G.E.C.

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

May 10, 1951

Memorandum

To: Executive Secretary, D.M.A.

From: Lead-Zinc Branch, D.M.A.

Subject: Denial of Exploration loan
Tinitic Outpost Mining Company
825 South Tenth East Street
Salt Lake City 2, Utah

Re: Docket DMA-839
Commodity: Lead, zinc

The subject docket, requesting an exploration loan of $35,000 for a property in the Mount Nebo Mining District, Utah and Juab Counties, Utah, has been reviewed by the Lead-Zinc Branch.

The applicant requests that the Government contribute the total amount of the funds necessary to carry out the program. All the applicant can contribute is machinery, a compressor house and tools. The rental value of such equipment is not sufficient to provide 50 percent of the required funds.

Under these circumstances, the Lead-Zinc Branch recommends that the application be denied.

Otto Herres

OTTO HERRES, Chief
Lead-Zinc Branch

Approved:

Tom Lyon

Director, Supply Division

FILE COPY
SURNAME:

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

May 10, 1951

Memorandum

To: Executive Secretary, D.M.A.

From: Lead-Zinc Branch, D.M.A.

Subject: Denial of Exploration loan
Tinitic Outpost Mining Company
825 South Tenth East Street
Salt Lake City 2, Utah

Re: Docket IMA-839
Commodity: Lead, zinc

The subject docket, requesting an exploration loan of $35,000 for a property in the Mount Nebo Mining District, Utah and Juab Counties, Utah, has been reviewed by the Lead-Zinc Branch.

The applicant requests that the Government contribute the total amount of the funds necessary to carry out the program. All the applicant can contribute is machinery, a compressor house and tools. The rental value of such equipment is not sufficient to provide 50 percent of the required funds.

Under these circumstances, the Lead-Zinc Branch recommends that the application be denied.

Otto Herres

OTTO HERRES, Chief
Lead-Zinc Branch

Copy to: J.H. East, Jr., Region IV (2)
Chief, Lead-Zinc Br.
E.T. McKnight, 4204 GSA
L.B. Moon
R.M. Mote
L.F. Strobel
T. Lyon
Director's reading file, 4214 GSA
Br. reading file, 4214 GSA
Files

ALBrokaw/drc
G: 5/10/51

5

FILE COPY
SURNAME:

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

ALBrokaw
McKnight
Hessey
Strobel 5/17

May 10, 1951

Re: Docket DMA-839

Mr. J. M. Calderwood, President
Tintic Output Mining Company
825 South Tenth East Street
Salt Lake City 2, Utah

Dear Mr. Calderwood:

Your application for an exploration loan has been reviewed by the Defense Minerals Administration.

In your application you state that you are unable to provide 50 percent of the funds required to carry out the project. The amount of income from rental of the machinery that could be substituted for actual cash requirements would not be adequate to provide your share of the funds.

Since it is mandatory under provisions of the Government exploration program that the applicant provide 50 percent of exploration funds, the application must be denied.

If in the future the company is financially able to enter into such a program the Defense Minerals Administration will reconsider your application.

Very truly yours,

Tom Lyon
O.B.

Tom Lyon, Director
Supply Division

Copy to: J.H. East, Jr.(2)
Region IV
Chief, Lead-Zinc Br.
E.T. McKnight 4204, GSA
L.B. Moon
R. H. Mote
L.F. Strobel
T.Lyon
Director's reading file, Room 4212GSA
Branch Reading file, Room 4212GSA
Files

ALBrokaw/drc
G: 5-10-51

FILE COPY
SURNAME:

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

May 10, 1951

Mr. J. M. Calderwood, President
Titantic Outpost Mining Company
825 S. Tenth East Street
Salt Lake City, Utah

Subject: DMA-839 X
Re: Exploration Loan
$35,000

My dear Mr. Calderwood:

Receipt is acknowledged of your application and attachments of April 26, 1951 from the TITANTIC OUTPOST MINING COMPANY, for a Government loan under the Defense Production Act of 1950.

The application was assigned Docket Number 839 X and referred to Mr. Otto Herres, Chief, Lead-Zinc Branch, on May 9, 1951.

In any future correspondence relating to your application, kindly refer to DMA-839 X.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

LFSTROBEL;aec
cc: Strobel-2
Files
Mr. Herres
Mr. Lyon

Mr. Stones
~~LANDON F. STROBEL~~
Dma - 839 X

825 SO.10th East St.,
Salt Lake City 2,Utah,
April 26,1951.

Defense Minerals Administration,
Department of the Interior,
Washington, D.C.

Gentlemen:-

Under separate cover I am mailing to you my prepared application for a Thirty-five Thousand Dollar Loan ($35,000.00) for and in behalf of the Tintic Outpost Mining Company. In it I have endeavored to present for your consideration the precise conditions and facts as they appear at this time bothas regards to our company and to our property. Let this letter be an appendage to my application.

The one regretable thing is that we do not have any money whatever to match the amount which the Government indicates its willingness to stand. In fact if we had $17,500.00 on hand we would not at this time be asking for a loan,but we would expend that capital in furtherance of development work in the hope that we might bring our property into production. As we have already spent more than $45,000.00 to date on this property,we sincerely hope that you will accept that along with what our property offers as sufficient to justify the loan we so badly need.

The only other inducement we could offer would be to reimburse you the full amount of the loan from the net smelter returns on our ore and give you a voluntary contribution to help win the war. We are not asking more than is imperatively necessary to meet the cost of new machinery,supplies,road building and completion of our tunnel. Of course our belief is,and we feel very certain,that we will open up large bodies of good commercial ore in process of this project,and that would redound greatly to the best interests of all concerned. But even so,the very purpose of my purchasing the five claims on the West slope was to furnish us an outlet for our ore over a much safer and shorter road then we have through the hazardous Santaquin Canyon. At the same time,after prospecting those claims and recognizing the potential vastness of ore we might mine therefrom,it became thrice more important that we push this tunnel to its completion in the shortest possible time. And that is our keen desire now. But we are financially broke and have no other course to look to for assistance than to the generous hand of our benevolent Government.

We have just levied a one mill assessment on our issued and outstanding stock - $1.00 per 1000 shares - and what can we do with that? It brings in not to exceed $900.00, and according to our Articles of Incorporation we can have only two such assessments in any one year. Costs of everything are very high,as you know.You can readily see , therefore,that it would take years and years yet to accomplish the ends we seek without your help.Whereas,with your help,as I have pointed out in our application,we could complete these ends within only two years. And since zinc and lead are among our strategic metals of which we are short,and we have a property possessed of unusual potential amounts of these metals,we hope you will give us the assistance we here pray for,now.

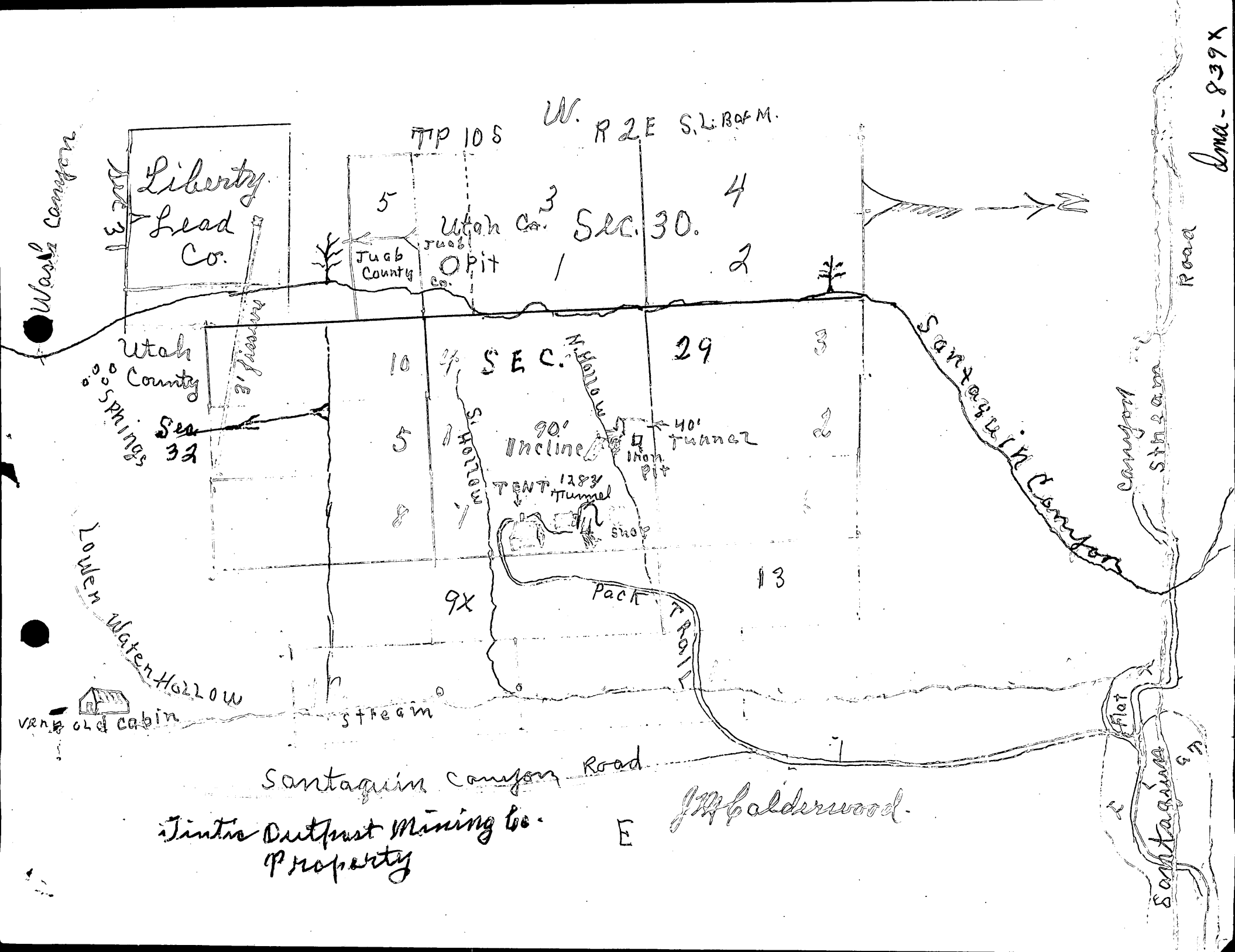
Trusting in your good offices and kindly consideration of our situation,I remain,

Most cordially yours,

J.M.Calderwood

J.M.Calderwood.

Dma - 839 X


Dma - 839X
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R 2 E S.L.B&M.
Liberty Lead Co.
Wash Canyon
Sec 31
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Utah Co.
Sec. 30.
Juab County
Juab Co.
Pit
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Utah County
Springs
Sec 32
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N. Hollow
S. Hollow
5
90' Incline
40' Tunnel
Iron Pit
2
TENT
1283 Tunnel
Shop
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Santaquin Canyon
Canyon Stream
Road
Lower Water Hollow
9X
Pack Trail
13
Venta old cabin
Stream
Flat
Santaquin
Santaquin Canyon Road
Tintic Outfast Mining Co. Property
E
J.M. Calderwood.

Dma - 839X

Defense Minerals Administration.
Department of the Interior,
Washington, D.C.

Tintic Outpost Mining Company.

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TINTIC 30 OUTPOST	29	28	27	26	25
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J.M.Calderwood,
825 SO.10th East St.,
Salt Lake City 2,Utah.

FILE COPY
Surname:

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

APR 12 1951

In reply please
refer to DMA-839

Mr. J. M. Calderwood, President
Tintic Outpost Mining Company
825 South 10th East Street
Salt Lake City 2, Utah

Dear Mr. Calderwood:

One of the purposes of the Defense Production Act of 1950 is the encouragement of exploration, development and mining of strategic minerals and metals. Where an applicant has proven reserves of strategic materials, Federal aid in mining can be given through procurement contracts for such materials as are in short supply. On the strength of these contracts, the applicant can obtain private financing in most instances.

The program recently approved for encouragement of exploration of strategic materials calls for participation on the part of the applicant. For zinc, lead and copper deposits it will be necessary to match Government funds on an equal basis. Funds advanced by the Government will be considered a loan, to be repaid if the exploration is profitable, but to be canceled if unsuccessful. The details of the plan, explaining the projects that will be eligible for assistance, the terms and schedules of financing, repayment, and other pertinent information, are enclosed.

A review of your application (DMA-839) for financial aid in driving your tunnel to intersect the vein at depth indicates your proposal may be considered under this exploration and development program. Details concerning expenditures that will be considered chargeable to exploration aid will be subject to a final determination by negotiation, but as a preliminary appraisal, we believe that the program will apply to the total amount of your application, $35,000, less the amount necessary to complete the access roads, which can be handled otherwise.

Before we can proceed further with consideration of your application, which may or may not require a field examination, please indicate your willingness to provide your share of the funds needed to carry out the proposed exploration. Any modification of your original proposal that you may wish to make will be considered, but you should be specific concerning the work you wish to undertake.

