DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

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DMEA ~~DMA~~ Docket No. 2342

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EXPLORATION PROJECT

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Routing Slip
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To: CODE 400 RM. 3538 Date 1-23-52

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400 FILE COPY
SURNAME:

Selfridge

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

APR 8 1952

Mr. W. McC. White, President
Butte Mines Merger Corporation
R. F.D. No. 1, Box 53
Butte, Montana

Re: Docket No. DMEA 2342X - Manganese
Minnie Jane Mine
Silver Bow County, Montana

Dear Mr. White:

This is to acknowledge receipt of your two letters dated March 28, 1952, in which you request that your application for exploration assistance for the Minnie Jane Mine be withdrawn.

Complying with your request, we have removed the docket from our active file and now consider the matter closed.

We regret that under the rules and regulations of Mineral Order No. 5 we were not able to offer you more exploration assistance than that outlined in our letter of March 5.

Sincerely yours,

C. O. Mittendorf (fw) 4/8

Acting Administrator
Defense Minerals Exploration
Administration

GCSelfridge:ls
4/3/52

cc: Admn. Reading File
Docket
Field Team, Region 2
G. C. Selfridge
M. D. Crittenden, USGS
N. B. Melcher, USBM

Withdrawal
APR 8

400

Mr. W. McC. White, President
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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

402

April 7, 1952

Memorandum

To: George C. Selfridge, DMEA

From: Norwood B. Melcher, Bureau of Mines

Subject: DMEA 2342 - Manganese, Minnie Jane Mine, Silver Bow County, Montana

R. I. 3801, Summary of Bureau of Mines Exploration Projects on Deposits of Raw Material Resources for Steel Production (1945) by C. E. Julihn and Lowell B. Moon contains the following (pp. 17-21) concerning this mine:

Projects 311 and 311.1 - Minnie Jane - Tzarina. These explorations at Butte showed 200,000 tons of 20 percent manganese ore and 92,000 tons of 12 percent ore. They contributed to the provision of a treatment plant by the Defense Plant Corporation, to which they supplied a considerable tonnage of ore.

Mine	Started	Finished	Exploration	Ore Reserves	
				Tons	Grade
Minnie Jane	5/41	9/41	Sampling underground workings and drilling	200,000	20%
Tzarina	5/42	1/43	Diamond drilling for total of 3,189 ft. and 83 channel samples	46,000 oxide 48,000 carbonate	12% 11.7%

Remarks: Minnie Jane - On 300- or 400-ft. level. Vein 11 ft. wide by 700 ft. long. Mine producing 140 tons a day.
Tzarina - Complete production 500 tons 17% Mn per mo. Moderate reserve of low-grade manganese ore.

Copy retained 400

R. I. 4117, Beneficiation of Western Manganese Ores (1947), by C. H. Schack and H. G. Poole, contains the following data (p. 31):

Property	Class of ore	Grade Mn Percent	Recovery At 35-40 Mn	Recovery At 44 Mn	Recovery At 48 Mn	Size started	Method
Minnie Jane (Stockpile)	Manganese carbonate	24.5	—	—	83.2	100-mesh	1,3d,3a,5a
Minnie Jane (Mine)	"	16.6	—	—	82.9	28-mesh	1,2d,3a,3d, 3a,5a
Minnie Jane (Mine)	"	.	—	—	71.3	200-mesh	1,3d,3a,5a
Minnie Jane (Low grade)	"	10.8	—	—	68.6	28-mesh	1,2d,2a,3d, 3a,5a
Tzarina	"	6.1	69.5	—	—	100-mesh	1,3d,3a,5a
Tzarina	"	10.7	—	75.3	50.2	150-mesh	1,3d,3a,5a

1. Crushing, grinding, and sizing.
2a. Log washing and attrition grinding.
2d. Table concentration.
3a. Fatty acid flotation.
3d. (Method not given in report).
5a. Sintering and nodulizing.

Since this mine produced 50,000 tons of acceptable ore during World War II and the ore is capable of being beneficiated successfully, it is believed that exploration for new ore is warranted.

Robert W. Geehan, for
Norwood B. Melcher

DMEA 2342 I-7A

Memorandum
To: George Selfridge, DMEA
From: Max D. Crittenden
Subject: DMEA 2342

The applicant, The Butte Mines Merger Corporation, operates the Minnie Jane mine in the western edge of the Butte district, Montana. This property is one of those active during World War II in supplying manganese carbonate ore to the Butte stockpile. During that period they produced almost 50,000 tons of material that averaged about 16% Mn. The property was originally developed many years ago for silver and gold, and manganese was encountered in the course of these operations, but was not removed because there was no market for it.

The World War II operations involved reopening the old workings and removing the shoots of manganese carbonate ore, most of which were between areas that had been mined earlier. This work did not require extensive development because the shafts and various levels were already in existence and only needed a moderate amount of rehabilitation. During that time the most readily accessible and the highest grade manganese carbonate ores were mined out. The first 30,000 tons produced during this period averaged better than 20% Mn. The last 15,000 tons averaged less than 14% Mn. This decrease in grade was due to their attempt to maintain production without undertaking development from new orebodies.

In the fall of 1950 the operator of this mine and others from Butte came to Washington to request assistance to reopen and develop their properties. Until recently they have had hope of obtaining a production loan on the basis of reserves still believed to exist in the mine. It is clear that the reserves known are not sufficient to warrant

a production loan but the prospects for discovering ore appear to be reasonable, and the operators therefore have been encouraged to apply for exploration assistance.

The present application is inadequate in that it does not list clearly the objectives of the proposed exploration, nor does it detail sufficiently the estimated costs to attain those objectives. These defects will have to be corrected by the applicant. The parts of the mine involved are not open now. Therefore, it is not likely that a field team investigation would be of value.

The Geological Survey mapped completely all the accessible workings of this property just before it closed down in 1944. In addition, a few check samples were taken at various places. Earlier in 1941 the Bureau of Mines did some extensive sampling and a limited amound of diamond drilling below the deepest levels. The records of this work are available in this office, and are believed to be as complete a picture as can be obtained now.

The results of this work are summarized in a brief report which was prepared for DMPA in November 1951. Two copies of this report are attached. Extra copies of the maps are not now available but can be obtained if you wish to have them.

I infer from the present application, and from the earlier applications to DMPA that the principal projects the applicant proposes to undertake are (1) rehabilitate shaft, (2) drive the 200' level north about 150', (3) rehabilitate the 400' level and the 406 raise, and (4) rehabilitate the winze and 600 sub-level to allow inspection and sampling

of the vein. In addition, it might be advisable to consider additional diamond drilling for the downward extension of one or both of the ore shoots. Although this property is not the most promising for immediate production, it is reasonable to expect that it may yield another 50,000 tons of material of the same or somewhat lower grade than was mined during World War II.

1/24/52

THE MINNIE JANE MINE

Introduction

The Minnie Jane, one of the early claims of the West Butte district, is about 1300 feet southwest of the Orphan Girl mine. It is owned and operated by the Butte Mines Morger Corporation. W. McC. White is President.

In 1943 and 1944 a surface map on a scale of 100 feet to the inch of the mine and vicinity was made by the Geological Survey by plane table and alidade. (Plate No. 2) A transit survey map supplied by the operator was used as a base for plotting underground geology. Workings shown in solid lines on the underground maps were accessible to the writers. Workings shown as dotted lines are inaccessible and taken from old maps or reports supplied by the operator. The geology in all accessible underground workings was mapped on a scale of 20 feet to the inch, and the data later reduced to a scale of 50 feet to the inch. This work was brought up to date on December 1, 1943, and Oct. 1944. (Plate no. 3)

History and production

The Minnie Jane mine has been an intermittent gold and silver producer since 1890, and during World War I, a few hundred tons of manganese oxide ore were shipped from shallow surface workings. In 1942 the mine was rehabilitated and in October of that year, the owners started shipping rhodochrosite ore to the Metals Reserve Company stockpile at Butte, Montana. Up to September 30, 1944, 43,146 long dry tons averaging 16.05 percent manganese had been produced.

Development

Workings at the Minnie Jane mine originally consisted of four main levels opening from a vertical shaft and three deeper sub-levels reached through winzes. Numerous shallow levels were opened by smaller shafts and later connected by raises and intermediate levels with the deeper workings. Of the 200 and 300 levels, only the parts near the shaft are open at present. The 400 level, however, is open for its full extent. The 450 is the only sub-level accessible to the writers. Recent development consists of an inclined raise in the plane of the vein from the 300 level to the surface, about 75 feet west of No. 1 shaft; reopening of the East incline; and several short crosscuts into foot or hanging walls.

Large areas of the vein east of the shaft were partly stoped in early work when rhodochrosite was considered to be a gangue mineral, and as a result, the remaining ore in these parts of the vein is lost. This is the case with much of the ground between the 300 and 400 levels in the east end of the mine. Stopes that have yielded rhodochrosite are shown on the longitudinal projection of the vein by solid lines; old stopes are shown by dashed lines (Plate No. 4).

Geology

The Minnie Jane mine is on a large vein striking N. 65°-80° E., dipping 50°-60° S. It is essentially continuous with the vein exposed north of the Orphan Girl mine and east of the Minnie Jane. The wall rocks are granitic rocks of the Boulder batholith which, near the Minnie Jane, consist of quartz monzonite and a few small bodies of aplite. The vein formed along a strong fault zone, and was accompanied by alteration and silicification of wall rock and repeated shearing and brecciation. The wall rock alteration is usually noticeable for a foot to 10 feet from the vein walls. In most places there are strong foot and hanging wall faults marked by 1 inch to 1 foot of gouge. Movement on these faults occurred both before and after the rhodochrosite mineralization.

The vein is from 16 to 35 feet thick, but the degree of the mineralization varies greatly both along the strike and dip of the vein. On the 400 level, near the north vein crosscut, the mineralization is limited to weak alteration of the sheared granite in the vein. Rhodochrosite is conspicuously absent along this portion of the vein. More commonly, the rock within the vein has been replaced largely by quartz containing a small amount of sulphides. The silver and gold ores mined in the early days occurred largely in the quartz associated with the rich sulphide shoots. Rhodochrosite is commonly associated with this material, often in sufficient amounts to assay 5 percent manganese, but only in certain areas is it in sufficient quantities to constitute a rhodochrosite ore body.

Two smaller veins, exposed on the surface, were cut on the 400 level, but only the north vein shows potentially minable rhodochrosite ore.

Minable rhodochrosite (15+ percent manganese) within the main vein appears to occur in three ore bodies, two of which together constitute the central ore body. The easternmost of these begins just east of the old 405 E raise, at a mineralized cross fault, and extends east to the face of the 400 level, a distance of 200 feet. It is 4 to 8 feet thick and averages 20 to 25 percent manganese. It is also exposed in the 407 raise, 100 feet above the 400 level, but unfortunately the area above the 400 level was largely stoped in early operation and, although some ore remains on the hanging wall, it will probably not be economically recoverable. The 200 and 300 levels are not accessible in the vicinity of this ore body.

Most of the rhodochrosite production to date has come from the central ore body. Actually this body appears to consist of two minable ore shoots separated by a zone averaging 10 to 15 percent manganese, which cannot be considered ore under present prices but which is geologically within the mineralized zone. One high-grade shoot, exposed in the west incline, extends from about 130 feet below the surface to somewhere between the 300 and 400 levels. It is exposed on the 200 level for a distance of 200 feet and on the 300 level for 150 feet. The second ore shoot is exposed

for a distance of 225 feet on the 400 level, beginning 60 feet east of the shaft crosscut. It has been largely stoped above this level to the east end of the 300 level, but is untouched below the 400 level. Low-grade manganiferous material, averaging 10 to 15 percent manganese, also surrounds these shoots.

The high-grade shoots are characteristically developed between the hanging wall and a subsidiary fault. They average about 8 feet thick in the central parts where the bounding faults form sharp walls. Near the margins, in many places, the ore body breaks away from the hanging wall, the subsidiary fault disappears, and the shoot fingers out either into low-grade ore or barren vein material.

Ore reserves

The ore reserves of the Minnie Jane mine were appraised most recently just before the property closed down late in 1944. At that time most of the readily accessible ore reserves had been mined out, and at about that time the workings above the 200 level caved. Therefore, reserve blocks shown on plate 4 above that level and between the 200 and 300 levels are now largely inaccessible.

The reserves now estimated are summarized in the following tables.

				Reserves		
Block	L.	W.	Th.	percent Mn	Long tons	Category	Status 1951
I to IV							Mined out or caved
V			6	10-15	1000	Indicated	Uncertain
					1000	Inferred	"
VI			8	20	500	Indicated	Probably inaccessible
VII			10	15-20	1200	Indicated	
VIII			10	10-15	4000	Indicated	
IXA			9	10-15	1400	Measured	
IX			10	10-15	15000	Indicated	
X							Mined out
XI			4	15-20	500	Indicated	
XII			5	15-20	1000	Indicated	
XIII			5	15-20	1000	Measured	
			5	15-20	1500	Indicated	
XIV			10	10-15	4000	Indicated	
XV			5	15-20	2500	Inferred	
XVI							Shaft pillar
XVII							Included in XIX
XVIII	250 x 125 x 6			10-15	18000	Inferred	
XIX	200 x 350 x 6			10-20	25000*	Inferred	
XX	200 x 300 x 6			10-20	20000*	Inferred	

* Tonnage divided by 2 assuming that about half the block would prove to be ore, based on work above the 400 level.

Summary

Measured	2,400	* Tonnage divided by 2 assuming that about half the block would prove to be ore, based on work above the 400 level.
Indicated	30,000**	
Inferred	45,000**	
Total	80,000**	** Round figures

Measured reserves in the mine are limited to a few isolated blocks above old stopes. The indicated and inferred reserves are ~~are~~ in three blocks, mostly below the 400-level. Reports of rhodochrosite on the 500 and 600 levels, together with information from Bureau of Mines drill holes, seems to indicate that the ore shoots exposed in the upper parts of the mine extend downward to at least that level. Unfortunately the ore shoot exposed in the east end of the 400 level apparently rakes off into ACM ground.

Although there is every reason geologically to expect the mineralization to extend downward as has been shown, "inferred ore" has here been carried to, if not beyond its usual limits; indeed, part of the reserves here termed <u>inferred</u> are distinctly speculative in nature.

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JAMES E. MURRAY, MONT., CHAIRMAN
LISTER HILL, ALA.
MATTHEW M. NEELY, W. VA.
PAUL H. DOUGLAS, ILL.
HUBERT H. HUMPHREY, MINN.
HERBERT H. LEHMAN, N. Y.
JOHN O. PASTORE, R. I.
ROBERT A. TAFT, OHIO
GEORGE D. AIKEN, VT.
H. ALEXANDER SMITH, N.J.
WAYNE MORSE, OREG.
IRVING M. IVES, N. Y.
RICHARD M. NIXON, CALIF.
WILLIAM H. COBURN, CHIEF CLERK

United States Senate

COMMITTEE ON
LABOR AND PUBLIC WELFARE

April 2, 1952

Mr. Howard I. Young
Deputy Administrator
Defense Materials Procurement Agency
Washington 25, D. C.

Re: DMEA - 2342X
W. Mc.C. White

Dear Howard:

Enclosed please find some correspondence on the above-numbered docket which I call to your personal attention as you asked me to do in the instance of these borderline cases in the "cloudy area" which like sin in a parsonage is not supposed to exist but sometimes raises its ugly head and confounds the moralists. You will note Mr. Lyon suggested applying for an exploration project in this case.

Canada Tree Mining Co. (Cafferty Gold Mining) denied

I wonder, also, what final decision will be made in the case of DMEA 2323 which I called to your attention some time ago, and which I understand has been rejected.

It is very unfortunate that DMEA-1 could not have been revised to take care of these situations, more of which I understand shortly will arise, or that DMPA policies could not be enlarged to take in these cases.

Sincerely,

W. C. BROADGATE
Consultant to Senator Murray

cc: W. McC. White
C. O. Mittendorf

JAMES E. MURRAY, MONT., CHAIRMAN
LISTER HILL, ALA.
MATTHEW M. NEELY, W. VA.
PAUL H. DOUGLAS, ILL.
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WILLIAM H. COBURN, CHIEF CLERK

United States Senate

COMMITTEE ON
LABOR AND PUBLIC WELFARE

April 2, 1952

Mr. W. McC. White, President
Butte Mines Merger Corporation
R. F. D. No. 1, Box 53
Butte, Montana

Re: 2342-X

Dear Mr. White:

I note the correspondence withdrawing your exploration application. We have had the matter of these borderline cases up with Messrs. Larson and Young for some time and have hoped to get a decision before now. I know Mr. Young has taken great interest in making a policy which would eliminate this "cloudy area" as we have been terming it. Senator Murray is much concerned about the situation as more cases turn up.

I do want to point out that the RFC has nothing whatever to do with exploration grants, DMEA having its own funds for the purpose.

Sincerely yours,

W. C. BROADGATE
Consultant to Senator Murray

cc: C. O. Mittendorf
Julian Feiss

2342 X
withdrawn

MAR 5 1952

Exploration

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

Gentlemen:

We beg to withdraw our application - Docket No. DMEA 2342X - Manganese, Minnie Jane Mine, Silver Bow County, Montana, for the following reasons:

1st. When the application was filed, we did not fully understand the rules governing administration of an exploration loan. It was made mainly at the suggestion of Mr. Tom Lyon.

2nd. The work we contemplated would be entirely related to production.

3rd. If the loan should be authorized, it would be administered under the regulations set forth in MO-5.

4th. If granted, the loan would, in effect, be void in the absence of exploration work.

We will appreciate your permitting us to withdraw the application.

Very truly yours,

BUTTE MINES MERGER CORPORATION

WMcCW-S

W. McC. White, President.

MAR 28 1952

Mr. C. O. Mittendorf, Acting Administrator,
Defense Minerals Exploration Administration,
Washington 25, D. C.

RE: Docket No. DMEA 2342X - Manganese
Minnie Jane Mine
Silver Bow County, Montana.

Dear Mr. Mittendorf:

We thank you for your letter dated March 5 which came to hand a few days ago. It is fine of you to try to ease the situation for us. We have been mining the Minnie Jane for around thirty years, and during that period also did a lot of underground work in connection with litigation. We know where the carbonate ore is situated and our present job is to clean up and equip old workings. There is enough ore between the 400 level and the grass roots to keep us employed for several years.

In Washington it seems that not much credit is given to our reports, but we wish to verify at least one of them to some extent. Mr. S. H. Lorain was in charge of the Bureau of Mines, with headquarters in Idaho, when he visited the Minnie Jane. He is now, we believe, in charge of Bureau operations in Alaska. A copy of his assay map was sent with our application. Please refer to it and note his statement in the upper right hand end of the map in reference to one ore body which he saw. Also note the assays on the 400 sill just below which are around 35 to 36%. This ore body is large and extends from the 400 level to within 50 feet of the surface of shaft No. 2. There were other phases to show Mr. Lorain, but the entries to reach them were closed.

Why Mr. Lyon and Mr. Parsons should BLUE PENCIL all of our ground between the 200 and 400 levels and jump down from the 200 to a winze below the 400, we cannot understand. That area so ignored by them is 1100 feet in length by 300 feet on the incline and is pregnant with manganese carbonate ore. All talk about the winze has come from Washington. We have said nothing about it and will not consider it until the ore above the 400 level is cleaned up.

Now as to our application for an exploration loan. We have concluded that we were ill-advised and hasty in filing the application. We have nothing to explore and it is highly probable that in the event the loan being

authorized, the RFC would hold strictly to MO-5, to which no legitimate objection could be offered as our job is purely associated with production.

In our opinion, the only thing to do is to withdraw our application, and we are taking the liberty of notifying the Defense Minerals Administration to that effect.

Very truly yours,

BUTTE MINES MERGER CORPORATION

W. McC. White, President.

WMcCW-S

2342

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

So. 157 Howard Street
Spokane 4, Washington

March 20, 1952

Memorandum

To: Operating Committee, Defense Minerals Exploration Administration
Washington 25, D. C.

