticks	.05
Hand tools and miscellaneous	.35
Power	.97
	17.56
6% additional consumption of above items for occasional sidings and diamond drill stations	1.05
	$ 18.61

Item 9: Materials and Supplies.

B. Used in raise.	Per Lin.ft.
Timbers at $60.00/M bd. ft. plus framing	$ 12.00
Pipe: air 3" w/cplgs.	.75
water 1" w/cplgs.	.20
Vent. 12" w/bands	.60
Powder	4.00
Detonators and wiring	2.00
Drill bits	2.25
Drill steel	.85
Repair parts	.75
Hoses	.10
Tamping sticks	.10
Hand tools and miscellaneous	.50
Power	1.00
	25.10
Plus 5% for station and landings	1.25
	$ 26.35

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

One-half of the amount estimated to complete the project, or $105,900.00

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

Yes

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

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

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

Not To Be Filled in by Applicant

Docket No. DMEA-2506
Metal or Mineral
Date Received 5-2-52
Amount $
Participation (Government %)

Name and address of applicant

Day Mines, Inc.,
Day Building,
Wallace, Idaho.

Date April 23, 1952

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

DMA Docket Number (if available) _____

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY - 2 1952

INSTRUCTIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

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

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

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

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

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

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

CERTIFICATION

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

DAY MINES, INC.
(Name of company)

By Paul B Jones
(Signature of authorized official)

April 23, 1952
(Date)

Vice-President
(Title)

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

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

NON-PRIVILEGED DOCUMENT

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DO NOT CODE

BATES NO. USGSPO0000405

HIDDEN TREASURE EXPLORATION PROJECT (DMEA).

MF-103 (Application).

Item 1: (a) The Tamarack mine, operating through a 7,500-foot adit, with portal on Canyon Creek, has been producing since 1913 and is currently handling about 6,500 tons monthly in the company-owned Tamarack mill, situated at the portal of No. 7 adit (the main haulage level). The exploration project would start at a point about 4,600 feet from the portal of this adit. The Sherman mine, operating through the Hercules No. 5 adit, with portal at Burke, has been producing since 1926. Production through the company-owned Sherman mill, at the portal of the main adit, is currently about 3,600 tons monthly; and the Sherman ore body will be worked out in the near future. The exploration project would pass into the Sherman mine area and connect, by means of a 380-foot raise, with the Hidden Treasure adit at a point near the shaft-raise to the Sherman mine, which bottoms at the Hidden Treasure adit level.

(b) Not applicable (see paragraph "c").

(c) The proposed lateral drive will start within the Timber Line lode and pass through the Bonaparte lode, both U. S. Mineral Survey No. 1324. Day Mines, Inc. has an 11/360 interest in said claims and a perpetual easement and right-of-way over, across, under and

through for tunnel purposes. The project would continue through the following claims within the Sherman mine area, all wholly owned by Day Mines, Inc.: the Pearl lode, Oreano lode, and Sinker lode, all U. S. Mineral Survey No. 1933; the Sherman lode and Union Fraction lode, both U. S. Mineral Survey No. 1305; and the Union lode, U. S. Mineral Survey No. 654. All are situated in the Lelande and Placer Center Mining Districts, T. 48 N., R. 5 E.B.M., Shoshone County, Idaho.

Item 2: (a) Exploration would be directed towards the development of lead and zinc ores of the type found in the neighboring Sherman and Tamarack mines.

(b) The block of ground to be explored lies between the Tamarack and Sherman operating mines of DMI. Geologically, this block is bounded on the west by the Puritan-Standard Fault and on the east, by the Swan Fault. Both of these structures are major transverse faults in this locality and, in common with others of the district, are believed to be essentially pre-mineral structures showing only relatively minor post-ore readjustments. On that account, however, they are thought to constitute structural boundaries likely to interrupt or alter the pattern of fracturing within which veins and mineralization generally may occur. A block bounded by two such structures, therefore, makes a natural geological unit for exploration. Ores of the type sought by this project occur in the Sherman and Tamarack mines and are considered to be mesothermal vein deposits. Their tenor may be illustrated by an average of production figures covering the past three years of operation, which show:

MINE	TONS	Oz.Ag.	% Pb.	% Zn.	Vein Width
Sherman	116,150	6.7	9.3	1.7	3.6'
Tamarack	201,910	1.2	3.5	5.4	4.7'

Illustrations are filed under Item 4 of this application.