ALBrokaw:drc
G: 3-28-51
Copies to: Chief, Lead-Zinc Br.
USGS McKnight
L.B. Moon
R.H. Mote
Strobel
Mittendorf
Files

Enclosures

Very truly yours,

OTTO HERRES, Chief
Lead-Zinc Branch

Copies to: J. H. East, Jr. (2)
Region IV

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. dma-839 X

Date received 5/7/51

Participation

TINTIC OUTPOST MINING COMPANY
825 South Tenth East Street,
Salt Lake City 2, Utah.

Name and address of applicant

Date April 18,1951

FILL IN THIS BLOCK

Date of application April 18,1951

Estimated cost $35,000.00

Mineral or metal Lead,Zinc,Silver, (Gold ?)

Percentage of Government participation Full amount

Location of mine Mount Nebo Mining District, in Utah County and Juab County,Utah

Date of filing MF-100 April 18,1951

DMA Docket Number, if available dma-839 X

INSTRUCTIONS

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

THE APPLICANT

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

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

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

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

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.
    (*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

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

*11. State the present and former names of the property, if any.
*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.
*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.
*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.
15. State in detail how the ore could be shipped and how and where milled.
*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.
*17. Production:
    (*a*) If mine is in production, furnish the following information:

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

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

THE EXPLORATION

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

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

THE REQUIREMENTS AND COSTS

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

CERTIFICATION

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

Tintic Outpost Mining Company
(Name of company)

By _____
(Signature of authorized official)

_____
(Date)

President.
(Title)

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

*Same as footnote on page 1.

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

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. dma-839X

Date received 5/7/51

TINTIC OUTPOST MINING COMPANY
825 South Tenth East Street,
Salt Lake City 2,Utah.

Name and address of applicant

Date April 18,1951.

INSTRUCTIONS

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

GENERAL TECHNICAL DATA

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

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

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. dma-839X

Date received 5/7/51

Participation

TINTIC OUTPOST MINING COMPANY
825 South Tenth East Street,
Salt Lake City 2,Utah.

Name and address of applicant

Date April 18,1951

FILL IN THIS BLOCK

Date of application April 18,1951

Estimated cost $35,000.00

Mineral or metal Lead,Zinc,Silver, (Gold ?)

Percentage of Government participation Full amount.

Location of mine Mount Nebo Mining District, in Utah County and Juab County,Utah.

Date of filing MF-100 April 18,1951.

DMA Docket Number, if available Not available. dma-839X

INSTRUCTIONS

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THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
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*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
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MAY 9 1951

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

CERTIFICATION

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

---------- (Name of company) By ---------- (Signature of authorized official)

---------- (Date) ---------- (Title)

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

*Same as footnote on page 1.

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

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. dma-839X

Date received 5/7/51

TINTIC OUTPOST MINING COMPANY
825 South Tenth East Street,
Salt Lake City 2,Utah.

Name and address of applicant

Date April 18,1951.

INSTRUCTIONS

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

GENERAL TECHNICAL DATA

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

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

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

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
J.M.Calderwood 825,10th E.Salt Lake City	President and Gen'l Mjr.D	None	No surplus	67,000	None	Only Employee	
Julius Reichert 1563 S.5th East,S.L.City.	Vice Pres.D	None	Runs Ser.Sta.	11,000	None		
G.B.Calderwood 1957 S.25th East,S.L.City	Secretary D	None	Store Clerk	15,000	None		
C.F.Payne,Salt Lake City, 1830 E.17th S.Street.	Mem.Board	None	Expert Machinest	3,100	None		
J.W.Calderwood,143 Hawkes Court,Salt Lake City	Mem.Board.	None	Operates City Bus.	12,000	None		
J.M.Calderwood				67,000			
S.B.Tuttle				41,640			
Dr.E.L.Skidmore				71,000			
F.A.Polson				20,000			
Louis E.Goff				50,000			
	Total	000	x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$ 25,000.00	$ 21,272.28	$ 0.02	1,063,614	None
Preferred stock	$ None	$ None	$ None	None	

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)	10+12 tons Pb.Ag.	3 tons Pb.Ag.Zn.	None	None	
2. Quantity of product processed (specify unit of measure and type of process)	None				
3. Quantity and grade of product sold or shipped (specify units of measure)	None				

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change. Not until we encounter more ore than we now have available.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

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

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

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

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)	Not Determined.	Lead 20% Silver 8 oz. Zinc 20%	$69.00	Yet to be proved	Can't tell till ore opened
Indicated (probable)	Ore not sufficinet yet				

(*c*) If placer:

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

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

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

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

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

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

13. Access Roads:

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

14. Water Supply:

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

15. Power:

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

16. Labor:

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

17. Equipment and Facilities:

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

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

CERTIFICATION

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

Tintic Outpost Mining Company
(Name of company)

By J. H. Calderwood
(Signature of authorized official)

April 18, 1951
(Date)

President
(Title)

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

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

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. dma-839X

Date received 5/7/51

Participation

TINTIC OUTPOST MINING COMPANY
825 South Tenth East Street,
Salt Lake City 2,Utah.

Name and address of applicant

Date April 18,1951

FILL IN THIS BLOCK

Date of application April 18,1951

Estimated cost $35,000.00

Mineral or metal Lead,Zinc,Silver, (Gold ?)

Percentage of Government participation Full amount.

Location of mine Mount Nebo Mining District, in Utah County and Juab County,Utah.

Date of filing MF-100 April 18,1951.

DMA Docket Number, if available Not available. dma-839X

INSTRUCTIONS

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

THE APPLICANT

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

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

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

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

16—64067-1

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THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.
    (*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

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

*11. State the present and former names of the property, if any.
*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.
*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.
*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.
15. State in detail how the ore could be shipped and how and where milled.
*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.
*17. Production:
    (*a*) If mine is in production, furnish the following information:

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

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

THE EXPLORATION

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

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

THE REQUIREMENTS AND COSTS

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

CERTIFICATION

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

---------- (Name of company) By ---------- (Signature of authorized official)

---------- (Date) ---------- (Title)

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

*Same as footnote on page 1.

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

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

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

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

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)	Not determined	Lead 20% Silver 8oz Zinc 20%	$69.00	Yet to be proved	Can't tell till ore opened
Indicated (probable)	Ore not sufficient yet				

(*c*) If placer:

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

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

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

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

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

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

13. Access Roads:

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

14. Water Supply:

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

15. Power:

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

16. Labor:

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

17. Equipment and Facilities:

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

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

CERTIFICATION

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

Tintic Outpost Mining Company
(Name of company)

By J. P. Caldenwood
(Signature of authorized official)

April 18, 1951.
(Date)

President
(Title)

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

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

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. Dma-839 X

Date received 5/7/51

TINTIC OUTPOST MINING COMPANY
825 South Tenth East Street,
Salt Lake City 2, Utah.

Name and address of applicant

Date April 18, 1951.

INSTRUCTIONS

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

GENERAL TECHNICAL DATA

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

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

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

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

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

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

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
J.M.Calderwood "D" 825 S.10th East,S.L.City.	President and Gen'l Mjr.	None	No surplus	67,000	None	Only Employees,	
Julius Reichert "D" 1563 S.5th East,S.L.City.	Vice Pres.	None	Runs Ser,Sta.	11,000	None		
G.B.Calderwood "D" 1957 S.25th East,S.L.City	Secretary	None	Store Clerk	15,000	None		
C.F.Payne "D" 1830 E.17th S. S.L.City.	Mem Board	None	Expert Mechanic	3,100	None		
J.W.Calderwood 143 Hawkes Ct.S.L.City	Mem.Board	None	Operates City Bus	12,000	None		
J.M.Calderwood				67,000			
S.B.Tuttle				41,640			
Dr.E.L.Skidmore				71,000			
Louis E.Goff				50,000			
F.A.Polson				30,000			
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$ 25,000.00	$ 21,272.28	$ 0.02.	1,063.614	None
Preferred stock	$ None	$ None	$ None	None	

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)	Lead, Zinc Silver	10-12 T Pb - ag 3T Pb,zn,ag.	None	None	
2. Quantity of product processed (specify unit of measure and type of process)	None				
3. Quantity and grade of product sold or shipped (specify units of measure)	None				

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change. Not until we encounter more ore than we now have available.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

Form MF-103
(April 1951)

U. DEPARTMENT OF THE INTER
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. dma-839X

Date received 5/7/51

Participation

TINTIC OUTPOST MINING COMPANY
825 South Tenth East Street,
Salt Lake City 2, Utah.

Name and address of applicant

Date April 18, 1951

FILL IN THIS BLOCK

Date of application April 18, 1951

Estimated cost $35,000.00

Mineral or metal Lead, Zinc, Silver, (Gold ?)

Percentage of Government participation Full amount.

Location of mine Mount Nebo Mining District, in Utah County and Juab County, Utah.

Date of filing MF-100 April 18, 1951.

DMA Docket Number, if available dma-839X Not available.

INSTRUCTIONS

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

THE APPLICANT

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

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

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

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

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THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.
    (*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

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

*11. State the present and former names of the property, if any.
*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.
*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.
*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.
15. State in detail how the ore could be shipped and how and where milled.
*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.
*17. Production:
    (*a*) If mine is in production, furnish the following information:

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

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

THE EXPLORATION

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

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

THE REQUIREMENTS AND COSTS

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

CERTIFICATION

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

---------- By ----------
(Name of company) (Signature of authorized official)

---------- ----------
(Date) (Title)

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

*Same as footnote on page 1.

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

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. Dma-839 X

Date received 5/7/51

TINTIC OUTPOST MINING COMPANY
825 South Tenth East Street,
Salt Lake City 2, Utah

Name and address of applicant

Date April 18, 1951.

INSTRUCTIONS

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

GENERAL TECHNICAL DATA

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

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

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

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

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

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

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
J.M.Calderwood "D" 825 S.10th East,S.L.City	President and Gen'l Mjr.	None	No Surplus	67,000	None	Only Employees	
Julius Reichert "D" 1563 S.5th E.Salt Lake City	Vice Pres.	None	Runs Ser.Sta.	11,000	None		
G.B.Calderwood "D" 1957 S.25th East,S.L.Cty.	Secretary	None	Store Clerk	15,000	None		
C.F.Payne "D" 1830 E.17th S. S.L.City	Mem.Board	None	Expert Mechanic	3,100	None		
J.W.Calderwood "D" 143 Hawkes Ct.S.L. City	Mem.Board	None	Operates City Bus	12,000	None		
J.M.Calderwood				67,000			
S.B.Tuttle				41,640			
Dr.E.L.Skidmore				71,000			
F.A.Polson				30,000			
Louis E.Goff	Total		x x x x x	50,000		x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$ 25,000	$ 21,272.28	$ 0.02	1,063,614	None
Preferred stock	$ None	$ None	$ None	None	

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)	Lead, Zinc, Silver	10-12 T Pb- Ag 3T Pb,Zin,Ag.	None	None	
2. Quantity of product processed (specify unit of measure and type of process)	None				
3. Quantity and grade of product sold or shipped (specify units of measure)	None				

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change. Not until we encounter more ore than we now have available.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

(b) If deposit is other than placer:

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

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

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)	Not determined	Lead 20% Silver 8 oz. Zinc 20%	$69.00	Yet to be proved	Can't tell till ore opened
Indicated (probable)	Ore not sufficient yet.				

(c) If placer:

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

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

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

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

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

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

13. Access Roads:

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

14. Water Supply:

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

15. Power:

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

16. Labor:

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

17. Equipment and Facilities:

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

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

CERTIFICATION

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

Tintic Outpost Mining Company
(Name of company)

By J. B. Goalderwood
(Signature of authorized official)

April 18, 1951
(Date)

President
(Title)

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

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

Ama-839 X

GENERAL TECHNICAL DATA

1. Material produced:
   (a) The chief products of mine are lead, zinc and silver.
   (b) The byproducts are iron of low grade, used for flushing.

GENERAL INSPECTION DATA

Tonto Outpost Mining Company

8. Our operations thus far have been confined to drilling operation.

(a) Linear feet of drifts are about 140 feet; one 90 feet and one 50 feet. The latter was made from the end of a 10-foot drift 30 feet down the 90-foot incline-shaft. This 50-foot drift followed the lead and in a sort of zig-zag fashion all the way down. It was made before the 90-foot shaft was completed beyond the 30 foot drift.

(b) Linear feet of drifts and crosscuts. At a point 350 feet in from the portal of the tunnel (c) a distance of about 10 feet drift was made along a 3 foot vein.

(c) Linear feet of tunnels: The main tunnel is completed a distance of 1450 feet; another tunnel some 150 feet north of the incline is about 40 feet.

