FILE COPY
SURNAME:

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

Holderer
Hanson

July 5, 1951

Levan Mining Company
Mr. Leon Newren, Secy.
P. O. Box 111
Provo, Utah

In reply please refer to
DMA-1169X Manganese
Utah County, Utah

Dear Mr. Newren:

Your application for an exploration loan in the amount of $20,000.00 has been considered and found unacceptable for several reasons.

1. You have not furnished any detailed engineering data on which to base an estimate of sufficient tonnage to make the project feasible.

2. The low grade of the manganese content, even with its accompanying content of iron, shows it to have low market value.

3. The area was examined in 1946 by the U. S. Geological Survey at which time the reserves of material assaying 10% manganese or more were very small.

We regret the delay in replying to your application.

Very truly yours,

Tom Lyon

Tom Lyon
Director, Supply Division

FWHanson:bl

CC: Adm. Reading File
Mr. Strobel
Mr. Holderer
Regional Field Team
Files

July 5, 1951

Levan Mining Company
Mr. Leon Meuren, Secy.
P. O. Box 111
Provo, Utah

In reply please refer to
DMA-1169X Manganese
Utah County, Utah

Dear Mr. Meuren:

Your application for an exploration loan in the amount of $20,000.00 has been considered and found unacceptable for several reasons.

1. You have not furnished any detailed engineering data on which to base an estimate of sufficient tonnage to make the project feasible.

2. The low grade of the manganese content, even with its accompanying content of iron, shows it to have low market value.

3. The area was examined in 1946 by the U. S. Geological Survey at which time the reserves of material assaying 10% manganese or more were very small.

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Tom Lyon
Director, Supply Division

FWHanson:bl

CC: Adm. Reading File
Mr. Strobel
Mr. Holderer
Regional Field Team
Files

July 5, 1951

Levan Mining Company
Mr. Leon Newren, Secy.
P. O. Box 111
Provo, Utah

In reply please refer to
DMA-1169X Manganese
Utah County, Utah

Dear Mr. Newren:

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Very truly yours,

Tom Lyon

Tom Lyon
Director, Supply Division

FWHanson:bl

CC: Adm. Reading File
Mr. Strobel
Mr. Holderer
Regional Field Team
Files

July 5, 1951

Index of File to Executive Secretary

DMA-1169X Manganese
Levan Mining Co.
Utah County, Utah

1. 2 Copies Application on Form MF-103, four answer sheets attached.

2. 2 Copies General Technical Data on Form MF-100 with four attached sheets.

3. 1 Copy Review of Application by M. D. Crittenden.

4. 1 Copy Letter, May 11, 1951, Levan Mining Co. to DMA, submitting application and requesting examination of the property by Bureau of Mines and Geological Survey.

July [illegible], 1951

Memorandum

To: Gordon [illegible]. Strobel, Executive Secretary

From: [illegible] Branch

Through: Director, Supply Division

Subject: [illegible], Nevada Mining Company
[illegible] County, Utah

Application for exploration loan in the amount of [illegible], [illegible] is desired.

Applicant has failed to supply necessary engineering data on which to base an estimate of adequate tonnage. Also, the stated content of manganese gives the material a very low market value and indications are that reserves of this low percent material are very small.

[illegible]

[illegible]

[illegible]

Director, Supply Division

[illegible]Hanson:ec

CC: Adm. Reading File
Mr. Strobel
Mr. Holderer
Regional Field Term
Files

Copy

July 3, 1951

Index of File to Exec. Secy.
DMA-1169X Manganese
Levan Mining Co.
Utah County, Utah

1. 2 Copies Application on Form M.F-103, four answer sheets attached
2. 2 Copies General Technical Data on Form-MF-1-00 with four attached sheets
3. 1 Copy Review of Application by M.D. Crittenden.
4. 1 Copy Letter, May 11, 1951, Levan Mining Co to DMA, submitting application and requesting examination of the property by Bureau of Mines and Geological Survey.

May 16, 1951

Mr. Leon Newren, Secretary
Levan Mining Company
P. O. Box 111
Provo, Utah

Subject: DMA 1169X
Re: Exploration Loan -
Post War Mine

My dear Mr. Newren:

Receipt is acknowledged of your application and attachments of May 11, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number 1169X and referred to Mr. P.R. Bradley, Chief, Manganese Branch on May 16, 1951.

In any future correspondence relating to your application, kindly refer to DMA 1169X.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

L.F. STROBEL:Mab
cc: Strobel
Files
Bradley
Lyon

5-17-51

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : P. R. Bradley DATE: June 12, 1951

FROM : M. D. Crittenden

SUBJECT: DMA-1169 X Levan Mining Co.

Applicant has requested a loan of $20,000 to explore a low-grade manganese-iron mine in Utah County, Utah.

The application cannot be approved in its present form because: (1) the product is low-grade 9-15% Mn shipped to Geneva Steel Co. Ore is worth $4.00 to $6.75 per ton. In order to pay back the Government's share of the $20,000 loan requested, it would be necessary to develop approximately 200,000 tons of ore of this grade. (2) The applicant has not furnished any detailed engineering data on which to base the exhibits necessary to write a contract.

Property

The property, known as the Long Ridge, or Trotter mine, is in the W½ of Sec. 29, T. 11 S., R. 1 W. It produced about 1000 long tons of ore averaging 12% Mn. The present proposal is to explore ground adjoining the old workings on the west. The area was examined by the Geological Survey in 1946 but observations were limited almost entirely to the area of operations at that time. Within that area, the reserves of +10% material were very small, ~~but~~ adequate information is not available concerning the area proposed for exploration, but the prospects are regarded as poor.

The application can not be approved in its present form because: (1) the product is low-grade 9-15% Mn shipped to Geneva Steel Co. Ore is worth $4.00 to $6.75 per ton. In order to pay back the Government's share of the $20,000 loan requested, it would be necessary to develop approximately 200,000 tons of ore of this grade. (2) The applicant has not furnished any detailed engineering data on which to base the exhibits necessary to write a contract.

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. 1161 x

Commodity Manganese

Total Amount 20,000

Govt. Participation 15,000

1. Name and Address of Applicant Lemas Mining Co
P.O. Box 111, Provo, Utah

2. Location of Property E½ SE¼ Sec 9, T 11S, R 1W,
Utah County, Utah.

3. Mineral or metal Manganese iron ore. Is it listed in Section 9 of MO-5?
If not, application will be rejected.

4. Geologic probability of discovery—based on data in application
(question #16, 17, 18, 20 and 22)*

Mines or Survey reports, etc., do you rate chances:

a) Good

b) Poor [illegible] 1946

c) None ✓

d) Don't know—needs field examination

e) Is there an alternative and favorable project?
(If so, attach an explanation)

Recommend Reject

5. Is the applicant's right to the property clearly stated?
(question 5, 6, 7)*

6. If applicant is a lessee, is a copy of the lease attached?

Does the lease have sufficient time to run to cover a future

productive period?

*question numbers are those of MF-103

7. Are subordination agreements necessary?_____

a) MF-201?_____

b) MF-202_____

8. From the data presented, does the proposed project appear feasible from the point of view of:

a) Available manpower_____

b) Equipment and supplies_____
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)*_____

d) Water (question 13)*_____

e) Power (question 13)*_____

Is a field check needed on any of these points?_____

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)*_____

_____

Is a field check needed on this point?_____

10. Exhibit A. (questions 21 and 22)*

a) Is the project adequately described?_____

If not, are there sufficient data given so that you can describe the project?_____ If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work?_____

_____

c) Is the proposed work "exploration" under the definition of Section 8, MO-5?_____

If not, what part of it is?_____

_____

_____

_____

Is this part a worthwhile exploration project?_____

d) Are the cost estimates detailed?_____

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data?_____ If so, attach a draft.

e) Are the cost estimates reasonable?_____

f) Should more information be requested from applicant?_____

g) Is a field examination necessary to complete Exhibit A?_____

11. Exhibit B (question 23-d)*

a) Is it applicable?_____

b) If so, are sufficient data furnished?_____ If so, attach a draft.

c) Is a field check needed?_____

12. Exhibit C (question 23-e, f and g)*

a) Is it applicable?_____

b) Sufficient data?_____ If so, attach a draft.

c) Are rents and charges reasonable?_____

d) Is a field check needed?_____ _____

13. Exhibit D (question 23-a, b)*

a) Are there sufficient data?_____

b) Is the schedule adequate for the work proposed?_____

c) Is the schedule excessive for the work proposed?_____

d) Are the proposed wages and salaries reasonable?_____

e) Is a field check needed?_____

14. Exhibit E (question 23-c)*

a) Is it applicable? _____

b) Sufficient data? _____

c) Reasonable? _____

d) Field check needed? _____

15. In your judgment, can the proposed work be done in the proposed time? _____

(All exploration must be completed within two years)

16. If field examination is not needed, attach your recommendation.

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? The value of this ore is on the low-grade side. On this basis the pit would have to produce 300,000 tons to recover the gross value of 30,000 at 1½%. The geologic possibilities are not good for more than 5,000 tons (5 times past production). This is sufficient to recover 75% of the ton.

Conclusion:
Exploration for this low-grade material is not practical.

Reviewed by: M. D. Crittenden

Date June 12 1951

97692

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

July 4, 1951

G. E. C.

Memorandum

To: Landon F. Strobel, Executive Secretary

From: Manganese Branch

Through: Director, Supply Division

Subject: DMA-1169-X, Levan Mining Company
Utah County, Utah

Application for exploration loan in the amount of $20,000.00 is desired.

Applicant has failed to supply necessary engineering data on which to base an estimate of adequate tonnage. Also, the stated content of manganese gives the material a very low market value and indications are that reserves of plus ten percent material are very small.

George B. Holderer
Chief, Manganese Branch

Attachment:

Approved

Director, Supply Division

FILE COPY
SURNAME:

Holden
Hanson

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

July 4, 1951

Memorandum

To: Landon K. Strobel, Executive Secretary

From: Manganese Branch

Through: Director, Supply Division

Subject: [illegible], Lovina Mining Company
Utah County, Utah

Application for exploration loan in the amount of [illegible] is desired.

Applicant has failed to supply necessary engineering data on which to base an estimate of adequate tonnage. Also, the stated content of manganese gives the material a very low market value and indications are that reserves of plus ten percent material are very small.

George

Jim

Attachment

George D. Holderer
Chief, Manganese Branch

Approved

Disapproved

Director, Supply Division

F.Hanson:cc

CC: Adm. Reading File
Mr. Strobel
Mr. Holderer
Regional Field Team
Files

FILE COPY
SURNAME:

Holden
Hanson

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

July 4, 1951

Memorandum

To: Landon K. Strobel, Executive Secretary

From: Manganese Branch

Through: Director, Supply Division

Subject: [illegible]-[illegible], [illegible] Mining Company
Utah County, Utah

Application for exploration loan in the amount of $[illegible] is desired.

