DMA Form 1

DEFENSE MINERALS ADMINISTRATION
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DMA Docket No. 2008

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EXPLORATION LOAN

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Routing Slip

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| To: | CODE 340 3624 ~~Ferro Alloys Br.~~ | Date | 8-27-51 |
| To | Director, Supp. Division | Date | 10/5/51 |
| To | Reports and Records | Date | OCT 11 1951 |
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## CONTROLLED DOCUMENT

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SURNAME:

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

OCT 12 1951

Transcript

Q. E. C.

Wasatch Mining & Development Co.
c/o Mr. Charles Ransom
516 South State
Preston, Idaho

In reply please refer to
DMA-2008

Dear Mr. Ransom:

Your application for an exploration loan of $20,000 has been reviewed by the Defense Minerals Administration. Our field examination of your property shows that the deposit is composed of small erratic lenses as vein or fissure filling.

Therefore, it is our opinion that there is little chance of finding a deposit of commercial quantity. We regret that we must deny your application.

Very truly yours,

Tom Lyon

~~A. B. Parsons~~
~~Acting~~ Director, Supply Division

J 7/10/11

CHJacoby:Il 10/5/51
CC: DMA Docket File
Adm. Reading File
Mr. Holderer
Field Team, Region II

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

340

OCT 11 1951

Memorandum

To: Reports and Records Unit

Through: Director, Supply Division

From: Chief, Ferro-Alloys Branch

Subject: Wasatch Mining & Development Co.
c/o Mr. Charles Ransom
516 South State
Preston, Idaho
DMA-2008, Manganese

Property: Worm Creek Manganese prospect
Bear Lake County, Idaho

Conclusions:

The applicant proposes the expenditure of $20,000 to explore his manganese prospect. Manganese mineralization extends in an east-west direction for about 2,500 feet. A number of test pits and several bulldozer trenches have been dug. The manganese is in vein or fissure filling. This has resulted in the formation of a number of small pockets which have no continuity. Bulldozed trenches show only minor erratic mineralization.

The field team examined the property and recommended that the exploration program be cut to six diamond drill holes. It is the opinion of the Ferro-Alloys Branch that core drilling a deposit of this nature would be of little or no value. Chance of intersecting a sizeable vein are poor and core recovery would be bad. Mr. Weissenborn does not feel any exploration is justified.

Recommendation:

The application is denied.

George B. Holderer
Chief, Ferro-Alloys Branch

Attachments
Approved:

Director, Supply Division

FILE COPY
SURNAME:
340
Holderer
Jacoby

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

Oct 11 1951

a E e -

Memorandum

To: Reports and Records Unit

Through: Director, Supply Division

From: Chief, Ferro-Alloys Branch

Subject: Wasatch Mining & Development Co.
c/o Mr. Charles Ransom
516 South State
Preston, Idaho
DMA-2008, Manganese

Property: Worm Creek Manganese prospect
Bear Lake County, Idaho

Conclusions:

The applicant proposes the expenditure of $20,000 to explore his manganese prospect. Manganese mineralization extends in an east-west direction for about 2,500 feet. A number of test pits and several bulldozer trenches have been dug. The manganese is in vein or fissure filling. This has resulted in the formation of a number of small pockets which have no continuity. Bulldozed trenches show only minor erratic mineralization.

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CHJacoby:ll 10/5/51
CC: DMA Docket File
Adm. Reading File
Mr. Holderer
Field Team, Region II

Recommendation:

The application is denied.

George B. Holderer

George B. Holderer
Chief, Ferro-Alloys Branch

Approved: Tom Lyon

Director, Supply Division

Not stripped
R+R

DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D.C.
OCT 8 9 02 AM '51

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

So. 157 Howard Street
Spokane 4, Washington

240

October 4, 1951

Mr. Tom Lyon
Chairman, Coordinating Committee
Defense Minerals Administration
Washington 25, D. C.

Subject: DMA-2008, Manganese

Dear Mr. Lyon:

Concerning your letter of September 26 regarding the subject manganese property, I wish to advise that a Field Team report on this property was prepared and quite possibly passed your letter in the mail.

The Field Team recommended denial of the application on the basis of existing geologic data. If the applicant could furnish stronger evidence of the existence of minable deposits of manganese and limestone country rock, reconsideration of the application might be effected. There is, however, little chance of the applicant furnishing such information.

Sincerely yours,

M. E. Volin
Acting Executive Officer, DMA
Field Team, Region II

FILE COPY
SURNAME:

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

Q. E. C
Holderer
Jacoby
Crittenden
Thayer
Lyon

SEP 26 1951

Wasatch Mining & Development Co.
c/o Mr. Charles Ransom
516 South State
Preston, Idaho

In reply please refer to
DMA-2008

Dear Mr. Ransom:

Your application for an exploration loan has been referred to the field for further study. We suggest that you contact Mr. A. E. Weissenborn, South 157 Howard Street, Spokane, Washington, and offer him whatever assistance he may require.

Very truly yours,

SIGNED BJ 9-26

Tom Lyon, Director
Supply Division

CHJacoby:ll 9/20/51
CC: DMA Docket File
Mr. Holderer
Adm. Reading File
Field Team, Region II

340
FILE COPY
SURNAME:

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

Holdeen
Gandy
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Nelsen

Air Mail

SEP 26 1951

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

Subject: DMA-2008, Manganese

Dear Mr. Weissenborn:

We are enclosing Docket #2008 for a field examination. A number of the questions need additional information and data.

Question #8 asks for a current financial statement. This is not given. They say 299,480 shares of stock were sold and the proceeds have gone into mining operations. How much cash was realized from the sale of stock and what happened to the cash? A list of company assets is also required.

Question #18 has no answer.

Question #21 should have a diagrammatic sketch and cross section showing the location and extent of proposed explorations. The answer given by the applicant is considered inadequate.

Question 23 lists a powderman at $2.00 per hour for six months with three laborers and a jackhammer man. One jackhammerman cannot keep a powderman busy. The applicant proposes to pay the powderman more than the general superintendent. Also, they are planning to pay the bookkeeper $200.00 per month. Receipts and vouchers could be audited once a month for $20.00. We would like an opinion on the competency of the applicant.

Question #23 is answered by the applicant's saying they are going to build a bunkhouse. Is it possible for the men to stay in Paris or Montpelier? This would eliminate a portion of the requested $2,400 allowing for office construction.

The applicant has not submitted a geological map nor enough information to base a judgment as to the merits of the property.

Therefore, a field examination is requested.

Very truly yours,

Tom Lyon

Tom Lyon, Chairman
Coordinating Committee

Enclosure

Approved:

BJ
9/26

Lowell B. Moon
Bureau of Mines

J Hayes
Geological Survey

CHJacoby:ll 9/21/51

CC: DMA Docket File
Adm. Reading File
Mr. Holderer
Mr. Melcher
Mr. Crittenden

SEP 26 1951

Wasatch Mining & Development Co.
c/o Mr. Charles Ransom
516 South State
Preston, Idaho

In reply please refer to
DMA-2008

Dear Mr. Ransom:

Your application for an exploration loan has been referred to the field for further study. We suggest that you contact Mr. A. E. Weissenborn, South 157 Howard Street, Spokane, Washington, and offer him whatever assistance he may require.

Very truly yours,

SIGNED

Tom Lyon, Director
Supply Division

CHJacoby:ll 9/20/51
CC: DMA Docket File
Mr. Holderer
Adm. Reading File
Field Team, Region II

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

OCT 1 1951
Recd by
Mr. Gardener

September 24, 1951

OFFICIAL FILE COPY

| To | Init. | Date |
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| 240 | G.S.C | 10-1-51 |
| | | |
| 210 | | |

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D. C.
OCT 1 8 40 AM '51

Memorandum

To: Tom Lyon, Chairman
Coordinating Committee

From: Field Team, Region II

Subject: Wasatch Mining and Development Company
Worm Creek Manganese Prospect
Bear Lake County, Idaho
Docket DMA 2008

Enclosed is a memorandum from Fred S. Honkala, U.S.G.S., concerning the subject docket. The Field Team agrees with Honkala's conclusion that no DMA exploration should be done in the conglomerate. The basis of the conclusion is that the manganese occurs as pockets in the conglomerate. It is probable that some manganese ore could be mined from these pockets, but they would be opened up with a bulldozer and mining and exploration would be essentially the same things.