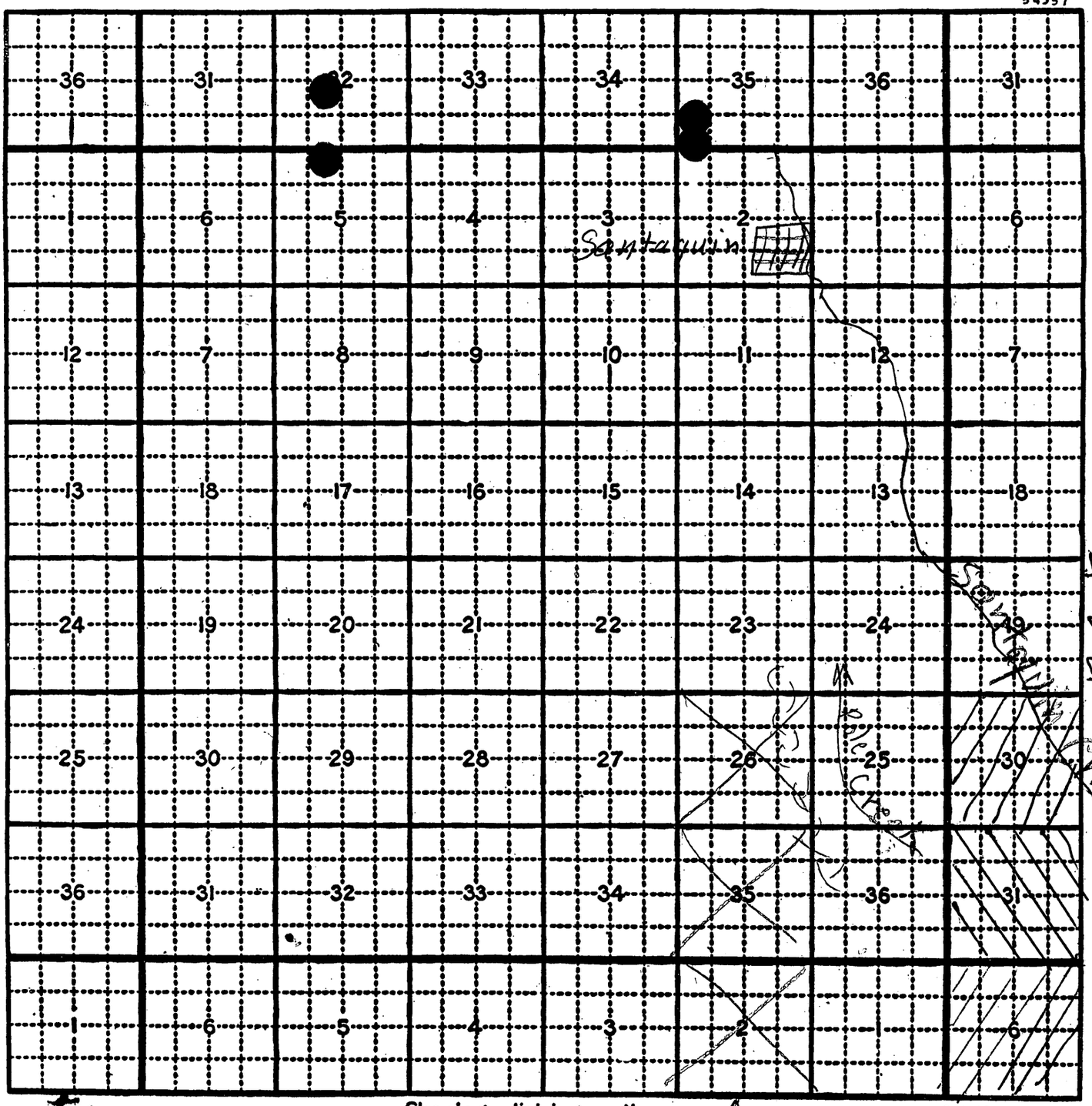
(d) Directly over the mountain motorly we have pit some 30 feet deep in a wide ferruginous lime bed; and north of the shaft (b) we sank a shaft a depth of 12 feet in iron. The mine is not flooded; no pumping problems.

N.

DI-10
(Approved December 1941)

Township No. 10 S Range No. 1 E, _____ Mer.

54357



Showing adjoining sections

Scale 80 chains to an inch
0 20 40 60 80

This territory, or claims within it belong to the Cedar Queen Mining Company, and ours are East and Southeast of these by one mile on the West slope, i.e. of Sec. 26, and 35.

J.M. Calderwood.

Office Subject Dialog Glossary

5. From each question block above supply the following:

(a) Distance and direction from nearest town or display point.

[illegible]

(b) [illegible] of our dialog [illegible] in the Dialog/Data Dialog Notebook, that is either [illegible] the Dialog Data Dialog Notebook.

(c) As far as one is [illegible] Case copy and [illegible] which [illegible] in the Dialog Notebook of that [illegible] City, the dialog [illegible] are located in [illegible] A, B, C, D, E and F. But if this designation is [illegible] and [illegible] is later if surveyed.

(d) In [illegible] distances [illegible] on the first page of the [illegible] in [illegible] County [illegible] on the [illegible] page in [illegible] County and [illegible] on the first page in [illegible] County, [illegible] ambiguous dialog.

CLEVELAND CONSULTING, INC.

Cinco Support Mining Company

4. (a) State whether or not the property is now in operation, by them operated. The property is not now in operation. Will be about May 15, 1951. We discontinued operation last September owing to lack of funds.

(b) Are you operating the property as owner, lessee or contractor? As owner. We generally contract our work on a footage basis, we furnish and deliver.

GENERAL TECHNICAL DATA

Tintic Outpost Mining Company

5. Number of years in production.

We have produced about 12 tons,but have never shipped any. With capital enough available to permit of operation at the main tunnel and also at the hoisting,we estimate that we could be shipping from both of these operations within two years. But what we highly desire is to operate from both sides of the mountain and in that way cut all the veins and mineralized beds lying between these two operations. We could operate only one shift in the main tunnel,as it requires practically all night for elimination of the gas and smoke to completely clear out;but we could use two shifts at all times on the west slope operation. Because of the open water courses in the tunnel we have found it unnecessary to install gas elimination pipe thus far.These water courses occur in a number of places and serve as ventilators for free admission of air. My belief is that with these two operations of continuous work six days per week,we could connect these two operations easily during the two workable seasons of the two years,or within 12 months. This completed would relieve us of all snowslides,canyon washouts,and cut our hauling distance by half.We have proven the quality of our ore,that it is very high grade,and with that 500 foot bed of ferruginous lime- one of the best in nature for ore replacement,we can envision in a measure the tremendous tonnage ore that should respond to such development. One prominent engineer has said,that this quality of lime with its present content of iron,has never failed of making good in the history of mining in Utah. Our desire is that we might be favored with capital enough to get this body of ore opened up. It would be a welcome climax to our long and vexatious struggle toward success.

GENERAL TECHNICAL DATA

Tintic Outpost Mining Company

6. Experience of operators: The Tintic Outpost Mining Company's operations have been
(a) limited to the experience as set forth in preceding pages.
(b) Our president and general manager, J.M. Calderwood, has been in charge of operations practically all the time since our company was organized in 1922. During about ten years of this time he, with his helpers, did the practical drilling by hand tools, shoeing and mucking. He also did the timbering there necessary. He has also done practical mining for seven years at two other properties in the Ruby Mining District, and spent most of four years conducting operations in Idaho. He contracted to sink a 200 foot shaft for the Silver Standard Mining Company and with the aid of his assistant did the drilling, loading, blasting, timbering and all else connected therewith. He did more than three-fourths of the blasting and mucking at this operation. He has also had a wide range of experience as road building, railroad grading, and has been in charge of technical highway road construction. He has had a two years course in bookkeeping, kept books for a retail store and in a plumbing supply firm. He has extensively read some of the best books on geology, mining, and ore deposition of American authors. He has had some of the best practical miners and mining engineers of Utah examine the geology, vein structures, lines and other formations on the Tintic Outpost Mining Company's property, and has had the benefit of their experience and suggestions. Operations are carried on at the main tunnel with Gardiner Air Compressor and Ingersoll-Rand Jackhammer.

GENERAL TECHNICAL DATA

Tintic Outpost Mining Company

7. History:

(a) No operation has ever been done on this property except by this company. No suspension of operation except during winter months and one year during the last world war because of massive snowslides which blocked the road. We filed our intention to own and operate as required by Federal regulation during suspension of the need for assessment work. All assessment work filings have been made in Utah County and Juab County records.

(b) The Liberty Lead Mining Company (formerly the Nebo Silver Mining Company) on the west slope of the mountain and directly west of our southernmost claims has opened up a fissure vein of lead, zinc and silver ore, and shipped two railroad car loads to the smelter. This property has been in the prospective stage for over twenty years. The company keep up all assessment work annually.

The Eva Mining Company owns 11 patented lode claims. They have shipped very high grade lead-silver and zinc ore, which netted better than $43 per ton, as stated to me by the manager and president. This vein faulted some 20 years ago and they have never since determined to where it faulted. They recovered better than $225,000 according to the statement of the men who did the mining. This property is about one and one-half miles south of Our Tintic Outpost claims.

The Iris Mining Company, situated just south of the southern end of the Tintic Outpost claims, has just last summer, opened up a body of lead, silver and zinc ore, as reported by their president to me last fall. What values it carries I have not been informed, except that it is a good commercial ore.

The Nebo Highland Mining Company, whose property lies between the Eva Mining Company's property and that of the Liberty Lead Mining Company's property, has shipped several car loads of high grade ore -lead and silver, years ago.

The Union Chief Mine, northwest of the Tintic Outpost's claims, has shipped more than $125,000 of ore, but has not been shipping for several years. I understand this company's claims are all patented. The Union Chief claims are about four miles from the Tintic Outpost claims.

The Lowland Tunnel Mining Company's property lies on the west side of the mountain, was well equipped with modern mining machinery and made a 1500-foot tunnel extending easterly but has not as yet encountered any commercial ore. Nor has work been carried on during the past 15 or 20 years. Judging from the position of the portal of their tunnel, I would say that, owing to the dip of the strata, they would have to extend the tunnel several more hundred feet before they could encounter any visible ore bearing beds or veins, as the formations dip at about a 50 degrees easterly pitch. Or they could upraise.

Several other properties have been under operation heretofore and some recently, but I do not know much about their history or extent of development, except as to the Syndicate Mining Company adjoining the Union Chief claims on the North. They have encountered some lead-silver ore and shipped a few car loads, as reported by the owners.

GENERAL TECHNICAL DATA

Tintic Outpost Mining Company

7.Continued. (c) We have never received any written reports by mining engineers or any one else except my own,and it is now long past up-to-date material. However,you have in your files a report by Mr.Guy Crane,of about 1942,as I remember. He made an examination of all workings down to that time,but since which we have made the additional work as mentioned in my application for a loan which you have at hand and which brings it up to date so far as developments and values encountered go.

Briefly stated our company owns by location 18 unpatented lode mining claims,15 of which are on the East slope of the Wasatch Range of mountains,and 3 claims on the West slope. The geology consists of numerous beds of various limes,similar to those of the Tintic Mining District,and quartzite beds,porphyry,shale (pink and black) . There are five bedded veins and two transverse fissure veins outcropping on our claims. The title to all of these claims is valid and free from any kind of indebtedness,lien,or other adverse claim These claims are about 80 miles southerly from Salt Lake City,in the Mount Nebo Mining District,16 of which claims are in Utah County,and two in Juab County,Utah.

The ore thus far encountered is high grade lead,zinc and some silver.At the surface one assay gave 71.6 % lead and 15.3 ounces silver,a galena ore. The oxide ore carried at the surface an average of 25% lead,18 to 26 % zinc,and 8 ounces silver. From the incline our ore was a mixture of galena,cerrusite lead and small amounts of silver. We sunk a wing 9 feet deep at one place near the entrance of the incline,or about 25 feet down,which carried only zinc by assay ,or it ran 22½ % zinc with a fairly good showing of oxidized iron. We have not explored this region any farther as yet. The vein is lead-silver on the west, with no zinc,and on the east side of the vein it is zinc and no lead or silver. Nature has done a good job in our behalf. Many assay returns from the lead-silver portion is very high grade running from 55% lead to 65%,and 9 ounces silver. We have not sunk any additional shaft on the zinc side of the vein. This vein appears to split where the zinc occurs,but of that we must add additional work,to find out definitely.

As stated in my former application for this loan,I mentioned about all of the other ore showings both in the tunnel and in the 300-foot wide ferrugenous lime bed on the west side of the mountain. This quality of lime and so heavily ironized,said one of the U.S.Smelter engineers,has never failed of making good in the history of mining in Utah The original owner of this big lime bed showed me three tomatoe cans full of rich galena ore which he said came from that lime bed,and which none could dispute because he had just that minute come down from his property when I saw him.His horse was not yet unsaddled.