Applicant has failed to supply necessary engineering data on which to base an estimate of accurate tonnage. Also, the stated content of manganese gives the material a very low market value and indications are that reserves of plus ten percent material are very small.

George

Jim

Attachment

George D. Holderer
Chief, Manganese Branch

Approved

Director, Supply Division

F.Hanson:cc

CC: Adm. Reading File
Mr. Strobel
Mr. Holderer
Regional Field Team
Files

July 3, 1951

Index of File to Executive Secretary

DMA-1169X Manganese
Levan Mining Co.
Juab County, Utah

1. 2 Copies Application on Form MA-103, four owner sheets attached.

2. 2 Copies General Technical Data on Form MA-100 with four attached sheets.

3. 1 Copy Review of Application by M. D. Crittenden.

4. 1 Copy Letter, May 11, 1951, Levan Mining Co. to DMA, submitting application and requesting examination of the property by Bureau of Mines and Geological Survey.

FILE COPY
SURNAME:

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

May 16, 1951

Mr. Leon Newren, Secretary
Levan Mining Company
P. O. Box 111
Provo, Utah

Subject: DMA 1169X
Re: Exploration Loan
Post War Mine

My dear Mr. Newren:

Receipt is acknowledged of your application and attachments of May 11, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number 1169X and referred to Mr. P.R. Bradley, Chief, Manganese Branch on May 16, 1951.

In any future correspondence relating to your application, kindly refer to DMA 1169X.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

L.F. STROBEL:Mab
cc: Strobel
Files
Bradley
Lyon

LEVAN MINING COMPANY

Dma - 1169 X

P. O. Box 111
Provo, Utah
May 11, 1951

Defense Minerals Administration,
Department of Interior,
Washington 25, D. C.

Gentlemen:

We submit herewith completed Form MF-103 and Form MF-100, applying for government loan to explore our manganese claims in the south end of Utah (county) valley. The estimated cost of the project is $20,000.

We have no maps nor engineering and geological data, but since we are so near the Salt Lake offices of the Bureau of Mines and the Geological Survey, we desire to avail ourselves of their services. If they would notify us in advance of the date they desire to make examination of the property, we will be prepared to accompany them and point out the boundaries and features as we see them.

Respectfully

LEVAN MINING COMPANY

Don Neuren

Secretary

Form MF-103
(April 1951)

U. DEPARTMENT OF THE INTERI
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-1169X

Date received 5/15/51

Participation

LEVAN MINING COMPANY
P. O. BOX 111
PROVO, UTAH

Name and address of applicant

Date May 11, 1951

FILL IN THIS BLOCK

Date of application May 11, 1951

Estimated cost $20,000

Mineral or metal Manganese

Percentage of Government participation 75

Location of mine Mono Mining District, Utah County, State of Utah

Date of filing MF-100 May 11, 1951

DMA Docket Number, if available dma-1169X

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.

13 *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.

14 *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.

17 *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.

7 *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.
per form 100 Q18

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.

Swan Mining Company By Jon Neuvonen
(Name of company) (Signature of authorized official)

May 11, 1951 Secretary
(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

ANSWERS TO QUESTIONS OF
APPLICATION FOR AID FOR AN EXPLORATION
PROJECT, UNDER DEFENSE PRODUCTION ACT

Questions 1 to 5 are answered in MF-100.

Question 6.

There are no liens, claims, or encumbrances against the property.

Question 7. (Inapplicable)

Question 8. See Statement of Assets and Liabilities herewith.

Question 9.

Applicant is prepared to invest in the project money or its equivalent in the sum of $5,000.00, sufficient to pay its share of cost.

Question 10.

(a) Property involved in this exploration project consists of two lode mining claims, namely:

Post War, located July 2, 1943, recorded July 6, 1943 in Book 378 of Mining Claims, Page 147-8, Records of Utah County Recorder, Utah County, state of Utah; and

McGillian, located June 10, 1944, recorded June 16, 1944 in Book 378 of Mining Claims, Page 391, Records of Utah County Recorder, Utah County, state of Utah.

(b) The real property involved in the exploration work and the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted are the same. (See sketch accompanying Form MF-100.)

Question 11. See answer to Question 2 on Form MF-100.

Question 12. " " " " 13 " " "

Question 13. " " " " 14 & 15 "

Question 14. " " " " 17 " "

Question 15.

The ore will be hauled by truck from the mine to the R.R. at Elberta and then consigned to Geneva Steel Company about 35 miles distant.

Question 16. See answer to Question 7 on Form MF-100.

Question 17. " " " " 11 " " "

Question 18. " " " " 12 " " "

Question 19.

Although not high in Mn content, this ore is desireable at Geneva

Steel Company's plant because of its low silica content and no (or negligible amounts)of) zinc, sulphur, phosphorus, and arsenic.

Question 20.

Exploration will open for production a large bedded deposit of manganese ore as described in described in answer to Question 12, Form MF-100.

Question 21.

The proposed work will consist of the following operations and will be completed within eight months after approval of application for loan:

An open cut 500' long, 10' deep, 15' wide;
A tunnel 400' long;
Two drifts of 400';
Two or more raises of about 100'.

Question 22.

Previous production from the deposit was from open cuts where the ore was exposed on the slope of the mountain and was complicated and irregular on account of movement attendant on the upheaval. In order to avoid these complications, applicant will work the more level areas at the base of the mountain. Shallow sampling has shown that the bedding of manganese continues in these areas. The thickness of the bedding can be seen from the exposures on the mountain. The applicant has no supporting maps, but asks that the government's engineers give notice of when they will be able to examine the property, so that its manager, Mr. Trotter, can arrange to go with them to substantiate the statements made. Mr. Trotter, who has examined many manganese showings in Utah and Nevada, believes this one to be of great potential value.

Questions 23 and 24. Requirements and Costs.

TUNNEL. (400')

Labor, 100 days, 3 men @ 12.00 per day	$3600.00
Compensation insurance	250.00
Unemployment and social security taxes	150.00
Dynamite, 2500#	500.00
Fuse and caps	30.00
Mine rail, 2 tons @ $180	360.00
Ties, spikes, fishplates, bolts	53.00
Pipe, 500' 2" black @ .40	200.00
Carbide	12.00
Rent of air compressor, 100 days @ $5	500.00
Jackhammer, 2 sets steel, pusher	650.00
Mine car	100.00
Gasolene and oil	530.00
	6935.00

OPEN CUT.

Stripping overburden to define the course and extent of ore and to develop working places, -

Rent of 3/8 yd. Shovel 25 days @ $40	1000.00
Operator's wages, 25 days @ $18.40	460.00
Payroll taxes and insurance	52.00
Gasolene and oil	100.00

Questions 23 and 24. Requirements and Costs (continued).

OPEN CUT. (Continued from page 2)

Rent of air compressor, 25 days @ $5	$ 125.00
Gasolene and oil for compressor	50.00
Explosives	180.00
	$1967.00

DRIFTS.

400' at same estimate of cost as tunnel	$6185.00

RAISES. (100')

Labor, 16 days, 3 men @ $12	$ 576.00
Compensation insurance	40.00
Unemployment and social security taxes	25.00
Dynamite	45.00
Fuse and caps	8.00
2500' b.m. timber	250.00
Rent of air compressor, 16 days @ $5	80.00
Gasolene and oil	64.00
100' 2" black pipe	40.00
	$1128.00

RENTAL OF PICKUP TRUCK, & gas, oil, & repairs	$ 950.00
SUPERVISION, 8 months @ $350.00	$2800.00
	$3750.00

(Grand total, $19,965.00)

First month:		
Complete open cut	$1967.00	
Complete 100' tunnel	3234.00	
Second month:		
Complete 100' tunnel	1859.00	
Third month:		
Complete 100' tunnel	1859.00	
Fourth month:		
Complete 100' tunnel	1859.00	
Fifth month:		
100' drift	2484.00	
Sixth month:		
100' drift	1859.00	
Seventh month:		
100' drift	1859.00	
Eighth month:		
100' drift	1859.00	
100' raise	1128.00	$19965.00

STATEMENT OF ASSETS & LIABILITIES

MAY 1, 1951

(Question 8)

ASSETS

Cash.	$ 3.76
Accounts Receivable	75.00
Subscription to stock	210.00
Machinery	3060.86
Mining Claims	10010.00
Deferred expenses	36.32
	13395.94
Net loss (deficit)	453.44
	$13849.38

LIABILITIES

Accounts Payable.			$ 99.38
Capital Stock, Authorized,	1,000,000	shares	
Issued	500,000	"	
Outstanding	500,000	"	5000.00
Paid in Surplus			8250.00
Reserve for Depreciation on Machinery			500.00
			$13849.38

Form MF-100
(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-1169X

Date received 5/15/51

Participation

LEVAN MINING COMPANY
P. O. BOX 111
PROVO, UTAH

Name and address of applicant

Date May 11, 1951

FILL IN THIS BLOCK

Date of application May 11, 1951

Estimated cost $20,000

Mineral or metal Manganese

Percentage of Government participation 75

Location of mine Mono Mining District, Utah County, State of Utah

Date of filing MF-100 May 11, 1951

DMA Docket Number, if 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.

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.

Swan Mining Company By Leon Neuman
(Name of company) (Signature of authorized official)

May 11, 1951 Secretary
(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

ANSWERS TO QUESTIONS OF
APPLICATION FOR AID FOR AN EXPLORATION
PROJECT, UNDER DEFENSE PRODUCTION ACT

Questions 1 to 5 are answered in MF-100.

Question 6.

There are no liens, claims, or encumbrances against the property.

Question 7. (Inapplicable)

Question 8. See Statement of Assets and Liabilities herewith.

Question 9.

Applicant is prepared to invest in the project money or its equivalent in the sum of $5,000.00, sufficient to pay its share of cost.

Question 10.

(a) Property involved in this exploration project consists of two lode mining claims, namely:

Post War, located July 2, 1943, recorded July 6, 1943 in Book 378 of Mining Claims, Page 147-8, Records of Utah County Recorder, Utah County, state of Utah; and

McGillian, located June 10, 1944, recorded June 16, 1944 in Book 378 of Mining Claims, Page 391, Records of Utah County Recorder, Utah County, state of Utah.

(b) The real property involved in the exploration work and the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted are the same. (See sketch accompanying Form MF-100.)

Question 11. See answer to Question 2 on Form MF-100.

Question 12. " " " " 13 " " "

Question 13. " " " " 14 & 15 "

Question 14. " " " " 17 " "

Question 15.

The ore will be hauled by truck from the mine to the R.R. at Elberta and then consigned to Geneva Steel Company about 35 miles distant.

Question 16. See answer to Question 7 on Form MF-100.

Question 17. " " " " 11 " " "

Question 18. " " " " 12 " " "

Question 19.

Although not high in Mn content, this ore is desireable at Geneva

Steel Company's plant because of its low silica content and no (or negligible amounts)of) zinc, sulphur, phosphorus, and arsenic.

Question 20.