From: DMEA Field Team, Region II

Subject: Docket No. DMEA 2342X, Manganese
Minnie Jane Mine
Silver Bow County, Montana

Attention: Mr. George Selfridge
Acting Chief, Iron and
Ferro-Alloy Division, DMEA

Enclosed are the original and three copies of a memorandum prepared by J. J. Quinlan, U. S. Geological Survey, concerning a proposed exploration program for the Minnie Jane mine. The last paragraph of the memorandum details matters the Field Team believes should be considered in the preparation of a contract.

Mr. Quinlan has pointed out some factors that should be taken into account in the detailed writing of a contract, but inasmuch as we are in essential agreement concerning the proposed exploration, the letter to Mr. W. McG. White sent to this office has been mailed to him.

By DMEA Field Team, Region II

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

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

Enclosure
cc: USBM, Spokane
USBM, Albany

[illegible]
Defense [illegible] Administration
[illegible]
MAR 2[illegible] 1952

400's file

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

Reviewed by
DMEA OPERATING COMMITTEE
3-31-52
(date)

So. 157 Howard Street
Spokane 4, Washington

March 20, 1952

Memorandum

To: A. E. Weissenborn, Exec. Officer, DMEA Field Team, Region II

From: J. J. Quinlan, Geologist, U. S. Geological Survey

Subject: Docket No. DMEA 2342X, Manganese, Minnie Jane Mine, Silver Bow County, Montana.

A letter dated March 5, 1952, addressed to Mr. W. McC. White, President, Butte Mines Merger Corporation, from C. O. Mittendorf, Acting Administrator, DMEA, was sent to this office for review. The letter outlines the following exploration program for the Minnie Jane mine, which might be given favorable consideration by the DMEA if acceptable to the applicant.

(1) Rehabilitate the Minnie Jane No. 1 vertical shaft to the 200 level, replacing the timber only where necessary and without enlarging the size of the shaft.

(2) Rehabilitate the 200 level east to the face to the extent necessary for tramming.

(3) Drive the face eastward approximately 150 feet.

(4) From the 200 level east, drive a maximum of 300 feet of raise, where warranted.

If, after reviewing the proposed program, we had no objections to the work outlined or not other ideas with regards to the program, it was requested that the letter be forwarded to Mr. W. McC. White.

At your request, I reviewed the information available on the Minnie Jane mine in the Spokane files of the USBM and USGS. The USGS file contains an excellent set of maps of the Minnie Jane mine accompanying a report by Sherman K. Neuschel and Max D. Crittenden, Jr. 1/

1/ Sherman K. Neuschel and Max D. Crittenden, Jr.; Report on the Rhodochrosite Reserves in West Butte and Philipsburg Districts, Silver Bow and Granite Counties, Montana, December 1943, maps revised October, 1944, U. S. Geological Survey Strategic Minerals Investigations.

The maps show that the 200 level east drift extends 580 feet east of the No. 1 vertical shaft. The first 195 feet of drift was accessible at the time of Neuschel and Crittenden's examination, the remaining 385 feet of drift was inaccessible and plotted from an existing map. The maps show that by extending the east drift face 45 feet, workings from the east incline shaft will be encountered. The workings from the east incline shaft extend along the Minnie Jane vein into ground controlled by the Anaconda Copper Mining Company. Therefore, the program to extend the east face 150 feet did not appear justified.

I called Mr. George Selfridge, Acting Chief, Iron and Ferro-Alloy Division, DMEA, on March 11, 1952, to determine whether Washington was aware of Neuschel and Crittenden's maps. Mr. Selfridge informed me that Washington was aware of the maps and that Max D. Crittenden, Jr. aided in formulating the proposed program. Crittenden was not sure as to the accuracy of the map from which the inaccessible workings were plotted; therefore, 150 feet of drifting was allowed in section (3) of the proposed program to allow ample funds to make the connection with the east incline working. Since we were in agreement with the general program as outlined in the letter, it was decided that action on the application would be speeded by forwarding the letter to Mr. W. McC. White and by sending a memorandum to Washington concerning matters this office believed should be considered in the preparation of a contract. Therefore, the following suggestions are made:

Sections (1), (2), and (4) of the proposed program are satisfactory. I believe matters may be clarified by changing section (3) to read: Extend the 200 level east drift from the No. 1 vertical shaft by drifting a maximum distance of 150 feet to connect with workings from the east incline shaft. Funds should be made available to rehabilitate the 200 level in the vicinity of the east incline shaft to the extent necessary for inspection, sampling, and trenching. Allowances should be made for geologic mapping, sampling, and assaying of the rehabilitated areas and areas of new work.

cc: USBM, Spokane
USBM, Albany

J. J. Quinlan

file

[illegible] 1952

Dr. A. H. [illegible]
Executive Officer
[illegible]
[illegible]
Spokane 6, Washington

Re: Docket No. [illegible]
([illegible])
[illegible]
[illegible] County, Montana

Dear Dr. [illegible]:

Attached is a letter addressed to Dr. [illegible], President, [illegible] Corporation, [illegible], Montana, concerning a mineral exploration project that might be given favorable consideration if satisfactory to applicant. Please review and if you have no objections to the work as outlined, or other ideas with regard to the program for the [illegible] Mine, please forward the above-mentioned letter to the applicant.

In case you feel that some other program would be beneficial in connection with the exploration project, please feel free to make your suggestions known to the applicant so you will be in a position to submit a proposal that will be satisfactory to all concerned.

Sincerely yours,

(signed) FRANK E. JOHNSON

Frank E. Johnson
Chairman, Operating Committee

Enclosure 1

FEJohnson/hb

Copy to: Adm. Reading File
Docket
DMEA Operating Committee
N. B. Melcher, BM
M. D. Crittenden, USGS
T. P. Thayer, Rm. 5216 GS
J. H. Hodges, Rm. 4604
✓G. C. Selfridge

3/7/52

Mr. Selfridge:

Note that Mr. Johnson did not send the letter to Mr. White of Butte Mines Merger Corp. direct to him, but transmitted same to Mr. Weissenborn for review and forwarding.

ls

GCS

MAR 5 1952

file

Mr. W. McC. White, President
Butte Mines Merger Corporation
R. F. D. 1, Box 53
Butte, Montana

Re: Docket No. DMEA 23425 - Manganese
Minnie Jane Mine
Silver Bow County, Montana

Dear Mr. White:

This is in reply to your letters of February 16 and to supplement our letter of February 8 to you.

Since the work proposed in your application is largely rehabilitation for production, we have reviewed the various dockets of DMA, DMEA, and DMSA relating to your property in conjunction with other information available to us in Washington. The review of the information suggested that the following proposed exploration program would be allowable under the rules and regulations set forth in Mineral Order No. 5:

(1) Rehabilitate the Minnie Jane No. 1 vertical shaft to the 200 level, replacing the timber only where necessary and without enlarging the size of the shaft.

(2) Rehabilitate the 200 level east to the face to the extent necessary for tramming.

(3) Drive the face eastward approximately 150 feet.

(4) From the 200 level east, drive a maximum of 300 feet of raise, where warranted.

This program is suggested as a preliminary step which may be varied reasonably by amendment, with the hope that sufficient manganese ore will be indicated to warrant additional work in the mine.

If this program meets your approval, we shall be glad to present it for favorable consideration. It would not limit additional activity in the mine, but such activity would have to be for company account. In certain cases, such as supervision, power, etc., the cost would have to be equitably pro-rated between the exploration project and other activity.

To present the application for consideration, we will need additional information regarding time schedules and costs. The rehabilitation of the vertical shaft can be taken as an example. An estimate of the time to complete the rehabilitation of the shaft and an estimate of the number of men to be employed and their labor classification can be made. You have already submitted the wage scale, but you did not submit the number of laborers. An estimate should be given as to the timber required or any other material or supplies as pipe, spikes, etc.

The rehabilitation and driving of the 200-foot level and the driving of the raises should be handled in the same way by furnishing for each a time estimate and a breakdown of the costs into labor and supervision, materials, supplies, power, etc., the sum of which will give the overall cost. We could only allow that equipment necessary for the rehabilitation and driving of the drift and the raises. In this particular case, any production from the mine would be subject to the royalties outlined in Mineral Order No. 5.

Possibly you might be able to make the estimates without waiting to enter the mine. If not, then please submit them in detail so that a minimum of time will be lost in correspondence before a contract may be drawn up.

May we have your reaction to the proposed program or any comments thereon in the near future?

Sincerely yours,

Acting Administrator
Defense Minerals Exploration
Administration

GCSelfridge:ls
2/27/52

cc: Admn. Reading File
Docket
Field Team, Region 2
N. B. Melcher, USBM
M. D. Crittenden, USGS
G. C. Selfridge

FEB 29 1952

Mr. N. McC. White, President
Butte Mines Merger Corporation
R. F.D. 1, Box 53
Butte, Montana

Re: Docket No. DMSA 2342X - Manganese
Minnie Jane Mine
Silver Bow County, Montana

Dear Mr. White:

This is to acknowledge receipt of your letter of February 16, 1952, regarding the subject property.

We have studied all existing information available to us and have made a recommendation in accordance with the rules and regulations of Mineral Order No. 5 to the Administrator. You should hear from the Administrator in the very near future.

Sincerely yours,

George C. Selfridge

G. C. Selfridge, Chief
Iron and Ferro-Alloy Division

GCSelfridge:ls
2/27/52

cc: Admn. Reading File
Docket
Field Team, Region 2
N. B. Melcher, USBM
M. D. Crittenden, USGS
G. C. Selfridge:ls

file

FEB 8 1952

Mr. W. McG. White, President
Butte Miami Mangan Corporation
R.F.D. No. 1, Box 53
Butte, Montana

Re: Docket No. [illegible] - Manganese
Miami Jane Mine
Silver Bow County, Montana

Dear Mr. White:

In order to continue our review of your application dated January 16, 1952, on our the subject docket, it will be necessary that you furnish us with the following information:

1. Details of the work involved in repairing the shaft from head frame to sump, the time required and an itemized statement of the estimated costs.

2. Details of the work and estimated costs of reconditioning stations, drifts, crosscuts and raises and the time required.

3. Estimated costs and time in extending the 200 level for a distance of 150 feet.

4. List clearly the objectives for each of the above operations.

May we hear from you at your earliest convenience?

Sincerely yours,

George C. Selfridge

G. C. Selfridge, Acting Chief
Iron and Ferro-Alloy Division

GCSentry'lm
2/7/52

cc: Admn. Reading File
Docket
H. R. Melcher, USBM
H. D. Gritzmacher, USGS
Field Team Reg. II
G. C. Selfridge
G. S. Gentry

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

April 7, 1952

Memorandum

To: George C. Selfridge, DMEA

From: Norwood B. Melcher, Bureau of Mines

Subject: DMEA 2342 - Manganese, Minnie Jane Mine, Silver Bow County, Montana

R. I. 3801, Summary of Bureau of Mines Exploration Projects on Deposits of Raw Material Resources for Steel Production (1945) by C. E. Julihn and Lowell B. Moon contains the following (pp. 17-21) concerning this mine:

Projects 311 and 311.1 - Minnie Jane - Tzarina. These explorations at Butte showed 200,000 tons of 20 percent manganese ore and 92,000 tons of 12 percent ore. They contributed to the provision of a treatment plant by the Defense Plant Corporation, to which they supplied a considerable tonnage of ore.

Mine	Started	Finished	Exploration	Ore Reserves	
				Tons	Grade
Minnie Jane	5/41	9/41	Sampling underground workings and drilling	200,000	20%
Tzarina	5/42	1/43	Diamond drilling for total of 3,189 ft. and 83 channel samples	46,000 oxide 48,000 carbonate	12% 11.7%

Remarks: Minnie Jane - On 300- or 400-ft. level. Vein 11 ft. wide by 700 ft. long. Mine producing 140 tons a day.

Tzarina - Complete production 500 tons 17% Mn per mo. Moderate reserve of low-grade manganese ore.

Copy retained 400

R. I. 4117, Beneficiation of Western Manganese Ores (1947), by C. H. Schack and H. G. Poole, contains the following data (p. 31):

Property	Class of ore	Grade Mn Percent	Recovery At 35-40 Mn	Recovery At 44 Mn	Recovery At 48 Mn	Size started	Method
Minnie Jane (Stockpile)	Manganese carbonate	24.5	--	--	83.2	100-mesh	1,3d,3a,5a
Minnie Jane (Mine)	"	16.6	--	--	82.9	28-mesh	1,2d,3a,3d, 3a,5a
Minnie Jane (Mine)	"	.	--	--	71.3	200-mesh	1,3d,3a,5a
Minnie Jane (Low grade)	"	10.8	--	--	68.6	28-mesh	1,2d,2a,3d, 3a,5a
Tzarina	"	6.1	69.5	--	--	100-mesh	1,3d,3a,5a
Tzarina	"	10.7	--	75.3	50.2	150-mesh	1,3d,3a,5a

1. Crushing, grinding, and sizing.
2a. Log washing and attrition grinding.
2d. Table concentration.
3a. Fatty acid flotation.
3d. (Method not given in report).
5a. Sintering and nodulizing.

Since this mine produced 50,000 tons of acceptable ore during World War II and the ore is capable of being beneficiated successfully, it is believed that exploration for new ore is warranted.

Robert W. Geehan

Robert W. Geehan, for
Norwood B. Melcher

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

April 7, 1952

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FSillerm:lds
Copy to: Field Team
Ferrous Metals
Mr. Sillerm
F i l e s

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Norwood B. Melcher

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

April 7, 1952

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From: Norwood B. Melcher, Bureau of Mines

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Robert W. Geehan, for
Norwood B. Melcher

BUTTE MINES MERGER CORPORATION
R. F. D. NO. 1, BOX 53 PHONES 2-3701, 2-3858
BUTTE, MONTANA

W. McC. WHITE
PRESIDENT

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 31 1952

MAR 28 1952

Exploration

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

Gentlemen:

We beg to withdraw our application - Docket No. DMEA 2342X - Manganese, Minnie Jane Mine, Silver Bow County, Montana, for the following reasons:

1st. When the application was filed, we did not fully understand the rules governing administration of an exploration loan. It was made mainly at the suggestion of Mr. Tom Lyon.

2nd. The work we contemplated would be entirely related to production.

3rd. If the loan should be authorized, it would be administered under the regulations set forth in MO-5.

4th. If granted, the loan would, in effect, be void in the absence of exploration work.

We will appreciate your permitting us to withdraw the application.

Very truly yours,

BUTTE MINES MERGER CORPORATION

W. McC. White, President.

WMcCW-S

BUTTE MINES MERGER CORPORATION
R. F. D. NO. 1, BOX 53 PHONES 2-3701, 2-3858
BUTTE, MONTANA

W. McC. WHITE
PRESIDENT

MAR 28 1952
DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 31 1952

Mr. C. O. Mittendorf, Acting Administrator,
Defense Minerals Exploration Administration,
Washington 25, D. C.

RE: Docket No. DMEA 2342X - Manganese
Minnie Jane Mine
Silver Bow County, Montana.

Dear Mr. Mittendorf:

We thank you for your letter dated March 5 which came to hand a few days ago. It is fine of you to try to ease the situation for us. We have been mining the Minnie Jane for around thirty years, and during that period also did a lot of underground work in connection with litigation. We know where the carbonate ore is situated and our present job is to clean up and equip old workings. There is enough ore between the 400 level and the grass roots to keep us employed for several years.

In Washington it seems that not much credit is given to our reports, but we wish to verify at least one of them to some extent. Mr. S. H. Lorain was in charge of the Bureau of Mines, with headquarters in Idaho, when he visited the Minnie Jane. He is now, we believe, in charge of Bureau operations in Alaska. A copy of his assay map was sent with our application. Please refer to it and note his statement in the upper right hand end of the map in reference to one ore body which he saw. Also note the assays on the 400 sill just below which are around 35 to 36%. This ore body is large and extends from the 400 level to within 50 feet of the surface of shaft No. 2. There were other phases to show Mr. Lorain, but the entries to reach them were closed.

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authorized, the RFC would hold strictly to MO-5, to which no legitimate objection could be offered as our job is purely associated with production.

In our opinion, the only thing to do is to withdraw our application, and we are taking the liberty of notifying the Defense Minerals Administration to that effect.

Very truly yours,

BUTTE-MINES MERGER CORPORATION

W. McC. White, President.

WMcCW-S

OFFICE OF THE ADMINISTRATOR

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION

WASHINGTON 25, D. C.

So. 157 Howard Street
Spokane 4, Washington

March 20, 1952

Memorandum

To: Operating Committee, Defense Minerals Exploration Administration
Washington 25, D. C.

From: DMEA Field Team, Region II

Subject: Docket No. DMEA 2342X, Manganese
Minnie Jane Mine
Silver Bow County, Montana

Attention: Mr. George Selfridge
Acting Chief, Iron and
Ferro-Alloy Division, DMEA

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Mr. Quinlan has pointed out some factors that should be taken into account in the detailed writing of a contract, but inasmuch as we are in essential agreement concerning the proposed exploration, the letter to Mr. W. McC. White sent to this office has been mailed to him.

By DMEA Field Team, Region II

A. E. Weissenborn

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

M. E. Volin

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

Enclosure
cc: USBM, Spokane
USBM, Albany

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 27 1952

TF-500

UNITED STA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 4-2-52

REFERRED TO:

1. CODE 400-Amd. 3538
2.
3.
4.

FOR:

---------- Action	---------- Recommendation
---------- Approval	---------- Record of ----------
---------- Comment	---------- Referring to ----------
---------- Conference	---------- Reply for signature of ----------
---------- Consideration	---------- Rewriting
---------- Filing	---------- Signature
---------- Instructions	---------- Suggestions
---------- Investigation	---------- Your information
---------- Initials	
---------- Mailing	
---------- Previous correspondence	

REMARKS: ----------

Check (X) before the items needing attention.

Adams (AA)
Initials of sender.

GPO 16—63815-1

OFFICE OF THE ADMINISTRATOR

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

Reviewed by
DMEA OPERATING COMMITTEE
3-31-52.
(date)

March 20, 1952

Memorandum

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From: J. J. Quinlan, Geologist, U. S. Geological Survey

Subject: Docket No. DMEA 2342X, Manganese, Minnie Jane Mine, Silver Bow County, Montana.

A letter dated March 5, 1952, addressed to Mr. W. McC. White, President, Butte Mines Merger Corporation, from C. O. Mittendorf, Acting Administrator, DMEA, was sent to this office for review. The letter outlines the following exploration program for the Minnie Jane mine, which might be given favorable consideration by the DMEA if acceptable to the applicant.

(1) Rehabilitate the Minnie Jane No. 1 vertical shaft to the 200 level, replacing the timber only where necessary and without enlarging the size of the shaft.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 2 7 1952

(2) Rehabilitate the 200 level east to the face to the extent necessary for tramming.

(3) Drive the face eastward approximately 150 feet.

(4) From the 200 level east, drive a maximum of 300 feet of raise, where warranted.

If, after reviewing the proposed program, we had no objections to the work outlined or not other ideas with regards to the program, it was requested that the letter be forwarded to Mr. W. McC. White.

At your request, I reviewed the information available on the Minnie Jane mine in the Spokane files of the USBM and USGS. The USGS file contains an excellent set of maps of the Minnie Jane mine accompanying a report by Sherman K. Neuschel and Max D. Crittenden, Jr. 1/

1/ Sherman K. Neuschel and Max D. Crittenden, Jr.; Report on the Rhodochrosite Reserves in West Butte and Philipsburg Districts, Silver Bow and Granite Counties, Montana, December 1943, maps revised October, 1944, U. S. Geological Survey Strategic Minerals Investigations.