From reports brought to me by three separate mining men there is rich gold ore on our property,in a 12 foot,blue quartz vein. One of these men has indicated to me that he wanted to prospect that quartz vein for one week this coming spring before he will commit himself as to where this vein is.But he said he would offer to our Tintic Outpost Company a proposition which we could either accept or reject. We have never seen that vein as yet,but intend to prospect for it within the next sixty days,if the other fellow has not already come to us with his offer. Taken all-in-all it looks like we have in the making one of Utah's very large mines,but we need capital to make it. During the last five years most of our money has come from two assessments of only one mill per share each per year. It never brings us more than $1800.00 from the two assessments. We need help.

GENERAL TECHNICAL DATA

Tinkie Outpost Mining Company

12. Ore or Mineral Reserves:

(a) The ore thus far encountered has been principally in the 90-foot incline, about 700 feet above the portal of the main tunnel. This ore was a combination of galena and cerussite or crystalized lead and the regular carbonate ore, assays of which run from 20% lead and 8 oz silver to upwards of 70% lead and 10 oz silver. We have not tested for the average, but it was all good commercial ore. From this development we about 10 to 12 tons, part of which was carried away by a mudslide in 1943. This incline followed the ore as mentioned under "History" 8.

I might state here that the very high grade ore we mined from near the surface at the 40-foot tunnel 125 feet North of the incline failed to continue to a depth of more than 7 or 8 feet, the gangue changing from a blackish lime to a soft brownish lime which carried not more than 3% lead and some oxidized iron. But the breast of this tunnel is beginning to become harder again and with better indications of mineralization. We intend to extend this tunnel some 30 feet or more to determine whether or not the high grade values will return. For further data see under History 7 a.

The geology, as stated before, consists of numerous types of lime - white, gray, coal-black, and brown, with five beds of quartzite 20 to 30 feet wide. At one place on our ground we have a 30-foot bed of extremely hard formation (new to me) that carries a heavy gray iron, on the hanging wall of which is a 16-foot bed of black shale. In this hard formation we find considerable quartz and one 10" seam of white. We have not explored these formations except to break off surface samples at numerous points. These formations deserve further exploration later.

13. Access Roads:) Since our property is on the Forest Reserve the Government maintains the road through Cantequin Canyon a distance of six miles. For the most part the canyon is quite narrow with ledges on either side, but at intervals widens out to permit of trucks to freely pass each other. Five bridges span the stream. We maintain the pack-trail from the main canyon to our camp. In a few places the trail is rather steep, or it has a pitch of about 50%. We deliver our supplies and machinery on ground sleds or by horse and packsaddle. Our anxious desire is to get our tunnel completely through the mountain which done we could make a fine truck road to the west-end exit at a minimum of cost and shorten our haul by half. We sincerely hope we can have your assistance, for with our meager one-mill assessments we would have a tough time of it, whereas with your backing we could put our main tunnel completely through the mountain within one year by working from both sides of the mountain. These operations would cut at least three visible veins at depths from 900 feet to over 1000 feet including that huge 500-foot bed and also determine if the rich gold vein (as reported by three seperate mining men) were really there.

14. Water Supply. We have plenty of seepage water in the tunnel for all mining and culinary needs; but a sufficient stream for all purposes flows down Water Hollow over two of our claims. This stream is about one-fourth mile easterly from our tunnel, at the base of the mountain. There is ample conifer and aspen timber on our ground for all mining and building purposes.

GENERAL TERRITORIE DATA

Tintic Outpost Mining Company.

TOTAL ORE AND MINERAL RESERVES

15. Power:
Thus far we use gasoline for running our compressor,engine,and drilling machinery. It requires an average of six gallons to the round of 12 holes,or in five to six hours. We procure our gas at Centaquin and deliver the last two miles in two 10 gal. tanks by pack saddle and horse.

16 Labor:
We contract our labor on a footage basis,generally to one man - he employees as a rule but one helper and sometimes two. The contractor does most of the drilling and both,when there are but two men at work,they both do the mucking.Most of the time either of these men can do the drilling. We have had no timbering during the past 900 feet.

17 Equipment and facilities:
As before stated,we have an Ingersol-Rand jack hammer,a Sullivan Compressor,mine car,steel rails,black iron pipe,air attached to the blacksmith shop for tool sharpening. The machinery is housed in. We have one 246 foot air tank at the Portal of the tunnel and another of the same size 730 feet in the tunnel. We have a 12 x 16 foot tent covered over with corrugated iron which stands up all winter. We never do any development after snowfall and remain shut down till the snow is gone from the road leading to the camp,in the spring time or early summer.

18 There is no particular or unusual conditions or circumstances affecting our operations other than those described above.

APPLICATION FOR AID FOR
EXPLORATION PROJECT

Tintic Outpost Mining Company

THE APPLICANT

8. Financial
Statement.

ASSETS:

18 unpatented lode claims	$25,000.00
Cash in bank and on hand	39.04
Total.	$25,039.04

LIABILITIES:

Capital stock outstanding	1,063,614 shares.
	0.02 par value.
	$21,272.28
Surplus	3,766.76
Total ...	$25,039.04

We have no profits;we never run in debt nor have any losses.

9. This applicant is not financially prepared to invest any amount of money in this proposed project. The only inducements we can offer are our machinery,compressor house and tools,together with the two air receiver tanks, and the strength of the veins and ore showings we have thus far exposed. From all appearances we have in the making one of Utah's big lead-zinc-silver and gold mines.

THE PROPERTY

10. The lode claims directly in the wake of this operation are Peerless Nos.1-2-3-4-9
(a) and 7,on the East slope of the mountain, and Silver Queen (overlaped by Nebo Silver)
& Nos.1-2 ~~3~~ and 4. (This overlaping was done by the locators of the Silver Queen claims/
(b) in order not to appropriate other claims by that same name in that District) . It is our prime objective to extend our main tunnel from about 500 feet south of the north end line of Peerless No.7,thence westerly near where Peerless Nos.1 and 2 end line, thence near where Peerless Nos.3 and 4 endline,thence through Peerless No.9, thence out on the west side of the mountain on Silver Queen No.1 near the East edge of No.4. J.M.Calderwood was the original locator of all 13 Peerless claims,and he purchased for the Tintic Outpost Mining Company the Silver Queen (Nebo Silver) five claims on the East slope of the mountain all of which were incorporated in the Articles of Incorporation of the said company.

13. By converting the used trail into a jeep or light caterpillar road we could haul the ore ~~from~~ to a point where it could be transferred to trucks in two-wheeled trailer or three ton cart. The trucks would from thence haul it to the S.L & L.A. or the D & R. G.railroad siding one mile west of Santaquin and delivered to the International Smelter at Tooele,Utah,the only smelter in Utah that buys zinc ore. Or after we get sufficient money ahead we could install an aerial tram to the truck loading bins.

THE REQUIREMENTS AND COSTS

Tintic Outpost Mining Company

25. (a) Labor: One drill man and two muckers at the main tunnel operation until we open up the ore.After that as many men,and only as many,as would be necessary to mine and otherwise handle the ore and outside operations . We would contract all of this preliminary development work at about $10 to $12 per foot and we furnish all supplies.Last year we paid $11 per linear foot the workmen furnish their grubstake. Any new development could be handled for the first 1 or 2 hundred feet by two men. The incline work would require four men,one driller,one mucker,one to run the hoist and one to bring in the timber for and where necessary for safety. For any of this outside work we would have to pay about $12 to $15 per day,per man.

(b) Supervisors: Until a quantity and quality of ore is developed to necessitate a mine foreman on the job for each shift,the general manager,J.M.Oulderwood would attend to all necessary supervising both underground and on top,without pay. He would want his cost of travel to and from the place of operation paid. A correct book account of all expenditures would be kept by the manager and for the secretary treasurer. When we begin shipping ore,all hands employed would have to be paid the regular amount customary in Utah for such several kinds of work.

(c) No repairs to existing facilities,or buildings at the present time,no structures.

(d) In the event of operations on the west slope of the mountain calculated to open & the ore in that 300-foot bed,and thence to contact the main tunnel from the east (e) slope,we would have to rent or purchase one air compressor,one jackhammer,one air receiver tank,and one V-8 engine,plus all the drill steel,bits,blacksmith forge and anvil,and until fall we could do with a tent and sleeping accomodations. While this work was going on we would build a two room log cabin,shop,etc. All together those necessities would cost approximately $3000.00.

(f) A 75 compressor would rent for $99 per month;the price of a slightly used compressor would cost $1700,or about that,the rental would apply on the purchase price 100% for the first month and 75% of the rental price on all monthly payments thereafter,as today quoted to me by the Western Machinery Company,Salt Lake City. We would not want to rent anything else unless it were an engine for this compressor.

(g) We own outright all machinery,tools and everything else now in use at our mine.

(h) Powder by the 100 lots to one ton lots cost$25;in ton lots it costs $21 per cwt. & Timpinkin bits or Ingersol-Land bits (detachable) we get at $0.40 each .We buy (i) them at the rate of 6 dozen at a time;then recharpen twice for 25 cents apiece. With two operations going we might be able to get our powder wholesale at a very much less cost. Gas will cost 25 cents per gallon,or about $2 per blasting round. 12 rails would cost us wholesale $8 per 100 lbs. new. We can often pick up used rails for less than half that price. 1000 feet of rails would do for 500 feet of drift at a cost of $520.00,plus cost to deliver. 500 feet of 1½" air pipe would cost $200.00,plus cost of delivery. A battery for the compressor would cost $14.

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

APR 12 1951

Mr. J. W. Calderwood, President
Little Cottonwood Mining Company
875 South 10th East Street
Salt Lake City 2, Utah

In reply please
refer to [illegible]-839

Dear Mr. Calderwood:

One of the purposes of the defense production act of 1950 is the encouragement of exploration, development and mining of strategic minerals and metals. Where an applicant has proven reserves of strategic materials, Federal aid in kind may be given through procurement contracts for such materials as are in short supply. On the strength of these contracts, the applicant can obtain private financing in most instances.

The agency recently approved for encouragement of exploration of strategic materials calls for participation on the part of the applicant. For zinc, lead and copper deposits it will be necessary to match Government funds on an equal basis. Funds advanced by the Government will be considered a loan, to be repaid if the exploration is profitable, but to be cancelled if unsuccessful. The details of the plan, explaining the programs that will be eligible for aid funds, the terms and conditions of financing, repayment, and other pertinent information, are enclosed.

A review of your application [illegible]-839 for financial aid in driving your tunnel to intersect the vein at depth indicates your proposal may be considered under this exploration and development program. Details concerning expenditures that will be considered chargeable to exploration aid will be subject to a final determination by negotiation, but as a preliminary approximation, we believe that the program will apply to the total amount of your application, [illegible], less the amount necessary to complete the access raise, which can be handled otherwise.

Before we can proceed further with consideration of your application, which only we may not require a field examination, please indicate your willingness to provide your share of the funds needed to carry out the proposed exploration. Any modification of your tunnel proposal that you may wish to make will be considered, but you should be specific concerning the work you wish to undertake.

Very truly yours,

Otto Herres

[illegible], Chief
Lead-Zinc Branch

ALBrokaw:dro
G: 3-28-51
Copies to: Chief, Lead-Zinc Br.
[illegible] McKnight
L.E. Moon
A.H. Mote
Strobel
Hittendorf
Files

Enclosures

Copies to: J. W. Nast, Jr. (2)
Region IV

LANDON F. STROBEL

823 SO.10th East St.,
Salt Lake City 2,Utah,
March 7,1951.

Mr.James Boyd,
Geol.Service Administration,
Washington,D.C.

Dear Mr.Boyd:-

The Tintic Outpost Mining Company,a Utah Corporation,of which I am president and general manager,owns a group of unpatented lode mining claims situated in the Mount Nebo Mining District,Utah County and Juab County,Utah,about 80 miles south of Salt lake City. The ore at the surface and for about 90 feet deep in an incline shaft is lead and zinc with a little silver and less gold thus far discovered. What lead and zinc thus far mined will average between 15% and 22% lead and about the same in zinc. At the bottom of the incline the lead is certainly with some galena mixed with it the only assays I have had run gave 22½% lead,no zinc,and 4 oz silver. From the surface about 125 feet north of the incline the ore is lead,20%,zinc 18% and silver from 4 to 8 oz. We have taken out only about three tons of this ore.The highest assay ran 71.3 % lead,26% zinc and 13.6 oz silver.

We have made a tunnel about 1,250 feet long from a point some 700 feet below the veins;and since the dip of the veins and the general formations dip at about 30 % away from us,it is evident that the total distance we have to drive the tunnel will be in the neighborhood of 1,400 feet. At that depth we should tap these veins fully 900 feet deep. But since our operations during the past three to five years has been done on very small assessments (1 mill each and two per year) it makes headway very slow. For that reason,and feeling well assured of having a very big producing mine of these two strategic ores when we reach these veins,we need financial help.