Exploration will open for production a large bedded deposit of manganese ore as described in described in answer to Question 12, Form MF-100.

Question 21.

The proposed work will consist of the following operations and will be completed within eight months after approval of application for loan:

An open cut 500' long, 10' deep, 15' wide;
A tunnel 400' long;
Two drifts of 400';
Two or more raises of about 100'.

Question 22.

Previous production from the deposit was from open cuts where the ore was exposed on the slope of the mountain and was complicated and irregular on account of movement attendant on the upheaval. In order to avoid these complications, applicant will work the more level areas at the base of the mountain. Shallow sampling has shown that the bedding of manganese continues in these areas. The thickness of the bedding can be seen from the exposures on the mountain. The applicant has no supporting maps, but asks that the government's engineers give notice of when they will be able to examine the property, so that its manager, Mr. Trotter, can arrange to go with them to substantiate the statements made. Mr. Trotter, who has examined many manganese showings in Utah and Nevada, believes this one to be of great potential value.

Questions 23 and 24. Requirements and Costs.

TUNNEL. (400')

Labor, 100 days, 3 men @ 12.00 per day	$3600.00
Compensation insurance	250.00
Unemployment and social security taxes	150.00
Dynamite, 2500#	500.00
Fuse and caps	30.00
Mine rail, 2 tons @ $180	360.00
Ties, spikes, fishplates, bolts	53.00
Pipe, 500' 2" black @ .40	200.00
Carbide	12.00
Rent of air compressor, 100 days @ $5	500.00
Jackhammer, 2 sets steel, pusher	650.00
Mine car	100.00
Gasolene and oil	530.00
	6935.00

OPEN CUT.

Stripping overburden to define the course and extent of ore and to develop working places, -

Rent of 3/8 yd. Shovel 25 days @ $40	1000.00
Operator's wages, 25 days @ $18.40	460.00
Payroll taxes and insurance	52.00
Gasolene and oil	100.00

Questions 23 and 24. Requirements and Costs (continued).

OPEN CUT. (Continued from page 2)

Rent of air compressor, 25 days @ $5	$ 125.00
Gasolene and oil for compressor	50.00
Explosives	180.00
	$1967.00

DRIFTS.

400' at same estimate of cost as tunnel	$6185.00

RAISES. (100')

Labor, 16 days, 3 men @ $12	$ 576.00
Compensation insurance	40.00
Unemployment and social security taxes	25.00
Dynamite	45.00
Fuse and caps	8.00
2500' b.m. timber	250.00
Rent of air compressor, 16 days @ $5	80.00
Gasolene and oil	64.00
100' 2" black pipe	40.00
	$1128.00

RENTAL OF PICKUP TRUCK, & gas, oil, & repairs	$ 950.00
SUPERVISION, 8 months @ $350.00	$2800.00
	$3750.00

(Grand total, $19,965.00)

First month:		
Complete open cut	$1967.00	
Complete 100' tunnel	3234.00	
Second month:		
Complete 100' tunnel	1859.00	
Third month:		
Complete 100' tunnel	1859.00	
Fourth month:		
Complete 100' tunnel	1859.00	
Fifth month:		
100' drift	2484.00	
Sixth month:		
100' drift	1859.00	
Seventh month:		
100' drift	1859.00	
Eighth month:		
100' drift	1859.00	
100' raise	1128.00	$19965.00

STATEMENT OF ASSETS & LIABILITIES

MAY 1, 1951

(Question 8)

ASSETS

Cash		$ 3.76
Accounts Receivable		75.00
Subscription to stock		210.00
Machinery		3060.86
Mining Claims		10010.00
Deferred expenses		36.32
		13395.94
Net loss (deficit)		453.44
		$13849.38

LIABILITIES

Accounts Payable		$ 99.38
Capital Stock, Authorized, 1,000,000 shares		
Issued	500,000 "	
Outstanding	500,000 "	5000.00
Paid in Surplus		8250.00
Reserve for Depreciation on Machinery		500.00
		$13849.38

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 - 1169X

Date received 5/15/51

LEVAN MINING COMPANY
P. O. BOX 111
PROVO, UTAH

Name and address of applicant

Date May 11, 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 _____

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

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

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

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation		Life Insurance Carried for Benefit of Applicant	
				Common (e)	Preferred (f)	Amount (g)	Net Cash Surrender Value After Loans (h)
	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	$10,000	$5,000	$5,000	500,000	none
Preferred stock (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.)	Mn. ore	Est 200	Est 400	Est 150	
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)	Mn. ore	11% Mn and 200 T.	37% Fe 400 T.	- - - 150 T.	

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

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

General Technical Data

1. Materials produced:

(a) The chief mine product will be manganese.

(b) The by-product will be iron.

2. Name and type of mine:

The mine has been called after the name of the mining claim, Post War, and shipments made heretofore have been from open pit operations; but this accompanying application for a government loan contemplates opening the deposit at a different site for both open pit and underground mining of the manganese. At the proposed place of operation there are no (a) shafts, (b) drifts and crosscuts, (c) tunnels or adits, nor (d) other mine workings.

3. (a) Property is located about six miles south of the town of Elberta, Utah County, Utah, about nine miles southeast of the town of Dividend. The D. & R. G. W. R. R. passes through Elberta, where a loading ramp could be readily constructed, or arrangements could be made to use the Chafin loading ramp about 5 miles east of Elberta. A good gravel access road serves the property and connects with the hard surfaced highway at Elberta. The road is maintained by the county.

(b) It is in the Tintic Mining District, sometimes referred to as the East Tintic district or the Mono district.

(c) It is situated in Township 11 South, Range 1 West, Salt Lake Base & Meridian, Sections 8 and 9.

(d) Utah County, state of Utah.

4. The property is not now in operation, but is owned and will be operated by the applicant.

5. Shipments have been made at intervals during the past 20 years, but not from the area that is proposed to be worked. Shipments from the new workings will begin within six months of approval of the application for government loan.

6. (a) The mining and general business experience of the applicant has been limited to leasing its properties during the short time that it has been incorporated. It was chartered under the laws of Utah in September, 1948. The president, Joseph H. Petersen, of Provo, Utah, is a respected citizen of mature judgment, 73 years old, and is also president of Deluxe Mining Co. and West Park Mining Co. Has been a successful woolgrower and horticulturist, but on account of working in the Park City, Utah, mines when a youth has always had a keen interest in mining. The vice president, and manager, S. D. Trotter, worked in the mines of the Tintic District and later operated both as a lessee and as an owner in properties of the Detroit (Drum mountain) District and other districts. He has been connected with the industry for over twenty-five years. The secretary and treasurer, Leon Newren, has been connected with the "Knight" mining interests since 1913, as an accountant, as secretary and treasurer, and a director. He will have charge of applicant's records and accounts. Another director of applicant

is Evan Hansen of Salt Lake City, Utah. He has been associated with the lime burning industry for a number of years and at present manages the Hansen Lime & Stucco Co., 1574 S. West Temple Street, Salt Lake City, Utah.

(b) Management of operations will be under S. D. Trotter, mentioned in item (a).

7. (a) Some surface work has been done on parts of the property, but not where present work is planned. That work opened an irregular deposit from which about 2,000 tons were shipped. Some of the operators were not adequately financed which added to their difficultiies. Present plans do not contemplate further development or exploration at the site of these former workings.

(b) There has been a considerable tonnage of manganese ore shipped from the Tintic District in addition to the hundreds of millions of dollars of other ores. Applicant does not have these figures, but they can be supplied by the Bureau of Mines. Some of the manganese shippers were Iron King Cons. Mining Co., Tintic Standard Mining Co., Chief Cons. Mining Co., Dragon Cons. Mining Co., Tintic Drain Tunnel Co., etc. Applicant's property lies eastward of the most easterly of those shippers.

(c) So far as applicant knows there are no reports available that would apply to this question.

8. Names and addresses of Officers, Directors, and 5 stockholders:

Name and address (a)	Remuneration (b)	Net Worth (c)	Holdings (d)	
(P. & D.) Jos. H. Petersen 895 E. 8th N. Provo, Utah.	none	$60,000.00	25,000	Applicant has no preferred stock, and carries no insurance on officers for its benefit.
(V.P. & D.) S. D. Trotter 561 E. 2nd N. Provo, Utah	"	$10,000.00	200,000	
(Sec-Treas.D) Leon Newren 780 W. 5thN. Provo, Utah	"	$15,000.00	125,000	
(D) Evan W. Hansen 1574 S. West Temple Salt Lake City, Utah	"	$75,000.00	100,000	
(D) S. A. Trotter Goshen Utah	"	$15,000.00	10,000	
LaVon S. Trotter 561 E. 2nd N. Provo, Utah	"		15,000	
Phillip D. Trotter Provo, Utah	"		2,000	
C. L. Rollins Salt Lake City, Utah	"		1,000	
			478,000	

9. Capital Stock Issue. (See Form MF-100)

10. Production. (See Form MF-100)

11. We are not in production, but upon completion of work planned by use of the funds applied for under the accompanying application for loan we expect to produce from underground mining 50 tons daily and from open pit about 100 tons. Ore will need to be sorted to eliminate waste.

12. (a) The deposit of manganese is principally pyrolusite and contains various oxides with a grade of Mn running from 8 to 20%. The iron oxides, hematite and limonite, associated with the ore assay from 35% to 42% Fe and are free from penalizing impurities for steel metallurgy. It is a bedding, presumably the lower Ophir shales and limes, directly above the Tintic (Cambrian) quartzite. The ore is nodular to massive with occasional spots of clay. The bedding dips southeasterly following the general dip of the area about 25% with some local minor fault displacements. Judging from exposures its thickness is about 40 to 70 feet. Applicant has no maps or assay data pertaining to the proposed working area, but attaches hereto a sketch showing the location of the claims. No reserves have been developed. It is the purpose of this loan to explore the showing, determine its immediate prospects, and get into production.

(b) We have no map or prepared section. If the bedding were to average the thickness of 40 feet above mentioned and extended over the entire width and length of the claims, the block would be 40' x 600' x 3000'. We assume a thickness of 25', a width of 400', and a length of 3000' for the indicated tonnage (probable), 3,000,000 tons.

13. Access Roads:

Good gravelled road of 6 miles from mine to highway, and R.R. See also answer to Question 3.

14. Water Supply:

Ample water for culinary and mining purposes can be had at all seasons from the irrigation canal about ½ mile distant.