The maps show that the 200 level east drift extends 580 feet east of the No. 1 vertical shaft. The first 195 feet of drift was accessible at the time of Neuschel and Crittenden's examination, the remaining 385 feet of drift was inaccessible and plotted from an existing map. The maps show that by extending the east drift face 45 feet, workings from the east incline shaft will be encountered. The workings from the east incline shaft extend along the Minnie Jane vein into ground controlled by the Anaconda Copper Mining Company. Therefore, the program to extend the east face 150 feet did not appear justified.

I called Mr. George Selfridge, Acting Chief, Iron and Ferro-Alloy Division, DMEA, on March 11, 1952, to determine whether Washington was aware of Neuschel and Crittenden's maps. Mr. Selfridge informed me that Washington was aware of the maps and that Max D. Crittenden, Jr. aided in formulating the proposed program. Crittenden was not sure as to the accuracy of the map from which the inaccessible workings were plotted; therefore, 150 feet of drifting was allowed in section (3) of the proposed program to allow ample funds to make the connection with the east incline working. Since we were in agreement with the general program as outlined in the letter, it was decided that action on the application would be speeded by forwarding the letter to Mr. W. McC. White and by sending a memorandum to Washington concerning matters this office believed should be considered in the preparation of a contract. Therefore, the following suggestions are made:

Sections (1), (2), and (4) of the proposed program are satisfactory. I believe matters may be clarified by changing section (3) to read: Extend the 200 level east drift from the No. 1 vertical shaft by drifting a maximum distance of 150 feet to connect with workings from the east incline shaft. Funds should be made available to rehabilitate the 200 level in the vicinity of the east incline shaft to the extent necessary for inspection, sampling, and tramming. Allowances should be made for geologic mapping, sampling, and assaying of the rehabilitated areas and areas of new work.

cc: USBM, Spokane
USBM, Albany

J. J. Quinlan

FILE COPY
SURNAME:

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

MAR 5 1952

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

Re: Docket No. DMEA-2342X
(Manganese)
Minnie Jane Mine
Silver Bow County, Montana

Dear Mr. Weissenborn:

Attached is a letter addressed to Mr. W. McC. White, President, Butte Mines Merger Corporation, Butte, Montana, concerning a suggested exploration project that might be given favorable consideration if satisfactory to applicant. Please review and if you have no objections to the work as outlined, or other ideas with regard to the program for the Minnie Jane Mine, please forward the above-mentioned letter to the applicant.

In case you feel that some other program would be beneficial in connection with the exploration project, please feel free to make your suggestions known to the applicant so you will be in a position to submit a proposal that will be satisfactory to all concerned.

Sincerely yours,

cc 3/5/52

(signed) FRANK E. JOHNSON

Frank E. Johnson
Chairman, Operating Committee

Enclosure 1

FEJohnson/hb

Copy to: Adm. Reading File
Docket
DMEA Operating Committee
N. B. Melcher, BM
M. D. Crittenden, USGS
T. P. Thayer, Rm. 5216 GS
J. H. Hedges, Rm. 4604
G. C. Selfridge

FILE COPY
SURNAME:

Selridge
Nolley
Cottendy
Thayer
Hedges
Hyman

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

Mr. W. McC. White, President
Butte Mines Merger Corporation
R. F. D. 1, Box 53
Butte, Montana

Re: Docket No. DMEA 2342X - Manganese
Minnie Jane Mine
Silver Bow County, Montana

Dear Mr. White:

This is in reply to your letters of February 16 and to supplement our letter of February 8 to you.

Since the work proposed in your application is largely rehabilitation for production, we have reviewed the various dockets of DMA, DMPA, and DMEA relating to your property in conjunction with other information available to us in Washington. The review of the information suggested that the following proposed exploration program would be allowable under the rules and regulations set forth in Mineral Order No. 5:

(1) Rehabilitate the Minnie Jane No. 1 vertical shaft to the 200 level, replacing the timber only where necessary and without enlarging the size of the shaft.

(2) Rehabilitate the 200 level east to the face to the extent necessary for tramming.

(3) Drive the face eastward approximately 150 feet.

(4) From the 200 level east, drive a maximum of 300 feet of raise, where warranted.

This program is suggested as a preliminary step which may be varied reasonably by amendment, with the hope that sufficient manganese ore will be indicated to warrant additional work in the mine.

If this program meets your approval, we shall be glad to present it for favorable consideration. It would not limit additional activity in the mine, but such activity would have to be for company account. In certain cases, such as supervision, power, etc., the cost would have to be equitably pro-rated between the exploration project and other activity.

To present the application for consideration, we will need additional information regarding time schedules and costs. The rehabilitation of the vertical shaft can be taken as an example. An estimate of the time to complete the rehabilitation of the shaft and an estimate of the number of men to be employed and their labor classification can be made. You have already submitted the wage scale, but you did not submit the number of laborers. An estimate should be given as to the timber required or any other material or supplies as pipe, spikes, etc.

The rehabilitation and driving of the 200-foot level and the driving of the raises should be handled in the same way by furnishing for each a time estimate and a breakdown of the costs into labor and supervision, materials, supplies, power, etc., the sum of which will give the overall cost. We could only allow that equipment necessary for the rehabilitation and driving of the drift and the raises. In this particular case, any production from the mine would be subject to the royalties outlined in Mineral Order No. 5.

Possibly you might be able to make the estimates without waiting to enter the mine. If not, then please submit them in detail so that a minimum of time will be lost in correspondence before a contract may be drawn up.

May we have your reaction to the proposed program or any comments thereon in the near future?

Sincerely yours,

C. O. Mittenderf (for)

Acting Administrator
Defense Minerals Exploration
Administration

GCSelfridge:ls
2/27/52

cc: Admn. Reading File
Docket
Field Team, Region 2
N. B. Melcher, USBM
M. D. Crittenden, USGS
G. C. Selfridge

400

FILE COPY
SURNAME:

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

Selfridge
Mitt

FEB 29 1952

Mr. W. McC. White, President
Butte Mines Merger Corporation
R. F.D. 1, Box 53
Butte, Montana

Re: Docket No. DMEA 2342X - Manganese
Minnie Jane Mine
Silver Bow County, Montana

Dear Mr.White:

This is to acknowledge receipt of your letter of February 16, 1952, regarding the subject property.

We have studied all existing information available to us and have made a recommendation in accordance with the rules and regulations of Mineral Order No. 5 to the Administration. You should hear from the Administrator in the very near future.

Sincerely yours,

George C. Selfridge

G. C. Selfridge, Chief
Iron and Ferro-Alloy Division

S.N. 2-29-52

GCSelfridge:ls
2/27/52

cc: Admn. Reading File
Docket
Field Team, Region 2
N. B. Melcher, USBM
M. D. Crittenden, USGS
G. C. Selfridge:ls

DMEA 2342-X

DMPA denies loan as not sufficient tonnage to warrant it.
Biggest application east of No. 1 shaft & above 200L.

NSRB-146 Rehabilitation of incline shaft and levels $30,000. Hoist, shaft, etc. $15,000.00
Repair to vertical shaft to reach 15-18 Mn, shipped working capital $8,500 + mined $6,500 = $60,000.
Says 100,000 tons available.
[illegible]
2. [illegible]
shipped 46,000 tons of [illegible] ore to 1938
52,000 " " MnCO3 ore 1942-1945 = 17% Mn

Mat. Minable N [illegible]
2 level workings caved ± 1944. (Rotten fault or drag grounds)
[illegible]
±80,000 tons reserves largely inferred & indicated.
What are [illegible]
[illegible] No. 6, [illegible]

Johnson: Estimates mining @ $10.00/ton hoisting $1.00 = $11.00
worth $16.27/ton for 12% Mn ore, may pick up a little Mn on schedule?

Map on 2342 W. [illegible] production during war grade fell from 20% to 10% in open part of mine.
Another 50,000 tons expectable.

[illegible]

Letter Dec 7, 1951 Rehab. vert shaft to 250, raising from surface to 200 $25,000. 5,000 from 2-400. $25,000 [illegible] 200 ft

OVER:

Feb. 19, 1952

Mr. W. McC. White, President
Butte Mines Manganese Corp.
R.F.D No. 1, Box 53
Butte, Montana

Re: Docket No. DMEA 2342, Manganese
Minnie Jay Mine
Silver Bow County, Montana.

Dear Mr. McC. White:

Supplementing our Letter to you dated Feb. 7, 1952 in Reference to your Application for assistance as per the Subject Docket, wherein you have applied for an Exploration Loan in the amount of $60,000.00.

According to your Letter dated July 28, 1951, addressed to Mr. George Selfridge, Manganese Branch, D.M.A., Finlen Hotel, Butte, Montana, the distribution of the Funds was to be made in the following manner:

1) Sinking a new 2½ Compartment inclined shaft to a depth of 200 ft. and cut shaft stations, drive cross cuts and drifts, cut loading pockets, install headframe and other work, at a cost of $30,000.00
2) Purchase hoisting machinery, installation & housing, $15,000.00
3) Purchase and install a Waterline $2,000.00
4) Purchase Slushers and Jackhammer $3,000.00
5) Repairs to Vertical shaft and Working Capital $10,000.00

$60,000.00

The Work and expenditures as Listed above appear to Come under the heading of "Preparation for Mining" as defined in Section 7, subparagraph(a) of Form M0-5, as amended. The Costs of Work prescented primarily for Mining or preparation for mining and for Rehabilitation purposes do not Come under the meaning of Exploration which is defined as follows:- The Work shall not go beyond a Reasonable delineation and sampling of the Ore.

it is Suggested that you might Consider a Limited program of Diamond drilling in order to delineate and Sample the Ore body in order to secure an adequate basis upon which to make a Later application for a production Loan.

May We hear from you at your earliest Convenience.

Sincerely Yours

Acting Chief
Iron and Ferro-Alloy Division.

BUTTE MINES MERGER CORPORATION
R. F. D. NO. 1, BOX 53 PHONES 2-3701, 2-3858
BUTTE, MONTANA

W. McC. WHITE
PRESIDENT

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 19 1952

February 16, 1952

Mr. G. C. Selfridge, Acting Chief
Iron and Ferro-Alloy Division,
Defense Minerals Administration,
Department of the Interior,
Washington 25, D. C.

RE: Docket No. DMEA 2342X - Manganese
Minnie Jane Mine
Silver Bow County, Montana.

Dear Mr. Selfridge:

Permit me to congratulate you upon being in Washington. I hope you will like it there.

We have answered your letter of February 8th, but if you will bear with me, I will go further into the situation.

The Minnie Jane vein and the strike fault are about 30 ft. wide between walls where the vein crosses the shaft. In 1929 a portion of the vein broke away and destroyed the shaft down to the 200 level where the shaft was bulkheaded. We retimbered the shaft from the 6th set down, after constructing a strong bulkhead where the vein had slipped and then backfilling the ground. The top 6 sets are soft and will require immediate renewal. We have always been a little uncertain about this part of the shaft and it was for this reason and the further reason that the vein is departing from the shaft about 80 feet to the 100, that we wrote you in July, 1951, about sinking a footwall incline shaft which could be extended from time to time. Later, in making a survey of the situation, we discovered that if this should be done, our surface workings would partially overlap ground that we do not own and cannot acquire, and, of course, this fact changed the situation. On the hanging wall side there is plenty of room, but the material is unsatisfactory.

Should MO-5 be strictly adhered to, I am not clear as to how far we could use it on the 200 level, as we expect to begin production at an early day, which will naturally slow down the repair work. It would perhaps be ideal on the 400 level if it should be decided to put on a swing shift to clean it up and equip it to the east portion where we have a lot of high grade carbonate ore. It would be important in the matter

of machinery we will require.

With kind regards, I am

Yours very truly,

W. McC. White, President.
BUTTE MINES MERGER CORPORATION.

BUTTE MINES MERGER CORPORATION
R. F. D. NO. 1, BOX 53 PHONES 2-3701, 2-3858
BUTTE, MONTANA

W. McC. WHITE
PRESIDENT

February 16, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 19 1952

Mr. G. C. Selfridge, Acting Chief
Iron and Ferro-Alloy Division,
Defense Minerals Administration,
Department of the Interior,
Washington 25, D. C.

RE: Docket No. DMEA 2342X - Manganese
Minnie Jane Mine
Silver Bow County, Montana.

Dear Mr. Selfridge:

Referring to your letter of 8th inst., we are unable to give you reasonably accurate estimates until we can get into the mine and make a survey. We will probably begin work sometime in March and should be able to submit estimates in early April. This applies to your questions 1 and 2.

Question 3 - "Estimated costs and time in extending the 200 level for a distance of 150 feet."

Answer: The cost will be about $3,000.00 and time required about 40 shifts. This being to ready the mining of carbonate ore above the drift. The work cannot be done until the 200 drift is cleared to the face and the track, air and water lines carried in.

Very truly yours,

BUTTE MINES MERGER CORPORATION

W. McC. White, President.

Memorandum
To: George Selfridge, DMEA
From: Max D. Crittenden
Subject: DMEA 2342

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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JAN 28 1952

The applicant, The Butte Mines Merger Corporation, operates the Minnie Jane mine in the western edge of the Butte district, Montana. This property is one of those active during World War II in supplying manganese carbonate ore to the Butte stockpile. During that period they produced almost 50,000 tons of material that averaged about 16% Mn. The property was originally developed many years ago for silver and gold, and manganese was encountered in the course of these operations, but was not removed because there was no market for it.

The World War II operations involved reopening the old workings and removing the shoots of manganese carbonate ore, most of which were between areas that had been mined earlier. This work did not require extensive development because the shafts and various levels were already in existence and only needed a moderate amount of rehabilitation. During that time the most readily accessible and the highest grade manganese carbonate ores were mined out. The first 30,000 tons produced during this period averaged better than 20% Mn. The last 15,000 tons averaged less than 14% Mn. This decrease in grade was due to their attempt to maintain production without undertaking development ~~from~~ of new orebodies.

In the fall of 1950 the operator of this mine and others from Butte came to Washington to request assistance to reopen and develop their properties. Until recently they have had hope of obtaining a production loan on the basis of reserves still believed to exist in the mine. It is clear that the reserves known are not sufficient to warrant

a production loan but the prospects for discovering ore appear to be reasonable, and the operators therefore have been encouraged to apply for exploration assistance.

The present application is inadequate in that it does not list clearly the objectives of the proposed exploration, nor does it detail sufficiently the estimated costs to attain those objectives. These defects will have to be corrected by the applicant. The parts of the mine involved are not open now. Therefore, it is not likely that a field team investigation would be of value.

The Geological Survey mapped completely all the accessible workings of this property just before it closed down in 1944. In addition, a few check samples were taken at various places. Earlier in 1941 the Bureau of Mines did some extensive sampling and a limited amount of diamond drilling below the deepest levels. The records of this work are available in this office, and are believed to be as complete a picture as can be obtained now.

The results of this work are summarized in a brief report which was prepared for DMPA in November 1951. Two copies of this report are attached. Extra copies of the maps are not now available but can be obtained if you wish to have them.

I infer from the present application, and from the earlier applications to DMPA that the principal projects the applicant proposes to undertake are (1) rehabilitate shaft, (2) drive the 200' level north about 150', (3) rehabilitate the 400' level and the 406 raise, and (4) rehabilitate the winze and 600 sub-level to allow inspection and sampling

of the vein. In addition, it might be advisable to consider additional diamond drilling for the downward extension of one or both of the ore shoots. Although this property is not the most promising for immediate production, it is reasonable to expect that it may yield another 50,000 tons of material of the same or somewhat lower grade than was mined during World War II.

1/24/52

George B. Holderer November 16, 1951

M. D. Crittenden, Jr.

Minnie Jane mine, Butte District, Montana

In response to your telephone request, I am transmitting herewith a brief geological report and maps showing the reserves of the Minnie Jane mine. Inasmuch as the property is no longer accessible and no work has been done for the last 8 years, the information is believed to be the best available at this time. Most of the reserves are in downward extensions of ore shoots exposed in workings above the 400 level. Only a very small quantity of ore can be regarded as "measured". Indicated and inferred reserves are carried as far as possible beyond the limits of known information. Additional drilling for exploration work will be necessary to increase the measured and indicated reserves.

MDCrittenden:gt

Enclosure

THE MINNIE JANE MINE

Introduction

The Minnie Jane, one of the early claims of the West Butte district, is about 1300 feet southwest of the Orphan Girl mine. It is owned and operated by the Butte Mines Merger Corporation. W. McC. White is President.

In 1943 and 1944 a surface map on a scale of 100 feet to the inch of the mine and vicinity was made by the Geological Survey by plane table and alidade. (Plate No. 2) A transit survey map supplied by the operator was used as a base for plotting underground geology. Workings shown in solid lines on the underground maps were accessible to the writers. Workings shown as dotted lines are inaccessible and taken from old maps or reports supplied by the operator. The geology in all accessible underground workings was mapped on a scale of 20 feet to the inch, and the data later reduced to a scale of 50 feet to the inch. This work was brought up to date on December 1, 1943, and Oct. 1944. (Plate no. 3)

History and production

The Minnie Jane mine has been an intermittent gold and silver producer since 1890, and during World War I, a few hundred tons of manganese oxide ore were shipped from shallow surface workings. In 1942 the mine was rehabilitated and in October of that year, the owners started shipping rhodochrosite ore to the Metals Reserve Company stockpile at Butte, Montana. Up to September 30, 1944, 43,146 long dry tons averaging 16.05 percent manganese had been produced.

Development

Workings at the Minnie Jane mine originally consisted of four main levels opening from a vertical shaft and three deeper sub-levels reached through winzes. Numerous shallow levels were opened by smaller shafts and later connected by raises and intermediate levels with the deeper workings. Of the 200 and 300 levels, only the parts near the shaft are open at present. The 400 level, however, is open for its full extent. The 450 is the only sub-level accessible to the writers. Recent development consists of an inclined raise in the plane of the vein from the 300 level to the surface, about 75 feet west of No. 1 shaft; reopening of the East incline; and several short crosscuts into foot or hanging walls.

Large areas of the vein east of the shaft were partly stoped in early work when rhodochrosite was considered to be a gangue mineral, and as a result, the remaining ore in these parts of the vein is lost. This is the case with much of the ground between the 300 and 400 levels in the east end of the mine. Stopes that have yielded rhodochrosite are shown on the longitudinal projection of the vein by solid lines; old stopes are shown by dashed lines (Plate No. 4).

Geology

The Minnie Jane mine is on a large vein striking N. 65°-80° E., dipping 50°-60° S. It is essentially continuous with the vein exposed north of the Orphan Girl mine and east of the Minnie Jane. The wall rocks are granitic rocks of the Boulder batholith which, near the Minnie Jane, consist of quartz monzonite and a few small bodies of aplite. The vein formed along a strong fault zone, and was accompanied by alteration and silicification of wall rock and repeated shearing and brecciation. The wall rock alteration is usually noticeable for a foot to 10 feet from the vein walls. In most places there are strong foot and hanging wall faults marked by 1 inch to 1 foot of gouge. Movement on these faults occurred both before and after the rhodochrosite mineralization.

The vein is from 16 to 35 feet thick, but the degree of the mineralization varies greatly both along the strike and dip of the vein. On the 400 level, near the north vein crosscut, the mineralization is limited to weak alteration of the sheared granite in the vein. Rhodochrosite is conspicuously absent along this portion of the vein. More commonly, the rock within the vein has been replaced largely by quartz containing a small amount of sulphides. The silver and gold ores mined in the early days occurred largely in the quartz associated with the rich sulphide shoots. Rhodochrosite is commonly associated with this material, often in sufficient amounts to assay 5 percent manganese, but only in certain areas is it in sufficient quantities to constitute a rhodochrosite ore body.

Two smaller veins, exposed on the surface, were cut on the 400 level, but only the north vein shows potentially minable rhodochrosite ore.