We have another very wide (300 ft.) formation lime bed near the top of the mountain,on the opposite side from our tunnel,which dips towards us and at the surface of which are showings of lead,silver and zinc. Our tunnel will tap this bedded vein fully 1000 feet deep,and because of the texture of the lime and its highly mineralization at the surface,it is the opinion of practical miners and geologists that we will have in this vein alone one of Utah's largest producing mines of zinc,lead and silver. And why not,the geology is there,the iron capping with some lead and zinc showing at the surface,all things presents such an appealing situation that no one could help but swing to work and make of this situation the mine it is sure to make at the earliest possible time.

In order to push our tunnel to all of these outcropping veins and make two roads,one on the east side of the mountain to our tunnel,and one on the west side to contact the tunnel when we get it through the mountain;it will require about $35,000.00. This outlet for our ore from west side of the mountain will reduce the haulage by about 5 miles. It will also do away with a dangerous snowslide in one of the canyons and make the road grade less than one-half the grade we have on the east side.

We are fully equipped with modern machinery at the tunnel work;we are entirely free from debt of any kind and if the Government will make us the loan as above,we will be able to push our tunnel to all these veins mentioned,which should bring into production one of the truly big producing mines of Utah this coming summer. Without this loan it would require at least five or more years to accomplish the same work and results.

We are applying therefore to your department to make us this loan and let us open up this mine in quantity,for our strategic ores these strategic ores now,and with this moderate loan we can push the work [illegible]

Sincerely yours,

[illegible]

MAR 19 1951
Here — reply

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

January 31, 1951

Mr. Louis J. Monter
President
Tintic Prince Mining Corporation
1232 South State Street
P. O. Box 476
Salt Lake City, Utah

Dear Mr. Monter:

This will acknowledge receipt of your letter of January 18, and a letter of the same date from Frank I. Perkins relative to information on Government assistance available to mining enterprises under the Defense Production Act of 1950.

Federal aid to expand productive capacity and supply of strategic and critical minerals, as provided in the Defense Production Act of 1950 is taking the following forms:

1. Purchase contracts made by the General Services Administration on projects certified by the DMA.

2. Accelerated amortization of equipment allowed under the tax laws to operations having certificates of necessity issued by the National Security Resources Board after investigation by DMA.

3. Encouragement of exploration and development.

Procedures for encouragement of exploration and development have not been worked out in detail. When they have, they will be given wide publicity.

Mineral producers unable to expand production without Government assistance should address their request for aid to James Boyd, Administrator, Defense Minerals Administration, Department of Interior, Washington 25, D. C. Certain basic information must accompany each application. In addition to the name and address of the applicant, the name and exact location of the mining property; metal or mineral, and information as to ownership, leases, and detailed descriptions for reaching the property from the nearest town, each application should present the following data:

1. General description of mineral showings.

RHMOTE/ppm
Copy to - Base Metals Branch
R. H. Note
Otto Herres, Chief, Lead-Zinc Div.
J. H. Hedges, Minerals Div.
Ed McKnight, Geological Surv.
C. O. Mittendorf
Files
L. F. Strobel
2 carbons to RegionIV
Mr. J. H. Last, Jr. and
Mr. A. H. Koschmann
U.S. Bureau of Mines
224 Customhouse
Denver, Colorado

2. Known dimensions of the deposit.

3. History of deposit (development work, ore shipments, etc.).

4. Description of mine workings.

5. Sampling and assays (including maps or sketches, if available).

6. Engineer's or geologist's report, if available.

7. Description of surface and underground installations and equipment (hoist, compressors, drilling machines, crushers, mill, milling equipment, offices, housing, etc.).

8. Description of proposed project, including type of assistance desired.

9. Requirements for proposed projects in terms of money, manpower, construction, equipment, supplies, roads, water supply, and time to carry out project.

Inclosed are five copies of NSRB Form 146, Application for Government Loan, as per your request. Please supply the data requested and return four of these schedules to Dr. James Boyd.

I trust this information satisfactorily answers your inquiry. If I can be of further service at any time, please do not hesitate to call upon me.

Very truly yours,

OTTO H. [illegible], Chief
Lead-Zinc Branch, LMA

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. Dma - 839 X

Date received 5/7/51

TINTIC OUTPOST MINING COMPANY
825 South Tenth East Street,
Salt Lake City 2,Utah.

Name and address of applicant

Date April 18,1951

INSTRUCTIONS

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

GENERAL TECHNICAL DATA

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

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

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

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

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

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)	Not Determined	Lead 20% silver 8oz zinc 20%	$ 69.00	Yet to be proved	Can't tell till ore opened
Indicated (probable)	Ore not sufficient				

(*c*) If placer:

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

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

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

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

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

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

13. Access Roads:

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

14. Water Supply:

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

15. Power:

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

16. Labor:

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

17. Equipment and Facilities:

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

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

CERTIFICATION

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

Tintic Outpost Mining Company
(Name of company)

By J. H. Balderwood
(Signature of authorized official)

April 18, 1951
(Date)

President
(Title)

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

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

GENERAL QUESTIONAIRE, PAPA

Pacific Outpost Mining Company

2. Our operations thus far has been confined to drilling operation.

(a) Linear feet of shafts are about 140 feet; one 30 feet and one 50 feet. The latter was sunk from the end of a 12-feet drift 30 feet down the 30-feet incline-shaft. This 50-foot shaft followed the lead ore in a sort of zig-zag fashion all the way down. It was made before the 60-foot shaft was completed beyond the 30 feet drift.

(b) Linear feet of drifts and crosscuts. At a point 320 feet in from the portal of the tunnel (c) a distance of about 13 feet, drift was made along a 5 foot vein.

(c) Linear feet of tunnels: Our main tunnel is completed a distance of 1265 feet; another tunnel some 145 feet north of the incline is about 40 feet.

(d) Directly over the mountain westerly we have pit some 15 feet deep in a wide ferruginous lime bed; and north of the shaft (b) we sank a shaft a depth of 12 feet in iron.

The mine is not flooded; no pumping problems;.

GENERAL STATISTICAL DATA

Tintic Outpost Mining Company

3. From each operation listed above supply the following:

(a) Distance and direction from nearest town or shipping point.

Our main tunnel and incline are each about eight miles from Santaquin City, and one mile additional from the nearest shipping point. Our tunnel and incline are southeasterly from Santaquin. The "pit" on the East slope of the mountain is about four miles from Santaquin. On an air line the tunnel and incline are only about four and one-half miles from Santaquin.

(b) All of our mining claims are in the Mount Nebo Mining District, abot 12 miles easterly from the famous Tintic Mining District.

(c) As far as can be determined from maps and surveyed claims kept in the Federal Building at Salt Lake City, Our mining claims are located in Tp. 10 S. R. 2 E. Sec. 30, 31 and 6. But if this description be wrong, I will rectify it later if surveyed.

(d) We have thirteen claims on the East slope of the mountian in Utah County, three claims on the West slope in Utah County and two claims on the West slope in Juab County, Utah, all contiguous claims.

GENERAL TECHNICAL DATA

Tintic Outpost Mining Company

4. (a) State whether or not the property is now in operation, by whom operated. The property is not now in operation. Will be about May 15, 1951. We discontinued operation last September owing to lack of funds.

(b) Are you operating the property as: Owner, lessee or contractor? As owner. We generally contract our work on a footage basis, we furnish and deliver.

GENERAL TECHNICAL DATA

Tintic Outpost Mining Company

5. Number of years in production.

We have produced about 12 tons,but have never shipped any. With capital enough available to permit of operation at the main tunnel and also at the incline,we estimate that we could be shipping from both of these operations within two years. But what we highly desire is to operate from both sides of the mountain and in that way cut all the veins and mineralized beds lying between these two operations. We could operate only one shift in the main tunnel,as it requires practically all night for elimination of the gas and smoke to completely clear out;but we could use two shifts at all times on the west slope operation. Because of the open water courses in the tunnel we have found it unnecessary to install gas elimination pipe thus far.These water courses occur in a number of places and serve as ventilators for free admission of air. My belief is that with these two operations of continuous work six days per week,we could connect these two operations easily during the two workable seasons of the two years,or within 12 months. This completed would relieve us of all snowslides,canyon washouts,and cut our hauling distance by half.We have proven the quality of our ore,that it is very high grade,and with that 300 feet bed of ferruginous lime- one of the best in nature for ore replacement,we can surmise in a measure the tremendous tonnage ore that should respond to such development. One prominent engineer has said,that this quality of lime with its present content of iron,has never failed of making good in the history of mining in Utah. Our desire is that we might be favored with capital enough to get this body of ore opened up. It would be a welcome climax to our long and vexatious struggle toward success.

GENERAL TECHNICAL DATA

Tintic Outpost Mining Company

6. Experience of operators: The Tintic Outpost Mining Company's operations have been
(a) limited to the experience as set forth in preceding pages.
(b) Our president and general manager, J.E.Coldgrove, has been in charge of operations practically all the time since our company was organized in 1923. During about ten years of this time he, with his helpers, did the practical drilling by hand tools, shooting and mucking. He also did the timbering where necessary. He has also done practical mining for seven years at two other properties in the Tintic Mining District, and spent most of four years conducting operations in Idaho. He successful to sink a 200 foot shaft for the Silver Standard Mining Company and with the aid of his assistant did the drilling, hoisting, blasting, timbering and all else connected therewith. He did more than three-fourths of the blasting and mucking at this operation. He has also had a wide range of experience at road building, railroad grading, and has been in charge of technical highway road construction. He has had a two years course in bookkeeping, kept books for a retail store and in a plumbing supply firm. He has extensively read some of the best books on geology, mining and ore deposition of American authors. He has had some of the best practical miners and mining engineers of Utah examine the geology, vein structures, lines and other formations on the Tintic Outpost Mining Company's property, and has had the benefit of their experience and suggestions. Operations are carried on at the main tunnel with Sullivan Air Compressor and Ingersol-Rand Jackhammer.

GENERAL TECHNICAL DATA

Tintic Outpost Mining Company

7. History:

(a) No operation has ever been done on this property except by this company. No suspension of operation except during winter months and one year durin the last world war because of massive snowslides which blocked the road. We filed our intention to own and operate as required by Federal regulation during suspension of the need for assessment work. All assessment work filings have been made in Utah County and Juab County records.

(b) The Liberty Lead Mining Company (formerly the Nebo Silver Mining Company) on the west slope of the mountain and directly west of our southernmost claims has opened up a fissure vein of lead, zinc and silver ore, and shipped two railroad car loads to the smelter. This property has been in the prospective stage for over twenty years. The company keep up all assessment work annually.

The Eva Mining Company owns 11 patented lode claims. They have shipped very high grade lead-silver and zinc ore, which netted better than $43 per ton, as stated to me by the manager and president. This vein faulted some 20 years ago and they have never since determined to where it faulted. They recovered better than $225,000 according to the statement of the men who did the mining. This property is about one and one-half miles south of Our Tintic Outpost claims.

The Iris Mining Company, situated just south of the southern end of the Tintic Outpost claims, has just last summer, opened up a body of lead, silver and zinc ore, as reported by their president to me last fall. What values it carries I have not been informed, except that it is a good commercial ore.

The Nebo Highland Mining Company, whose property lies between the Eva Mining Company's property and that of the Liberty Lead Mining Company's property, has shipped several car loads of high grade ore -lead and silver, years ago.

The Union Chief Mine, northwest of the Tintic Outpost's claims, has shipped more than $125,000 of ore, but has not been shipping for several years. I understand this company's claims are all patented. The Union Chief claims are about four miles from the Tintic Outpost claims.

The Lowland Tunnel Mining Company's property lies on the west side of the mountian, was well equipped with modern mining machinery and made a 1500-foot tunnel extending easterly but has not as yet encountered any commercial ore. Nor has work been carried on during the past 15 or 20 years. Judging from the position of the portal of their tunnel, I would say that, owing to the dip of the strata, they would have to extend the tunnel several more hundred feet before they could encounter any visible ore bearing beds or veins, as the formations dip at about a 30 degrees easterly pitch. Or they could upraise.

Several other properties have been under operation heretofore and some recently, but I do not know much about their history or extent of development, except as to the Syndicate Mining Company adjoining the Union Chief claims on the North. They have encountered some lead-silver ore and shipped a few car loads as reported by the owners.

GENERAL TECHNICAL DATA

Tintic Outpost Mining Company

7.Continued. (c) We have never received any written reports by mining engineers or any one else except my own,and it is now long past up-to-date material. However,you have in your files a report by Mr.Guy Crane,of about 1942,as I remember. He made an examination of all workings down to that time,but since which we have made the additional work as mentioned in my application for a loan which you have at hand and which brings it up to date so far as developments and values encountered go.

Briefly stated our company owns by location 18 unpatented lode mining claims,13 of which are on the East slope of the Wasatch Range of mountains,and 5 claims on the West slope. The geology consists of numerous beds of various limes,similar to those of the Tintic Mining District,and quartzite beds,porphyry,shale (pink and black) . There are five bedded veins and two transverse fissure veins outcropping on our claims. The title to all of these claims is valid and free from any kind of indebtedness,lien,or other adverse claim. These claims are about 80 miles southerly from Salt Lake City,in the Mount Nebo Mining District,15 of which claims are in Utah County,and two in Juab County,Utah.