15. Power:

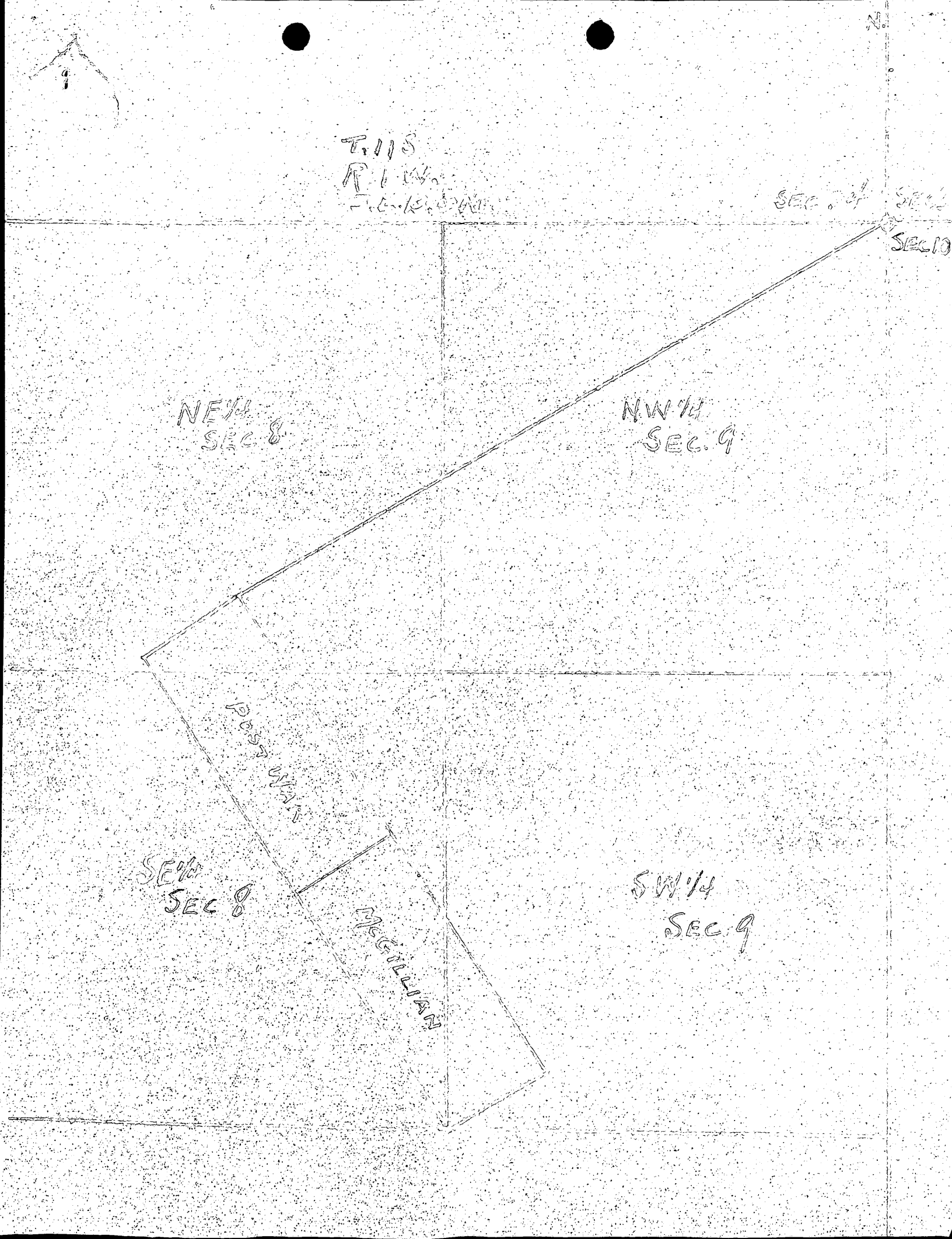
Applicant will use gasolene (or diesel) motors for its machinery.

16. Labor:

Applicant has not been in operation so cannot answer this question.

17. Equipment and facilities:

No buildings or structures on the property. Only equipment available is a 3/8 yd. power shovel.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SEC. 8
SW¼
SEC. 9

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

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

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

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)	3,000,000	20% Mn.	$9.00	45¢	$5.00

(*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.

Swan Mining Company (Name of company) By Leon Neuren (Signature of authorized official)

May 11. 1951 (Date) Secretary (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. dmg-1169X

Date received 5/15/51

LEVAN MINING COMPANY
P. O. BOX 111
PROVO, UTAH

Name and address of applicant

Date May 11, 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 _____

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

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

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

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
	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	$10,000	$5,000	$5,000	500,000	none
Preferred stock (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.)	Mn. ore	Est 200	Est 400	Est 150	
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)	Mn. ore	11% Mn and 37% Fe 200 T.	400 T.	- - - 150 T.	

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

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

General Technical Data

1. Materials produced:

(a) The chief mine product will be manganese.

(b) The by-product will be iron.

2. Name and type of mine:

The mine has been called after the name of the mining claim, Post War, and shipments made heretofore have been from open pit operations; but this accompanying application for a government loan contemplates opening the deposit at a different site for both open pit and underground mining of the manganese. At the proposed place of operation there are no (a) shafts, (b) drifts and crosscuts, (c) tunnels or adits, nor (d) other mine workings.

3. (a) Property is located about six miles south of the town of Elberta, Utah County, Utah, about nine miles southeast of the town of Dividend. The D. & R. G. W. R. R. passes through Elberta, where a loading ramp could be readily constructed, or arrangements could be made to use the Chafin loading ramp about 5 miles east of Elberta. A good gravel access road serves the property and connects with the hard surfaced highway at Elberta. The road is maintained by the county.

(b) It is in the Tintic Mining District, sometimes referred to as the East Tintic district or the Mono district.

(c) It is situated in Township 11 South, Range 1 West, Salt Lake Base & Meridian, Sections 8 and 9.

(d) Utah County, state of Utah.

4. The property is not now in operation, but is owned and will be operated by the applicant.

5. Shipments have been made at intervals during the past 20 years, but not from the area that is proposed to be worked. Shipments from the new workings will begin within six months of approval of the application for government loan.

6. (a) The mining and general business experience of the applicant has been limited to leasing its properties during the short time that it has been incorporated. It was chartered under the laws of Utah in September, 1948. The president, Joseph H. Petersen, of Provo, Utah, is a respected citizen of mature judgment, 73 years old, and is also president of Deluxe Mining Co. and West Park Mining Co. Has been a successful woolgrower and horticulturist, but on account of working in the Park City, Utah, mines when a youth has always had a keen interest in mining. The vice president, and manager, S. D. Trotter, worked in the mines of the Tintic District and later operated both as a lessee and as an owner in properties of the Detroit (Drum mountain) District and other districts. He has been connected with the industry for over twenty-five years. The secretary and treasurer, Leon Newren, has been connected with the "Knight" mining interests since 1913, as an accountant, as secretary and treasurer, and a director. He will have charge of applicant's records and accounts. Another director of applicant

is Evan Hansen of Salt Lake City, Utah. He has been associated with the lime burning industry for a number of years and at present manages the Hansen Lime & Stucco Co., 1574 S. West Temple Street, Salt Lake City, Utah.

(b) Management of operations will be under S. D. Trotter, mentioned in item (a).

7. (a) Some surface work has been done on parts of the property, but not where present work is planned. That work opened an irregular deposit from which about 2,000 tons were shipped. Some of the operators were not adequately financed which added to their difficultiies. Present plans do not contemplate further development or exploration at the site of these former workings.

(b) There has been a considerable tonnage of manganese ore shipped from the Tintic District in addition to the hundreds of millions of dollars of other ores. Applicant does not have these figures, but they can be supplied by the Bureau of Mines. Some of the manganese shippers were Iron King Cons. Mining Co., Tintic Standard Mining Co., Chief Cons. Mining Co., Dragon Cons. Mining Co., Tintic Drain Tunnel Co., etc. Applicant's property lies eastward of the most easterly of those shippers.

(c) So far as applicant knows there are no reports available that would apply to this question.

8. Names and addresses of Officers, Directors, and 5 stockholders:

Name and address (a)	Remuneration (b)	Net Worth (c)	Holdings (d)	
(P. & D.) Jos. H. Petersen 895 E. 8th N. Provo, Utah.	none	$60,000.00	25,000	Applicant has no preferred stock, and carries no insurance on officers for its benefit.
(V.P. & D.) S. D. Trotter 561 E. 2nd N. Provo, Utah	"	$10,000.00	200,000	
(Sec-Treas.D) Leon Newren 780 W. 5thN. Provo, Utah	"	$15,000.00	125,000	
(D) Evan W. Hansen 1574 S. West Temple Salt Lake City, Utah	"	$75,000.00	100,000	
(D) S. A. Trotter Goshen Utah	"	$15,000.00	10,000	
LaVon S. Trotter 561 E. 2nd N. Provo, Utah	"		15,000	
Phillip D. Trotter Provo, Utah	"		2,000	
C. L. Rollins Salt Lake City, Utah	"		1,000	
			478,000	

9. Capital Stock Issue. (See Form MF-100)

10. Production. (See Form MF-100)

11. We are not in production, but upon completion of work planned by use of the funds applied for under the accompanying application for loan we expect to produce from underground mining 50 tons daily and from open pit about 100 tons. Ore will need to be sorted to eliminate waste.

12. (a) The deposit of manganese is principally pyrolusite and contains various oxides with a grade of Mn running from 8 to 20%. The iron oxides, hematite and limonite, associated with the ore assay from 35% to 42% Fe and are free from penalizing impurities for steel metallurgy. It is a bedding, presumably the lower Ophir shales and limes, directly above the Tintic (Cambrian) quartzite. The ore is nodular to massive with occasional spots of clay. The bedding dips southeasterly following the general dip of the area about 25% with some local minor fault displacements. Judging from exposures its thickness is about 40 to 70 feet. Applicant has no maps or assay data pertaining to the proposed working area, but attaches hereto a sketch showing the location of the claims. No reserves have been developed. It is the purpose of this loan to explore the showing, determine its immediate prospects, and get into production.

(b) We have no map or prepared section. If the bedding were to average the thickness of 40 feet above mentioned and extended over the entire width and length of the claims, the block would be 40' x 600' x 3000'. We assume a thickness of 25', a width of 400', and a length of 3000' for the indicated tonnage (probable), 3,000,000 tons.

13. Access Roads:

Good gravelled road of 6 miles from mine to highway, and R.R. See also answer to Question 3.

14. Water Supply:

Ample water for culinary and mining purposes can be had at all seasons from the irrigation canal about ½ mile distant.