Minable rhodochrosite (15+ percent manganese) within the main vein appears to occur in three ore bodies, two of which together constitute the central ore body. The easternmost of these begins just east of the old 405 E raise, at a mineralized cross fault, and extends east to the face of the 400 level, a distance of 200 feet. It is 4 to 8 feet thick and averages 20 to 25 percent manganese. It is also exposed in the 407 raise, 100 feet above the 400 level, but unfortunately the area above the 400 level was largely stoped in early operation and, although some ore remains on the hanging wall, it will probably not be economically recoverable. The 200 and 300 levels are not accessible in the vicinity of this ore body.

Most of the rhodochrosite production to date has come from the central ore body. Actually this body appears to consist of two minable ore shoots separated by a zone averaging 10 to 15 percent manganese, which cannot be considered ore under present prices but which is geologically within the mineralized zone. One high-grade shoot, exposed in the west incline, extends from about 130 feet below the surface to somewhere between the 300 and 400 levels. It is exposed on the 200 level for a distance of 200 feet and on the 300 level for 150 feet. The second ore shoot is exposed

for a distance of 225 feet on the 400 level, beginning 60 feet east of the shaft crosscut. It has been largely stoped above this level to the east end of the 300 level, but is untouched below the 400 level. Low-grade manganiferous material, averaging 10 to 15 percent manganese, also surrounds these shoots.

The high-grade shoots are characteristically developed between the hanging wall and a subsidiary fault. They average about 8 feet thick in the central parts where the bounding faults form sharp walls. Near the margins, in many places, the ore body breaks away from the hanging wall, the subsidiary fault disappears, and the shoot fingers out either into low-grade ore or barren vein material.

Ore reserves

The ore reserves of the Minnie Jane mine were appraised most recently just before the property closed down late in 1944. At that time most of the readily accessible ore reserves had been mined out, and at about that time the workings above the 200 level caved. Therefore, reserve blocks shown on plate 4 above that level and between the 200 and 300 levels are now largely inaccessible.

The reserves now estimated are summarized in the following tables.

				Reserves			
Block	L.	W.	Th.	percent Mn	Long tons	Category	Status 1951
I to IV							Mined out or caved
V			6	10-15	1000	Indicated	Uncertain
					1000	Inferred	"
VI			8	20	500	Indicated	Probably inaccessible
VII			10	15-20	1200	Indicated	
VIII			10	10-15	4000	Indicated	
IXA			9	10-15	1400	Measured	
IX			10	10-15	15000	Indicated	
X							Mined out
XI			4	15-20	500	Indicated	
XII			5	15-20	1000	Indicated	
XIII			5	15-20	1000	Measured	
			5	15-20	1500	Indicated	
XIV			10	10-15	4000	Indicated	
XV			5	15-20	2500	Inferred	
XVI							Shaft pillar
XVII							Included in XIX
XVIII	250 x 125 x 6			10-15	18000	Inferred	
XIX	200 x 350 x 6			10-20	25000*	Inferred	
XX	200 x 300 x 6			10-20	20000*	Inferred	

* Tonnage divided by 2 assuming that about half the block would prove to be ore, based on work above the 400 level.

Summary

Measured	2,400	* Tonnage divided by 2 assuming that about half the block would prove to be ore, based on work above the 400 level.
Indicated	30,000**	
Inferred	45,000**	
Total	80,000**	** Round figures

Measured reserves in the mine are limited to a few isolated blocks above old stopes. The indicated and inferred reserves are ~~are~~ in three blocks, mostly below the 400-level. Reports of rhodochrosite on the 500 and 600 levels, together with information from Bureau of Mines drill holes, seems to indicate that the ore shoots exposed in the upper parts of the mine extend downward to at least that level. Unfortunately the ore shoot exposed in the east end of the 400 level apparently rakes off into ACM ground.

Although there is every reason geologically to expect the mineralization to extend downward as has been shown, "inferred ore" has here been carried to, if not beyond its usual limits; indeed, part of the reserves here termed <u>inferred</u> are distinctly speculative in nature.

2342

Butte Mines Merger Corporation
R. F. D. No. 3 Butte, Mont.

January 16, 1952

Defense Minerals Exploration Administration,
Interior Department,
Washington, D. C.

Gentlemen:

Herewith we hand you an application for an exploration loan of $80,000.00, consisting of Forms MF-103 and MF-100.

Also enclosed is copy of a letter from the Defense Production Agency denying a production loan of $96,000.00, and suggesting that we apply for an exploration loan.

In this application we have reduced former plans of operation to conform with the present application.

Very truly yours,

BUTTE MINES MERGER CORPORATION

By W. McC. White
W. McC. White, President

WMcCW-S

Encs.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 2 1952

~~D. M. A. 1760~~ DMEA-2342

BUTTE MINES MERGER CORPORATION

R. F. D. NO. 1, BOX 53 PHONES 2-3701, 2-3858

BUTTE, MONTANA

W. McC. WHITE
PRESIDENT

January 16, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 21 1952

Defense Minerals Exploration Administration,
Interior Department,
Washington, D. C.

Gentlemen:

Herewith we hand you an application for an exploration loan of $60,000.00, consisting of Forms MF-103 and MF-100.

Also enclosed is copy of a letter from the Defense Production Agency denying a production loan of $96,000.00, and suggesting that we apply for an exploration loan.

In this application we have reduced former plans of operation to conform with the present application.

Very truly yours,

BUTTE MINES MERGER CORPORATION

By W. McC. White
W. McC. White, President

WMcCW-S

Encs.

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

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

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

Not To Be Filled in by Applicant

Docket No. DMEA 2342
Metal or Mineral
Date Received 1-21-52
Amount $
Participation (Government %)

Name and address of applicant

BUTTE MINES MERGER CORPORATION

R. F. D. No. 1 - Box 53

BUTTE ~~D. M. A. 1788~~ TANA

Date January 16, 1952

If you have already filed MF-100, give date filed herewith, type of assistance requested Exploration project. Production Loan Form N.S.R.B. 146 previously applied for.

DMA Docket Number (if available) ~~1788~~

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 22 1952

INSTRUCTIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

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

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

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

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

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

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

CERTIFICATION

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

BUTTE MINES MERGER CORPORATION
(Name of company)

By W E White
(Signature of authorized official)

January 16, 1952
(Date)

President
(Title)

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

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

~~D. M. A. 1788~~

Butte Mines Merger Corporation

R. F. D. No. 53

DEFENSE MATERIALS PROCUREMENT AGENCY

WASHINGTON 25, D. C.

Air Mail

Mr. W. McC. White, President
Butte Mines Merger Corporation
R. F. D. No. 1, Box 53
Butte, Montana

In reply please refer to
DMA-1788 - Manganese

Dear Mr. White:

We have examined your latest proposal in your letter dated December 7, 1951. It appears that an expenditure of $96,000 is not justified based upon the information available on ore reserves. The ore remaining in the vicinity of your World War II workings and above the 400-foot level would not warrant a loan of this size. The ore below the 400-foot level could probably not be mined profitably due to the double handling necessary through the winze from the 400 to 600-foot level. Sinking the vertical shaft to the 600-foot level is not warranted from present information on the reserves.

The development of sufficient ore in the unstoped parts of the vein east of the No. 1 shaft and mostly above the 200-foot level could materially change the picture. However, this is an exploration proposition and will have to be handled as such.

Therefore, we must deny your application for a direct Government loan, but we suggest that you submit an exploration proposal to the Defense Minerals Exploration Administration, Department of Interior, Washington, D. C., and we are enclosing the necessary application blanks.

Very truly yours,

/s/ A. B. Parsons

for Tom Lyon, Director Program
Development Division

Enclosures
1 - MO-5
5 - MF-100
5 - MF-103

(Mailed from Washington Jan. 2
Received Jan. 5th.)

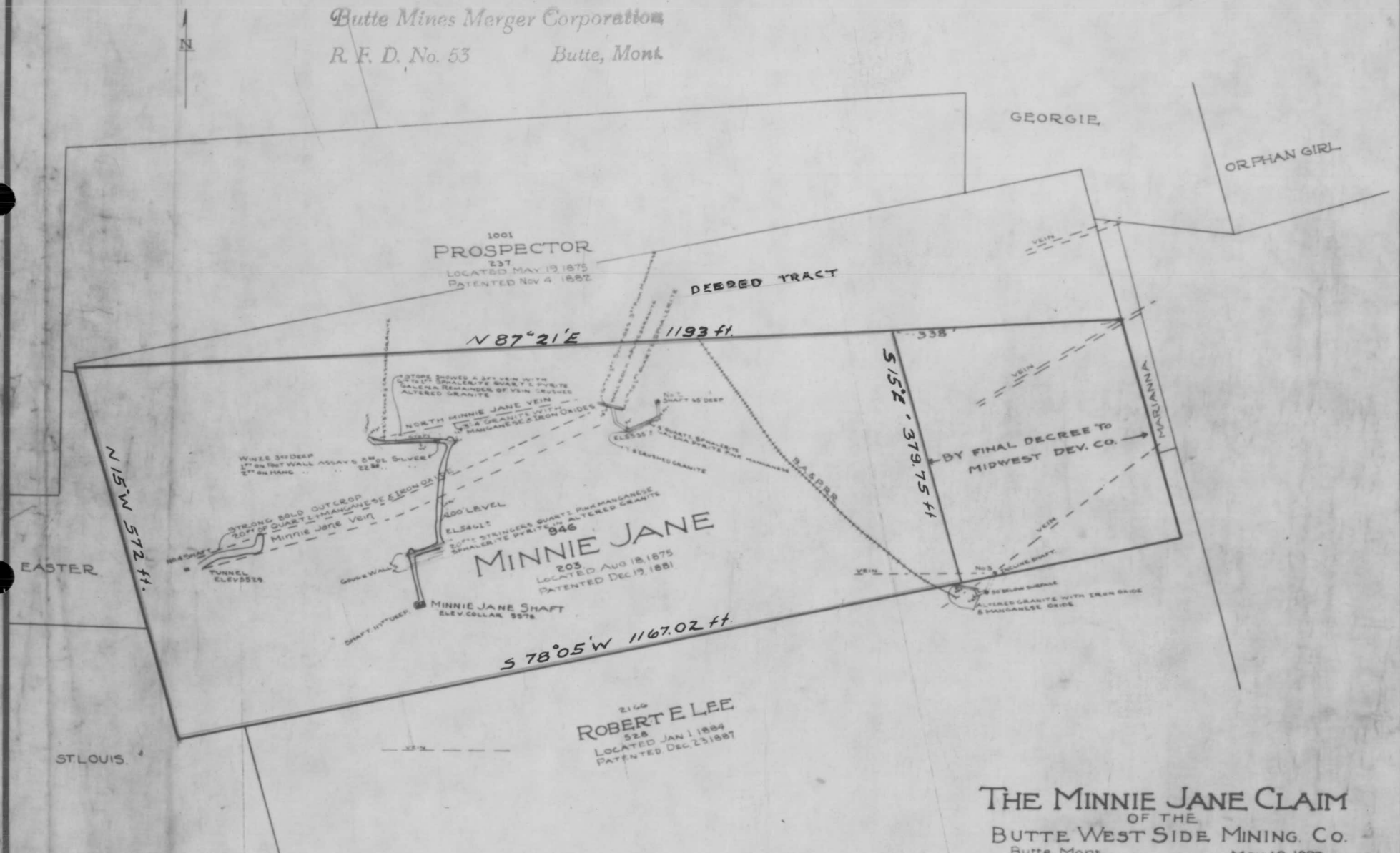
MF-103 Question No. 1 (a)

MF 103 Question 1(a)

~~D. M. A. 1788~~

Butte Mines Merger Corporation

R. F. D. No. 53 Butte, Mont.



THE MINNIE JANE CLAIM

OF THE

BUTTE WEST SIDE MINING CO.

Butte, Mont. May 10, 1922

Scale 1" = 100'

JWD
CJH

D. M. A. 1700

Butte Mines Merger Corporation

R. F. D. No. 53 Butte, Mont.

FORM MF-103

Question No. 1

(a) Property known as the Minnie Jane Mine. Surface map herewith shows property involved.

(b) Property is owned by this corporation.

(c) All of the Minnie Jane Claim, Lot No. 203, except the "deeded tract" and the East 338 feet designated as "Final decree" shown on map.

The legal description is as follows, to-wit:

That portion of the Minnie Jane Lode Claim designated by the United States as Lot No. 203, situated in Sections 14 and 15, Tp. 3, N. R. 8 W., Independence Mining District, Silver Bow County, Montana, described as follows:

Beginning at a point which point is the North West corner of the tract herein described and from which point the North West corner No. 1 of the Minnie Jane Lode Claim, designated as Lot No. 203, bears North 15° West a distance of 7.00 ft., thence North 87° 21' East for a distance of 1193.00 ft., thence South 15° East for a distance of 379.75 ft., thence South 78° 05' West for a distance of 1167.02 ft., thence North 15° West for a distance of 572.00 ft., to the point of beginning.

Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont.

FORM MF-103

Question 1 Ownership of Property Note 2

Mineral Certificate No. 760

General Land Office No. 6901 United States of America To Jeremiah Roach V. Josephine Wampler Minnie Jane Lode Mining Claim Survey No. 946 Lot 203 in Sections 14 and 15, Tw 3 N, R 8 West Silver Bow County, Montana	: Patent : Dated 15 December 1882 : Recorded 9 April 1883 in Vol A of Patents : Page 88 Silver Bow County, Montana : Date of Entry 19 December 1881
Jeremiah Roach et ux Alice Roach And Josephine Wampler et con Reese D. Wampler To George C. Fitchen And Benjamin D. Phillips All right, title and interest of said parties of the first part of, in and to that certain portion, claim and mining right title etc. described as follows towit: Beginning at the N.W. Cor. No. 1 of the Minnie Jane Lode Claim designated as Lot No. 203 and running S 15° E 7 ft along the West line of said Lot 203; thence N 87° 21' E 1531 ft to a point on the Easterly boundary of said Lot No. 203, thence N 15° W along the Eastern boundary 230 ft to the NE Corner N 4 of said Lot No. 203, thence S 79° W along the Northern boundary of said Lot No. 203, 1500 ft. to corner No. 1, the place of beginning containing an area 4-6/100 acres, more or less.	: Deed dated September 22nd 1885 : Filed September 23rd 1885 : Recorded Vol. "H" of Deeds Page 41 : Silver Bow County, Montana
Roach and Wampler (in separate deeds) To Butte, Anaconda Pacific Ry. Co. Right of way over portion of surface for railroad	: Records of Silver Bow County, Montana : Vol 5 of Deeds Page 475 and 477 : Vol 17 of Deeds Page 138 and 140
V. Josephine Wampler To Tidewater Investment Company All right, title and interest in and to an undivided one half interest in and to the Minnie Jane Lode Mining Claim, Survey No. 946 and Lot No. 203, Silver Bow County, Montana.	: Deed dated November 14, 1912 : Recorded Vol. 105 of Deeds Page 391 : Silver Bow County, Montana : Filed November 30, 1912

David F. Roach Adm. Estate of Jeremiah Roach (deceased) To W. McC. White All right, title and interest in and to an undivided one half interest in and to the Minnie Jane Lode Mining Claim, Survey No..946, Lot 203.	: Deed dated December 15, 1917 : Filed October 30, 1922 : Book 153 of Deeds Page 128 : Records of Silver Bow County, Montana
Tidewater Investment Company, W. McC. White and Elizabeth W. White, his wife To Butte West Side Mines Company All right, title and interest in and to the Minnie Jane Lode Claim, Survey No. 946, Lot 203	: Deed dated October 18, 1922 : Filed October 30, 1922 : Book 153 of Deeds Page 129 : Silver Bow County, Montana
Butte West Side Mines Company To Butte Mines Merger Corporation All right, title and interest in and to the Minnie Jane Lode Claim, Survey 946, Lot 203.	: Deed dated April 27, 1927 : Filed May 14, 1927 : Book 161 of Deeds Page 231 : Silver Bow County, Montana
In the U. S. District Court at Butte, Montana Midwest Butte Development Company vs. Butte West Side Mines Company	: No. 326 : Final Decree : See map herewith

D. M. A. 1788

Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont.

FORM MF-103

Question No. 2

(a) Manganese carbonate and sulphide ore carrying gold, silver, lead and zinc.

(b) Ore has been exposed from grass roots to the lowest level. Herewith are two assay maps of investigations made in 1941 and mainly confined to the 400 level, to-wit: Sketch by S. H. Lorain of Bureau of Mines, May, 1941; Map No. 2 Bureau of Mines Exploration Project No. 311, June, 1941. There is a large manganese outcrop extending about 400 ft. west and 700 ft. east of shaft No. 1. The ore mined during War No. II came from west of the shaft on the 200 level and west of raise 401 on the 400 level. Stopes were around 16 to 24 ft. wide. Ore still remains in these stopes. Commercial ore bodies of manganese carbonate ore are exposed at many places east of No. 1 shaft on the 200 level. The large body of ore east of 406 raise reported by Mr. Lorain extends down to the 400 level; it is high grade ore. The sulphide ore, about 25 ft. wide, between this Mn and the footwall was taken out in 1938. The stope is open - the cave referred to was the breaking off of about 1,000 tons of manganese. This ore can be readily taken out as well as the several thousand exposed tons remaining on the hanging wall. Above the twelfth floor of Raise 406 is an extensive body of manganese carbonate ore around 30 ft. wide which extends in various thicknesses to within 50 ft. of the surface at shaft No. 2.
We expect to begin mining on the 200 level mainly east of No. 1 shaft and believe will be employed therefor more than a year.

D. M. A. 1788

Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont.

FORM MF-103

Question No. 3

(a) Repairing shaft from head frame to sump. After setting aside the funds required for equipment, the balance of the money to be used in reconditioning stations, drifts, crosscuts and raises to be used in production, extending the 200 level 150 ft. and readying the entries that will be used for motor transportation.
The total cost of project will be - - - - $60,000.00

(b) The work should be completed within 1½ years. However, after getting into production, it may be slowed down.

D. M. A. 1788

Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont.

FORM MF-103

Question No. 4

Map of mine workings herewith.

~~D. M. A. 1788~~

Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont.

FORM MF-103

Question No. 5

Temporary office building
Carpenter shop
Blacksmith shop
Hoist and compressor building
Dry
Store room shed
Water tank for compressor and for drilling
Water will require renewal

~~D. M. A. 1700~~

Butte Mines Merger Corporation

R. F. D. No. 53 *Butte, Mont.*

FORM MF-103

Question No. 6

Water tank for compressor and drilling	$1,000.00
Extension of Ry. switch and trestle and and tracks to reach it	4,000.00
Mucking machine & freight	3,100.00
Slushers and scrapers, etc.	5,000.00
Battery motor complete & installed	8,700.00

~~D. M. A. 1788~~

Butte Mines Merger Corporation

R. F. D. No. 53 *Butte, Mont.*

FORM MF-103

Question No. 7

(a) 75 H. P. hoist
100 H. P. compressor
Shaft cage
Head frame
5 machine drills
Bit sharpener
Swinging timber saw
1 A.C.M. timber hoist
1 20 H. P. electric hoist
2 electric pumps
3 tuggers
2 blowers & 500 ft. tubing
Rails, pipes, etc.
Mine tools, etc.

(b) Not applicable

(c) Rental per month $400.00

8 mine cars owned by corporation

~~D. M. A. 1788~~

Butte Mines Merger Corporation
R. F. D. No. 53 *Butte, Mont.*

FORM MF-103

Question No. 8

Small mine foreman	$450.00 to $500.00	per	month
Shiftboss	407.50 to $437.50	"	"
Carpenters	$14.76	per	shift
Engineer	$14.76	"	"
Miner (regular)	$13.47	"	"
" (shaft)	$14.33	"	"
Station tender	$14.33	"	"

The above scale went into effect December, 1951.

It is about 10% higher than the previous scale.