The Field Team, however, does not support Honkala's recommendation for even the limited amount of drilling in the underlying limestone, which he suggests. Some information of geologic value might be obtained, but the Field Team regards the target as too vague and the possibility of finding deposits of manganese of suitable grade as too remote to justify a DMA exploration contract. The Field Team, therefore, recommends denial of the application unless the applicant can furnish stronger evidence of the existance of minable deposits in the limestone.

The docket material has not been returned from the field. This has been requested and will be forwarded to you as soon as received.

Field Team, Region II

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

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

Enclosure

Report and Recommendations based on Geologic Investigation of the Worm Creek Manganese Prospect near Bloomington, Idaho

Fred S. Honkala
U.S. Geological Survey

## General

The Worm Creek manganese prospect is located on Worm Creek in section 5, T. 15 S., R. 43 E., in the Cache National Forest, about 4 miles southwest of Bloomington, in Bear Lake County, Idaho. The prospect is owned by a corporation, the Wasatch Mining and Development Co. of 516 South State Street, Preston, Idaho. The officers of the corporation include George Ransom, Route 1, Boise, Idaho, president; Charles Ransom, Route 2, Preston, Idaho, vice-president; and Heber Ransom, 516 South State Street, Preston, Idaho, secretary-treasurer.

The corporation proposes to spend $20,000 in exploration and development of their manganese prospect of which they ask the Government to furnish 75 percent, under the provisions of the DMA act as provided in Department of the Interior MO-5 (amended), sec. 8a.

Their property was investigated by F. S. Honkala of the U. S. Geological Survey, accompanied by Mr. Charles Ransom and Mr. Heber Ransom. It is in an area near some copper and lead mineralization in which some mining operations have been carried on in the past. Adjoining the manganese claims on the west are the Clark Sunset claims on which is a supposedly valuable lead mine, not being operated because of lack of finnances on the part of the

owners. Mansfield [1] briefly describes lead and copper prospects and mines and manganese prospects along or near "a mineralized belt in Cambrian rocks" on the east side of the Bear River (or Wasatch) Range.

## Geology

Formations exposed at or near the prospect include the Brigham quartzite of Lower Cambrian age, the Langston limestone and Ute limestone of Middle Cambrian age, and the Wasatch formation of Eocene age or the Salt Lake formation of late Tertiary (?) age. The rocks here called the Wasatch formation may be the same as the rocks termed Salt Lake formation in the Berrett and Ricks [2] report, but because Mansfield [3] terms them Wasatch and describes manganese in them, the term Wasatch will be applied here also.

The prospect is structurally located on the overriding plate of the Bannock overthrust. The trace of the fault has an average north-south trend and roughly parallels the strike of the formations and of the mineralized zone. The fault zone is about 2 miles east of the mineralized zone and according to Mansfield [4]

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1 Mansfield, G. R., Geography, Geology, and Mineral Resources of a part of Southeastern Idaho. U. S. Geol. Survey Prof. Paper 152, 1927, 453 pp., see pages 342-349.

2 Honkala, F. S., Report and Recommendations based on Geologic Investigations of a Lead-Copper Prospect near Paris, Idaho. DMA report, 1951, 9 pp.

3 Mansfield, G. R., Op. Cit., See p. 154

4 Mansfield, G. R., Op. Cit., See p. 349.

the fault plane dips 23° to the west. The strata near the prospect dip from 15° to 25° slightly south of west. Mansfield[5] has prepared east-west cross sections across the region, one section being 3 miles north of Worm Creek and the other 1.5 miles south of it.

The minerals of economic interest in the Worm Creek prospect include pyrolusite, psilomelane, and probably manganite. Copper stains were found in quartzite bedrock in one place.

The manganese mineralization seems to be localized on the pedimentary tops of the east-west ridges that form the north and south sides of Worm Creek Valley. Prospect pits showing manganese minerals extend for about 2,500 feet along the ridge south of the creek, and for about 1,500 feet along the ridge north of the creek. The owners have dug approximately 20 prospect pits and 5 dozer trenches. Most of the pits have exposed irregular shaped pockets of manganese minerals ranging in size from 1 to 5 cubic yards. The pockets have been completely delineated in some pits, but other pockets are only partly uncovered. Because the pits were located on surface showings of manganese they expose more manganese than the dozer trenches which are larger and less selective, and seem to present a truer picture. The mineral pockets are in or on the Wasatch conglomerate. Several pits were also dug in bedrock and manganese mineralization was found in veins and fissures in Cambrian limestone.

The following includes some of the observations made in examination of the pits and trenches. (Refer to index map of claims.)

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[5] Mansfield, G. R., Op. Cit., See sections Y-Y', Z-Z', plate 12.

In pit 1, claim 10, hard psilomelane (?) was the cement of a reddish-tinged conglomerate. In pit 2, claim 12, psilomelane also cemented the conglomerate, but in addition, there was some interbedded, soft calcareous material containing irregularly shaped sand grains. This material was probably of marl, chara, or hot spring origin. In pit 3, claim 2, bedrock is exposed, probably the Langston limestone. Some of the manganese mineral in this pit is in vein and fissure fillings, but other small pods of mineral seem not to be connected to any veins. Some of the veins extend below the bottom of the pit. Trench 4, in claim 1, exposes conglomerate partly cemented by psilomelane. The cemented area has a rough channel shape in cross section. Trench 5, claim 1, reaches bedrock and exposes a zone of psilomelane several inches thick and about a foot below the ground surface. Pit 6, claim 4, is in a vein with some manganese mineralization, some iron oxides, and calcite. The vein cuts vertically through a cliff of the Brigham quartzite (?). Nearby is a little copper (chalcopyrite (?) altered to malachite) mineralization in the quartzite. In pit 7, claim 4, the manganese is in the conglomerate. The manganese minerals are roughly bedded. The several prospect pits on the north ridge top seem to be controlled by the presence of the conglomerate which is present only in patches. Pit 8 was examined on the Sunset Claim 10 property. About 10 tons of pyrolusite and psilomelane had been dug from a pocket in the limestone. Nearby in the limestone was considerable brownish-red carbonate with rhombohedral cleavage and tentatively identified as rhodochrosite.

The following origin is suggested for the Worm Creek manganese prospect. Secondary minerals such as pyrolusite, psilomelane, calcite, hematite, and limonite are present in the deposit. Primary minerals such as manganite and rhodochrosite may be present. The manganese minerals occur as irregular pockets and as cement in the Wasatch conglomerate. Some veins and fissure fillings are found in Cambrian limestones. Finally, it has been pointed out that west of the prospect is a north-south mineralized trend in which are lead and copper mines and prospects. The manganese occurrences seem to parallel the lead and copper deposits. Mansfield [6] reports a manganiferous pocket in the Wasatch formation 2 miles northeast of the Worm Creek deposit, as well as some occurrences in Paris Canyon and near Bern, Idaho, further to the north.

It is believed that the source of the manganese is the mineralized zone that also contains the lead and copper. Notably in pit 3, claim 2, there is some well-developed box-work in the limestone, indicating solution of certain minerals. The original manganese minerals may have been manganite and rhodochrosite. Since the manganese minerals overlie the conglomerate, cement the conglomerate, or are overlain by the conglomerate, deposition of the manganese minerals was contemporaneous with the conglomerate. The conglomerate, as it was deposited in an intermontane valley periodically disrupted drainage creating small undrained areas into which the colloidal manganese settled. The bulk of the manganese would be

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6 Mansfield, G. R., Op. Cit., See p. 349.

deposited fairly near its source, and the deposits would roughly parallel the source. Later on the areas was uplifted and the slopes of the new highlands were leveled to a pediment, in which the Wasatch or the Cambrian rocks may form the surface. This is because the base of the Wasatch formation is not plane, but most likely quite irregular. The veins and fissures in the Cambrian rocks may have been filled by deposition from downward percolating waters during leaching and erosion of the overlying Wasatch formation. Some of the veins may also be primary. Not enough of the veins was exposed to be able to tell.