15. Power:

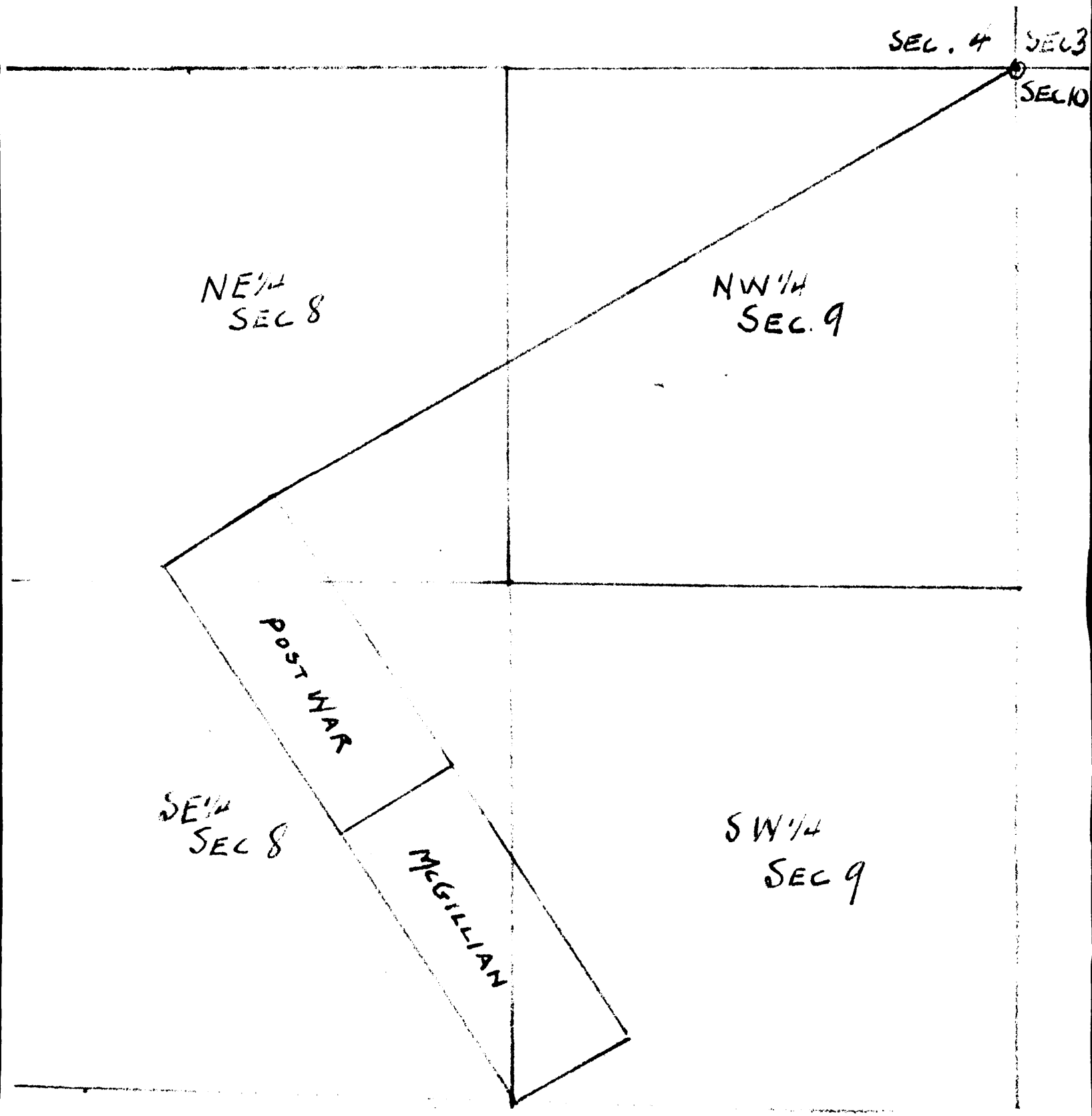
Applicant will use gasolene (or diesel) motors for its machinery.

16. Labor:

Applicant has not been in operation so cannot answer this question.

17. Equipment and facilities:

No buildings or structures on the property. Only equipment available is a 3/8 yd. power shovel.


SEC. 4
SEC 3
SEC 10
NE¼
SEC 8
NW¼
SEC. 9
POST WAR
SE¼
SEC 8
McGILLIAN
SW¼
SEC 9

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

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

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

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)	3,000,000	20% Mn.	$9.00	45¢	$5.00

(*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.

Swan Mining Company
(Name of company)

By Leon Neuren
(Signature of authorized official)

May 11. 1951
(Date)

Secretary
(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

~~6/5/51~~ June 12, 1951

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. 1169 x

Commodity Manganese

Total Amount 20,000

Govt. Participation 15,000

1. Name and Address of Applicant Levan Mining Co
P.O. Box 111, Provo, Utah

2. Location of Property E½ SE¼ Sec 9, T 11S, R 1W,
Utah County, Utah.

3. Mineral or metal Manganiferous iron ore. Is it listed in Section 9 of MO-5?

If not, application will be rejected.

4. Geologic probability of discovery—based on data in application (question #16, 17, 18, 20 and 22)*

Mines or Survey reports, etc., do you rate chances:

a) Good

b) Poor Probably poor - based on work in 1946

c) None See also last page

d) Don't know—needs field examination

e) Is there an alternative and favorable project?
(If so, attach an explanation)

Recommend Rejection

5. Is the applicant's right to the property clearly stated?
(question 5, 6, 7)*

6. If applicant is a lessee, is a copy of the lease attached?

Does the lease have sufficient time to run to cover a future

productive period?

*question numbers are those of MF-103

7. Are subordination agreements necessary?_____

a) MF-201?_____

b) MF-202_____

8. From the data presented, does the proposed project appear feasible from the point of view of:

a) Available manpower_____

b) Equipment and supplies_____
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)*_____

d) Water (question 13)*_____

e) Power (question 13)*_____

Is a field check needed on any of these points?_____

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)*_____

_____

Is a field check needed on this point?_____

10. Exhibit A. (questions 21 and 22)*

a) Is the project adequately described?_____

If not, are there sufficient data given so that you can describe the project?_____ If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work?_____

_____

c) Is the proposed work "exploration" under the definition of Section 8, MO-5?_____

If not, what part of it is?_____

_____

_____

_____

Is this part a worthwhile exploration project?_____

d) Are the cost estimates detailed?_____

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data?_____ If so, attach a draft.

e) Are the cost estimates reasonable?_____

f) Should more information be requested from applicant?_____

g) Is a field examination necessary to complete Exhibit A?_____

11. Exhibit B (question 23-d)*

a) Is it applicable?_____

b) If so, are sufficient data furnished?_____ If so, attach a draft.

c) Is a field check needed?_____

12. Exhibit C (question 23-e, f and g)*

a) Is it applicable?_____

b) Sufficient data?_____ If so, attach a draft.

c) Are rents and charges reasonable?_____

d) Is a field check needed?_____ _____

13. Exhibit D (question 23-a, b)*

a) Are there sufficient data?_____

b) Is the schedule adequate for the work proposed?_____

c) Is the schedule excessive for the work proposed?_____

d) Are the proposed wages and salaries reasonable?_____

e) Is a field check needed?_____

14. Exhibit E (question 23-c)*

a) Is it applicable? _____

b) Sufficient data? _____

c) Reasonable? _____

d) Field check needed? _____

15. In your judgment, can the proposed work be done in the proposed time? _____

(All exploration must be completed within two years)

16. If field examination is not needed, attach your recommendation.

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? The value of this ore is only $4-7 per ton. On this basis the property would have to produce 200,000 tons to repay the Govt. share of 30,000 at 1½%. The geologic possibilities are not good for more than 5000 tons (5 times past production) This is sufficient to repay 95% of only $500.

Conclusion

Exploration for this low-grade material is not practical.

Reviewed by: M D. Crittenden

Date June 12 1957

97692

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-1169X

Date received 5/15/51

Participation

LEVAN MINING COMPANY
P. O. BOX 111
PROVO, UTAH

Name and address of applicant

Date May 11, 1951

FILL IN THIS BLOCK

Date of application May 11, 1951

Estimated cost $20,000

Mineral or metal Manganese

Percentage of Government participation 75

Location of mine Mono Mining District, Utah County, State of Utah

Date of filing MF-100 May 11, 1951

DMA Docket Number, if 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.

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.

Swan Mining Company — By Don Neuren
(Name of company) — (Signature of authorized official)

May 11. 1961 — Secretary
(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

ANSWERS TO QUESTIONS OF
APPLICATION FOR AID FOR AN EXPLORATION
PROJECT, UNDER DEFENSE PRODUCTION ACT

Questions 1 to 5 are answered in MF-100.

Question 6.

There are no liens, claims, or encumbrances against the property.

Question 7. (Inapplicable)

Question 8. See Statement of Assets and Liabilities herewith.

Question 9.

Applicant is prepared to invest in the project money or its equivalent in the sum of $5,000.00, sufficient to pay its share of cost.

Question 10.

(a) Property involved in this exploration project consists of two lode mining claims, namely:

Post War, located July 2, 1943, recorded July 6, 1943 in Book 378 of Mining Claims, Page 147-8, Records of Utah County Recorder, Utah County, state of Utah; and

McGillian, located June 10, 1944, recorded June 16, 1944 in Book 378 of Mining Claims, Page 391, Records of Utah County Recorder. Utah County, state of Utah.

(b) The real property involved in the exploration work and the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted are the same. (See sketch accompanying Form MF-100.)

Question 11. See answer to Question 2 on Form MF-100.

Question 12. " " " " 13 " " "

Question 13. " " " " 14 & 15 "

Question 14. " " " " 17 " "

Question 15.

The ore will be hauled by truck from the mine to the R.R. at Elberta and then consigned to Geneva Steel Company about 35 miles distant.

Question 16. See answer to Question 7 on Form MF-100.

Question 17. " " " " 11 " " "

Question 18. " " " " 12 " " "

Question 19.

Although not high in Mn content, this ore is desireable at Geneva

Steel Company's plant because of its low silica content and no (or negligible amounts)of) zinc, sulphur, phosphorus, and arsenic.

Question 20.

Exploration will open for production a large bedded deposit of manganese ore as described in described in answer to Question 12, Form MF-100.

Question 21.

The proposed work will consist of the following operations and will be completed within eight months after approval of application for loan:

An open cut 500' long, 10' deep, 15' wide;
A tunnel 400' long;
Two drifts of 400';
Two or more raises of about 100'.

Question 22.

Previous production from the deposit was from open cuts where the ore was exposed on the slope of the mountain and was complicated and irregular on account of movement attendant on the upheaval. In order to avoid these complications, applicant will work the more level areas at the base of the mountain. Shallow sampling has shown that the bedding of manganese continues in these areas. The thickness of the bedding can be seen from the exposures on the mountain. The applicant has no supporting maps, but asks that the government's engineers give notice of when they will be able to examine the property, so that its manager, Mr. Trotter, can arrange to go with them to substantiate the statements made. Mr. Trotter, who has examined many manganese showings in Utah and Nevada, believes this one to be of great potential value.

Questions 23 and 24. Requirements and Costs.

TUNNEL. (400')

Labor, 100 days, 3 men @ 12.00 per day	$3600.00
Compensation insurance	250.00
Unemployment and social security taxes	150.00
Dynamite, 2500#	500.00
Fuse and caps	30.00
Mine rail, 2 tons @ $180	360.00
Ties, spikes, fishplates, bolts	53.00
Pipe, 500' 2" black @ .40	200.00
Carbide	12.00
Rent of air compressor, 100 days @ $5	500.00
Jackhammer, 2 sets steel, pusher	650.00
Mine car	100.00
Gasolene and oil	530.00
	6935.00

OPEN CUT.