D. M. A. 1788

Butte Mines Merger Corporation

R. F. D. No. 53 Butte, Mont.

FORM MF-103

Question No. 9

Timber	$65.00 per M
Stulls	$1.00 to $3.00 each
Wire rope 3/4" hemp center	0.317 per foot
" " " wire rope center	0.364 " "
" " 1/2"	$16.40 per hundred ft.
" " 3/5"	$13.50 " " "
8" vent tubes 50 ft.	42.33 per length
12" " " " "	54.65 " "
Blasting powder	$21.75 to $20.25 per hundred
Fuse	$13.70 per M
Caps	$27.60 " "
1" black pipe	$16.41 per hundred ft.
2" " "	$34.19 " " "
3" " "	$70.23 " " "
12 lb. rail	8.15 " " "
16 lb. "	8.00 " " "
3/4" manila rope	57.50 " " lbs.
I-R bits for stopers	43¢ to 45¢ each
Nails by keg 10 D to 60 D	$9.47 to 9.57 per keg
Track spikes	11.15 " "
Engineering (when employed)	$25.00 per day
Assaying Gold	1.50
Silver	1.50
Lead	1.00
Zinc	1.50
Manganese	1.00
Accounting (estimated)	$200.00 per month
Power	300.00 " "

Water is the cost of hauling occasionally.

D. M. A. 1788

Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont.

FORM MF-103

Question No. 10

(a) $15,000.00

(b) It is enough.

Form MF-100
(May 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. DMEA-23842

Date received .....

BUTTE MINES MERGER CORPORATION

R. F. D. #1 - Box 53

~~D. M. A. 1788~~

BUTTE MONTANA

Name and address of applicant

Date January 16, 1952

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) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) 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.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 21 1952

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 10 years

   If not in production or operation, estimated date when production will begin June, 1952
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)
White, W. McC.	Pres. D.		100,000	1,000	937	None	
White, Wallace	V. Pres. D			100,000	1250	"	
Tidewater Inv. Co.				98,000	2501		
Hal , P. S.					47,431	"	
Butte West Side Mines	Co.			100,000			
Officers' address							
Butte, Montana.	Total		x x x x x	299,000	52,119	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	$2,800,000	$ 300,000	$ 1.00	300,000	None
Preferred stock	$ 200,000	$	$ 1.00	64,364	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.)	None	since 1945			
2. Quantity of product processed (specify unit of measure and type of process)	"	"	"		
3. Quantity and grade of product sold or shipped (specify units of measure)	"	"	"		

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change. 3500 tons

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. Explained in MF-103 herewith

(*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)		Sulphides	$20.00		
Indicated (probable)	150,000	Mn 17 to 39%			

(*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.

Butte Mines Merger Corporation
R. F. D. No. 53, Butte, Mont.
(Name of company)

BUTTE MINES MERGER CORPORATION
By [signature]
(Signature of authorized official)

January 16, 1952
(Date)

President
(Title)

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

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

D. M. A. 1788

Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont.

FORM MF-100

Question 1

(a) Sulphide and manganese carbonate ores.

Manganese carbonate ore will be mined.

(b) By-products, gold, silver, lead and zinc.

D. M. A. 1700

Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont.

FORM MF-100

Question 2 Minnie Jane Mine

(a) 540 ft.

(b) Drifts 2830 ft., crosscuts 1500 ft., total 4330 ft.

(c) Not applicable.

(d) Raises 1500 ft.

Mine is dry.

Present capacity about 75 tons per shift.

Shaft 2 compartment to 200 level and 3 compartment 200 level to 400 level - One hoisting compartment.

D. M. A. 1780

Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont.

FORM MF-100

Question 3

(a) 1 mile west of Butte, Montana. Loading spur 700 ft. from shaft.

(b) Independence Mining District.

(c) Tp. 3 N. Sections 14 & 15, Range 8 W.

(d) Silver Bow County, Montana.

D. M. A. 1788

Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont.

FORM MF-100

Question 4

(a) Property is not operating.

(b) This corporation is the owner.

No lessees or contractors.

D. M. A. 1788

Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont.

FORM MF-100

Question 5

Total years in production 10.

Production should begin in June or July, 1952.

Past operations prior to War II were for the mining of sulphide ores. In these operations rhodochrosite was encountered in substantially all openings. Rhodochrosite had no market until War II. During the latter period we had a contract, which, under its terms, could be cancelled upon 30 days' notice. Under this limitation the Corporation did not open the old workings beyond immediate mining requirements to secure carbonate ore. If and when the 30 day option was exercised, there would be no market for the carbonate ore.

D. M. A. 1788
Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont.

FORM MF-100

Question 6

(a) General management will be the same as in former years.

(b) The staff will be experienced in mining in the Butte district.

D. M. A. 1700

Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont.

FORM MF-100

Question 7

(a) ORE SHIPMENTS

Shipments years 1923-1924-1925 and 1926

To Washoe Sampler 12,665 dry tons

Average assay per ton

Silver	19.4 oz.
Gold	$4.20

To Timber Butte Milling Co. 16,197 dry tons

Average assay per ton

Silver	9.105 oz.
Gold	$1,928
Zinc	1.77%
Lead	1.005%

Shipments during years 1937, 1938 and 1939

To Washoe Sampler and Anaconda were 17,127 dry tons

Average assay per ton

	Silver	9.593 oz.
	Gold	0.152 "
Of ore concentrated	Zinc	3%
	Lead	1.50%

Shipments to Govt. Nov. 1942 to March, 1945 were

52,000 long dry tons averaging 17 to 18% Mn carbonate

Suspension of mining in 1926 was due to litigation which has been settled.

(b) Orphan Girl of A. C. M. Co., adjoining on the East, large shipper. Mine shaft 3200 ft.

(c) None except as reported in Form MF-103

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

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

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

Not To Be Filled in by Applicant

Docket No. DMEA-2342
Metal or Mineral
Date Received 1-21-52
Amount $
Participation (Government %)

Name and address of applicant

BUTTE LINES LERGER CORPORATION

R. F. D. No. 1 - Box 53

BUTTE ~~D M A 1788~~ TANA

Date January 16, 1952

If you have already filed MF-100, give date filed herewith, type of assistance requested Exploration project. Production Loan Form N.S.R.B. 146 previously applied for.

DMA Docket Number (if available) 1788

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 21 1952

INSTRUCTIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

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

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

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

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

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

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

CERTIFICATION

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

BUTTE MINES MERGER CORPORATION
(Name of company)

By M E White
(Signature of authorized official)

January 16, 1952
(Date)

President
(Title)

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

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

D. M. A. 1788

Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont.

DEFENSE MATERIALS PROCUREMENT AGENCY

WASHINGTON 25, D. C.

Air Mail

Mr. W. McC. White, President
Butte Mines Merger Corporation
R. F. D. No. 1, Box 53
Butte, Montana

In reply please refer to
DMA-1788 - Manganese

Dear Mr. White:

We have examined your latest proposal in your letter dated December 7, 1951. It appears that an expenditure of $96,000 is not justified based upon the information available on ore reserves. The ore remaining in the vicinity of your World War II workings and above the 400-foot level would not warrant a loan of this size. The ore below the 400-foot level could probably not be mined profitably due to the double handling necessary through the winze from the 400 to 600-foot level. Sinking the vertical shaft to the 600-foot level is not warranted from present information on the reserves.

The development of sufficient ore in the unstoped parts of the vein east of the No. 1 shaft and mostly above the 200-foot level could materially change the picture. However, this is an exploration proposition and will have to be handled as such.

Therefore, we must deny your application for a direct Government loan, but we suggest that you submit an exploration proposal to the Defense Minerals Exploration Administration, Department of Interior, Washington, D. C., and we are enclosing the necessary application blanks.

Very truly yours,

/s/ A. B. Parsons

for Tom Lyon, Director Program
Development Division

Enclosures
1 - MO-5
5 - MF-100
5 - MF-103

(Mailed from Washington Jan. 2
Received Jan. 5th.)

~~D. M. A. 1788~~

Butte Mines Merger Corporation

R. F. D. No. 53 Butte, Mont. FORM MF-103

Question No. 1

(a) Property known as the Minnie Jane Mine. Surface map herewith shows property involved.

(b) Property is owned by this corporation.

(c) All of the Minnie Jane Claim, Lot No. 203, except the "deeded tract" and the East 338 feet designated as "Final decree" shown on map.

The legal description is as follows, to-wit:

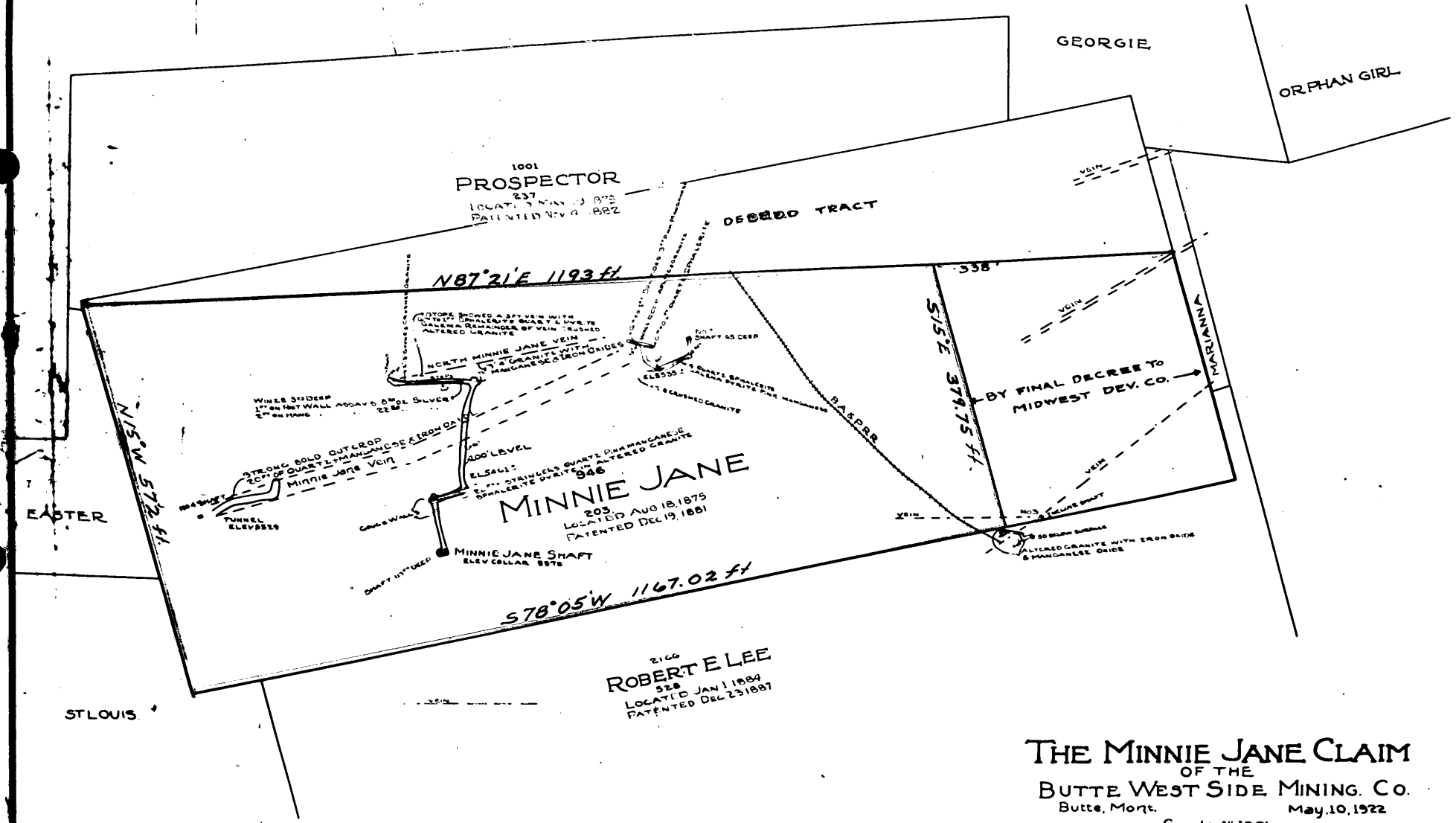
That portion of the Minnie Jane Lode Claim designated by the United States as Lot No. 203, situated in Sections 14 and 15, Tp. 3, N. R. 8 W., Independence Mining District, Silver Bow County, Montana, described as follows:

Beginning at a point which point is the North West corner of the tract herein described and from which point the North West corner No. 1 of the Minnie Jane Lode Claim, designated as Lot No. 203, bears North 15° West a distance of 7.00 ft., thence North 87° 21' East for a distance of 1193.00 ft., thence South 15° East for a distance of 379.75 ft., thence South 78° 05' West for a distance of 1167.02 ft., thence North 15° West for a distance of 572.00 ft., to the point of beginning.

MF-103 Question No. 1 (a)

Butte Mines Merger Corporation

R. F. D. No. 53 Butte, Mont.



THE MINNIE JANE CLAIM
OF THE
BUTTE WEST SIDE MINING CO.

Butte, Mont. May 10, 1922

Scale 1" = 100'

JWD
CJH

D. M. A. 1168

Butte Mines Merger Corporation

R. F. D. No. 53 Butte, Mont.

FORM MF-103

Question 1 Ownership of Property Note 2

General Land Office
No. 6901
United States of America
To
Jeremiah Roach
V. Josephine Wampler
Minnie Jane Lode Mining Claim
Survey No. 946 Lot 203 in Sections 14 and 15, Tw 3 N, R 8 West Silver Bow County, Montana

Mineral Certificate No. 760

: Patent
: Dated 15 December 1882
: Recorded 9 April 1883 in Vol A of Patents
: Page 88 Silver Bow County, Montana
: Date of Entry 19 December 1881

Jeremiah Roach et ux Alice Roach
And
Josephine Wampler et con Reese D. Wampler
To
George C. Fitchen
And
Benjamin D. Phillips
All right, title and interest of said parties of the first part of, in and to that certain portion, claim and mining right title etc. described as follows towit:
Beginning at the N.W. Cor. No. 1 of the Minnie Jane Lode Claim designated as Lot No. 203 and running S 15° E 7 ft along the West line of said Lot 203; thence N 87° 21' E 1531 ft to a point on the Easterly boundary of said Lot No. 203, thence N 15° W along the Eastern boundary 230 ft to the NE Corner N 4 of said Lot No. 203, thence S 79° W along the Northern boundary of said Lot No. 203, 1500 ft. to corner No. 1, the place of beginning containing an area 4-6/100 acres, more or less.

: Deed dated September 22nd 1885
: Filed September 23rd 1885
: Recorded Vol. "H" of Deeds Page 41
: Silver Bow County, Montana

Roach and Wampler (in separate deeds)
To
Butte, Anaconda Pacific Ry. Co.
Right of way over portion of surface for railroad

: Records of Silver Bow County, Montana
: Vol 5 of Deeds Page 475 and 477
: Vol 17 of Deeds Page 138 and 140

V. Josephine Wampler
To
Tidewater Investment Company
All right, title and interest in and to an undivided one half interest in and to the Minnie Jane Lode Mining Claim, Survey No. 946 and Lot No. 203, Silver Bow County, Montana.

: Deed dated November 14, 1912
: Recorded Vol. 105 of Deeds Page 391
: Silver Bow County, Montana
: Filed November 30, 1912

Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont.

David F. Roach Adm. Estate of Jeremiah Roach (deceased) To W. McC. White All right, title and interest in and to an undivided one half interest in and to the Minnie Jane Lode Mining Claim, Survey No..946, Lot 203.	: Deed dated December 15, 1917 : Filed October 30, 1922 : Book 153 of Deeds Page 128 : Records of Silver Bow County, Montana
Tidewater Investment Company, W. McC. White and Elizabeth W. White, his wife To Butte West Side Mines Company All right, title and interest in and to the Minnie Jane Lode Claim, Survey No. 946, Lot 203	: Deed dated October 18, 1922 : Filed October 30, 1922 : Book 153 of Deeds Page 129 : Silver Bow County, Montana
Butte West Side Mines Company To Butte Mines Merger Corporation All right, title and interest in and to the Minnie Jane Lode Claim, Survey 946, Lot 203.	: Deed dated April 27, 1927 : Filed May 14, 1927 : Book 161 of Deeds Page 231 : Silver Bow County, Montana
In the U. S. District Court at Butte, Montana Midwest Butte Development Company vs. Butte West Side Mines Company	: No. 326 : Final Decree : See map herewith

D. M. A. 1768

Butte Mines Merger Corporation

R. F. D. No. 53 Butte, Mont.

FORM MM-103

Question No. 8

(a) Manganese carbonate and sulphide ore carrying gold, silver, lead and zinc.

(b) Ore has been exposed from grass roots to the lowest level. Herewith are two assay maps of investigations made in 1941 and mainly confined to the 400 level, to-wit: Sketch by S. H. Lorain of Bureau of Mines, May, 1941; Map No. 2 Bureau of Mines Exploration Project No. 311, June, 1941. There is a large manganese outcrop extending about 400 ft. west and 700 ft. east of shaft No. 1. The ore mined during War No. II came from west of the shaft on the 200 level and west of raise 401 on the 400 level. Stopes were around 16 to 24 ft. wide. Ore still remains in these stopes. Commercial ore bodies of manganese carbonate ore are exposed at many places east of No. 1 shaft on the 200 level. The large body of ore east of 406 raise reported by Mr. Lorain extends down to the 400 level; it is high grade ore. The sulphide ore, about 25 ft. wide, between this Mn and the footwall was taken out in 1938. The stope is open - the cave referred to was the breaking off of about 1,000 tons of manganese. This ore can be readily taken out as well as the several thousand exposed tons remaining on the hanging wall. Above the twelfth floor of Raise 406 is an extensive body of manganese carbonate ore around 30 ft. wide which extends in various thicknesses to within 50 ft. of the surface at shaft No. 2.
We expect to begin mining on the 200 level mainly east of No. 1 shaft and believe will be employed therefor more than a year.

~~D. M. A. 1788~~

Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont.

FORM MF-103

Question No. 3

(a) Repairing shaft from head frame to sump. After setting aside the funds required for equipment, the balance of the money to be used in reconditioning stations, drifts, crosscuts and raises to be used in production, extending the 200 level 150 ft. and readying the entries that will be used for motor transportation.
The total cost of project will be - - - - $60,000.00

(b) The work should be completed within 1½ years. However, after getting into production, it may be slowed down.

D. M. A. 1788

Butte Mines Merger Corporation

R. F. D. No. 53 Butte, Mont.

FORM MF-103

Question No. 4

Map of mine workings herewith.

~~D. M. A. 1788~~

Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont.

FORM MF-103

Question No. 5

Temporary office building
Carpenter shop
Blacksmith shop
Hoist and compressor building
Dry
Store room shed
Water tank for compressor and for drilling
Water will require renewal

D. M. A. 1788

Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont.

FORM MF-103

Question No. 6

Water tank for compressor and drilling	$1,000.00
Extension of Ry. switch and trestle and and tracks to reach it	4,000.00
Mucking machine & freight	3,100.00
Slushers and scrapers, etc.	5,000.00
Battery motor complete & installed	8,700.00

~~D. M. A. 1788~~

Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont.

FORM MF-103

Question No. 7

(a) 75 H. P. hoist
100 H. P. compressor
Shaft cage
Head frame
5 machine drills
Bit sharpener
Swinging timber saw
1 A.C.M. timber hoist
1 20 H. P. electric hoist
2 electric pumps
3 tuggers
2 blowers & 500 ft. tubing
Rails, pipes, etc.
Mine tools, etc.

(b) Not applicable

(c) Rental per month $400.00

8 mine cars owned by corporation

~~D. M. A. 1768~~

Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont.

FORM MF-103

Question No. 8

Small mine foreman	$450.00 to $500.00	per month
Shiftboss	407.50 to $437.50	" "
Carpenters	$14.76	per shift
Engineer	$14.76	" "
Miner (regular)	$13.47	" "
" (shaft)	$14.33	" "
Station tender	$14.33	" "

The above scale went into effect December, 1951.

It is about 10% higher than the previous scale.

~~D. M. A. 1788~~

Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont.