The following conclusions can be made about the Worm Creek manganese prospect. From all that has been uncovered on the claims, as well as in the nearby mines and prospects, the supply of minerals of economic interest seems small. There is little in the past development of the area to raise hopes for future profits. The claims have been selectively prospected on the basis of surface showings. Many of the resulting prospect holes have uncovered small pockets containing only a few tons of manganese minerals. These pockets are in the conglomerate and the conglomerate does not crop out continuously. The dozer trenches which have exposed larger areas show relatively smaller amounts of manganese. On the other hand, the veins in the limestone may be primary and may extend to considerable depth. Prospecting of the bedrock under the conglomerate may prove worthwhile. The source of the manganese may be the same mineralized zone in which the copper and lead occur. This would enlarge the size of the regional

mineralized zone, and may allow the establishment of mineral zoning in the region. The surficial and unscientific prospecting of the regional mineralized zone would seem to warrant a more detailed study and exploration, because if any ore body be discovered at depth it may be a large one.

The following recommendations can be made about the Worm Creek manganese deposit. If the owners wish to try mining the conglomerate for its pockets of manganese it can best be done by stripping by a bulldozer and hand picking the ore into a truck. The only recommendation that will be made herein is for exploration of the limestone outcrops to determine the extent and size of the veins and to look for possible replacement ore bodies of other minerals. About 6 diamond drill holes would be sufficient and may give some valuable information not only about manganese, but also lead, and this could be tied in with information from the Berrett and Ricks drilling. It is suggested that 3 holes be evenly spaced in claims 1 and 2, and 1 each in claims 4, 6, and 12.

## Conclusions in relation to DMA Program

The Worm Creek prospect is pertinent to the commodity program insofar as manganese is one of the elements included in the program. It may also be one of the clues needed to unravel the nature and extent of the widespread mineralization in the Bear River Range.

If a core drilling program is mapped out for the Worm Creek program, one of the problems would be to get the drill rig to the

prospect. Some bulldozing would be needed but more careful reconnaissance of the area may reveal a passable route up either of the ridges that parallel Worm Creek. Passable, but rough, roads xtend up the valley but the problem is to get up onto the ridge. A drill rig would be available in Pocatello, Idaho, or Salt Lake City, Utah. Worm Creek can supply all the water needed for drilling and mining. The general elevation of the ridge tops is 6,700 feet, the ridge sides are moderately forested and moderately steep.

The owners seem to have had some experience in mining and prospecting. They have requested $20,000 to aid them in developing their property. In view of the geologic conditions this amount is too high. If the above recommendation is approved for the reason stated above, that is, mainly to aid in getting a regional picture, then it is recommended that the estimated cost be $5,000, of which the Government would furnish $3,750.

Mining methods have already been mentioned if the owners wish to try mining the conglomerate. If ore is found in the limestone, mining would have to be underground. The methods used would in large part be determined by the shape and nature of the ore body. The hillside location and the average 20° westward dip would suggest adit, with the ore being stoped down dip into the adits.

No new equipment or facilities are needed for the proposed phase of exploration. A drill rig would, of course, be hired for the holes, and some bulldozer assistance will be needed in getting the

drill rig to the hole location, but no extensive road building seems necessary. Tents would serve as living quarters during that time.

It is believed that the corporation has the money to provide security for a loan and that they are acquainted with the provisions for repayment of the loan they seek. The Ransoms seemed to be responsible men and it is believed that they will carry out their share of any agreement they may make with the Government.

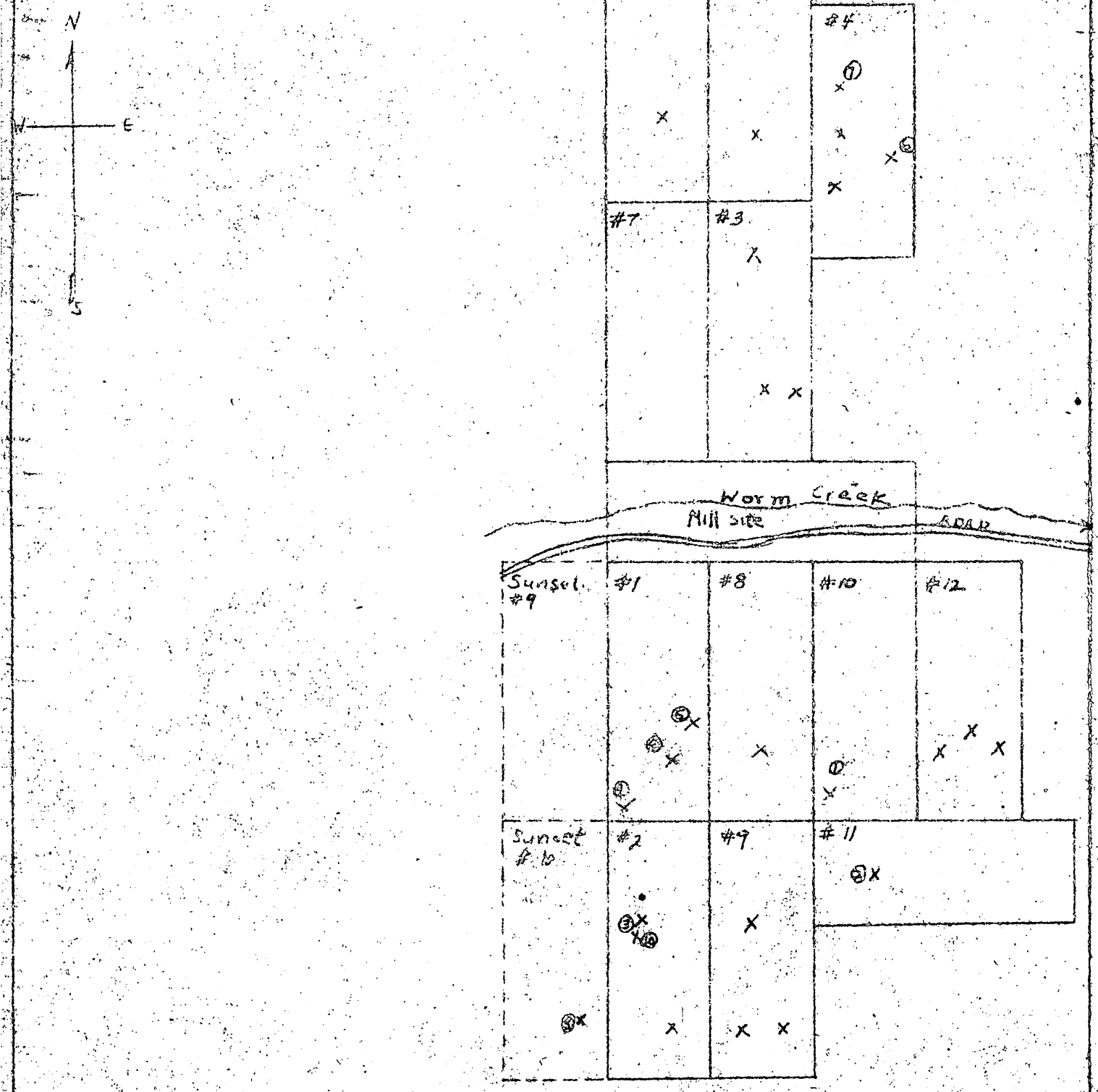
Description of Samples taken from
Worm Creek Manganese Prospect

All bags labelled on outside accordingly; # 1 W.C., #2 W.C., etc., from 1 to 8. Labels are also enclosed in bags.