Stripping overburden to define the course and extent of ore and to develop working places, -

Rent of 3/8 yd. Shovel 25 days @ $40	1000.00
Operator's wages, 25 days @ $18.40	460.00
Payroll taxes and insurance	52.00
Gasolene and oil	100.00

Questions 23 and 24. Requirements and Costs (continued).

OPEN CUT. (Continued from page 2)

Rent of air compressor, 25 days @ $5	$ 125.00
Gasolene and oil for compressor	50.00
Explosives	180.00
	$1967.00

DRIFTS.

400' at same estimate of cost as tunnel	$6185.00

RAISES. (100')

Labor, 16 days, 3 men @ $12	$ 576.00
Compensation insurance	40.00
Unemployment and social security taxes	25.00
Dynamite	45.00
Fuse and caps	8.00
2500' b.m. timber	250.00
Rent of air compressor, 16 days @ $5	80.00
Gasolene and oil	64.00
100' 2" black pipe	40.00
	$1128.00

RENTAL OF PICKUP TRUCK, & gas, oil, & repairs	$ 950.00
SUPERVISION, 8 months @ $350.00	$2800.00
	$3750.00

(Grand total, $19,965.00)

First month:		
Complete open cut	$1967.00	
Complete 100' tunnel	3234.00	
Second month:		
Complete 100' tunnel	1859.00	
Third month:		
Complete 100' tunnel	1859.00	
Fourth month:		
Complete 100' tunnel	1859.00	
Fifth month:		
100' drift	2484.00	
Sixth month:		
100' drift	1859.00	
Seventh month:		
100' drift	1859.00	
Eighth month:		
100' drift	1859.00	
100' raise	1128.00	$19965.00

STATEMENT OF ASSETS & LIABILITIES

MAY 1, 1951

(Question 8)

ASSETS

Cash		$ 3.76
Accounts Receivable		75.00
Subscription to stock		210.00
Machinery		3060.86
Mining Claims		10010.00
Deferred expenses		36.32
		13395.94
Net loss (deficit)		453.44
		$13849.38

LIABILITIES

Accounts Payable		$ 99.38
Capital Stock, Authorized, 1,000,000 shares		
Issued	500,000 "	
Outstanding	500,000 "	5000.00
Paid in Surplus		8250.00
Reserve for Depreciation on Machinery		500.00
		$13849.38

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-1169X

Date received 5/15/51

LEVAN MINING COMPANY
P. O. BOX 111
PROVO, UTAH

Name and address of applicant

Date May 11, 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 _____

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

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

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

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
	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	$ 10,000	$ 5,000	$ 5,000	500,000	none
Preferred stock (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.)	Mn. ore	Est 200	Est 400	Est 150	
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)	Mn. ore	11% Mn and 37% Fe 200 T.	400 T.	- - - 150 T.	

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

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

General Technical Data

1. Materials produced:

(a) The chief mine product will be manganese.

(b) The by-product will be iron.

2. Name and type of mine:

The mine has been called after the name of the mining claim, Post War, and shipments made heretofore have been from open pit operations; but this accompanying application for a government loan contemplates opening the deposit at a different site for both open pit and underground mining of the manganese. At the proposed place of operation there are no (a) shafts, (b) drifts and crosscuts, (c) tunnels or adits, nor (d) other mine workings.

3. (a) Property is located about six miles south of the town of Elberta, Utah County, Utah, about nine miles southeast of the town of Dividend. The D. & R. G. W. R. R. passes through Elberta, where a loading ramp could be readily constructed, or arrangements could be made to use the Chafin loading ramp about 5 miles east of Elberta. A good gravel access road serves the property and connects with the hard surfaced highway at Elberta. The road is maintained by the county.

(b) It is in the Tintic Mining District, sometimes referred to as the East Tintic district or the Mono district.

(c) It is situated in Township 11 South, Range 1 West, Salt Lake Base & Meridian, Sections 8 and 9.

(d) Utah County, state of Utah.

4. The property is not now in operation, but is owned and will be operated by the applicant.

5. Shipments have been made at intervals during the past 20 years, but not from the area that is proposed to be worked. Shipments from the new workings will begin within six months of approval of the application for government loan.

6. (a) The mining and general business experience of the applicant has been limited to leasing its properties during the short time that it has been incorporated. It was chartered under the laws of Utah in September, 1948. The president, Joseph H. Petersen, of Provo, Utah, is a respected citizen of mature judgment, 73 years old, and is also president of Deluxe Mining Co. and West Park Mining Co. Has been a successful woolgrower and horticulturist, but on account of working in the Park City, Utah, mines when a youth has always had a keen interest in mining. The vice president, and manager, S. D. Trotter, worked in the mines of the Tintic District and later operated both as a lessee and as an owner in properties of the Detroit (Drum mountain) District and other districts. He has been connected with the industry for over twenty-five years. The secretary and treasurer, Leon Newren, has been connected with the "Knight" mining interests since 1913, as an accountant, as secretary and treasurer, and a director. He will have charge of applicant's records and accounts. Another director of applicant

is Evan Hansen of Salt Lake City, Utah. He has been associated with the lime burning industry for a number of years and at present manages the Hansen Lime & Stucco Co., 1574 S. West Temple Street, Salt Lake City, Utah.

(b) Management of operations will be under S. D. Trotter, mentioned in item (a).

7. (a) Some surface work has been done on parts of the property, but not where present work is planned. That work opened an irregular deposit from which about 2,000 tons were shipped. Some of the operators were not adequately financed which added to their difficultiies. Present plans do not contemplate further development or exploration at the site of these former workings.

(b) There has been a considerable tonnage of manganese ore shipped from the Tintic District in addition to the hundreds of millions of dollars of other ores. Applicant does not have these figures, but they can be supplied by the Bureau of Mines. Some of the manganese shippers were Iron King Cons. Mining Co., Tintic Standard Mining Co., Chief Cons. Mining Co., Dragon Cons. Mining Co., Tintic Drain Tunnel Co., etc. Applicant's property lies eastward of the most easterly of those shippers.

(c) So far as applicant knows there are no reports available that would apply to this question.

8. Names and addresses of Officers, Directors, and 5 stockholders:

Name and address (a)	Remuneration (b)	Net Worth (c)	Holdings (d)	
(P. & D.) Jos. H. Petersen 895 E. 8th N. Provo, Utah.	none	$60,000.00	25,000	Applicant has no preferred stock, and carries no insurance on officers for its benefit.
(V.P. & D.) S. D. Trotter 561 E. 2nd N. Provo, Utah	"	$10,000.00	200,000	
(Sec-Treas.D) Leon Newren 780 W. 5thN. Provo, Utah	"	$15,000.00	125,000	
(D) Evan W. Hansen 1574 S. West Temple Salt Lake City, Utah	"	$75,000.00	100,000	
(D) S. A. Trotter Goshen Utah	"	$15,000.00	10,000	
LaVon S. Trotter 561 E. 2nd N. Provo, Utah	"		15,000	
Phillip D. Trotter Provo, Utah	"		2,000	
C. L. Rollins Salt Lake City, Utah	"		1,000	
			478,000	

9. Capital Stock Issue. (See Form MF-100)

10. Production. (See Form MF-100)

11. We are not in production, but upon completion of work planned by use of the funds applied for under the accompanying application for loan we expect to produce from underground mining 50 tons daily and from open pit about 100 tons. Ore will need to be sorted to eliminate waste.

12. (a) The deposit of manganese is principally pyrolusite and contains various oxides with a grade of Mn running from 8 to 20%. The iron oxides, hematite and limonite, associated with the ore assay from 35% to 42% Fe and are free from penalizing impurities for steel metallurgy. It is a bedding, presumably the lower Ophir shales and limes, directly above the Tintic (Cambrian) quartzite. The ore is nodular to massive with occasional spots of clay. The bedding dips southeasterly following the general dip of the area about 25% with some local minor fault displacements. Judging from exposures its thickness is about 40 to 70 feet. Applicant has no maps or assay data pertaining to the proposed working area, but attaches hereto a sketch showing the location of the claims. No reserves have been developed. It is the purpose of this loan to explore the showing, determine its immediate prospects, and get into production.

(b) We have no map or prepared section. If the bedding were to average the thickness of 40 feet above mentioned and extended over the entire width and length of the claims, the block would be 40' x 600' x 3000'. We assume a thickness of 25', a width of 400', and a length of 3000' for the indicated tonnage (probable), 3,000,000 tons.

13. Access Roads:

Good gravelled road of 6 miles from mine to highway, and R.R. See also answer to Question 3.

14. Water Supply:

Ample water for culinary and mining purposes can be had at all seasons from the irrigation canal about ½ mile distant.

15. Power:

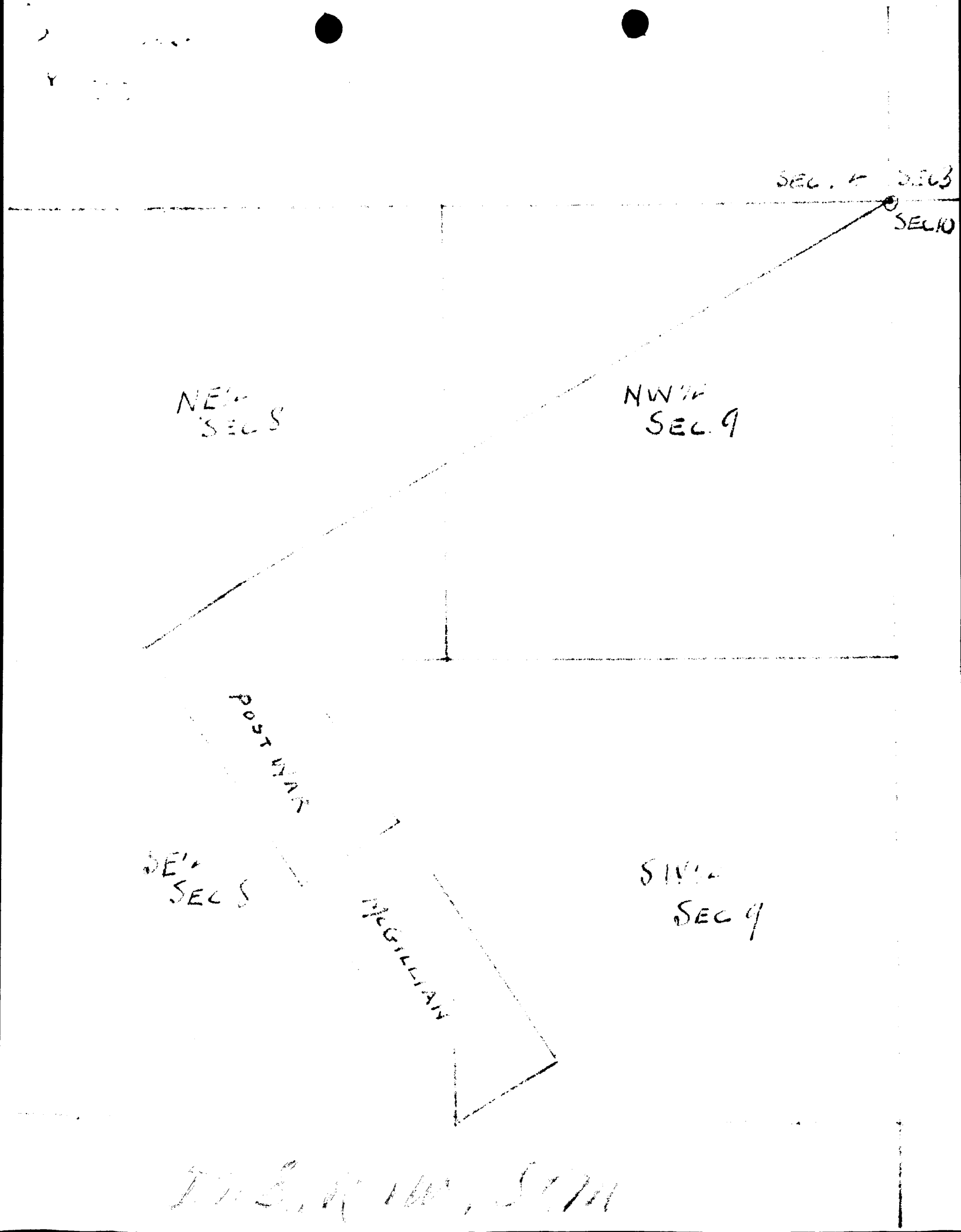
Applicant will use gasolene (or diesel) motors for its machinery.