The ore thus far encountered is high grade lead,zinc and some silver.At the surface one assay gave 71.6 % lead and 15.3 ounces silver,a galena ore. The oxide ore carried at the surface an average of 25% lead,18 to 26 % zinc,and 8 ounces silver. From the incline our ore was a mixture of galena,cerrusite lead and small amounts of silver. We took a winz 9 feet deep at one place near the entrance of the incline,or about 25 feet down,which carried only zinc by assay ,or it ran 22½ % zinc with a fairly good showing of oxidized iron. We have not explored this region any farther as yet. The vein is lead-silver on the west, with no zinc,and on the eastside of the vein it is zinc and no lead or silver. Nature has done a good job in our behalf. Many assay returns from the lead-silver portion is very high grade running from 35% lead to 65½%,and 9 ounces silver. We have not sunk any additional shaft on the zinc side of the vein. This vein appears to split where the zinc occurs,but of that we must add additional work,to find out definitely.

As stated in my former application for this loan,I mentioned about all of the other ore showings both in the tunnel and in the 300-foot wide ferrugenous lime bed on the west side of the mountain. This quality of lime and so heavily ironized,said one of the U.S.Smelter engineers,has never failed of making godd in the history of mining in Utah. The original owner of this big lime bed showed me three tomatoe cans full of rich galena ore which he said came from that lime bed,and which none could dispute because he had just that minute come down from his property when I saw him.His horse was not yet unsaddled.

From reports brought to me by three separate mining men there is rich gold ore on our property,in a 12 foot,blue quartz vein. One of these men has indicated to me that he wanted to prospect that quartz vein for one week this coming spring before he will commit himself as to where this vein is.But he said he would offer to our Tintic Outpost Company a proposition which we could either accept or reject. We have never seen that vein as yet,but intend to prospect for it within the next sixty days,if the other fellow has not already come to us with his offer. Taken all-in-all it looks like we have in the making one of Utah's very large mines,but we need capital to make it. During the last five years most of our money has come from two assessments of only one mill per share each per year. It never brings us more than $1800.oo from the two assessments. We need help.

GENERAL TECHNICAL DATA

Tintic Outpost Mining Company

12. Ore or Mineral Reserves:

(a) The ore thus far encountered has been principally in the 90-feet incline, about 700 feet above the portal of the main tunnel. This ore was a combination of galena and cerussite or crystalized lead and the regular carbonate ore, assays of which run from 20% lead and 8 oz silver to upwards of 70% lead and 10 oz silver. We have not tested for the average, but it was all good commercial ore. From this development we about 10 to 12 tons, part of which was carried away by a mudslide in 1945. This incline followed the ore as mentioned under "History" 8.

I might state here that the very high grade ore we mined from near the surface at the 40-feet tunnel 125 feet North of the incline failed to continue to a depth of more than 7 or 8 feet, the gangue changing from a blackish lime to a soft brownish lime which carried not more than 3% lead and some oxidized iron. But the breast of this tunnel is beginning to become harder again and with better indications of mineralization. We intend to extend this tunnel some 20 feet or more to determine whether or not the high grade values will return. For further data see under History 7 a.

The geology, as stated before, consists of numerous types of lime - white, gray, coal-black, and brown, with five beds of quartzite 20 to 50 feet wide. At one place on our ground we have a 30-feet bed of extremely hard formation (new to me) that carries a heavy gray iron, on the hanging wall of which is a 16-foot bed of black shale. In this hard formation we find considerable quartz and one 10" seam of schist. We have not explored these formations except to break off surface samples at numerous points. These formations deserve further exploration later.

13. Access Roads: Since our property is on the Forest Reserve the Government maintains the road through Santaquin Canyon a distance of six miles. For the most part the canyon is quite narrow with ledges on either side, but at intervals widens out to permit of trucks to freely pass each other. Five bridges span the stream. We maintain the pack-trail from the main canyon to our camp. In a few places the trail is rather steep, or it has a pitch of about 30%. We deliver our supplies and machinery on ground sleds or by horse and packsaddle. Our anxious desire is to get our tunnel completely through the mountain which done we could make a fine truck road to the west-end exit at a minimum of cost and shorten our haul by half. We sincerely hope we can have your assistance, for with our meager one-mill assessments we would have a tough time of it, whereas with your backing we could put our main tunnel completely through the mountain within one year by working from both sides of the mountain. These operations would cut at least three visible veins at depths from 900 feet to over 1000 feet including that huge 300-feet bed and also determine if the rich gold vein (as reported by three seperate mining men) were really there.

14. Water Supply. We have plenty of seepage water in the tunnel for all mining and culinary needs; but a sufficient stream for all purposes flows down Water Hollow near two of our claims. This stream is about one-fourth mile easterly from our tunnel, at the base of the mountain. There is ample conifer and aspen timber on our ground for all mining and building purposes.

GENERAL TECHNICAL DATA

Tintic Outpost Mining Company.

TOTAL ORE AND MINERAL RESERVES

13. Power:
Thus far we use gasoline for running our compressor, engine, and drilling machinery. It requires an average of six gallons to the round of 12 holes, or in five to six hours. We procure our gas at Santaquin and deliver the last two miles in two illegal, tanks by pack saddle and horse.

15 Labor:
We contract our labor on a footage basis, generally to one man - he employees as a rule but one helper and sometimes two. The contractor does most of the drilling and both, when there are but two men at work, they both do the mucking. Most of the time either of these men can do the drilling. We have had no timbering during the past 900 feet.

17 Equipment and facilities:
As before stated, we have an Ingersol-Rand jack hammer, a Sullivan Compressor, mine car, steel rails, black iron pipe, air attached to the blacksmith shop for tool sharpening. The machinery is housed in. We have one 5x5 foot air tank at the Portal of the tunnel and another of the same size 750 feet in the tunnel. We have a 12 x 16 foot tent covered over with corrugated iron which stands up all winter. We never do any development after snowfall and remain shut down till the snow is gone from the road leading to the camp, in the spring time or early summer.

18 There is no particular [illegible] conditions or circumstances affecting our operations other than those described above.

APPLICATION FOR AID FOR
EXPLORATION PROJECT

Tintic Outpost Mining Company

THE APPLICANT

8. Financial Statement.

ASSETS:

18 unpatented lode claims	$25,000.00
Cash in bank and on hand	39.04
Total.	$25,039.04

LIABILITIES:

Capital stock outstanding	1,063,614 shares. 0.02 par value. $21,272.28
Surplus	3,766.76
Total ...	$25,039.04

We have no profits; we never run in debt nor have any losses.

9. This applicant is not financially prepared to invest any amount of money in this proposed project. The only inducements we can offer are our machinery, compressor house and tools, together with the two air receiver tanks, and the strength of the veins and ore showings we have thus far exposed. From all appearances we have in the making one of Utah's big lead-zinc-silver and gold mines.

THE PROPERTY

10. The lode claims directly in the wake of this operation are Peerless Nos.1-2-3-4-9
(a) and 7, on the East slope of the mountain, and Silver Queen (overlaped by Nebo Silver)
& Nos.1-2 &3 and 4. (This overlaping was done by the locators of the Silver Queen claims/
(b) in order not to appropriate other claims by that same name in that District) . It is our prime objective to extend our main tunnel from about 300 feet south of the north end line of Peerless No.7, thence westerly near where Peerless Nos.1 and 2 end line, thence near where Peerless Nos.3 and 4 endline, thence through Peerless No.9, thence out on the west side of the mountain on Silver Queen No.1 near the East edge of No.4. J.M.Calderwood was the original locator of all 15 Peerless claims, and he purchased for the Tintic Outpost Mining Company the Silver Queen (Nebo Silver) five claims on the West slope of the mountain all of which were incorporated in the Articles of Incorporation of the said company.

13. By converting the used trail into a jeep or light caterpillar road we could haul the ore down to a point where it could be transferred to trucks in two-wheeled trailer or three ton cart. The trucks would from thence haul it to the S.L & L.A. or the D & R. G.railroad sidding one mile west of Santaquin and delivered to the International Smelter at Tooele, Utah, the only smelter in Utah that buys zinc ore. Or after we got sufficient money ahead we could install an aerial tram to the truck loading bins.

THE REQUIREMENTS AND COSTS

Tintic Outpost Mining Company

25. (a) Labor: One drill man and two muckers at the main tunnel operation until we open up the ore. After that as many men, and only as many, as would be necessary to mine and otherwise handle the ore and outside operations. We would contract all of this preliminary development work at about $10 to $12 per foot and we furnish all supplies. Last year we paid $11 per linear foot the workmen furnish their grubstake. Any new development could be handled for the first 1 or 2 hundred feet by two men. The incline work would require four men, one driller, one mucker, one to run the hoist and one to bring in the timber for and where necessary for safety. For any of this outside work we would have to pay about $14 to $15 per day, per man.

(b) Supervisors: Until a quantity and quality of ore is developed to necessitate a mine foreman on the job for each shift, the general manager, J.H. Calderwood would attend to all necessary supervising both underground and on top, without pay. He would want his cost of travel to and from the place of operation paid. A correct book account of all expenditures would be kept by the manager and for the secretary treasurer. When we begin shipping ore, all hands employed would have to be paid the regular amount customary in Utah for such several kinds of work.

(c) No repairs to existing facilities, or buildings at the present time, no structures.

(d) In the event of operations on the west slope of the mountain calculated to open
& the ore in that 300-foot bed, and thence to contact the main tunnel from the east
(e) slope, we would have to rent or purchase one air compressor, one jackhammer, one air receiver tank, and one V-8 engine, plus all the drill steel, bits, blacksmith forge and anvil, and untill fall we could do with a tent and sleeping accomodations. While this work was going on we could build a two room log cabin, shop, etc. All together these necessities would cost approximately $3000.00.

(f) A 75# compressor would rent for $99 per month; the price of a slightly used compressor would cost $1700, or about that, the rental would apply on the purchase price 100% for the first month and 75% of the rental price on all monthly payments thereafter, as today quoted to me by the Western Machinery Company, Salt Lake City. We would not want to rent anything else unless it were an engine for this compressor.

(g) We own outright all machinery, tools and everything else now in use at our mine.

(h) Powder by the 100 # lots to one ton lots cost $23; in ton lots it costs $21 per cwt.
& Timpinkin bits or Ingersol-Rand bits (detachable) we get at $0.40 each. We buy
(i) them at the rate of 6 dozen at a time; then resharpen twice for 25 cents apiece. With two operations going we might be able to get our powder wholesale at a very much less cost. Gas will cost 25 cents per gallon, or about $2 per blasting round. 12# rails would cost us wholesale $3 per 100 lbs. new. We can often pick up used rails for less than half that price. 1000 feet of rails would do for 500 feet of drift at a cost of $320.00, plus cost to deliver. 500 feet of 1½" air pipe would cost $200.00, plus cost of delivery. A battery for the compressor would cost $14.

THE REQUIREMENTS AND COSTS

Tiskis Outpost Mining Company .

24. Furnish a time schedule of the project,etc.

We estimate that the distance through the mountain,at the tunnel elevation,is approximately 3000 feet,of which 1283 are done,with a remaining distance to go of 1717 feet. This remaining footage at $20 per foot would cost $34,340.00,powder,gas etc furnished. Past experience has demonstrated that we can make an average of 4 feet per day in the main tunnel with one shift,and we can make 6 feet per day with two shifts at work on the West slope of the mountain,owing to the fact of our just beginning operations there and the speed of gas and smoke elimination and the shortness of distance in mucking out. At that rate it would take less than 6 months to complete this tunnel through the mountain;but OK in case of any unforeseen interferences or handicaps let us allow 10 months to complete this project,or if weather conditions require it,5 months of each of 2 years. But,as pointed out on page 10,23- (f) to (i)we would have to furnish 1 compressor $1700; 1 jackhammer $220,3500 ft.of rails $1,120,air pipe 1750 ft. $700.00,Engine $ and other items of smaller amounts,such as shovels,picks,hammers,ax,spikes,etc.all of which would be in excess of the $35,000 loan. To raise that surplus cash as work progressed we figure we would be shipping ore before this tunnel project was half done,and besides that it is likely that,with the ore opened up and bringing its returns,we could sell some of our treasury stock at a price commensurate with the net values of our ore. So on that basis we consider that the loan requested would be all we would need to complete the tunnel and enable us to begin paying back our loan.

Before we could begin operations on the West slope of the mountain,we would be obliged to employ a dozer to make a road to the place of operation.We would have an engineer survey the precise distance to the exact spot where this operation must be commenced and with an ascending rise of about 2 or 3 inches per 100 feet to connect the tunnel coming from the East slope of the mountain,and the direct course of this West tunnel.

However,in order to make the footage as outlined,we would have to have this loan within the next thirty dayscor earlier if possible to enable us to get the road made and machinery delivered to the place of operation,in time to get the 5 months work in.