1. Hard psilomelane from pit 1, claim 10. Note cement in conglomerate.
2. Soft calcareous rock interbedded with conglomerate and manganiferous rock from pit 2, claim 11.
3. Manganese mineral in limestone country rock. Also some manganese mineral with considerable iron. Also some rhodochrosite? Pit 3, claim 2.
4. Section of vein with psilomelane and rhodochrosite (?). Pit 10, claim 2.
5. Rhodochrosite ? in Cambrian limestone near pit 8, Sunset claim 10.
6. Calcite from vein in pit 9, claim 1.
7. Conglomerate cemented by psilomelane just below pit 4 (dozer trench), claim 1.
8. Conglomerate, pit 7, claim 4.

Wasatch Mining & Development Co.
Preston, Idaho

28 July 1950
Scale ¼" = 200'
⊙X = Manganese showings with numbers as described in report.



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

So. 157 Howard Street
Spokane 4, Washington

September 24, 1951

Memorandum

To: Tom Lyon, Chairman
Coordinating Committee

From: Field Team, Region II

Subject: Wasatch Mining and Development Company
Worm Creek Manganese Prospect
Bear Lake County, Idaho
Docket DMA _____

Enclosed is a memorandum from Fred S. Honkala, U.S.G.S., concerning the subject docket. The Field Team agrees with Honkala's conclusion that no DMA exploration should be done in the conglomerate. The basis of the conclusion is that the manganese occurs as pockets in the conglomerate. It is probable that some manganese ore could be mined from these pockets, but they would be opened up with a bulldozer and mining and exploration would be essentially the same things.

The Field Team, however, does not support Honkala's recommendation for even the limited amount of drilling in the underlying limestone, which he suggests. Some information of geologic value might be obtained, but the Field Team regards the target as too vague and the possibility of finding deposits of manganese of suitable grade as too remote to justify a DMA exploration contract. The Field Team, therefore, recommends denial of the application unless the applicant can furnish stronger evidence of the existance of minable deposits in the limestone.

The docket material has not been returned from the field. This has been requested and will be forwarded to you as soon as received.

Field Team, Region II

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

. S. Yolin, Member
(U.S. Bureau of Mines)

Enclosure

Report and Recommendations based on Geologic Investigation of the Worm Creek Manganese Prospect near Bloomington, Idaho

Fred S. Honkala
U.S. Geological Survey

## General

The Worm Creek manganese prospect is located on Worm Creek in section 5, T. 15 S., R. 43 E., in the Cache National Forest, about 4 miles southwest of Bloomington, in Bear Lake County, Idaho. The prospect is owned by a corporation, the Wasatch Mining and Development Co. of 516 South State Street, Preston, Idaho. The officers of the corporation include George Ransom, Route 1, Paris, Idaho, president; Charles Ransom, Route 2, Preston, Idaho, vice-president; and Heber Ransom, 516 South State Street, Preston, Idaho, secretary-treasurer.

The corporation proposes to spend $20,000 in exploration and development of their manganese prospect of which they ask the Government to furnish 75 percent, under the provisions of the DMA act as provided in Department of the Interior 10-5 (amended), sec. 7a.

Their property was investigated by F. S. Honkala of the U. S. Geological Survey, accompanied by Mr. Charles Ransom and Mr. Heber Ransom. It is in an area near some copper and lead mineralization in which some mining operations have been carried on in the past. Adjoining the manganese claims on the west are the Clark Sunset claims on which is a supposedly valuable lead mine, not being operated because of lack of finances on the part of the

owners. Mansfield [1] briefly describes lead and copper prospects and mines and manganese prospects along or near "a mineralized belt in Cambrian rocks" on the east side of the Bear River (or Wasatch) Range.

## Geology

Formations exposed at or near the prospect include the Brigham quartzite of Lower Cambrian age, the Langston limestone and Ute limestone of Middle Cambrian age, and the Wasatch formation of Eocene age or the Salt Lake formation of late Tertiary (?) age. The rocks here called the Wasatch formation may be the same as the rocks termed Salt Lake formation in the Herrett and Hicks [2] report, but because Mansfield [3] terms them Wasatch and describes manganese in them, the term Wasatch will be applied here also.

The prospect is structurally located on the overriding plate of the Bannock overthrust. The trace of the fault has an average north-south trend and roughly parallels the strike of the formations and of the mineralized zone. The fault zone is about 2 miles east of the mineralized zone and according to Mansfield [4]

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2 Honkala, F. S., Report and Recommendations based on Geologic Investigations of a Lead-Copper Prospect near Paris, Idaho. MRA report, 1951, 9 pp.

3 Mansfield, G. R., Op. Cit., See p. 154

4 Mansfield, G. R., Op. Cit., See p. 349.

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The minerals of economic interest in the Corn Creek prospect include pyrolusite, psilomelane, and probably manganite. Copper stains were found in quartzite bedrock in one place.

The manganese mineralization seems to be localized in the pediment-like tops of the east-west ridges that form the north and south sides of Corn Creek Valley. Prospect pits showing manganese minerals extend for about 2,500 feet along the ridge south of the creek, and for about 1,500 feet along the ridge north of the creek. The owners have dug approximately 20 prospect pits and 5 dozer trenches. Most of the pits have exposed irregular shaped pockets of manganese minerals ranging in size from 1 to 5 cubic yards. The pockets have been completely delineated in some pits, but other pockets are only partly uncovered. Because the pits were located on surface showings of manganese they expose more manganese than the dozer trenches which are larger and less selective, and seem to present a truer picture. The mineral pockets are in or on the Santa Catalina conglomerate. Several pits were also dug in bedrock and manganese mineralization was found in veins and fissures in Precambrian limestone.

The following includes some of the observations made in examination of the pits and trenches. (Refer to index map of claims.)

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[2] Mansfield, G. R., Op. Cit., See sections X-X', Z-Z', plate 12.

In pit 1, claim 10, hard psilomelane (?) was the cement of a reddish-tinged conglomerate. In pit 2, claim 12, psilomelane also cemented the conglomerate, but in addition, there was some interbedded, soft calcareous material containing irregularly shaped sand grains. This material was probably of marl, chara, or hot spring origin. In pit 3, claim 2, bedrock is exposed, probably the Langston limestone. Some of the manganese mineral in this pit is in vein and fissure fillings, but other small pods of mineral seem not to be connected to any veins. Some of the veins extend below the bottom of the pit. Trench 4, in claim 1, exposes conglomerate partly cemented by psilomelane. The cemented area has a rough channel shape in cross section. Trench 5, claim 1, reaches bedrock and exposes a zone of psilomelane several inches thick and about a foot below the ground surface. Pit 6, claim 4, is in a vein with some manganese mineralization, some iron oxides, and calcite. The vein cuts vertically through a cliff of the Pigham quartzite (?). Nearby is a little copper (chalcopyrite (?) altered to malachite) mineralization in the quartzite. In pit 7, claim 4, the manganese is in the conglomerate. The manganese minerals are roughly bedded. The several prospect pits on the north ridge top seem to be controlled by the presence of the conglomerate which is present only in patches. Pit 8 was examined on the Sunset Claim 10 property. About 10 tons of pyrolusite and psilomelane had been dug from a pocket in the limestone. Nearby in the limestone was considerable brownish-red carbonate with rhombohedral cleavage and tentatively identified as rhodochrosite.

The following origin is suggested for the Worm Creek manganese prospect. Secondary minerals such as pyrolusite, psilomelane, calcite, hematite, and limonite are present in the deposit. Primary minerals such as manganite and rhodochrosite may be present. The manganese minerals occur as irregular pockets and as cement in the Wasatch conglomerate. Some veins and fissure fillings are found in Cambrian limestones. Finally, it has been pointed out that west of the prospect is a north-south mineralized trend in which are lead and copper mines and prospects. The manganese occurrences seem to parallel the lead and copper deposits. Mansfield [6] reports a manganiferous pocket in the Wasatch formation 2 miles northeast of the Worm Creek deposit, as well as some occurrences in Paris Canyon and near Bern, Idaho, further to the north.