16. Labor:

Applicant has not been in operation so cannot answer this question.

17. Equipment and facilities:

No buildings or structures on the property. Only equipment available is a 3/8 yd. power shovel.


SEC. 4
SEC 3
SEC 10
NE¼
SEC 5
NW¼
SEC. 9
POST MAT
SE¼
SEC 5
SW¼
SEC 9
MCGILLIAN

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

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

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

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)	3,000,000	20% Mn.	$9.00	45¢	$5.00

(*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.

Lyon Mining Company By Leon Neuren
(Name of company) (Signature of authorized official)

May 11, 1951 Secretary
(Date) (Title)

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

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

May 22, 1951

Mr. Leon Newman, Secretary
Lovan Mining Company
P. O. Box 111
Provo, Utah

Dear Sir:

We have looked into your suggestion regarding a sponge iron plant at your mine in Utah.

At the present time there are no sponge iron plants operating in the United States, and conflicting reports have been received regarding the success of this type of plant abroad. Until it can be shown that sponge iron can be produced commercially, it is doubtful that an application for public funds for such a plant would receive favorable consideration.

It might be possible that further exploration would show your iron deposit to be large enough to interest the steel plants in the vicinity, and I am enclosing a press release which may be of interest to you along these lines.

If we can be of further assistance, please let us know.

Very truly yours,

Franklin S. Pardee, Chief
Iron Ores Branch

Enclosure

Copy to: Adm. reading file
Mr. Strobel
Mr. Lyon
Mr. Pardee
Files

Form MF-203
(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-1169X

Date received 5/15/51

Participation

LEVAN MINING COMPANY
P. O. BOX 111
PROVO, UTAH

Name and address of applicant

Date May 11, 1951

FILL IN THIS BLOCK

Date of application May 11, 1951

Estimated cost $20,000

Mineral or metal Manganese

Percentage of Government participation 75

Location of mine Mono Mining District, Utah County, State of Utah

Date of filing MF-100 May 11, 1951

DMA Docket Number, if 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.

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.

Swan Mining Company (Name of company) By Don Newren (Signature of authorized official)

May 11, 1951 (Date) Secretary (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

ANSWERS TO QUESTIONS OF
APPLICATION FOR AID FOR AN EXPLORATION
PROJECT, UNDER DEFENSE PRODUCTION ACT

Questions 1 to 5 are answered in MF-100.

Question 6.

There are no liens, claims, or encumbrances against the property.

Question 7. (Inapplicable)

Question 8. See Statement of Assets and Liabilities herewith.

Question 9.

Applicant is prepared to invest in the project money or its equivalent in the sum of $5,000.00, sufficient to pay its share of cost.

Question 10.

(a) Property involved in this exploration project consists of two lode mining claims, namely:

Post War, located July 2, 1943, recorded July 6, 1943 in Book 378 of Mining Claims, Page 147-8, Records of Utah County Recorder, Utah County, state of Utah; and

McGillian, located June 10, 1944, recorded June 16, 1944 in Book 378 of Mining Claims, Page 391, Records of Utah County Recorder, Utah County, state of Utah.

(b) The real property involved in the exploration work and the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted are the same. (See sketch accompanying Form MF-100.)

Question 11. See answer to Question 2 on Form MF-100.

Question 12. " " " " 13 " " "

Question 13. " " " " 14 & 15 "

Question 14. " " " " 17 " "

Question 15.

The ore will be hauled by truck from the mine to the R.R. at Elberta and then consigned to Geneva Steel Company about 35 miles distant.

Question 16. See answer to Question 7 on Form MF-100.

Question 17. " " " " 11 " " "

Question 18. " " " " 12 " " "

Question 19.

Although not high in Mn content, this ore is desireable at Geneva

Steel Company's plant because of its low silica content and no (or negligible amounts)of) zinc, sulphur, phosphorus, and arsenic.

Question 20.

Exploration will open for production a large bedded deposit of manganese ore as described in described in answer to Question 12, Form MF-100.

Question 21.

The proposed work will consist of the following operations and will be completed within eight months after approval of application for loan:

An open cut 500' long, 10' deep, 15' wide;
A tunnel 400' long;
Two drifts of 400';
Two or more raises of about 100'.

Question 22.

Previous production from the deposit was from open cuts where the ore was exposed on the slope of the mountain and was complicated and irregular on account of movement attendant on the upheaval. In order to avoid these complications, applicant will work the more level areas at the base of the mountain. Shallow sampling has shown that the bedding of manganese continues in these areas. The thickness of the bedding can be seen from the exposures on the mountain. The applicant has no supporting maps, but asks that the government's engineers give notice of when they will be able to examine the property, so that its manager, Mr. Trotter, can arrange to go with them to substantiate the statements made. Mr. Trotter, who has examined many manganese showings in Utah and Nevada, believes this one to be of great potential value.

Questions 23 and 24. Requirements and Costs.

TUNNEL. (400')

Labor, 100 days, 3 men @ 12.00 per day	$3600.00
Compensation insurance	250.00
Unemployment and social security taxes	150.00
Dynamite, 2500#	500.00
Fuse and caps	30.00
Mine rail, 2 tons @ $180	360.00
Ties, spikes, fishplates, bolts	53.00
Pipe, 500' 2" black @ .40	200.00
Carbide	12.00
Rent of air compressor, 100 days @ $5	500.00
Jackhammer, 2 sets steel, pusher	650.00
Mine car	100.00
Gasolene and oil	530.00
	6935.00

OPEN CUT.

Stripping overburden to define the course and extent of ore and to develop working places. -

Rent of 3/8 yd. Shovel 25 days @ $40	1000.00
Operator's wages, 25 days @ $18.40	460.00
Payroll taxes and insurance	52.00
Gasolene and oil	100.00

Questions 23 and 24. Requirements and Costs (continued).

OPEN CUT. (Continued from page 2)

Rent of air compressor, 25 days @ $5	$ 125.00
Gasolene and oil for compressor	50.00
Explosives	180.00
	$1967.00

DRIFTS.

400' at same estimate of cost as tunnel	$6185.00

RAISES. (100')

Labor, 16 days, 3 men @ $12	$ 576.00
Compensation insurance	40.00
Unemployment and social security taxes	25.00
Dynamite	45.00
Fuse and caps	8.00
2500' b.m. timber	250.00
Rent of air compressor, 16 days @ $5	80.00
Gasolene and oil	64.00
100' 2" black pipe	40.00
	$1128.00

RENTAL OF PICKUP TRUCK, & gas, oil, & repairs	$ 950.00
SUPERVISION, 8 months @ $350.00	$2800.00
	$3750.00

(Grand total, $19,965.00)

First month:		
Complete open cut	$1967.00	
Complete 100' tunnel	3234.00	
Second month:		
Complete 100' tunnel	1859.00	
Third month:		
Complete 100' tunnel	1859.00	
Fourth month:		
Complete 100' tunnel	1859.00	
Fifth month:		
100' drift	2484.00	
Sixth month:		
100' drift	1859.00	
Seventh month:		
100' drift	1859.00	
Eighth month:		
100' drift	1859.00	
100' raise	1128.00	$19965.00

STATEMENT OF ASSETS & LIABILITIES

MAY 1, 1951

(Question 8)

ASSETS

Cash.	$ 3.76
Accounts Receivable	75.00
Subscription to stock	210.00
Machinery	3060.86
Mining Claims	10010.00
Deferred expenses	36.32
	13395.94
Net loss (deficit)	453.44
	$13849.38

LIABILITIES

Accounts Payable.	$ 99.38
Capital Stock, Authorized, 1,000,000 shares	
Issued 500,000 "	
Outstanding 500,000 "	5000.00
Paid in Surplus	8250.00
Reserve for Depreciation on Machinery	500.00
	$13849.38

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-1169X

Date received 5/15/51

LEVAN MINING COMPANY
P. O. BOX 111
PROVO, UTAH

Name and address of applicant

Date May 11, 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 _____

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

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

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

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
	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	$ 10,000	$ 5,000	$ 5.000	500,000	none
Preferred stock (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.)	Mn. ore	Est 200	Est 400	Est 150	
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)	Mn. ore	11% Mn and 37% Fe 200 T.	400 T.	- - - 150 T.	

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

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

General Technical Data

1. Materials produced:

(a) The chief mine product will be manganese.

(b) The by-product will be iron.

2. Name and type of mine:

The mine has been called after the name of the mining claim, Post War, and shipments made heretofore have been from open pit operations; but this accompanying application for a government loan contemplates opening the deposit at a different site for both open pit and underground mining of the manganese. At the proposed place of operation there are no (a) shafts, (b) drifts and crosscuts, (c) tunnels or adits, nor (d) other mine workings.

3. (a) Property is located about six miles south of the town of Elberta, Utah County, Utah, about nine miles southeast of the town of Dividend. The D. & R. G. W. R. R. passes through Elberta, where a loading ramp could be readily constructed, or arrangements could be made to use the Chafin loading ramp about 5 miles east of Elberta. A good gravel access road serves the property and connects with the hard surfaced highway at Elberta. The road is maintained by the county.

(b) It is in the Tintic Mining District, sometimes referred to as the East Tintic district or the Mono district.

(c) It is situated in Township 11 South, Range 1 West, Salt Lake Base & Meridian, Sections 8 and 9.

(d) Utah County, state of Utah.