FORM MF-103

Question No. 9

Timber		$65.00 per M
Stulls		$1.00 to $3.00 each
Wire rope 3/4" hemp center		0.317 per foot
" " " wire rope center		0.364 " "
" " 1/2"		$16.40 per hundred ft.
" " 3/5"		$13.50 " " "
8" vent tubes 50 ft.		42.33 per length
12" " " " "		54.65 " "
Blasting powder		$21.75 to $20.25 per hundred
Fuse		$13.70 per M
Caps		$27.60 " "
1" black pipe		$16.41 per hundred ft.
2" " "		$34.19 " " "
3" " "		$70.23 " " "
12 lb. rail		8.15 " " "
16 lb. "		8.00 " " "
3/4" manila rope		57.50 " " lbs.
I-R bits for stopers		43¢ to 45¢ each
Nails by keg 10 D to 60 D		$9.47 to 9.57 per keg
Track spikes		11.15 " "
Engineering (when employed)		$25.00 per day
Assaying	Gold	1.50
	Silver	1.50
	Lead	1.00
	Zinc	1.50
	Manganese	1.00
Accounting (estimated)		$200.00 per month
Power		300.00 "

Water is the cost of hauling occasionally.

~~D. M. A. 1768~~

Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont.

FORM MF-103

Question No. 10

(a) $15,000.00

(b) It is enough.

Form MF-100
(May 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. DMEA-2342

Date received 1-21-52

BUTTE MINES MERGER CORPORATION
R. F. D. #1 - Box 53
BUTTE ~~D. M. A. 1788~~ MONTANA

Name and address of applicant

Date January 16, 1952

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) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) 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.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 21 1952

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 10 years

   If not in production or operation, estimated date when production will begin June, 1952
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)
White, [illegible]	Pres. D.		100,000	1,000	937	None	
White, Wallace	V. Pres. D			100,000	1850	"	
Ridewater Inv. Co.				98,000	2501		
Hol , P. C.					47,431	"	
Butte West Side Mines	Co.			100,000			
Officers' address							
Butte, Montana.	Total		x x x x x	299,000	52,119	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	$ 2,000,000	$ 300,000	$ 1.00	300,000	None
Preferred stock	$ 200,000	$	$ 1.00	64,304	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.)	None	since 1945			
2. Quantity of product processed (specify unit of measure and type of process)	"	"	"		
3. Quantity and grade of product sold or shipped (specify units of measure)	"	"	"		

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change. 3500 tons

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. Explained in MP-103 Borowith

16—63792-1

(*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)		Sulphides	$20.00		
Indicated (probable)	150,000	Mn 17 to 39%			

(*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.

Butte Mines Merger Corporation
(Name of company)

R. F. D. No. Butte, Mont.

January 16, 1952
(Date)

BUTTE MINES MERGER CORPORATION

By [signature]
(Signature of authorized official)

President
(Title)

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

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

~~D. M. A. 1786~~

Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont.

FORM MF-100

Question 1

(a) Sulphide and manganese carbonate ores.

Manganese carbonate ore will be mined.

(b) By-products, gold, silver, lead and zinc.

~~D. M. A. 1788~~

Butte Mines Mergers Corporation
R. F. D. No. 53 Butte, Mont.

FORM MF-100

Question 2 Minnie Jane Mine

(a) 540 ft.

(b) Drifts 2830 ft., crosscuts 1500 ft., total 4330 ft.

(c) Not applicable.

(d) Raises 1500 ft.

Mine is dry.

Present capacity about 75 tons per shift.

Shaft 2 compartment to 200 level and 3 compartment 200 level to 400 level - One hoisting compartment.

~~D. M. A. 1788~~

Butte Mines Range Corporation
R. F. D. No. 63 Butte, Mont.

FORM MT-100

Question 3

(a) 1 mile west of Butte, Montana. Loading spur 700 ft. from shaft.

(b) Independence Mining District.

(c) Tp. 3 N. Sections 14 & 15, Range 8 W.

(d) Silver Bow County, Montana.

D. M. A. 1788

Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont.

FORM MF-100

Question 4

(a) Property is not operating.

(b) This corporation is the owner.

No lessees or contractors.

D. M. A. 1788

Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont.

FORM MT-100

Question 5

Total years in production 10.

Production should begin in June or July, 1952.

Past operations prior to War II were for the mining of sulphide ores. In these operations rhodochrosite was encountered in substantially all openings. Rhodochrosite had no market until War II. During the latter period we had a contract, which, under its terms, could be cancelled upon 30 days' notice. Under this limitation the Corporation did not open the old workings beyond immediate mining requirements to secure carbonate ore. If and when the 30 day option was exercised, there would be no market for the carbonate ore.

D. M. A. 1788

Butte Mines Merger Corporation
R. F. D. No. 63 Butte, Mont. FORM MF-100

Question 6

(a) General management will be the same as in former years.

(b) The staff will be experienced in mining in the Butte district.

~~D. M. A. 1788~~

Butte Mines Merger Corporation
R. F. D. No. 55 Butte, Mont. FORM MF-100

Question 7

(a) ORE SHIPMENTS

Shipments years 1923-1924-1925 and 1926

To Washoe Sampler 12,665 dry tons

Average assay per ton

Silver	19.4 oz.
Gold	$4.20

To Timber Butte Milling Co. 16,197 dry tons

Average assay per ton

Silver	9.105 oz.
Gold	$1,928
Zinc	1.77%
Lead	1.005%

Shipments during years 1937, 1938 and 1939

To Washoe Sampler and Anaconda were 17,127 dry tons

Average assay per ton

	Silver	9.593 oz.
	Gold	0.152 "
Of ore concentrated	Zinc	3%
	Lead	1.50%

Shipments to Govt. Nov. 1942 to March, 1945 were

52,000 long dry tons averaging 17 to 18%
Mn carbonate

Suspension of mining in 1926 was due to litigation which has been settled.

(b) Orphan Girl of A. C. M. Co., adjoining on the East, large shipper. Mine shaft 3200 ft.

(c) None except as reported in Form MF-103

2362 - Minnie Jane Mine
Butte

MnO_2 + Sulphide + gold, Silver, Pb, Zn —

Examined by Corain, 1941 -

Proposed work -
Repair of Shaft, top to Bottom

FILE COPY
SURNAME:

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

FEB 8 1952

Mr. W. McC. White, President
Butte Mines Merger Corporation
R.F.D. No. 1, Box 53
Butte, Montana

Re: Docket No. DMEA 2342X - Manganese
Minnie Jane Mine
Silver Bow County, Montana

Dear Mr. White:

In order to continue our review of your application dated January 16, 1952, as per the subject docket, it will be necessary that you furnish us with the following information:

1. Details of the work involved in repairing the shaft from head frame to sump, the time required and an itemized statement of the estimated costs.

2. Details of the work and estimated costs of reconditioning stations, drifts, crosscuts and raises and the time required.

3. Estimated costs and time in extending the 200 level for a distance of 150 feet.

4. List clearly the objectives for each of the above operations.

May we hear from you at your earliest convenience?

Sincerely yours,

George C. Selfridge

G. C. Selfridge, Acting Chief
Iron and Ferro-Alloy Division

GGGentry'lm
2/7/52

cc: Admn. Reading File
Docket
N. B. Melcher, USBM
M. D. Crittenden, USGS
Field Team Reg. II
G. C. Selfridge
G. G. Gentry

EXPLORATION

Subject: DMEA-2342
Re: Exploration Loan
Minnie Jane Mine
January 23, 1952

Mr. W. McC. White, President
Butte Mines Merger Corporation
R. F. D. No. 1, Box 53
Butte, Montana

My dear Mr. White:

This will acknowledge receipt of your application dated January 16, 1952 for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMEA-2342 and referred to the Iron & Ferro-Alloys Division.

Kindly refer to DMEA-2342 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams
Acting Administrative Officer

7862

DMEA-2342

Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont.

January 16, 1952

Defense Minerals Exploration Administration,
Interior Department,
Washington, D. C.

Gentlemen:

Herewith we hand you an application for an exploration loan of $60,000.00, consisting of Forms MF-103 and MF-100.

Also enclosed is copy of a letter from the Defense Production Agency denying a production loan of $96,000.00, and suggesting that we apply for an exploration loan.

In this application we have reduced former plans of operation to conform with the present application.

Very truly yours,

BUTTE MINES MERGER CORPORATION

By W. McC. White, President

WMcCW-S

Encs.

Department of the Interior
Defense Minerals Administration
RECEIVED
JAN 2 1952

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

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

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

Not To Be Filled in by Applicant

Docket No. DME A-2342
Metal or Mineral
Date Received 1-21-52
Amount $
Participation (Government %)

Name and address of applicant

BUTTE LEADS MINING CORPORATION

R. F. D. No. 1 - Box 53

BUTTE ~~D. M. A. 1788~~ TANA

Date January 16, 1952

If you have already filed MF-100, give date filed herewith, type of assistance requested Exploration project. Production Loan Form N.S.R.B. 146 previously applied for.

DMA Docket Number (if available) 1788

Department of the Interior
Defense Minerals Administration
RECEIVED
JAN 21 1952

INSTRUCTIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

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

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

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

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

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

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

CERTIFICATION

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

BUTTE MINES MERGER CORPORATION
(Name of company)

By [signature]
(Signature of authorized official)

January 16, 1952
(Date)

President.
(Title)

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

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

D. M. A. 1788

Butte Mines Merger Corporation

R. F. D. No. 53

Butte

DEFENSE MATERIALS PROCUREMENT AGENCY

WASHINGTON 25, D. C.

Air Mail

Mr. N. McC. White, President
Butte Mines Merger Corporation
R. F. D. No. 1, Box 53
Butte, Montana

In reply please refer to
DMA-1788 - Manganese

Dear Mr. White:

We have examined your latest proposal in your letter dated December 7, 1951. It appears that an expenditure of $96,000 is not justified based upon the information available on ore reserves. The ore remaining in the vicinity of your World War II workings and above the 400-foot level would not warrant a loan of this size. The ore below the 400-foot level could probably not be mined profitably due to the double handling necessary through the winze from the 400 to 600-foot level. Sinking the vertical shaft to the 600-foot level is not warranted from present information on the reserves.

The development of sufficient ore in the unstoped parts of the vein east of the No. 1 shaft and mostly above the 200-foot level could materially change the picture. However, this is an exploration proposition and will have to be handled as such.

Therefore, we must deny your application for a direct Government loan, but we suggest that you submit an exploration proposal to the Defense Minerals Exploration Administration, Department of Interior, Washington, D. C., and we are enclosing the necessary application blanks.

Very truly yours,

/s/ A. B. Parsons

for Tom Lyon, Director Program
Development Division

Enclosures
1 - MO-5
5 - MF-100
5 - MF-103

(Mailed from Washington Jan. 2
Received Jan. 5th.)

D. M. A. 1788

Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont.

FORM MF-103

Wuestion No. 1

(a) Property known as the Minnie Jane Mine. Surface map herewith shows property involved.

(b) Property is owned by this corporation.

(c) All of the Minnie Jane Claim, Lot No. 203, except the "deeded tract" and the East 338 feet designated as "Final decree" shown on map.

The legal description is as follows, to-wit:

That portion of the Minnie Jane Lode Claim designated by the United States as Lot No. 203, situated in Sections 14 and 15, Tp. 3, N. R. 8 W., Independence Mining District, Silver Bow County, Montana, described as follows:

Beginning at a point which point is the North West corner of the tract herein described and from which point the North West corner No. 1 of the Minnie Jane Lode Claim, designated as Lot No. 203, bears North 15° West a distance of 7.00 ft., thence North 87° 21' East for a distance of 1193.00 ft., thence South 15° East for a distance of 379.75 ft., thence South 78° 05' West for a distance of 1167.02 ft., thence North 15° West for a distance of 572.00 ft., to the point of beginning.

MF-103 Question No. 1(a)

~~D. M. A. 1788~~

Butte Mines Merger Corporation

R. F. D. No. 53 Butte, Mont.

FORM MF-103

Question 1 Ownership of Property Note 2

General Land Office
No. 6901
United States of America
To
Jeremiah Roach
V. Josephine Wampler
Minnie Jane Lode Mining Claim
Survey No. 946 Lot 203 in Sections 14 and 15, Tw 3 N, R 8 West Silver Bow County, Montana

: Mineral Certificate No. 760
: Patent
: Dated 15 December 1882
: Recorded 9 April 1883 in Vol A of Patents
: Page 88 Silver Bow County, Montana
: Date of Entry 19 December 1881

Jeremiah Roach et ux Alice Roach
And
Josephine Wampler et con Reese D. Wampler
To
George C. Fitchen
And
Benjamin D. Phillips
All right, title and interest of said parties of the first part of, in and to that certain portion, claim and mining right title etc. described as follows towit:
Beginning at the N.W. Cor. No. 1 of the Minnie Jane Lode Claim designated as Lot No. 203 and running S 15° E 7 ft along the West line of said Lot 203; thence N 87° 21' E 1531 ft to a point on the Easterly boundary of said Lot No. 203, thence N 15° W along the Eastern boundary 230 ft to the NE Corner N 4 of said Lot No. 203, thence S 79° W along the Northern boundary of said Lot No. 203, 1500 ft. to corner No. 1, the place of beginning containing an area 4-6/100 acres, more or less.

: Deed dated September 22nd 1885
: Filed September 23rd 1885
: Recorded Vol. "H" of Deeds Page 41
: Silver Bow County, Montana

Roach and Wampler (in separate deeds)
To
Butte, Anaconda Pacific Ry. Co.
Right of way over portion of surface for railroad

: Records of Silver Bow County, Montana
: Vol 5 of Deeds Page 475 and 477
: Vol 17 of Deeds Page 138 and 140

V. Josephine Wampler
To
Tidewater Investment Company
All right, title and interest in and to an undivided one half interest in and to the Minnie Jane Lode Mining Claim, Survey No. 946 and Lot No. 203, Silver Bow County, Montana.

: Deed dated November 14, 1912
: Recorded Vol. 105 of Deeds Page 391
: Silver Bow County, Montana
: Filed November 30, 1912

David F. Roach Adm. Estate of Jeremiah Roach (deceased) To W. McC. White All right, title and interest in and to an undivided one half interest in and to the Minnie Jane Lode Mining Claim, Survey No..946, Lot 203.	: Deed dated December 15, 1917 : Filed October 30, 1922 : Book 153 of Deeds Page 128 : Records of Silver Bow County, Montana
Tidewater Investment Company, W. McC. White and Elizabeth W. White, his wife To Butte West Side Mines Company All right, title and interest in and to the Minnie Jane Lode Claim, Survey No. 946, Lot 203	: Deed dated October 18, 1922 : Filed October 30, 1922 : Book 153 of Deeds Page 129 : Silver Bow County, Montana
Butte West Side Mines Company To Butte Mines Merger Corporation All right, title and interest in and to the Minnie Jane Lode Claim, Survey 946, Lot 203.	: Deed dated April 27, 1927 : Filed May 14, 1927 : Book 161 of Deeds Page 231 : Silver Bow County, Montana
In the U. S. District Court at Butte, Montana Midwest Butte Development Company vs. Butte West Side Mines Company	: No. 326 : Final Decree : See map herewith

D. M. A. 1788

Butte Mines Merger Corporation

R. F. D. No. 55 Butte, Mont.

FORM MF-103

Question No. 2

(a) Manganese carbonate and sulphide ore carrying gold, silver, lead and zinc.

(b) Ore has been exposed from grass roots to the lowest level. Herewith are two assay maps of investigations made in 1941 and mainly confined to the 400 level, to-wit: Sketch by S. H. Lorain of Bureau of Mines, May, 1941; Map No. 2 Bureau of Mines Exploration Project No. 311, June, 1941. There is a large manganese outcrop extending about 400 ft. west and 700 ft. east of shaft No. 1. The ore mined during War No. II came from west of the shaft on the 200 level and west of raise 401 on the 400 level. Stopes were around 16 to 24 ft. wide. Ore still remains in these stopes. Commercial ore bodies of manganese carbonate ore are exposed at many places east of No. 1 shaft on the 200 level. The large body of ore east of 406 raise reported by Mr. Lorain extends down to the 400 level; it is high grade ore. The sulphide ore, about 25 ft. wide, between this Mn and the footwall was taken out in 1938. The stope is open - the cave referred to was the breaking off of about 1,000 tons of manganese. This ore can be readily taken out as well as the several thousand exposed tons remaining on the hanging wall. Above the twelfth floor of Raise 406 is an extensive body of manganese carbonate ore around 30 ft. wide which extends in various thicknesses to within 50 ft. of the surface at shaft No. 2.
We expect to begin mining on the 200 level mainly east of No. 1 shaft and believe will be employed therefor more than a year.

D. M. A. 1768

Butte Mines Morgan Corporation
R. F. D. No. 55 Butte, Mont.

FORM MF-103

Question No. 3

(a) Repairing shaft from head frame to sump. After setting aside the funds required for equipment, the balance of the money to be used in reconditioning stations, drifts, crosscuts and raises to be used in production, extending the 300 level 150 ft. and readying the entries that will be used for motor transportation.
The total cost of project will be - - - - $60,000.00

(b) The work should be completed within 1½ years. However, after getting into production, it may be slowed down.

~~D. M. A. 1788~~

Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont.

FORM MF-103

Question No. 4

Map of mine workings herewith.

D. M. A. 1788

Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont. FORM MF-103

Question No. 5

Temporary office building
Carpenter shop
Blacksmith shop
Hoist and compressor building
Dry
Store room shed
Water tank for compressor and for drilling
Water will require renewal

~~D. M. A. 1780~~

Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont.

FORM MF-103

Question No. 6

Water tank for compressor and drilling	$1,000.00
Extension of Ry, switch and trestle and and tracks to reach it	4,000.00
Mucking machine & freight	3,100.00
Slushers and scrapers, etc.	5,000.00
Battery motor complete & installed	8,700.00

D. M. A. 1788

Butte Mines Merger Corporation
R. F. D. No. 55 Butte, Mont.

FORM MF-103

Question No. 7

(a) 75 H. P. hoist
100 H. P. compressor
Shaft cage
Head frame
5 machine drills
Bit sharpener
Swinging timber saw
1 A.C.M. timber hoist
1 20 H. P. electric hoist
2 electric pumps
3 tuggers
2 blowers & 500 ft. tubing
Rails, pipes, etc.
Mine tools, etc.

(b) Not applicable

(c) Rental per month $400.0

8 mine cars owned by corporation

~~D. M. A. 1763~~

Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont.

FORM MF-103

Question No. 8

Small mine foreman	$450.00 to $500.00	per month
Shiftboss	407.50 to $437.50	" "
Carpenters	$14.76	per shift
Engineer	$14.76	" "
Miner (regular)	$13.47	" "
" (shaft)	$14.33	" "
Station tender	$14.33	" "

The above scale went into effect December, 1951.

It is about 10% higher than the previous scale.

~~D. M. A. 1738~~

Butte Minus Merger Corporation

R. F. D. No. 53 *Butte, Mont.*

FORM MF-103

Question No. 9

Timber		$65.00 per M
Stulls		$1.00 to $3.00 each
Wire rope 3/4" hemp center		0.317 per foot
" " " wire rope center		0.364 " "
" " 1/2"		$16.40 per hundred ft.
" " 3/5"		$13.50 " " "
8" vent tubes 50 ft.		42.33 per length
12" " " " "		54.65 " "
Blasting powder		$21.75 to $20.25 per hundred
Fuse		$13.70 per M
Caps		$27.60 " "
1" black pipe		$16.41 per hundred ft.
2" " "		$34.19 " " "
3" " "		$70.23 " " "
12 lb. rail		8.15 " " "
16 lb. "		8.00 " " "
3/4" manila rope		57.50 " " lbs
I-R bits for stopers		43¢ to 45¢ each
Nails by keg 10 D to 60 D		$9.47 to 9.57 per keg
Track spikes		11.15 " "
Engineering (when employed)		$25.00 per day
Assaying	Gold	1.50
	Silver	1.50
	Lead	1.00
	Zinc	1.50
	Manganese	1.00
Accounting (estimated)		$200.00 per month
Power		300.00 " "

Water is the cost of hauling occasionally.