You can depend on us to make every dollar count and do it dollar's worth. My books are open for your inspection for the past eight years. We employ only such hands as we need to accomplish the work at hand,and buy nothing we don't have to have.

Dma - 839X (1)

GENERAL TECHNICAL DATA

1. Material Produced:
   (a) The chief products of mine are lead, zinc and silver.
   (b) The byproducts are iron of low grade, good for fluxing.

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   (b) The byproducts are iron of low grade, good for fluxing.

GENERAL TECHNICAL DATA

Tintic Outpost Mining Company

2. Our operations thus far has been confined to drilling operation.

(a) Linear feet of shafts are about 140 feet; one 90 feet and one 50 feet. The latter was sunk from the end of a 12-foot drift 30 feet down the 90-foot incline-shaft. This 50-foot shaft followed the lead ore in a sort of zigo zag fashion all the way down. it was made before the 90-foot shaft was completed beyond the 30 feet drift.

(b) Linear feet of drifts and crosscuts. At a point 500 feet in from the portal of the tunnel (c) a distance of about 18 feet, drift was made along a 5 foot vein.

(c) Linear feet of tunnels: Our main tunnel is completed a distance of 1283 feet; another tunnel some 125 feet north of the incline is about 40 feet.

(d) Directly over the mountain westerly we have a pit some 15 feet deep in a wide ferruginous lime bed; and north of the shaft (b) we sank a shaft a depth of 12 feet in iron. The mine is not flooded; no pumping problems;.

GENERAL TECHNICAL DATA

Tintic Outpost Mining Company

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GENERAL STATISTICAL DATA

Tintic Outpost Mining Company

3. From each operation listed above supply the following:

(a) Distance and direction from nearest town or shipping point.

Our main tunnel and incline are each about eight miles from Santaquin City, and one mile additional from the nearest shipping point. Our tunnel and incline are southeasterly from Santaquin. The "pit" on the West slope of the mountain is about four miles from Santaquin. On an air line the tunnel and incline are only about four and one-half miles from Santaquin.

(b) All of our mining claims are in the Mounty Nebo Mining District, abot 12 miles easterly from the famous Tintic Mining District.

(c) As far as can be determined from maps and surveyed claims kept in the Federal Building at Salt Lake City, Our mining claims are located in Tp.10 S. R.2 E. Sec. 30, 31 and 6. But if this description be wrong, I will rectify it later if surveyed.

(d) We have thirteen claims on the East slope of the mountian in Utah County, three claims on the West slope in Utah County and two claims on the West slope in Juab County, Utah, all contiguous claims.

Tintic Outpost Mining Company

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(b) All of our mining claims are in the Mount Nebo Mining District, abot 12 miles easterly from the famous Tintic Mining District.

(c) As far as can be determined from maps and surveyed claims kept in the Federal Building at Salt Lake City, Our mining claims are located in Tp. 10 S. R. 2 E. Sec. 30, 31 and 6. But if this description be wrong, I will rectify it later if surveyed.

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GENERAL TECHNICAL DATA

Tintic Outpost Mining Company

4. (a) State whether or not the property is now in operation,by whom operated. The property is not now in operation.Will be about May 15,1951. We discontinued operation last September owing to lack of funds.

(b) Are you operating the property as: Owner,lessee or contractor? As owner. We generally contract our work on a footage basis,we furnish and deliver.

GENERAL TECHNICAL DATA

Tintic Outpost Mining Company

4. (a) State whether or not the property is now in operation, by whom operated. The property is not now in operation. Will be about May 15, 1951. We discontinued operation last September owing to lack of funds.

(b) Are you operating the property as: Owner, lessee or contractor? As owner. We generally contract our work on a footage basis, we furnish and deliver.

GENERAL TECHNICAL DATA

Tintic Outpost Mining Company

5. Number of years in production.

We have produced about 12 tons,but have never shipped any. With capital enough available to permit of operation at the main tunnel and also at the incline,we estimate that we could be shipping from both of these operations within two years. But what we highly desire is to operate from both sides of the mountain and in that way cut all the veins and mineralized beds lying between these two operations. We could operate only one shift in the main tunnel,as it requires practically all night for elimination of the gas and smoke to completely clear out;but we could use two shifts at all times on the west slope operation. Because of the open water courses in the tunnel we have found it unnecessary to install gas elimination pipe thus far.These water courses occur in a number of places and serve as ventilators for free admission of air. My belief is that with these two operations of continuous work six days per week,we could connect these two operations easily during the two workable seasons of the two years,or within 12 months. This completed would relieve us of all snowslides,canyon washouts,and cut our hauling distance by half.We have proven the quality of our ore,that it is very high grade,and with that 300 foot bed of ferruginous lime- one of the best in nature for ore replacement,we can surmize in a measure the tremendous tonnage of ore that should respond to such development. One prominent engineer has said,that this quality of lime with its present content of iron,has never failed of making good in the history of mining in Utah. Our desire is that we might be favored with capital enough to get this body of ore opened up. It would be a welcome climax to our long and vexatious struggle toward success.

GENERAL TECHNICAL DATA

Tintic Outpost Mining Company

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Tintic Outpost Mining Company

6. Experience of operators: The Tintic Outpost Mining Company's operations have been
(a) limited to the experience as set forth in preceding pages.
(b) Our president and general manager, J.M.Calderwood, has been in charge of operations practically all the time since our company was organized in 1928. During about ten years of this time he, with his helpers, did the practical drilling by hand tools, shooting and mucking. He also did the timbering where necessary. He has also done practical mining for seven years at two other properties in the Nebo Mining District, and spent most of four years conducting operations in Idaho. He contracted to sink a 200 foot shaft for the Silver Standard Mining Company and with the aid of his assistant did the drilling, hoisting, blasting, timbering and all else connected therewith. He did more than three-fourths of the blasting and mucking at this operation. He has also had a wide range of experience at road building, railroad grading, and has been in charge of technical Highway road construction. He has had a two years course in bookkeeping, kept books for a ~~a~~ retail store and in a plumbing supply firm. He has extensively read some of the best books on geology, mining and ore deposition of American authors. He has had some of the best practical miners and mining engineers of Utah examine the geology, vein structures, limes and other formations on the Tintic Outpost Mining Company's property, and has had the benefit of their experience and suggestions. Operations are carried on at the main tunnel with Sullivan Air Compressor and Ingersol-Rand Jackhammer.

GENERAL TECHNICAL DATA

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GENERAL TECHNICAL DATA

Tintic Outpost Mining Company

7. History:

(a) No operation has ever been done on this property except by this company. No suspension of operation except during winter months and one year durin the last world war because of massive snowslides which blocked the road. We filed our intention to own and operate as required by Federal regulation during suspension of the need for assessment work. All assessment work filings have been made in Utah County and Juab County records.

(b) The Liberty Lead Mining Company (formerly the Nebo Silver Mining Company) on the west slope of the mountain and directly west of our southernmost claims has opened up a fissure vein of lead, zinc and silver ore, and shipped two railroad car loads to the smelter. This property has been in the prospective stage for over twenty years. The company keeps up all assessment work annually.

The Eva Mining Company owns 11 patented lode claims. They have shipped very high grade lead-silver and zinc ore, which netted better than $43 per ton, as stated to me by the manager and president. This vein faulted some 20 years ago and they have never since determined to where it faulted. They recovered better than $225,000 according to the statement of the men who did the mining. This property is about one and one-half miles south of Our Tintic Outpost claims.

The Iris Mining Company, situated just south of the southern end of the Tintic Outpost claims, has just last summer, opened up a body of lead, silver and zinc ore, as reported by their president to me last fall. What values it carries I have not been informed, except that it is a good commercial ore.

The Nebo Highland Mining Company, whose property lies between the Eva Mining Company's property and that of the Liberty Lead Mining Company's property, has shipped several car loads of high grade ore -lead and silver, years ago.

The Union Chief Mine, northwest of the Tintic Outpost's claims, has shipped more than $125,000 of ore, but has not been shipping for several years. I understand this company's claims are all patented. The Union Chief claims are about four miles from the Tintic Outpost claims.

The Lowland Tunnel Mining Company's property lies on the west side of the mountian, was well equipped with modern mining machinery and made a 1500-foot tunnel extending easterly but has not as yet encountered any commercial ore. Nor has work been carried on during the past 15 or 20 years. Judging from the position of the portal of their tunnel, I would say that, owing to the dip of the strata, they would have to extend the tunnel several more hundred feet before they could encounter any visible ore bearing beds or veins, as the formations dip at about a 30 degrees easterly pitch. Or they could upraise.

Several other properties have been under operation heretofore and some recently, but I do not knoe much about their history or extent of development, except as to the Syndicate Mining Company adjoining the Union Chief claims on the North. They have encountered some lead-silver ore and shipped a few car loads, as reported by the owners.

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GENERAL TECHNICAL DATA

Tintic Outpost Mining Company

7.Continued. (c) We have never received any written reports by mining engineers or any one else except my own,and it is now long past up-to-date material. However,you have in your files a report by Mr.Guy Crane,of about 1942,as I remember. He made an examination of all workings down to that time,but since which we have made the additional work as mentioned in my application for a loan which you have at hand and which brings it up to date so far as developments and values encountered go.

Briefly stated our company owns by location 18 unpatented lode mining claims,13 of which are on the East slope of the Wasatch Range of mountains,and 5 claims on the West slope. The geology consists of numerous beds of various limes,similar to those of the Tintoc Mining District,and quartzite beds,porphyry,shale (pink and black) . There are five bedded veins and two transverse fissure veins outcropping on our claims. The title to all of these claims is valid and free from any kind of indebtedness,lien,or other adverse claim. These claims are about 80 miles southerly from Salt Lake City,in the Mount Nebo Mining District,13 of which claims are in Utah County,and two in Juab County,Utah.

The ore thus far encountered is high grade lead,zinc and some silver.At the surface one assay gave 71.6 % lead and 15.3 ounces silver,a galena ore. The oxide ore carried at the surface an average of 23% lead,18 to 26 % zinc,and 8 ounces silver. From the incline our ore was a mixture of galena,cerrusite lead and small amounts of silver. We sunk a winz 9 feet deep at one place near the entrance of the incline,or about 25 feet down,which carried only zinc by assay ,or it ran 22½ % zinc with a fairly good showing of oxidized iron. We have not explored this region any farther as yet. The vein is lead-silver on the west, with no zinc,and on the east side of the vein it is zinc and no lead or silver. Nature has done a good job in our behalf. Many assay returns from the lead-silver portion is very high grade running from 35% lead to 65½%,and 9 ounces silver. We have not sunk any additional shaft on the zinc side of the vein. This vein appears to split where the zinc occurs,but of that we must add additional work,to find out definitely.

As stated in my former application for this loan,I mentioned about all of the other ore showings both in the tunnel and in the 300-foot wide ferruginous lime bed on the west side of the mountain. This quality of lime and so heavily ironized,said one of the U.S.Smelter engineers,has never failed of making godd in the history of mining in Utah. The original owner of this big lime bed showed me three tomatoe cans full of rich galena ore which he said came from that lime bed,and which none could dispute because he had just that minute come down from his property when I saw him.His horse was not yet unsaddled.

From reports brought to me by three separate mining men there is rich gold ore on our property,in a 12 foot,blue quartz vein. One of these men has indicated to me that he wanted to prospect that quartz vein for one week this coming spring before he will commit himself as to where this vein is.But he said he would offer to our Tintic Outpost Company a proposition which we could either accept or reject. We have never seen that vein as yet,but intend to prospect for it within the next sixty days,if the other fellow has not already come to us with his offer. Taken all-in-all it looks like we have in the making one of Utah's very large mines,but we need capital to make it. During the last five years most of our money has come from two assessments of only one mill per share each per year. It never brings us more than $1800.oo from the two assessments. We need help.

GENERAL TECHNICAL DATA

Tintic Outpost Mining Company

7.Continued. (c) We have never received any written reports by mining engineers or any one else except my own,and it is now long past up-to-date material. However,you have in your files a report by Mr.Guy Crane,of about 1942,as I remember. He made an examination of all workings down to that time,but since which we have made the additional work as mentioned in my application for a loan which you have at hand and which brings it up to date so far as developments and values encountered go.

Briefly stated our company owns by location 18 unpatented lode mining claims,13 of which are on the East slope of the Wasatch Range of mountains,and 5 claims on the West slope. The geology consists of numerous beds of various limes,similar to those of the Tintoc Mining District,and quartzite beds,porphyry,shale (pink and black) . There are five bedded veins and two transverse fissure veins outcropping on our claims. The title to all of these claims is valid and free from any kind of indebtedness,lien,or other adverse claim. These claims are about 80 miles southerly from Salt Lake City,in the Mount Nebo Mining District,16 of which claims are in Utah County,and two in Juab County,Utah.