Item 3: (a) The proposed work would explore the ground between the Tamarack and Sherman mines at the level of the Tamarack No. 7 adit (portal elevation, 3,465 feet). The project can be divided into three sections consisting of:

(1) a lateral drive estimated at 3,850 feet in length, to be followed by

(2) a raise on the vein estimated at 380 feet in height, and by

(3) horizontal diamond drilling totalling an estimated 7,000 feet in seven holes.

Specifically, the lateral drive would be aimed at prospecting the Custer-Sherman vein system, with diamond drilling to explore the walls on both sides for possible extensions of other known veins or branches from any of them. The two southerly holes have, in addition, the possibility of interesting neighboring operators to the south and could be made available to them for deepening on their own account later, if desirable. A short stope above the Hidden Treasure adit makes an objective point near the east end of the drive, at which the proposed raise is planned.

Specifications: The proposed basis for cost of the project is an agreed price per linear foot of advance for each of the three types of work.

The lateral drive is to be 7 ft. wide by 9 ft. high, arched, equipped with 30 lb. rail, 4-inch air pipe, 2-inch water pipe and 15-inch ventilation pipe. The above size is to permit use of existing facilities

for haulage; better speed and cost will result than would if a smaller cross-section were used. The agreed price of $40.00 per ft. of lateral is the total cost, including all labor, depreciation of equipment, materials, supplies, supervision and operating overhead; it also includes the sidings and diamond drill stations needed to complete the program. No other charge will be added for timbering or for any other work to complete the lateral.

The raise is to be driven for the agreed total price per lin. foot of advance of $60.00. It is to be of the type locally termed "3 caps-2 joker chutes", which requires an excavation 7 ft. wide by 18 ft. long and is timbered to produce one manway compartment and one timber slide compartment plus two untimbered chuteways, one at each end of the raise, outside of timber. The timber will be in shaft-type framed sets, rising 5 ft. per ring, and consisting of two wall plates of 8" x 8" x 10'4" dimension plus two end plates of 8" x 8" x 5'4" dimension, one divider, six posts; plus blocking, chute planking, ladders timber-slide and landings. A raise of this size is considered minimum to permit safely raising 380 ft. while following a vein. 3-inch air pipe, 2-inch water pipe, 12-inch ventilation pipe will be installed and a bottom station with a timber hoist will be provided.

Total cost of the project is estimated as follows:

(1) Lateral Drive	3,850 ft.	@ $40 per ft.	$154,000
(2) Raise on Vein	380 "	" $60 " "	22,800
(3) Diamond Drilling	7,000 "	" $ 5 " "	35,000
		ESTIMATED TOTAL COST.	$211,800

(b) The lateral drive can be completed within 13 to 20 months. The raise would require an additional four months, following completion of the lateral drive. The diamond drilling is estimated to take four to six months to complete, but it could be done concurrently with portions of either of the two foregoing sections of the project. Total time required would, therefore, amount to a maximum of two years from the starting date.

(c) Diamond drilling will be priced by competitive contractor's bids and will not be performed by regular DMI employees.

Item 4: Two illustrations are submitted with this application, showing the location of the proposed work. The first is a plan on a scale of 1,000 feet to the inch, and the second is a vertical longitudinal projection on the same scale, taken along the line of the proposed lateral drive. Together, these show the relation of the project to existing mine workings and to the major fault structures described in Item 2 of this application.

Item 5: The Tamarack No. 7 Plant, from which the proposed work will be based, is a complete mining and concentrating plant currently operated by a crew of about 150 men who mine and mill about 6500 tons of ore per month. The plant has an insurable value of $447,895.30 as of January 1, 1952. Buildings include: office, warehouse, compressor, change-house, electric shop, blacksmith shop, machine shop, crusher plant, grinding and concentrating plant, sawmill, and hydro-electric power plant.
No repair or rehabilitation of surface facilities is required for the project.