Butte Mines Merger Corporation
R. F. D. No. 33 Butte, Mont.

FORM MF-103

Question No. 10

(a) $15,000.00

(b) It is enough.

Form MF-100
(May 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. DMEA-2342

Date received

BUTTE MINES MERGER CORPORATION
R. F. D. #1 - Box 53
~~D. M. A. 1700~~
BUTTE MONTANA

Name and address of applicant

Date January 16, 1952

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) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) 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 10 years

   If not in production or operation, estimated date when production will begin June, 1952
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.

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

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)
White, [illegible] Leo.	Pres. D.		100,000	1,000	987	None	
White, Wallace	V. Pres. D			100,000	1250	"	
Midwater Inv. Co.				98,000	2501		
Bal , P. [illegible]					67,691	"	
Butte and Wide Mines	Co.			100,000			
Officers' address							
Butte, Montana.	Total		x x x x x	399,000	68,119	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	$2,000,000	$300,000	$1.00	300,000	None
Preferred stock	$300,000	$	$1.00	64,304	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.)	None	since 1945			
2. Quantity of product processed (specify unit of measure and type of process)	"	"	"		
3. Quantity and grade of product sold or shipped (specify units of measure)	"	"	"		

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change. 3000 tons

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. Explained in [illegible]-103 [illegible]

(*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)		Sulphides	$20.00		
Indicated (probable)	150,000	Mn 17 to 39%			

(*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.

Butte Mines Merger Corporation

R. F. D. No. 53 *Butte, Mont.*
(Name of company)

BUTTE MINES MERGER CORPORATION

By [signature]
(Signature of authorized official)

January 16, 1952
(Date)

President
(Title)

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

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

D.M.A. 1768

Butte Mining Manganese Corporation
R. F. D. No. 53 Butte, Mont.

FORM MF-100

Question 1

(a) Sulphide and manganese carbonate ores.

Manganese carbonate ore will be mined.

(b) By-products, gold, silver, lead and zinc.

D. M. A. 1766

Butte Mines Merger Corporation
R. F. D. No. 55 Butte, Mont.

FORM MF-100

Question 2 Minnie Jane Mine

(a) 540 ft.

(b) Drifts 2830 ft., crosscuts 1500 ft., total 4330 ft.

(c) Not applicable.

(d) Raises 1500 ft.

Mine is dry.

Present capacity about 75 tons per shift.

Shaft 2 compartment to 200 level and 3 compartment 200 level to 400 level - One hoisting compartment.

D.M.A. 1788

Butte Mines Merger Corporation
R. F. D. No. 55 Butte, Mont.

FORM MF-100

Question 3

(a) 1 mile west of Butte, Montana. Loading spur 700 ft. from shaft.

(b) Independence Mining District.

(c) Tp. 3 N. Sections 14 & 15, Range 8 W.

(d) Silver Bow County, Montana.

Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont.

FORM MF-100

Question 4

(a) Property is not operating.

(b) This corporation is the owner.

No lessees or contractors.

D. M. K. 6739

Butte Mines & Copper Corporation
R. F. D. No. 53 Butte, Mont.

FORM MF-100

Question 5

Total years in production 10.

Production should begin in June or July, 1952.

Past operations prior to War II were for the mining of sulphide ores. In these operations rhodochrosite was encountered in substantially all openings. Rhodochrosite had no market until War II. During the latter period we had a contract, which, under its terms, could be cancelled upon 30 days' notice. Under this limitation the Corporation did not open the old workings beyond immediate mining requirements to secure carbonate ore. If and when the 30 day option was exercised, there would be no market for the carbonate ore.

~~D. M. A. 4168~~

Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont.

FORM MF-100

Question 6

(a) General management will be the same as in former years.

(b) The staff will be experienced in mining in the Butte district.

D. M. A. 1783

Butte Mines Mergers Corporation
R. F. D. No. 55 Butte, Mont.

FORM MF-100

Question 7

(a) ORE SHIPMENTS

Shipments years 1923-1924-1925 and 1926

To Washoe Sampler 12,665 dry tons

Average assay per ton

Silver	19.4 oz.
Gold	$4.20

To Timber Butte Milling Co. 16,197 dry tons

Average assay per ton

Silver	9.105 oz.
Gold	$1.928
Zinc	1.77%
Lead	1.005%

Shipments during years 1937, 1938 and 1939

To Washoe Sampler and Anaconda were 17,127 dry tons

Average assay per ton

	Silver	9.593 oz.
	Gold	0.152 "
Of ore concentrated	Zinc	3%
	Lead	1.50%

Shipments to Govt. Nov. 1942 to March, 1945 were

52,000 long dry tons averaging 17 to 18%
Mn carbonate

Suspension of mining in 1926 was due to litigation which has been settled.

(b) Orphan Girl of A. C. M. Co., adjoining on the East, large shipper. Mine shaft 3200 ft.

(c) None except as reported in Form MF-103

D. M. A. 1788

DMEA-2342

Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont.

January 16, 1952

Defense Minerals Exploration Administration,
Interior Department,
Washington, D. C.

Gentlemen:

Herewith we hand you an application for an exploration loan of $60,000.00, consisting of Forms MF-103 and MF-100.

Also enclosed is copy of a letter from the Defense Production Agency denying a production loan of $96,000.00, and suggesting that we apply for an exploration loan.

In this application we have reduced former plans of operation to conform with the present application.

Very truly yours,

BUTTE MINES MERGER CORPORATION

By W. McC. White, President

WMcCW-S

Encs.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 22 1952

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

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

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

Not To Be Filled in by Applicant

Docket No. DMEA-2342
Metal or Mineral
Date Received 1-21-52
Amount $
Participation (Government %)

Name and address of applicant

BUTTE MINES MERGER CORPORATION

R. F. D. No. 1 - Box 53

BUTTE ~~D. M. A. 1788~~ TANA

Date January 16, 1952

If you have already filed MF-100, give date filed herewith, type of assistance requested Exploration project. Production Loan Form N.S.R.B. 146 previously applied for.

DMA Docket Number (if available) ~~1788~~

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

INSTRUCTIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

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

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

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

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

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

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

CERTIFICATION

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

Butte Mines Merger Corporation
R. F. D. No. 55 Butte, Mont.
(Name of company)

By [signature]
(Signature of authorized official)

January 16, 1952
(Date)

President
(Title)

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

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

D. M. A. ~~1788~~

Butte Mines Merger Corporation

R. F. D. No. 53 Butte, Mont.

DEFENSE MATERIALS PROCUREMENT AGENCY

WASHINGTON 25, D. C.

Air Mail

Mr. W. McC. White, President
Butte Mines Merger Corporation
R. F. D. No. 1, Box 53
Butte, Montana

In reply please refer to
DMA-1788 - Manganese

Dear Mr. White:

We have examined your latest proposal in your letter dated December 7, 1951. It appears that an expenditure of $96,000 is not justified based upon the information available on ore reserves. The ore remaining in the vicinity of your World War II workings and above the 400-foot level would not warrant a loan of this size. The ore below the 400-foot level could probably not be mined profitably due to the double handling necessary through the winze from the 400 to 600-foot level. Sinking the vertical shaft to the 600-foot level is not warranted from present information on the reserves.

The development of sufficient ore in the unstoped parts of the vein east of the No. 1 shaft and mostly above the 200-foot level could materially change the picture. However, this is an exploration proposition and will have to be handled as such.

Therefore, we must deny your application for a direct Government loan, but we suggest that you submit an exploration proposal to the Defense Minerals Exploration Administration, Department of Interior, Washington, D. C., and we are enclosing the necessary application blanks.

Very truly yours,

/s/ A. B. Parsons

for Tom Lyon, Director Program
Development Division

Enclosures
1 - MO-5
5 - MF-100
5 - MF-103

(Mailed from Washington Jan. 2
Received Jan. 5th.)

D. M. A. 1788

Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont.

FORM MF-103

Question No. 1

(a) Property known as the Minnie Jane Mine. Surface map herewith shows property involved.

(b) Property is owned by this corporation.

(c) All of the Minnie Jane Claim, Lot No. 203, except the "deeded tract" and the East 338 feet designated as "Final decree" shown on map.

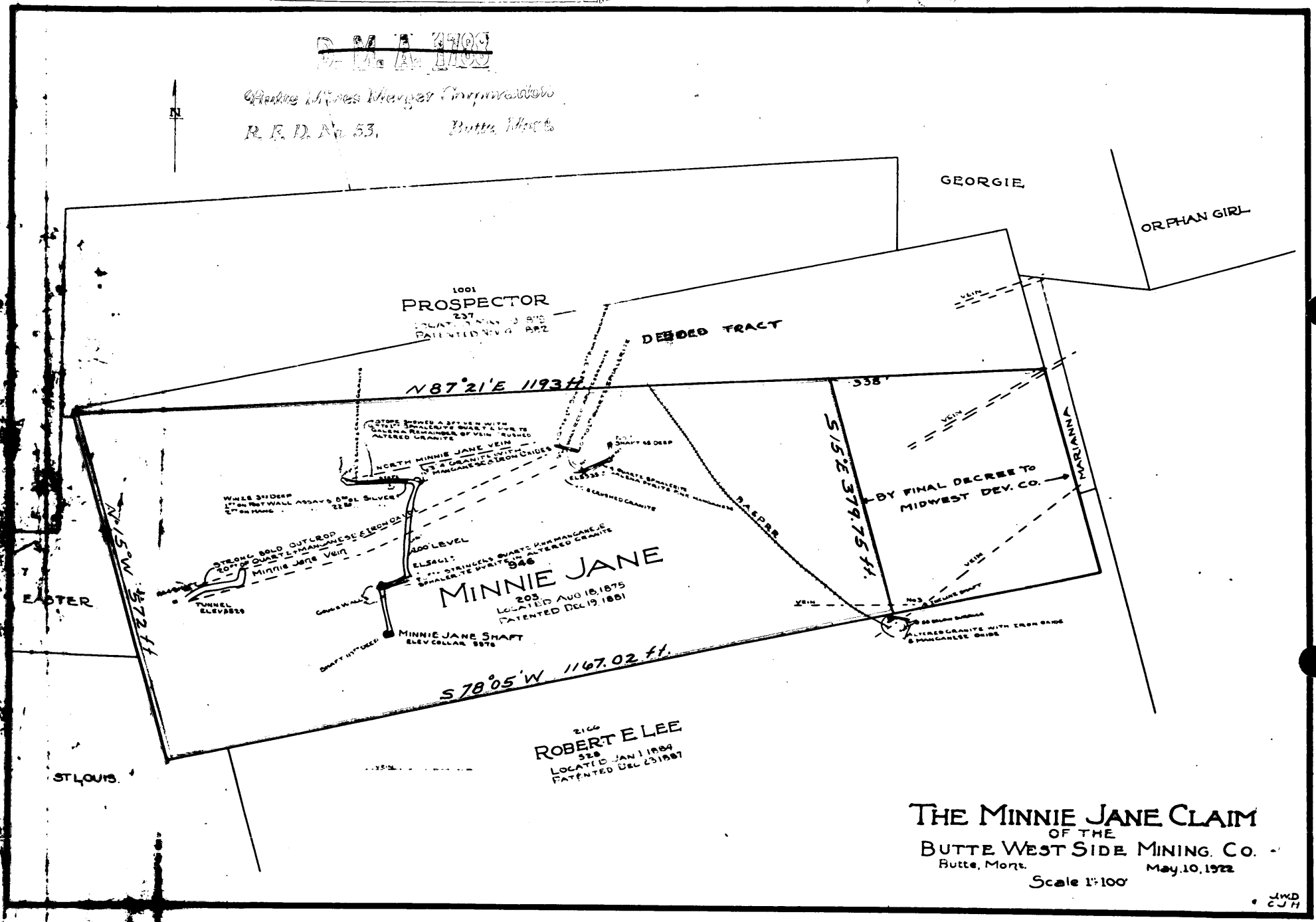
The legal description is as follows, to-wit:

That portion of the Minnie Jane Lode Claim designated by the United States as Lot No. 203, situated in Sections 14 and 15, Tp. 3, N. R. 8 W., Independence Mining District, Silver Bow County, Montana, described as follows:

Beginning at a point which point is the North West corner of the tract herein described and from which point the North West corner No. 1 of the Minnie Jane Lode Claim, designated as Lot No. 203, bears North 15° West a distance of 7.00 ft., thence North 87° 21' East for a distance of 1193.00 ft., thence South 15° East for a distance of 379.75 ft., thence South 78° 05' West for a distance of 1167.02 ft., thence North 15° West for a distance of 572.00 ft., to the point of beginning.

MF-103 Question No. 1 (a)

Butte Mines Merger Corporation
R. F. D. No. 53, Butte, Mont.



THE MINNIE JANE CLAIM
OF THE
BUTTE WEST SIDE MINING CO.
Butte, Mont.
May 10, 1922
Scale 1" = 100'

JWD
CJH

~~D. M. A. 1788~~

Butte Mines Merger Corporation

R. F. D. No. 53 Butte, Mont.

FORM MF-103

Question 1 Ownership of Property Note 2

General Land Office No. 6901 United States of America To Jeremiah Roach V. Josephine Wampler Minnie Jane Lode Mining Claim Survey No. 946 Lot 203 in Sections 14 and 15, Tw 3 N, R 8 West Silver Bow County, Montana	Mineral Certificate No. 760 : Patent : Dated 15 December 1882 : Recorded 9 April 1883 in Vol A of Patents : Page 88 Silver Bow County, Montana : Date of Entry 19 December 1881
Jeremiah Roach et ux Alice Roach And Josephine Wampler et con Reese D. Wampler To George C. Fitchen And Benjamin D. Phillips All right, title and interest of said parties of the first part of, in and to that certain portion, claim and mining right title etc. described as follows towit: Beginning at the N.W. Cor. No. 1 of the Minnie Jane Lode Claim designated as Lot No. 203 and running S 15° E 7 ft along the West line of said Lot 203; thence N 87° 21' E 1531 ft to a point on the Easterly boundary of said Lot No. 203, thence N 15° W along the Eastern boundary 230 ft to the NE Corner N 4 of said Lot No. 203, thence S 79° W along the Northern boundary of said Lot No. 203, 1500 ft. to corner No. 1, the place of beginning containing an area 4-6/100 acres, more or less.	: Deed dated September 22nd 1885 : Filed September 23rd 1885 : Recorded Vol. "H" of Deeds Page 41 : Silver Bow County, Montana
Roach and Wampler (in separate deeds) To Butte, Anaconda Pacific Ry. Co. Right of way over portion of surface for railroad	: Records of Silver Bow County, Montana : Vol 5 of Deeds Page 475 and 477 : Vol 17 of Deeds Page 138 and 140
V. Josephine Wampler To Tidewater Investment Company All right, title and interest in and to an undivided one half interest in and to the Minnie Jane Lode Mining Claim, Survey No. 946 and Lot No. 203, Silver Bow County, Montana.	: Deed dated November 14, 1912 : Recorded Vol. 105 of Deeds Page 391 : Silver Bow County, Montana : Filed November 30, 1912

David F. Roach Adm. Estate of Jeremiah Roach (deceased) To W. McC. White All right, title and interest in and to an undivided one half interest in and to the Minnie Jane Lode Mining Claim, Survey No..946, Lot 203.	: Deed dated December 15, 1917 : Filed October 30, 1922 : Book 153 of Deeds Page 128 : Records of Silver Bow County, Montana
Tidewater Investment Company, W. McC. White and Elizabeth W. White, his wife To Butte West Side Mines Company All right, title and interest in and to the Minnie Jane Lode Claim, Survey No. 946, Lot 203	: Deed dated October 18, 1922 : Filed October 30, 1922 : Book 153 of Deeds Page 129 : Silver Bow County, Montana
Butte West Side Mines Company To Butte Mines Merger Corporation All right, title and interest in and to the Minnie Jane Lode Claim, Survey 946, Lot 203.	: Deed dated April 27, 1927 : Filed May 14, 1927 : Book 161 of Deeds Page 231 : Silver Bow County, Montana
In the U. S. District Court at Butte, Montana Midwest Butte Development Company vs. Butte West Side Mines Company	: No. 326 : Final Decree : See map herewith

~~D. M. A. 1733~~

Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont.

FORM MF-103

Question No. 2

(a) Manganese carbonate and sulphide ore carrying gold, silver, lead and zinc.

(b) Ore has been exposed from grass roots to the lowest level. Herewith are two assay maps of investigations made in 1941 and mainly confined to the 400 level, to-wit: Sketch by S. H. Lorain of Bureau of Mines, May, 1941; Map No. 2 Bureau of Mines Exploration Project No. 311, June, 1941. There is a large manganese outcrop extending about 400 ft. west and 700 ft. east of shaft No. 1. The ore mined during War No. II came from west of the shaft on the 200 level and west of raise 401 on the 400 level. Stopes were around 16 to 24 ft. wide. Ore still remains in these stopes. Commercial ore bodies of manganese carbonate ore are exposed at many places east of No. 1 shaft on the 200 level. The large body of ore east of 406 raise reported by Mr. Lorain extends down to the 400 level; it is high grade ore. The sulphide ore, about 25 ft. wide, between this Mn and the footwall was taken out in 1938. The stope is open - the cave referred to was the breaking off of about 1,000 tons of manganese. This ore can be readily taken out as well as the several thousand exposed tons remaining on the hanging wall. Above the twelfth floor of Raise 406 is an extensive body of manganese carbonate ore around 30 ft. wide which extends in various thicknesses to within 50 ft. of the surface at shaft No. 2.
We expect to begin mining on the 200 level mainly east of No. 1 shaft and believe will be employed therefor more than a year.

~~D. M. A. 1788~~

Butte Mines Merger Corporation
R. F. D. No. 55 Butte, Mont.

FORM MF-103

Question No. 3

(a) Repairing shaft from head frame to sump. After setting aside the funds required for equipment, the balance of the money to be used in reconditioning stations, drifts, crosscuts and raises to be used in production, extending the 200 level 150 ft. and readying the entries that will be used for motor transportation.
The total cost of project will be - - - - $60,000.00

(b) The work should be completed within 1½ years. However, after getting into production, it may be slowed down.

~~B. M. A. 1763~~

Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont.

FORM MF-103

Question No. 4

Map of mine workings herewith.

~~D. M. A. 1763~~

Butte Mines Merger Corporation
R. F. D. No. 55 Butte, Mont.

FORM MF-103

Question No. 5

Temporary office building
Carpenter shop
Blacksmith shop
Hoist and compressor building
Dry
Store room shed
Water tank for compressor and for drilling
Water will require renewal

Butte Mines Mining Corporation
R. F. D. No. 3 Butte, Mont.

FORM MF-103

Question No. 6

Water tank for compressor and drilling	$1,000.00
Extension of Ry. switch and trestle and and tracks to reach it	4,000.00
Mucking machine & freight	3,100.00
Slushers, and scrapers, etc.	5,000.00
Battery motor complete & installed	8,700.00

~~D. M. A. 1788~~

s Merger Corporation

Butte, Mont.

FORM MF-103

Question No. 7

(a) 75 H. P. hoist
100 H. P. compressor
Shaft cage
Head frame
5 machine drills
Bit sharpener
Swinging timber saw
1 A.C.M. timber hoist
1 20 H. P. electric hoist
2 electric pumps
3 tuggers
2 blowers & 500 ft. tubing
Rails, pipes, etc.
Mine tools, etc.

(b) Not applicable

(c) Rental per month $400.00

8 mine cars owned by corporation

D. M. A. 1763

Butte Mines-Morgan Corporation
R. F. D. No. 63 Butte, Mont.

FORM MF-103

Question No. 8

Small mine foreman	$450.00 to $500.00	per month
Shiftboss	407.50 to $437.50	" "
Carpenters	$14.76	per shift
Engineer	$14.76	" "
Miner (regular)	$13.47	" "
" (shaft)	$14.33	" "
Station tender	$14.33	" "

The above scale went into effect December, 1951.