The ore thus far encountered is high grade lead,zinc and some silver.At the surface one assay gave 71.6 % lead and 15.3 ounces silver,a galena ore. The oxide ore carried at the surface an average of 25% lead,18 to 26 % zinc,and 8 ounces silver. From the incline our ore was a mixture of galena,cerrusite lead and small amounts of silver. We sunk a winz 9 feet deep at one place near the entrance of the incline,or about 25 feet down,which carried only zinc by assay ,or it ran 22½ % zinc with a fairly good showing of oxidized iron. We have not explored this region any farther as yet. The vein is lead-silver on the west, with no zinc,and on the eastside of the vein it is zinc and no lead or silver. Nature has done a good job in our behalf. Many assay returns from the lead-silver portion is very high grade running from 35% lead to 65⅓%,and 9 ounces silver. We have not sunk any additional shaft on the zinc side of the vein. This vein appears to split where the zinc occurs,but of that we must add additional work,to find out definitely.

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GENERAL TECHNICAL DATA

Tintic Outpost Mining Company

12. Ore or Mineral Reserves:

(a) The ore thus far encountered has been principally in the 90-foot incline, about 700 feet above the portal of the main tunnel. This ore was a combination of galena and cernusite or crystalized lead and the regular carbonate ore, assays of which ran from 20% lead and 8 oz silver to upwards of 70% lead and 10 oz silver. We have not tested for the average, but it was all good commercial ore. From this development we about 10 to 12 tons, part of which was carried away by a snowslide in 1945. This incline followed the ore as mentioned under "History" 7 c.

I might state here that the very high grade ore we mined from near the surface at the 40-foot tunnel 125 feet North of the incline failed to continue to a depth of more then 7 or 8 feet, the gangue changing from a blackish lime to a soft brownish lime which carried not more than 5% lead and some oxidized iron. But the breast of this tunnel is beginning to become harder again and with better indications of mineralization. We intend to extend this tunnel some 20 feet or more to determine whether or not the high grade values will return. For further data see under History 7 c.

The geology, as stated before, consists of numerous types of lime - white, gray, coal-black, and brown, with five beds of quartzite 20 to 50 feet wide. At one place on our ground we have a 50-foot bed of extremely hard formation (new to me) that carries a heavy gray iron, on the hanging wall of which is a 16-foot bed of black shale. In this hard formation we find considerable quartz and one 10" seam of schist. We have not explored these formations except to break off surface samples at numerous points. These formations deserve further exploration later.

13. Access Roads: Since our property is on the Forest Reserve the Government maintains the road through Santaquin Canyon a distance of six miles. For the most part the canyon is quite narrow with ledges on either side, but at intervals widens out to permit of trucks to freely pass each other. Five bridges span the stream. We maintain the pack-trail from the main canyon to our camp. In a few places the trail is rather steep, or it has a pitch of about 30%. We deliver our supplies and machiner on ground sleds or by horse and packsaddle. Our anxious desire is to get our tunnel completely through the mountain which done we could make a fine truck road to the west-end exit at a minimum of cost and shorten our haul by half. We sincerely hope we can have your assistance, for with our meager one-mill assessments we would have a tough time of it, whereas with your backing we could put our main tunnel completely through the mountain within one year by working from both sides of the mountain. These operations would cut at least three visible veins at depths from 900 feet to over 1000 feet including that huge 300-foot bed and also determine if the rich gold vein (as reported by three seperate mining men) were really there.

14. Water Supply. We have plenty of seepage water in the tunnel for all mining and cullinary needs; but a sufficient stream for all purposes flows down Water Hollow over two of our claims. This stream is about one-fourth mile easterly from our tunnel, at the base of the mountain. There is ample conifer and aspen timber on our ground for all mining and building purposes.

GENERAL TECHNICAL DATA

Tintic Outpost Mining Company

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GENERAL TECHNICLE DATA

Tintic Outpost Mining Company.

TOTAL ORE AND MINERAL RESERVES

15. Power:
Thus far we use gasoline for running our compressor,engine,and drilling machinery. It requires an average of six gallons to the round of 12 holes,or in five to six hours. We procure our gas at Santaquin and deliver the last two miles in two 11½gal. tanks by pack saddle and horse.

16 Labor:
We contract our labor on a footage basis,generally to one man - he employees as a rule but one helper and sometimes two. The contractor does most of the drilling and both,when there are but two men at work,they both do the mucking.Most of the time either of these men can do the drilling. We have had no timbering during the past 900 feet.

17 Equipment and facilities:
As before stated,we have an Ingersol-Rand jack hammer,a Sullivan Compressor,mine car,steel rails,black iron pipe,air attached to the blacksmith shop for tool sharpening. The machinery is housed in. We have one 3x6 foot air tank at the Portal of the tunnel and another of the same size 750 feet in the tunnel. We have a 12 x 18 foot tent covered over with corrugated iron which stands up all winter. We never do any development after snowfall and remain shut down till the snow is gone from the road leading to the camp,in the spring time or early summer.

18 There is no particular conditions or circumstances affecting our operations other than those described above.

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17 Equipment and facilities:
As before stated, we have an Ingersol-Rand jack hammer, a Sullivan Compressor, mine car, steel rails, black iron pipe, air attached to the blacksmith shop for tool sharpening. The machinery is housed in. We have one 5x6 foot air tank at the Portal of the tunnel and another of the same size 750 feet in the tunnel. We have a 12 x 16 foot tent covered over with corrugated iron which stands up all winter. We never do any development after snowfall and remain shut down till the snow is gone from the road leading to the camp, in the spring time or early summer.

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APPLICATION FOR AID FOR
EXPLORATION PROJECT

Tintic Outpost Mining Company

THE APPLICANT

8. Financial Statement.

ASSETS:

18 unpatented lode claims	$25,000.00
Cash in bank and on hand	39.04
Total.	$25,039.04

LIABILITIES:

Capital stock outstanding	1,063,614 shares.
	0.02 par value.
	$21,272.28
Surplus	3,766.76
Total ...	$25,039.04

We have no profits; we never run in debt nor have any losses.

9. This applicant is not financially prepared to invest any amount of money in this proposed project. The only inducements we can offer are our machinery, compressor house and tools, together with the two air receiver tanks, and the strength of the veins and ore showings we have thus far exposed. From all appearances we have in the making one of Utah's big lead-zinc-silver and gold mines.

THE PROPERTY

10. (a) & (b) The lode claims directly in the wake of this operation are Peerless Nos.1-2-3-4-9 and 7, on the East slope of the mountain, and Silver Queen (overlaped by Nebo Silver) Nos.1-2 ~~a~~3 and 4. (This overlaping was done by the locators of the Silver Queen claims in order not to appropriate other claims by that same name in that District). It is our prime objective to extend our main tunnel from about 300 feet south of the north end line of Peerless No.7, thence westerly near where Peerless Nos.1 and 2 end line, thence near where Peerless Nos.3 and 4 endline, thence through Peerless No.9, thence out on the west side of the mountain on Silver Queen No.1 near the East edge of No.4. J.M.Calderwood was the original locator of all 13 Peerless claims, and he purchased for the Tintic Outpost Mining Company the Silver Queen (Nebo Silver) five claims on the West slope of the mountain all of which were incorporated in the Articles of Incorporation of the said company.

15. By converting the used trail into a jeep or light caterpillar road we could haul the ore down to a point where it could be transferred to trucks in two-wheeled trailer or three ton cart. The trucks would from thence haul it to the S.L & L.A. or the D & R. G.railroad siding one mile west of Santaquin and delivered to the International Smelter at Tooele, Utah, the only smelter in Utah that buys zinc ore. Or after we got sufficient money ahead we could install an aerial tram to the truck loading bins.

APPLICATION FOR AID FOR
EXPLORATION PROJECT

Tintic Outpost Mining Company

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THE REQUIREMENTS AND COSTS

Tintic Outpost Mining Company

23. (a) Labor: One drill man and two muckers at the main tunnel operation until we open up the ore. After that as many men, and only as many, as would be necessary to mine and otherwise handle the ore and outside operations. We would contract all of this preliminary development work at about $10 to $12 per foot and we furnish all supplies. Last year we paid $11 per linear foot the workmen furnish their grubstake. Any new development could be handled for the first 1 or 2 hundred feet by two men. The incline work would require four men, one driller, one mucker, one to run the hoist and one to bring in the timber for and where necessary for safety. For any of this outside work we would have to pay about $12 to $15 per day, per man.

(b) Supervisors; Until a quantity and quality of ore is developed to necessitate a mine foreman on the job for each shift, the general manager, J.M. Calderwood would attend to all necessary supervising both underground and on top, without pay. He would want his cost of travel to and from the place of operation paid. A correct book account of all expenditures would be kept by the manager and for the secretary treasurer. When we begin shipping ore, all hands employed would have to be paid the regular amount customary in Utah for such several kinds of work.

(c) No repairs to existing facilities, or buildings at the present time, no structures.

(d) & (e) In the event of operations on the west slope of the mountain calculated to open the ore in that 300-foot bed, and thence to contact the main tunnel from the east slope, we would have to rent or purchase one air compressor, one jackhammer, one air receiver tank, and one V-8 engine, plus all the drill steel, bits, blacksmith forge and anvil, and until fall we could do with a tent and sleeping accomodations. While this work was going on we could build a two room log cabin, shop, etc. All together these necessities would cost approximately $3000.00.

(f) A 75# compressor would rent for $99 per month; the price of a slightly used compressor would cost $1700, or about that, the rental would apply on the purchase price 100% for the first month and 75% of the rental price on all monthly payments thereafter, as today quoted to me by the Western Machinery Company, Salt Lake City. We would not want to rent anything else unless it were an engine for this compressor.

(g) We own outright all machinery, tools and everything else now in use at our mine.

(h) & (i) Powder by the 100 # lots to one ton lots cost $23; in ton lots it costs $21 per cwt. Timpinkin bits or Ingersol-Rand bits (detachable) we get at $0.40 each. We buy them at the rate of 6 dozen at a time; then resharpen twice for 25 cents apiece. With two operations going we might be able to get our powder wholesale at a very much less cost. Gas will cost 25 cents per gallon, or about $2 per blasting round, 12# rails would cost us wholesale $8 per 100 lbs. new. We can often pick up used rails for less than half that price. 1000 feet of rails would do for 500 feet of drift at a cost of $320.00, plus cost to deliver. 500 feet of 1½" air pipe would cost $200.00, plus cost of delivery. A battery for the compressor would cost $14.

THE REQUIREMENTS AND COSTS

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(f) A 75# compressor would rent for $99 per month; the price of a slightly used compressor would cost $1700, or about that, the rental would apply on the purchase price 100% for the first month and 75% of the rental price on all monthly payments thereafter, as today quoted to me by the Western Machinery Company, Salt Lake City. We would not want to rent anything else unless it were an engine for this compressor.

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THE REQUIREMENTS AND COSTS

Tintic Outpost Mining Company .

24. Furnish a time schedule of the project,etc.

We estimate that the distance through the mountain,at the tunnel elevation,is approximately 3000 feet,of which 1283 are done,with a remaining distance to go of 1717 feet. This remaining footage at $20 per foot would cost $34,340.00,powder,gas etc furnsihed. Past experience has demonstrated that we can make an average of 4 feet per day in the main tunnel with one shift,and we can make 8 feet per day with two shifts at work on the West slope of the mountain,owing to the fact of our just beginning operations there and the speed of gas and smoke elimination and the shortness of distance in mucking out. At that rate it would take less than 6 months to complete this tunnel through the mountian;but in case of any unforeseen interferences or handicaps let us allow 10 months to complete this project,or if weather conditions require it,5 months of each of 2 years. But,as pointed out on page 10,23- (f) to (i)we would have to furnish 1 compressor $1700; 1 jackhammer $250,3500 ft.of rails $1,120,air pipe 1750 ft. $700.00,Engine $ and other items of smaller amounts,such as shovels,picks,hammers,ax,spikes,etc.all of which would be in excess of the $35,000 loan. To raise that surplus cash as work progressed we figure we would be shipping ore before this tunnel project was half done,and besides that it is likely that,with the ore opened up and bringing its returns,we could sell some of our treasury stock at a price commensurate with the net values of our ore. So on that basis we consider that the loan requested would be all we would need to complete the tunnel and enable us to begin paying back our loan.

Before we could begin operations on the West slope of the mountain,we would be obliged to employ a dozer to make a road to the place of operation.We would have an engineer survey the precise distance to the exact spot where this operation must be commenced and with an ascending rise of about 2 or 3 inches per 100 feet to contact the tunnel coming from the East slope of the mountain,and the direct course of this West tunnel.

However,in order to make the footage as outlined,we would have to have this loan within the next thirty days or earlier if possible to enable us to get the road made and machinery delivered to the place of operation,in time to get the 5 months work in.

You can depend on us to make every dollar count and do its dollar's worth. My books are open for your inspection for the past eight years. We employ only such hands as we need to accomplish the work at hand,and buy nothing we don't have to have.

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