Item 6: Additional facilities to be installed by DMI are: Expanded waste dumping trestles estimated to cost $500.00.

Main adit facilities for junction with the new lateral: trackage switch, block signals, telephone, compressed air, trolley, drill water, electric power transformer; also the present installations will have to be moved for protection purposes during the early stage of the drive. The junction facilities are estimated to cost $1,000.00.

Total estimated cost for Item 6--$1,500.00.

We propose to cover this initial expense by designating the zero point for measurement of advance as Point of Switch on the main track, thereby offsetting the preparation expense by a reduced volume of excavation to be made in the first few feet of the drive.

Item 7: Operating Equipment.

a. none

b. none

c. Furnished by DMI:

1. Compressor

2. Trolley generator.

3. Haulage locomotives: 8 ton trolley locomotive on main haulage,

   4 ton battery locomotive plus charger, plus extra battery, for advanced haulage.

4. Mine cars: 12 bottom-dump, 60 cu.ft., 24-inch track gauge cars; two supply cars.

5. Ventilation fans: two 15 h.p. blowers plus 2,000 ft. of power cable to drive the second.

6. Drill water pump.

7. Eimco 21 shovel-loader.

8. Canton car-transfer or cherry picker.

9. Drill jumbo.

10. Rock drills: three I-R DB-35 drifters, one stoper plus one jack hammer during lateral advance; during raising three stoper drills plus one jack hammer.

11. Electric blasting machine and galvanometer.

Depreciation of equipment is estimated to be

$3.35 per ft. of drift and $3.00 per ft. of raise.

Item 8: Appended wage scale shows rates now current at the Tamarack Mine. Incentive bonus, based on work units completed, is in general use for crews in headings. Estimated full time crew for two shifts per day: 4 miners; 2 motormen. Estimated part time crew, working principally on Tamarack operation, include main haulage motormen, compressormen, mechanics, electricians, yard laborers and a timber framer. The above labor is estimated to cost $14.40 per ft. of drift and $25.20 per ft. of raise.

Estimated part time supervisory and technical personnel will include a small fraction of the full time of a number of persons, such as the superintendent, general foreman, mine foreman, two shift bosses, engineer, geologist, assayer, mechanical and electrical foremen, timekeeper, accountant, warehouseman, purchasing agent, etc.; the combined cost of this service is estimated to aggregate about 10% of the total cost. This charge for drifting would be $3.64 per ft. and $5.45 per ft. for raising.

Item 9: Materials and Supplies.

A. Used in lateral drive.	Per Lin.ft.
4-inch compressed air pipe, couplings and hangers	$ 1.45
2-inch water pipe, couplings and hangers	0.40
15-inch ventilation pipe, bands and hangers	1.50
Blasting powder at $18.10 per cwt.	3.50
Electric detonators at $22.00/c plus wire at $0.85/lb.	1.70
Track of 30-lb rails	1.58
Fish plates	.07
Bolts 3/8" x 2½"	.02
Spikes ½" x 4"	0.07
Ties	0.20
Drift timber (or rock bolts,) where required, at $60.00/M; est.	1.00
Drill bits (Carset) at $11.00 and $12.00 each	2.00
Drill Steel	0.70
Repair parts	1.80
Hoses	.20
Tamping sticks	.05
Hand tools and miscellaneous	.35
Power	.97
	17.56
6% additional consumption of above items for occasional sidings and diamond drill stations	1.05
	$ 18.61

Item 9: Materials and Supplies.

B. Used in raise.	Per Lin.ft.
Timbers at $60.00/M bd. ft. plus framing	$ 12.00
Pipe: air 3" w/cplgs.	.75
water 1" w/cplgs.	.20
Vent. 12" w/bands	.60
Powder	4.00
Detonators and wiring	2.00
Drill bits	2.25
Drill steel	.85
Repair parts	.75
Hoses	.10
Tamping sticks	.10
Hand tools and miscellaneous	.50
Power	1.00
	25.10
Plus 5% for station and landings	1.25
	$ 26.35

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

One-half of the amount estimated to complete the project, or $105,900.00

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

Yes