It is about 10% higher than the previous scale.

D. M. A. 1788

Butte Mines Merger Corporation
R. F. D. No. 55 Butte, Mont.

FORM MF-103

Question No. 9

Timber	$65.00 per M
Stulls	$1.00 to $3.00 each
Wire rope 3/4" hemp center	0.317 per foot
" " " wire rope center	0.364 " "
" " 1/2"	$16.40 per hundred ft.
" " 3/5"	$13.50 " " "
8" vent tubes 50 ft.	42.33 per length
12" " " " "	54.65 " "
Blasting powder	$21.75 to $20.25 per hundred
Fuse	$13.70 per M
Caps	$27.60 " "
1" black pipe	$16.41 per hundred ft.
2" " "	$34.19 " " "
3" " "	$70.23 " " "
12 lb. rail	8.15 " " "
16 lb. "	8.00 " " "
3/4" manila rope	57.50 " " lbs.
I-R bits for stopers	43¢ to 45¢ each
Nails by keg 10 D to 60 D	$9.47 to 9.57 per keg
Track spikes	11.15 " "
Engineering (when employed)	$25.00 per day
Assaying Gold	1.50
Silver	1.50
Lead	1.00
Zinc	1.50
Manganese	1.00
Accounting (estimated)	$200.00 per month
Power	300.00 " "

Water is the cost of hauling occasionally.

D. T. A. 1788

Butte Minus Merger Corporation
R. F. D. No. 53 Butte, Mont.

FORM MF-103

Question No. 10

(a) $15,000.00

(b) It is enough.

Form MF-100
(May 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. DMEA-2342

Date received 1-21-52

BUTTE MINES MERGER CORPORATION

R. F. D. #1 - Box 53

BUTTE ~~D. M. A. 1788~~ MONTANA

Name and address of applicant

Date January 16, 1952

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) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) 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 10 years

   If not in production or operation, estimated date when production will begin June, 1952
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.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 21 1952

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)
White, T. McC.	Pres. D.		100,000	1,000	937	None	
White, Wallace	V. Pres. D			100,000	1250	"	
Tidewater Inv. Co.				98,000	2501		
Hal , P. S.					47,431	"	
Butte West Side Mines	Co.			100,000			
Officers' address							
Butte, Montana.	Total		x x x x x	299,000	52,119	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	$2,800,000	$ 300,000	$ 1.00	300,000	None
Preferred stock	$ 200,000	$	$ 1.00	64,364	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.)	None	since 1945			
2. Quantity of product processed (specify unit of measure and type of process)	"	"	"		
3. Quantity and grade of product sold or shipped (specify units of measure)	"	"	"		

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change. 3500 tons

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.

Explained in MF-103 herewith

(*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)		Sulphides	$20.00		
Indicated (probable)	150,000	Mn 17 to 39%			

(*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.

Butte Mines Merger Corporation
(Name of company)

BUTTE MINES MERGER CORPORATION

By [signature]
(Signature of authorized official)

R. F. D. No. 53 Butte, Mont.

January 16, 1952
(Date)

President
(Title)

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

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

D. M. A. 1788

Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont.

FORM MF-100

Question 1

(a) Sulphide and manganese carbonate ores.

Manganese carbonate ore will be mined.

(b) By-products, gold, silver, lead and zinc.

~~D. M. A. 1788~~

Butte Mines Mining Corporation
R. F. D. No. 53 Butte, Mont.

FORM MF-100

Question 2 Minnie Jane Mine

(a) 540 ft.

(b) Drifts 2830 ft., crosscuts 1500 ft., total 4330 ft.

(c) Not applicable.

(d) Raises 1500 ft.

Mine is dry.

Present capacity about 75 tons per shift.

Shaft 2 compartment to 200 level and 3 compartment 200 level to 400 level - One hoisting compartment.

~~D. M. A. 1788~~

Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont.

FORM MF-100

Question 3

(a) 1 mile west of Butte, Montana. Loading spur 700 ft. from shaft.

(b) Independence Mining District.

(c) Tp. 3 N. Sections 14 & 15, Range 8 W.

(d) Silver Bow County, Montana.

D. M. A. 1788
Butte Mines Merger Corporation
R. F. D. No. 65 Butte, Mont.

FORM MF-100

Question 4

(a) Property is not operating.

(b) This corporation is the owner.

No lessees or contractors.

D. M. A. 1738

Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont.

FORM MF-100

Question 5

Total years in production 10.

Production should begin in June or July, 1952.

Past operations prior to War II were for the mining of sulphide ores. In these operations rhodochrosite was encountered in substantially all openings. Rhodochrosite had no market until War II. During the latter period we had a contract, which, under its terms, could be cancelled upon 30 days' notice. Under this limitation the Corporation did not open the old workings beyond immediate mining requirements to secure carbonate ore. If and when the 30 day option was exercised, there would be no market for the carbonate ore.

~~D. M. A. 1788~~

Butte Mines Merger Corporation
R. F. D. No. 33 Butte, Mont.

FORM MT-100

Question 5

(a) General management will be the same as in former years.

(b) The staff will be experienced in mining in the Butte district.

~~D. M. A. 1700~~

Butte Mines Merger Corporation
R. F. D. No. 55 Butte, Mont.

FORM MF-100

Question 7

(a) ORE SHIPMENTS

Shipments years 1923-1924-1925 and 1926

To Washoe Sampler 12,665 dry tons

Average assay per ton

Silver	19.4 oz.
Gold	$4.20

To Timber Butte Milling Co. 16,197 dry tons

Average assay per ton

Silver	9.105 oz.
Gold	$1.928
Zinc	1.77%
Lead	1.005%

Shipments during years 1937, 1938 and 1939

To Washoe Sampler and Anaconda were 17,127 dry tons

Average assay per ton

	Silver	9.593 oz.
	Gold	0.152 "
Of ore concentrated	Zinc	3%
	Lead	1.50%

Shipments to Govt. Nov. 1942 to March, 1945 were

52,000 long dry tons averaging 17 to 18%
Mn carbonate

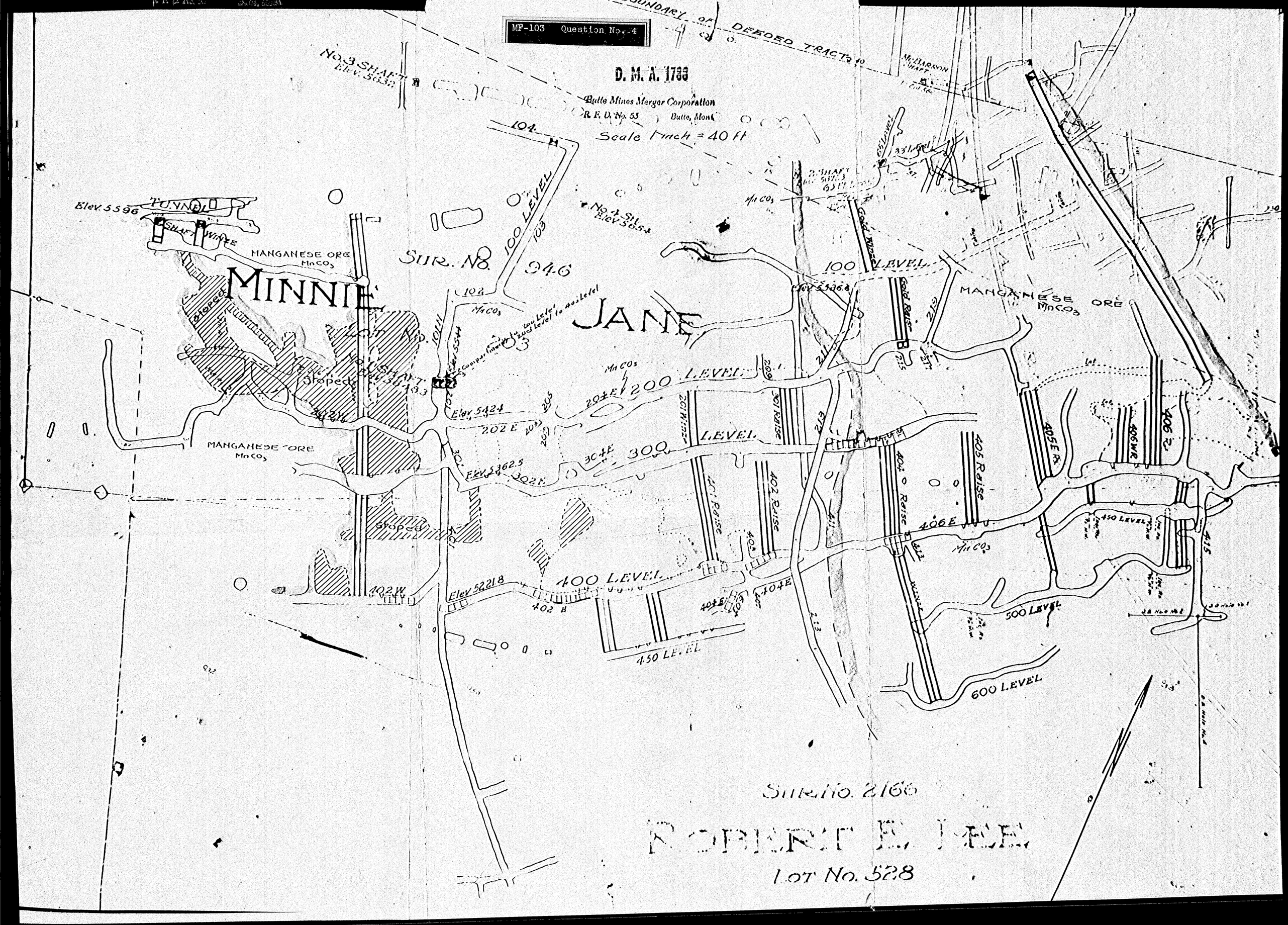
Suspension of mining in 1926 was due to litigation which has been settled.

(b) Orphan Girl of A. C. M. Co., adjoining on the East, large shipper. Mine shaft 3200 ft.

(c) None except as reported in Form MF-103

D. M. A. 1783
Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont.

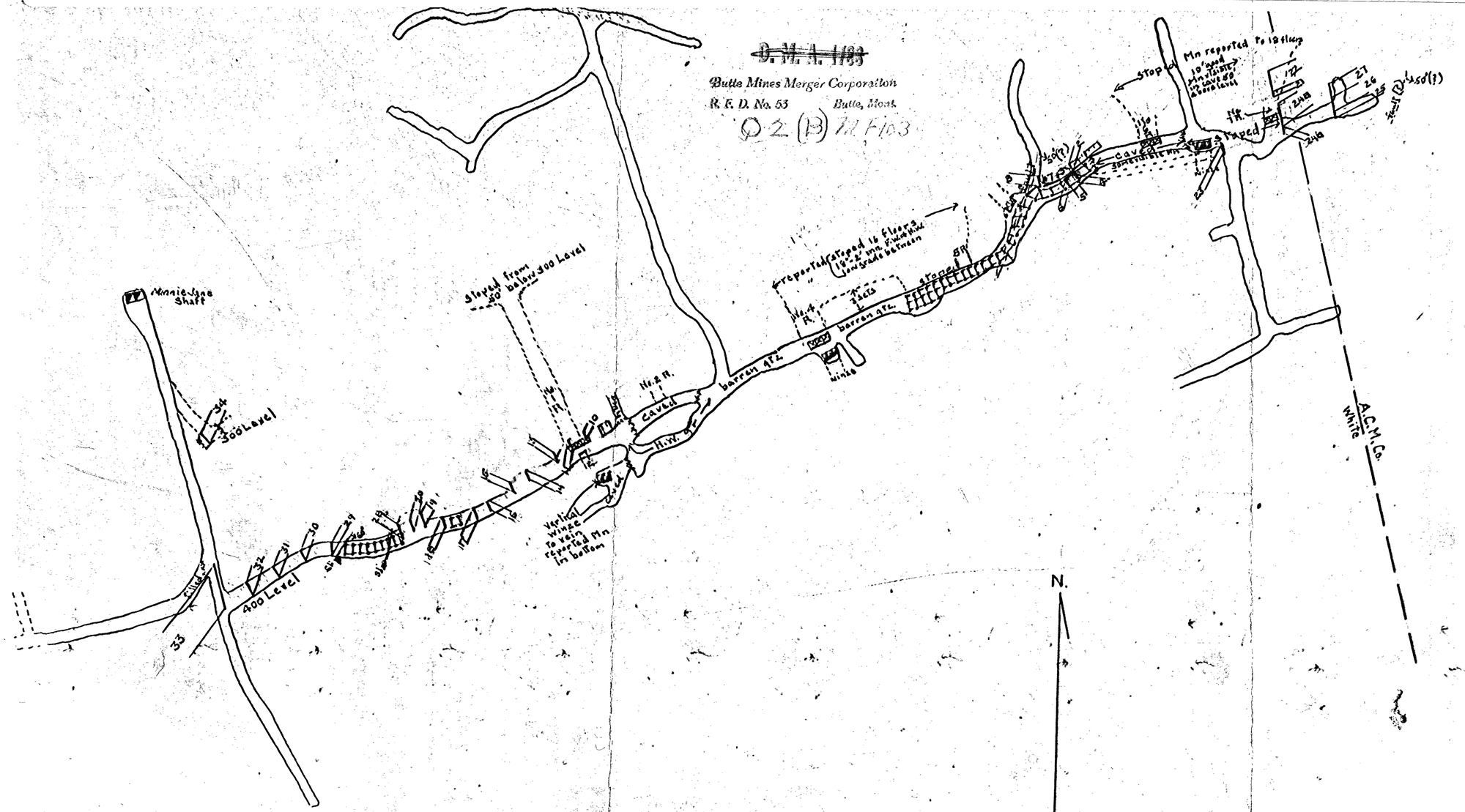
MF-103 Question No. 4



~~D. M. A. 1183~~

Butte Mines Merger Corporation
R. F. D. No. 53 Butte, Mont.

D-2 (B) M F103



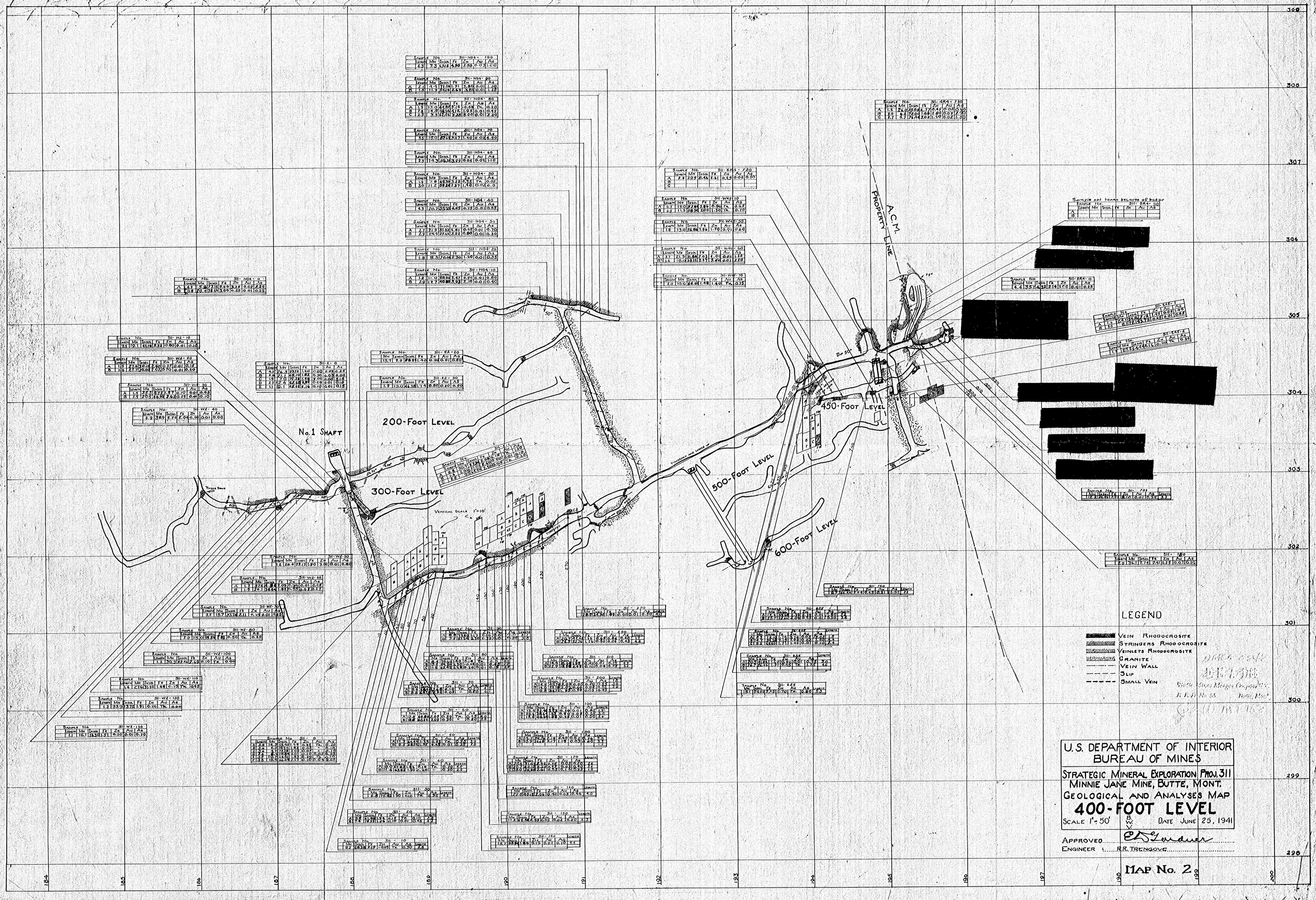
Samples

No. 1 -	8.6 Mn.	63.6 Insol.
2 -	6.5	75.2
3 -	23.6	24.4
4 -	14.8	57.2
5 -	12.3	65.0
6 -	10.6	70.0
7 -	20.2	45.4
8 -	19.0	49.4
9 -	27.0	31.3
10 -	37.0	8.6
11 -	33.5	16.5
12 -	3.7	83.7
13 -	24.0	31.9
14 -	23.8	32.5
15 -	22.6	24.0
16 -	17.9	42.2
17 -	18.3	46.2
18 -	22.5	40.4
19 -	13.9	63.2
20 -	19.3	48.2
No. 21 -	36.0 Mn	10.6 Insol.
22 -	8.5	67.4
23 -	35.4	8.6
24A -	36.9	7.6
24B -	19.0	67.0
25 -	32.6	15.2
26 -	4.5	73.0
27 -	8.8	70.0
28 -	23.1	40.2
29 -	13.5	64.6
30 -	11.4	64.4
31 -	10.2	70.2
32 -	7.5	74.6
33 -	8.5	74.0
34 -	22.8	40.6

Sketch
Showing
Sample Locations
and
Rhodochrosite Oreshoots
400 Level
Minnie Jane Mine
Butte, Mont.

Scale 1 inch = 50 feet

J.H. Lorain
5/5/11


200-Foot Level
300-Foot Level
500-Foot Level
600-Foot Level
450-Foot Level
No. 1 Shaft
Vertical Scale 1" = 10'
A.C.M. Property Line
Sample not taken because of bad air
[redacted]
LEGEND
Vein Rhodocrosite
Stringers Rhodocrosite
Veinlets Rhodocrosite
Granite
Vein Wall
Slip
Small Vein
U.S. DEPARTMENT OF INTERIOR
BUREAU OF MINES
STRATEGIC MINERAL EXPLORATION PROJ. 311
MINNIE JANE MINE, BUTTE, MONT.
GEOLOGICAL AND ANALYSES MAP
400-FOOT LEVEL
SCALE 1" = 50'
DATE JUNE 25, 1941
APPROVED
ENGINEER R.R. TRENGOVE
MAP No. 2