It is believed that the source of the manganese is the mineralized zone that also contains the lead and copper. Notably in pit 3, claim 2, there is some well-developed box-work in the limestone, indicating solution of certain minerals. The original manganese minerals may have been manganite and rhodochrosite. Since the manganese minerals overlie the conglomerate, cement the conglomerate, or are overlain by the conglomerate, deposition of the manganese minerals was contemporaneous with the conglomerate. The conglomerate, as it was deposited in an intermontane valley periodically disrupted drainage creating small undrained areas into which the colloidal manganese settled. The bulk of the manganese would be

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6 Mansfield, G. R., Op. Cit., See p. 349.

deposited fairly near its source, and the deposits would roughly parallel the source. Later on the areas was uplifted and the slopes of the new highlands were leveled to a pediment, in which the Wasatch or the Cambrian rocks may form the surface. This is because the base of the Wasatch formation is not plane, but most likely quite irregular. The veins and fissures in the Cambrian rocks may have been filled by deposition from downward percolating waters during leaching and erosion of the overlying Wasatch formation. Some of the veins may also be primary. Not enough of the veins was exposed to be able to tell.

The following conclusions can be made about the Horn Creek manganese prospect. From all that has been uncovered on the claims, as well as in the nearby mines and prospects, the supply of minerals of economic interest seems small. There is little in the past development of the area to raise hopes for future profits. The claims have been selectively prospected on the basis of surface showings. Many of the resulting prospect holes have uncovered small pockets containing only a few tons of manganese minerals. These pockets are in the conglomerate and the conglomerate does not crop out continuously. The dozer trenches which have exposed larger areas show relatively smaller amounts of manganese. On the other hand, the veins in the limestone may be primary and may extend to considerable depth. Prospecting of the bedrock under the conglomerate may prove worthwhile. The source of the manganese may be the same mineralized zone in which the copper and lead occur. This would enlarge the size of the regional

mineralized zone, and may allow the establishment of mineral zoning in the region. The surficial and unsatisfactory prospecting of the regional mineralized zone would seem to warrant a more detailed study and exploration, because if any one body be discovered at depth it may be a large one.

The following recommendations can be made about the Dorn Creek manganese deposit. If the owners wish to try mining the supplements for the pockets of manganese it can best be done by stripping by a bulldozer and hand picking the ore into a truck. The only recommendation that will be made herein is for exploration of the limestone outcrops to determine the extent and size of the veins and to look for possible replacement ore bodies of other minerals. About 6 diamond drill holes would be sufficient and may give some valuable information not only about manganese, but also lead, and this could be tied in with information from the Barrett and Ridge drilling. It is suggested that 3 holes be evenly spaced in claims 1 and 2, and 1 each in claims 4, 6, and 12.

Conclusions in relation to TVA Program

The Dorn Creek prospect is pertinent to the commodity program insofar as manganese is one of the elements included in the program. It may also be one of the clues needed to unravel the nature and extent of the widespread mineralization in the Bear River Range.

If a core drilling program is mapped out for the Dorn Creek prospect, one of the problems would be to get the drill rig to the

prospect. Some bulldozing would be needed but more careful reconnaissance of the area may reveal a passable route up either of the ridges that parallel Worm Creek. Passable, but rough, roads xtend up the valley but the problem is to get up onto the ridge. A drill rig would be available in Pocatello, Idaho, or Salt Lake City, Utah. Worm Creek can supply all the water needed for drilling and mining. The general elevation of the ridge tops is 6,700 feet, the ridge sides are moderately forested and moderately steep.

The owners seem to have had some experience in mining and prospecting. They have requested $20,000 to aid them in developing their property. In view of the geologic conditions this amount is too high. If the above recommendation is approved for the reason stated above, that is, mainly to aid in getting a regional picture, then it is recommended that the estimated cost be $5,000, of which the Government would furnish $3,750.

Mining methods have already been mentioned if the owners wish to try mining the conglomerate. If ore is found in the limestone, mining would have to be underground. The methods used would in large part be determined by the shape and nature of the ore body. The hillside location and the average 20° westward dip would suggest adit, with the ore being stoped down dip into the adits.

No new equipment or facilities are needed for the proposed phase of exploration. A drill rig would, of course, be hired for the holes, and some bulldozer assistance will be needed in getting the

drill rig to the hole location, but no extensive road building seems necessary. Tents would serve as living quarters during that time.

It is believed that the corporation has the money to provide security for a loan and that they are acquainted with the provisions for repayment of the loan they seek. The Hansons seemed to be responsible men and it is believed that they will carry out their share of any agreement they may make with the Government.

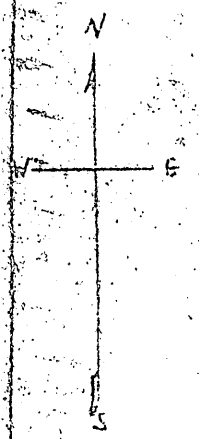
Description of Samples taken from
Worm Creek Manganese Prospect

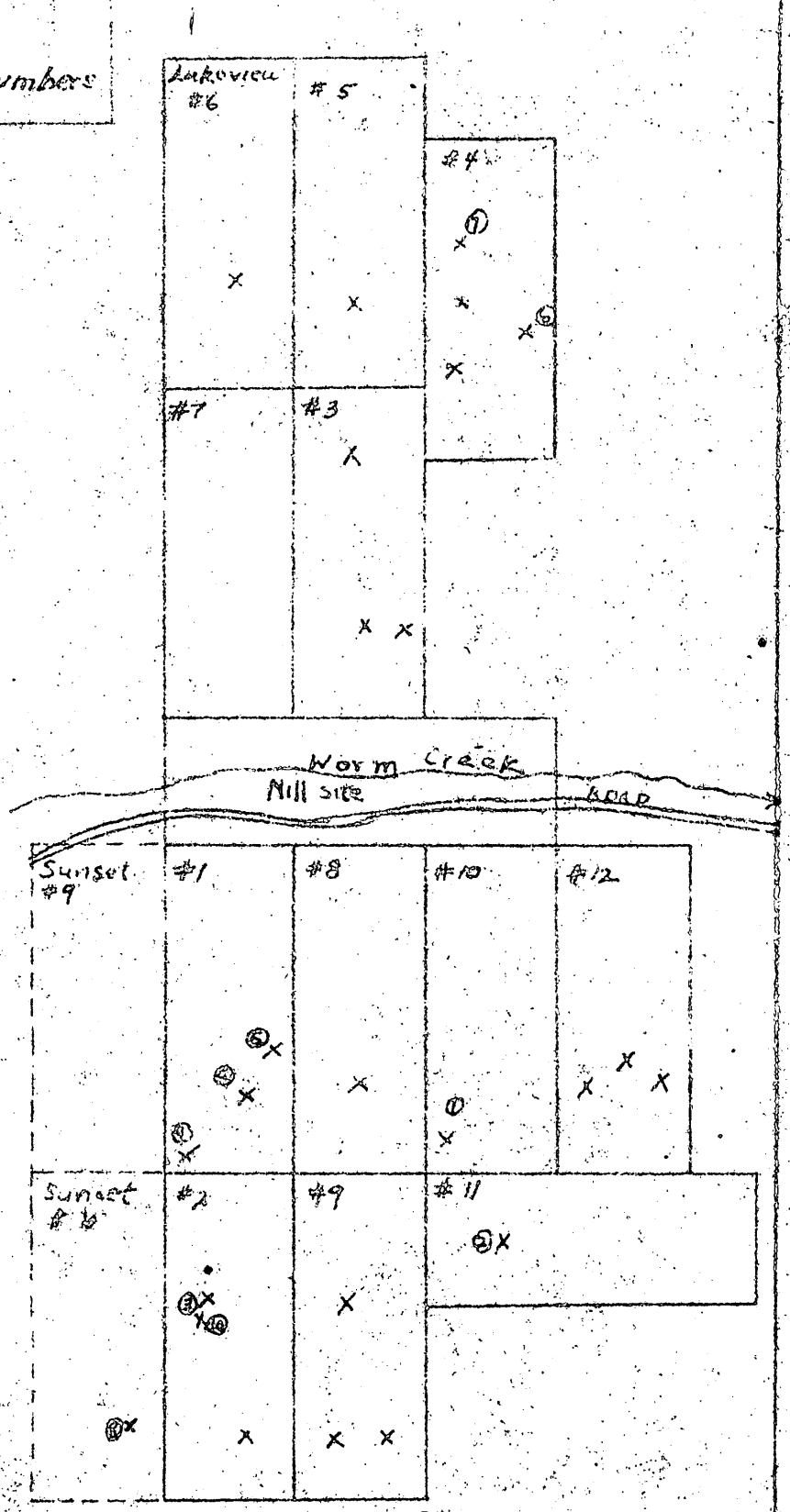
All bags labelled on outside accordingly; # 1 M.C., #2 M.C., etc., from 1 to [illegible]. Labels are also enclosed in bags.