4. The property is not now in operation, but is owned and will be operated by the applicant.

5. Shipments have been made at intervals during the past 20 years, but not from the area that is proposed to be worked. Shipments from the new workings will begin within six months of approval of the application for government loan.

6. (a) The mining and general business experience of the applicant has been limited to leasing its properties during the short time that it has been incorporated. It was chartered under the laws of Utah in September, 1948. The president, Joseph H. Petersen, of Provo, Utah, is a respected citizen of mature judgment, 73 years old, and is also president of Deluxe Mining Co. and West Park Mining Co. Has been a successful woolgrower and horticulturist, but on account of working in the Park City, Utah, mines when a youth has always had a keen interest in mining. The vice president, and manager, S. D. Trotter, worked in the mines of the Tintic District and later operated both as a lessee and as an owner in properties of the Detroit (Drum mountain) District and other districts. He has been connected with the industry for over twenty-five years. The secretary and treasurer, Leon Newren, has been connected with the "Knight" mining interests since 1913, as an accountant, as secretary and treasurer, and a director. He will have charge of applicant's records and accounts. Another director of applicant

is Evan Hansen of Salt Lake City, Utah. He has been associated with the lime burning industry for a number of years and at present manages the Hansen Lime & Stucco Co., 1574 S. West Temple Street, Salt Lake City, Utah.

(b) Management of operations will be under S. D. Trotter, mentioned in item (a).

7. (a) Some surface work has been done on parts of the property, but not where present work is planned. That work opened an irregular deposit from which about 2,000 tons were shipped. Some of the operators were not adequately financed which added to their difficultiies. Present plans do not contemplate further development or exploration at the site of these former workings.

(b) There has been a considerable tonnage of manganese ore shipped from the Tintic District in addition to the hundreds of millions of dollars of other ores. Applicant does not have these figures, but they can be supplied by the Bureau of Mines. Some of the manganese shippers were Iron King Cons. Mining Co., Tintic Standard Mining Co., Chief Cons. Mining Co., Dragon Cons. Mining Co., Tintic Drain Tunnel Co., etc. Applicant's property lies eastward of the most easterly of those shippers.

(c) So far as applicant knows there are no reports available that would apply to this question.

8. Names and addresses of Officers, Directors, and 5 stockholders:

Name and address (a)	Remuneration (b)	Net Worth (c)	Holdings (d)	
(P. & D.) Jos. H. Petersen 895 E. 8th N. Provo, Utah.	none	$60,000.00	25,000	Applicant has no preferred stock, and carries no insurance on officers for its benefit.
(V.P. & D.) S. D. Trotter 561 E. 2nd N. Provo, Utah	"	$10,000.00	200,000	
(Sec-Treas.D) Leon Newren 780 W. 5thN. Provo, Utah	"	$15,000.00	125,000	
(D) Evan W. Hansen 1574 S. West Temple Salt Lake City, Utah	"	$75,000.00	100,000	
(D) S. A. Trotter Goshen Utah	"	$15,000.00	10,000	
LaVon S. Trotter 561 E. 2nd N. Provo, Utah	"		15,000	
Phillip D. Trotter Provo, Utah	"		2,000	
L. Rollins lt Lake City, Utah	"		1,000	
			478,000	

9. Capital Stock Issue. (See Form MF-100)

10. Production. (See Form MF-100)

11. We are not in production, but upon completion of work planned by use of the funds applied for under the accompanying application for loan we expect to produce from underground mining 50 tons daily and from open pit about 100 tons. Ore will need to be sorted to eliminate waste.

12. (a) The deposit of manganese is principally pyrolusite and contains various oxides with a grade of Mn running from 8 to 20%. The iron oxides, hematite and limonite, associated with the ore assay from 35% to 42% Fe and are free from penalizing impurities for steel metallurgy. It is a bedding, presumably the lower Ophir shales and limes, directly above the Tintic (Cambrian) quartzite. The ore is nodular to massive with occasional spots of clay. The bedding dips southeasterly following the general dip of the area about 25% with some local minor fault displacements. Judging from exposures its thickness is about 40 to 70 feet. Applicant has no maps or assay data pertaining to the proposed working area, but attaches hereto a sketch showing the location of the claims. No reserves have been developed. It is the purpose of this loan to explore the showing, determine its immediate prospects, and get into production.

(b) We have no map or prepared section. If the bedding were to average the thickness of 40 feet above mentioned and extended over the entire width and length of the claims, the block would be 40' x 600' x 3000'. We assume a thickness of 25', a width of 400', and a length of 3000' for the indicated tonnage (probable), 3,000,000 tons.

13. Access Roads:

Good gravelled road of 6 miles from mine to highway, and R.R. See also answer to Question 3.

14. Water Supply:

Ample water for culinary and mining purposes can be had at all seasons from the irrigation canal about ½ mile distant.

15. Power:

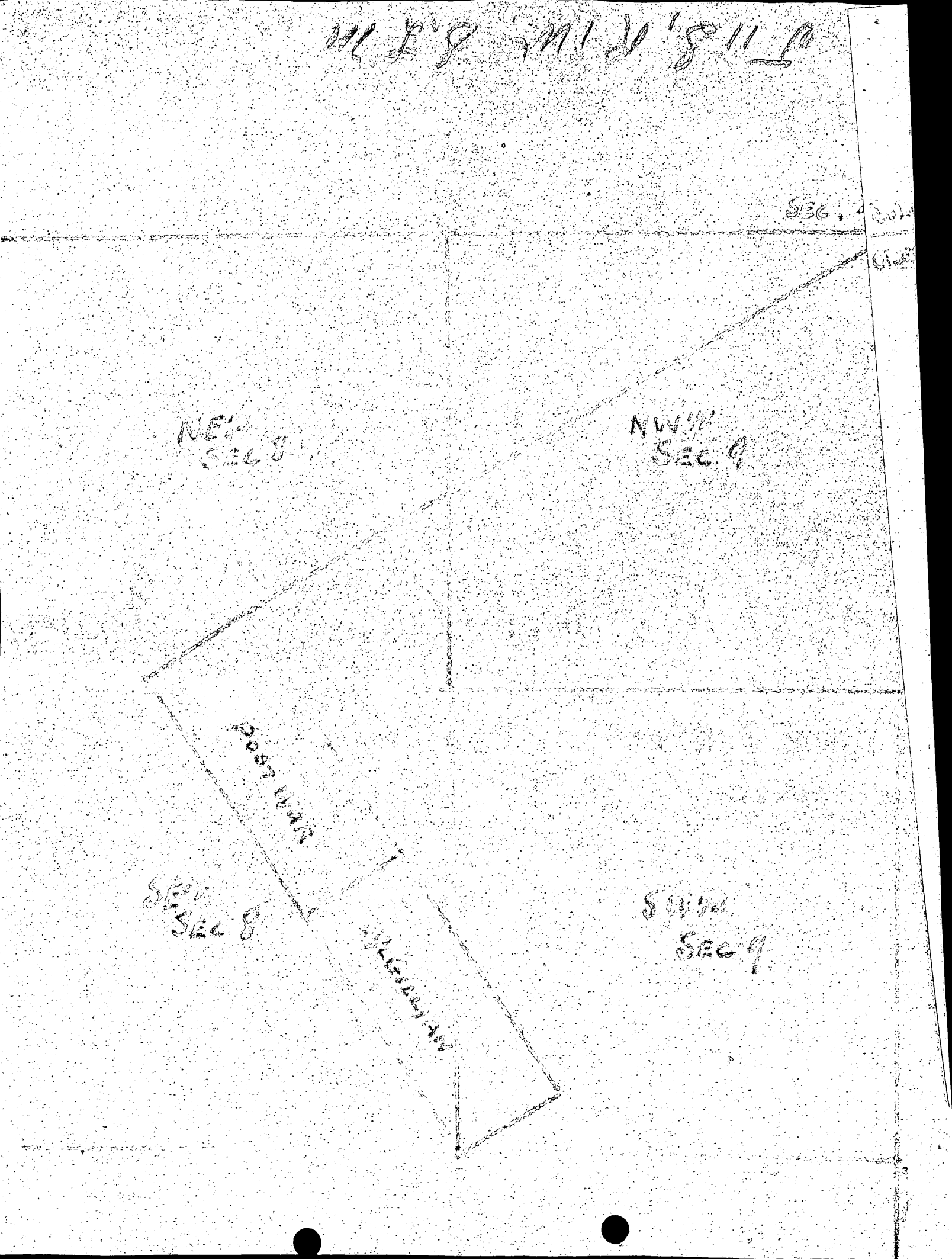
Applicant will use gasolene (or diesel) motors for its machinery.

16. Labor:

Applicant has not been in operation so cannot answer this question.

17. Equipment and facilities:

No buildings or structures on the property. Only equipment available is a 3/8 yd. power shovel.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SEC 8
SW¼
SEC 9

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

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

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

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)	3,000,000	20% Mn.	$9.00	45¢	$5.00

(*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.

Swan Mining Company By Son Newman
(Name of company) (Signature of authorized official)

May 11. 1951 Secretary
(Date) (Title)

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

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

LANDON F. STROBEL

LEVAN MINING COMPANY

P. O. Box 111
Provo, Utah
March 1, 1951

BUREAU OF MINES
WASHINGTON, D.C.
MAR 5 8 24 PM '51

Dr. James Boyd, Acting Director
Minerals Administration for Defense
Room 6416, Department of Interior Building
Washington, D. C.

Dear Dr. Boyd:

We have a group of mining claims from which hundreds of tons of manganese-iron ore have been shipped since 1924. All production has been from the surface, some mined with power shovel and some by hand. No deep work has been done. The ore shipped has all had a high iron content, but has been purchased by the local Geneva Steel Co. so long as the Mn has been in excess of Fe.

Our company has no funds to do developement of the property nor for an engineers examination and report; but on account of the pressing need for manganese, we wish to avail ourselves of the services of your engineers, in as much as it has been announced in the papers that such services are to be made available, and then decide if some plan could be made to mine at depth and determine whether the Mn content becomes higher grade.

The property is only ten miles from railroad, easily accessible, within 40 miles of the Geneva Steel plant, workable at all seasons of the year, and has the presence of substantial tonnages of manganese.

If you would let us know when the engineers can make their examination, we will show them over the ground.

Yours respectfully

LEVAN MINING COMPANY

Landon Strobel

Secretary

Mr. Mehlhorn
reply

LEVAN MINING COMPANY

Mr Holderer

P. O. Box 111
Provo, Utah
March 1, 1951

MAR 6 1951

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Our company has no funds to do development of the showings nor for an engineers examination and report; but on account of the pressing need for manganese, we wish to avail ourselves of the services of your engineers, in as much as it has been announced in the papers that such services are to be made available, and then decide if some plan could be made to mine at depth and determine whether the Mn content becomes higher grade.

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Yours respectfully

LEVAN MINING COMPANY

Leon Nieuwen

Secretary

3-11-51