1. Hard psilomelane from pit 1, claim 10. Note cement in conglomerate.
2. Soft calcareous rock interbedded with conglomerate and manganiferous rock from pit 2, claim 11.
3. Manganese mineral in limestone country rock. Also some manganese mineral with considerable iron. Also some rhodochrosite? Pit 3, claim 2.
4. Section of vein with psilomelane and rhodochrosite (?). Pit 16, claim 2.
5. Rhodochrosite ? in Cambrian limestone near pit [illegible], Sunset claim 10.
6. Calcite from vein in pit 9, claim 1.
7. Conglomerate cemented by psilomelane just below pit 4 (dozer trench), claim 1.
8. Conglomerate, pit 7, claim 4.

Wasatch Mining & Development Co.
Preston, Idaho

28 July 1950
Scale ¼" = 200'
⊙X = Manganese showings with numbers as described in report.



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

September 26, 1951

OCT 1 1951
Recd by
Mr. Fredericks

OFFICIAL FILE COPY

| To | Init. | Date |
|---|---|---|
| 340 | A.E.C. | 10-1 |

Mr. Tom Lyon, Chairman
Coordinating Committee
Defense Minerals Administration
Department of the Interior
Washington 25, D. C.

Dear Mr. Lyon:

Enclosed are original applications for the following properties:

~~Berrett and Ricks prospect~~
~~Bear Lake County, Idaho~~
~~Commodity: Lead, Copper~~

Wasatch Mining and Development Company
Bear Lake County, Idaho
Commodity: Manganese

DMA - 200 to be placed in docket

Reports on these properties have been forwarded previously.

Sincerely yours,

A. E. Weissenborn KG

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

Enclosures

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 1 1951

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 1 1951

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

DO NOT FILL IN THIS BLOCK

Docket No. DMA-2008

Date received 10-1-51

Participation

Wasatch Mining & Development Co.
516 South State
Preston, Idaho

Name and address of applicant

Date July 28, 1951

FILL IN THIS BLOCK

Date of application July 28, 1951

Estimated cost $20,000.00

Mineral or metal Manganese

Percentage of Government participation 75%

Location of mine Southeastern Idaho, Bear Lake County

Date of filing MF-100

DMA Docket Number, if available

## INSTRUCTIONS

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

## THE APPLICANT

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

*2. If a partnership, state names and addresses of partners.

*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders. See Sheet #1

*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project. See Sheet #1

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

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

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

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

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement. See Sheet # 4

9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)? See Sheet #1

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

16—64067-1

## THE PROPERTY

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

(*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted. Sheet #1

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

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

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads. Sheet #1

*13. State source and quantity of water available for operations and its sufficiency at all seasons. Sheet #1
State amount of power to be used, rate per hour or other cost, and source. Sheet #2

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work. Sheet #2

15. State in detail how the ore could be shipped and how and where milled. Sheet #2

*16. History: Sheet #2

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

(*b*) State briefly the known history and production of adjoining and neighboring properties.

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

*17. Production:

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

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

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

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

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

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

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

## THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted? Sheet #2

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it. Sheet #2

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

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data. Sheet #2

## THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows: Sheet #3

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

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

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

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

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

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

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

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

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

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent. Sheet #3

## 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.

Wasatch Mining & Development Co
(Name of company)

By Charles Ransom
(Signature of authorized official)

August 16, 1951
(Date)

Vice President
(Title)

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

*Same as footnote on page 1.

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

Wasatch Mining & Development Co.
516 South State
Preston, Idaho

Sheet #1

3. Officers:

| | | |
|---|---|---|
| President | George Ransom | Rt. 1, Boise, Idaho |
| Vice President | Charles Ransom | Rt. 2, Preston, Idaho |
| Secretary-Treasurer | Heber Ransom | 516 S. State, Preston, Idaho |

Directors & Five Largest Stockholders:

| | |
|---|---|
| George Ransom | Rt. 1, Boise, Idaho |
| Charles Ransom | Rt. 2, Preston, Idaho |
| Heber Ransom | 516 S. State, Preston, Idaho |
| Leonard Eskelsen | 9345-45th S., Seattle, Washington |
| Ray Wilker | Perry, Idaho |

4. (a) Charles Ransom - Five years of general mining experience most of which was at Cleveland, Idaho in the Smith Manganese Mine. General business experience, has had several small businesses of his own.

(b) Manager of the project will be Leonard Eskelsen - Twenty years of mining experience. He has operated in coal mines and hard rock mines of several types, including manganese.

9. Applicant is prepared to invest $5,000.00 which will cover his part of the cost of the project.

10. (a) Claims - Lakeview #1, #2, #3, #4, #5, #6, #7, #8, #9, #10, #11, #12. #1 is bounded on the West by Clark Claim, Sunset #9 and #2 on the West by Clark Claim, Sunset #10, lead property not now operating.

(b) Same as (a) above.

11. Present and former name of the property same as above.

12. These claims lay south ~~east~~ west of Paris and Montpelier and ~~east~~ west of the north end of Bear Lake in Bear Lake County, Idaho. The ore can be loaded on rail cars at Montpelier. The distance on hard surface black top road from Montpelier through Paris is 13.1 miles to the county road. The county road leading to the property goes up Worm Creek a distance of 3.1 miles. The black top road is in ~~very~~ good condition but the county road up Worm Creek will require additional work to bear heavy traffic.

13. Worm Creek flows the year round except during the severest winter months and is a stream 4 feet wide and 1 foot deep with sufficient flow and head of water for any required use in developing the manganese. Unless a mill is placed on the

13. Cont'd

property for refining the manganese ore, all equipment used will have integral gasoline or diesel engines.

14. No existing facilities or equipment on the property.

15. By bulldozing a road from the present county road on Worm Creek to the north and south of the aforesaid creek the manganese can be loaded directly into trucks for transportation to the rail trans-shipment point. It is planned at this time that hand sorting would be used to obtain an ore for commercial use. If milling is necessary it could be accomplished on the mill site which lies along Worm Creek and between the north and south group of claims on this property.

16. (a) In 1927 the claims were located and exploration was carried out. This consisted of winzes up to 30 feet in depth and many open cuts. In opening one of the winzes about 100 tons of manganese ore, averaging 35% or better, was placed on the dump. No shipments were made from this property in the early days of developing. The development of the property was suspended until recently due to lack of finances for proper development work and because of the low selling price of manganese.

(b) No production of manganese on adjacent or neighboring property has been accomplished. In the past, the Clark Claims, Sunset #9 and #10, were developing and shipping lead over a period of years.

(c) Attached you will find a report by Ralph O. Smith, mining geologist, who examined this property.

20. Manganese

21. The proposed work consists of uncovering and determining the continuity of the manganese ore blanket now apparent on this property. It is also proposed to sink winzes where ore is shown going to depth and where necessary to make drifts from these winzes to determine the extent of the ore body. The uncovering of the blanket ore body will be progressive and is believed, from present exposures and cuts available there, two to five acres of this blanket could be definitely determined in 30 to 45 days of operation. The complete examination of this property will take between six to nine months.

Wasatch Mining & Development Co.
516 South State
Preston, Idaho

Sheet #3

22. A map of this country showing the location of Worm Creek and the county road is attached. The manganese float is apparent and quite consistent in it's showings on both the north and south slopes leading to Worm Creek.

23. (a)

| | | |
|---|---|---|
| 1 Powderman | @$2.00 | $2.00 |
| 3 Laborers | @ 1.60 | 4.80 |
| 1 Jackhammer | @ 1.70 | 1.70 |
| | | $8.50 per hour |

Total labor for 6 months . . . . . 8,160.00

(b) General Superintendent @ $300.00 per month
Bookkeeper @ $200.00 per month

Total supervisory for 6 months . . . . . 3,000.00

(d) Office and bunkhouse
20' x 30' - 600 sq. ft. @ $4.00 . . . . . 2,400.00

(f) Bulldozer with operator @$10.00 per hour
For 2 months . . . . . 3,200.00

Air Compressor with operator @ $4.00 per hour
For 3 months . . . . . 1,920.00

(h) Miscellaneous materials and supplies . . . . 1,000.00

(i) Cost of power, water, etc. . . . . 320.00

Total for six months period . . . . . $20,000.00

24. Time Schedule

| | |
|---|---|
| First Month<br>Bunkhouse and office constructed<br>Uncover manganese showings | 5,860.00 |
| Second Month<br>Continue uncovering manganese, drilling and blasting manganese | 4,600.00 |
| Third Month<br>Drill and blast manganese | 2,500.00 |
| Fourth Month<br>Drill and blast manganese | 2,500.00 |
| Fifth Month<br>Handwork on uncovering manganese | 2,360.00 |
| Sixth Month<br>Handwork on uncovering manganese | 2,180.00 |
| | $20,000.00 |

# FINANCIAL REPORT OF
# WASATCH MINING & DEVELOPMENT CO.

The sole assets of this company consist of the mining properties. 299,480 shares of stock are outstanding and the proceeds of this stock have gone into the mining operations. The properties have never been appraised. We refer you to the other documents to which this report is appended, and particularly to the geologist's report as to the amount of ore available, etc.

There are no liabilities of the company at the present time.

No ore has been shipped and hence there have been no profits. And there are no losses to report.

This company is engaged in developing its claims and the labor which has gone into the project thus far has been furnished by the stockholders of the company.

Wasatch Mining & Development Co.
516 South State
Preston, Idaho

## WORM CREEK DEPOSIT MANGANESE

Consisting of 10 Mineral Claims

This area is located about 6 miles from the northerly end of Bear Lake, at an elevation of 6,500 feet. Access is by county road to about 2 miles from property and a private ungraded road to property. Brush and small trees cover most of the area on slopes with the rolling ridges quite clear of everything but sage brush.

The best deposit lies about 500 feet elevation above Worm Creek and about 1,500 feet by slope.

Known mineralized area is 250 feet wide and 1,000 feet long.

The deposit lies as a fairly continuous blanket type formation from a few inches to about 2½ feet below the surface. The ore is hard black Manganite and Pyrolusite in rough sleggy forms and masses up to several tons in some instances. The country rock is largely Quartzite and Limestone, the ore in some places penetrates to considerable depth into the fissures present. In general the ore is about 2½ feet thick and is loosely consolidated with about 15% gangue of Limestone. Some Silica is present. Ore should be handpicked for the most part as mined, before shipment.

Several open cuts and 2 winzes show ore of fair grade. The open cuts are nearly filled in by rock and dirt but the ore in the blanket formation is visible in most places.

There is not sufficient development work done to prove a continuous ore body but indications are such as to warrant the belief that considerable tonnage is available.

Open cuts should be cleaned out and about 10 or 12 more put in. The winze at highest elevation should be sunk at least 30 feet more as ore is reported continuously to bottom.

Similar conditions prevail North across Worm Creek over an area of about 10 acres.

A heavy tractor, bulldozer equipped; air compressor; and jack hammer are necessary for further development of mine and roads.

Should the ore blanket prove consistent over the area covered, about 200 carloads of ore would be available with small capital outlay, roughly $5,000.00 for labor and materials above cost of equipment.

ABSTRACT

A Manganes Deposit of Pleistocene Age in Bannock County, Idaho

D. F. Hewett

U. S. G. S. Bulletin 795
1926

Location: West slope of ridege east of Bear River, about 1 mile southeast of Clevelnad, Bannock County, Idaho. E ½ Sec. 31, T.11S., R. 40 E.

Managanese Deposits:

Located 100 to 150 feet below surface of 5,526 foot terrace in southern part of Genitle Valley, in horizontally-bedded fine sediments.

The workings include three tunnels:

Top Tunnel: Elevation 5,440 feet. 2-3 foot thick zone of impure, brown wad overlying thinly laminated sands. No hard nodules of manganese oxides.

Intermediate Tunnel: Elevation 5, 432 feet. Irregular zone of soft wad in which are sporadic nodules of manganes oxides. Has yielded 85 tons.

Lowest Tunnel: Elevation 5,375 feet. Horizontal zone of earthy wad and hard manganese oxides for horizontal distance of 140 feet where cut off by fault. Production has been 500 tons of 37.7-47.3 % Manganese obtained by sorting.

Sediments:

Sand, sandy clay, sandy marls, and manganese oxides. Thinly laminated, generally occurring in layers 1 to 4 feet thick. Pale gray to greenish gray. Most abundant material is greenish, gray, sandy clay.

Manganese-Bearing Layers:

Brown wad with admixed brownish sand in which are scattered hard, cavernous nodules of mixed psilomelane and pyrolusite, some as much as 2 feet in diameter.

Iron oxides are inconspicuous or absent.

Prinipal ore zone ranges from 1-4 feet in thickness; trends northeast, dips flatly, not over 5° SE..

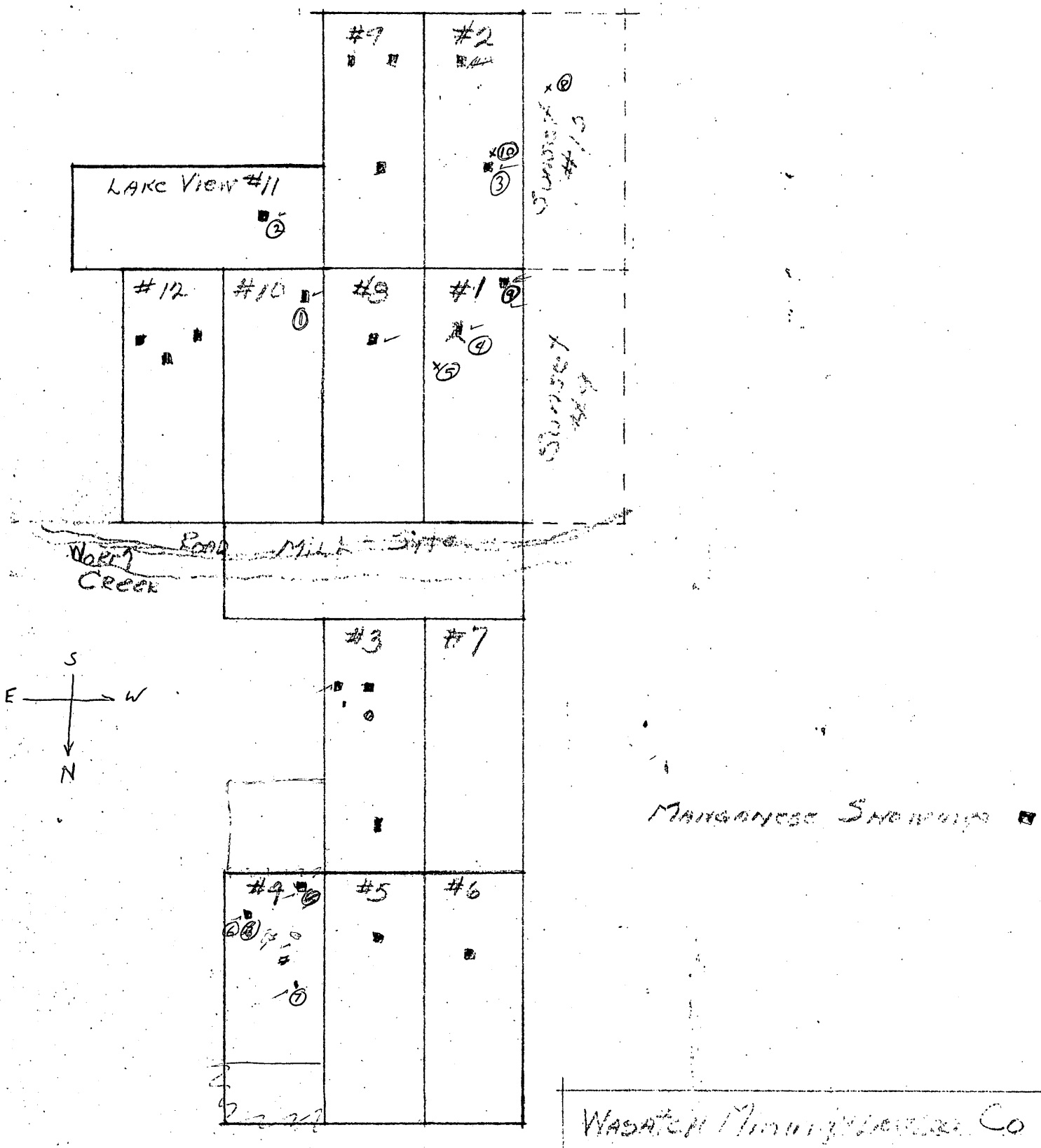
GENESIS Of Deposits:

Brown wad laid down in body of water in Pleistocene and immediately covered with sandy clay and sand. Should be found to terminate where recent sediments abut against older hard rocks (Paleozoic).

Hard nodules appear to have grown by accretion from manganese in solution since wad was deposited.

Source of manganese must be minute quantities known to occur in many rocks, igneous and sedimentary.

Production: Jan 1926 - May 1927
1,200.45
Grade Cr. 43-46% Mn.




WASATCH MINING CO
PRESTON LEASE

23 JUNE 1952
SCALE 1/4" = 200'

August 27, 1951

Mr. Charles Ransom, President
Wasatch Mining & Development Co.
516 South State
Preston, Idaho

Subject: DMA-2008
Re: Lakeview 1 thru 12 Claims
Exploration Loan

My dear Mr. Ransom:

This will acknowledge receipt of your application dated August 21, 1951 for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMA- 2008 and referred to the Ferro Alloys Branch.

Kindly refer to DMA- 2008 in any future correspondence relating to your application.

Sincerely yours,

Robert E. Adams

Robert E. Adams, Chief
Reports and Records Unit

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

So. 157 Howard Street
Spokane 4, Washington

DM 42008

August 21, 1951

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 27 1951

Mr. Landon F. Strobel
Executive Secretary
Defense Minerals Administration
Department of Interior
Washington 25, D. C.

Dear Mr. Strobel:

Enclosed are three copies of an application for an exploration contract submitted by the Wasatch Mining and Development Company concerning a manganese property in Bear Lake County, Idaho. One copy of the application is being retained in this office to facilitate field examination.

The Geological Survey has a regular field party working in the southeast section of Idaho who will make an examination of the property in question at the earliest practicable date.

Very truly yours,

Thor H. Kiilsgaard KG

Thor H. Kiilsgaard
For: A. E. Weissenborn
Executive Officer, DMA
Field Team, Region II

Enclosures

cc: U.S.B.M.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 27 1951

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. DMA 2008

Date received 8-27-51

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 27 1951

Participation

Wasatch Mining & Development Co.
516 South State
Preston, Idaho

Name and address of applicant

Date July 28, 1951

FILL IN THIS BLOCK

Date of application July 28, 1951

Estimated cost $20,000.00

Mineral or metal Manganese

Percentage of Government participation 75%

Location of mine Southeastern Idaho, Bear Lake County

Date of filing MF-100

DMA Docket Number, if available 2008

## INSTRUCTIONS

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

## THE APPLICANT

*1. Is applicant an individual, partnership, or corporation? Corporation
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders. See Sheet #1
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project. See Sheet #1
*5. Are you the owner or the lessee of the property? Owner
6. If owner, state what claims, liens, or encumbrances, if any, are against the property. None
7. If lessee, attach a copy of the lease and state if it is in good standing.

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

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement. See Sheet # 4
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)? See Sheet #1

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

16—64067-1

## THE PROPERTY

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

(*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted. Sheet #1

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

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

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads. Sheet #1

*13. State source and quantity of water available for operations and its sufficiency at all seasons. Sheet #1
State amount of power to be used, rate per hour or other cost, and source. Sheet #2

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work. Sheet #2

15. State in detail how the ore could be shipped and how and where milled. Sheet #2

*16. History: Sheet #2

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

(*b*) State briefly the known history and production of adjoining and neighboring properties.

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

*17. Production:

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

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

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

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

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

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

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

## THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted? Sheet #2

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it. Sheet #2

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

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data. Sheet #2

## THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows: Sheet #3

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

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

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

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

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

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

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

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

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

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent. Sheet #3

## 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.

Wasatch Mining & Development Co. (Name of company) By Charles Ranson (Signature of authorized official)

August 16, 1951 (Date) Vice President (Title)

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

*Same as footnote on page 1.

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

Wasatch Mining & Development Co. Sheet #1
516 South State
Preston, Idaho

3. Officers:

| | | |
|---|---|---|
| President | George Ransom | Rt. 1, Boise, Idaho |
| Vice President | Charles Ransom | Rt. 2, Preston, Idaho |
| Secretary-Treasurer | Heber Ransom | 516 S. State, Preston, Idaho |

Directors & Five Largest Stockholders:

| | |
|---|---|
| George Ransom | Rt. 1, Boise, Idaho |
| Charles Ransom | Rt. 2, Preston, Idaho |
| Heber Ransom | 516 S. State, Preston, Idaho |
| Leonard Eskelsen | 9345-45th S., Seattle, Washington |
| Ray Wilker | Perry, Idaho |

4. (a) Charles Ransom - Five years of general mining experience most of which was at Cleveland, Idaho in the Smith Manganese Mine. General business experience, has had several small businesses of his own.

(b) Manager of the project will be Leonard Eskelsen - Twenty years of mining experience. He has operated in coal mines and hard rock mines of several types, including manganese.

9. Applicant is prepared to invest $5,000.00 which will cover his part of the cost of the project.

10. (a) Claims - Lakeview #1, #2, #3, #4, #5, #6, #7, #8, #9, #10, #11, #12. #1 is bounded on the West by Clark Claim, Sunset #9 and #2 on the West by Clark Claim, Sunset #10, lead property not now operating.

(b) Same as (a) above.

11. Present and former name of the property same as above.

12. These claims lay south east of Paris and Montpelier and east of the north end of Bear Lake in Bear Lake County, Idaho. The ore can be loaded on rail cars at Montpelier. The distance on hard surface black top road from Montpelier through Paris is 13.1 miles to the county road. The county road leading to the property goes up Worm Creek a distance of 3.1 miles. The black top road is in very good condition but the county road up Worm Creek will require additional work to bear heavy traffic.

13. Worm Creek flows the year round except during the severest winter months and is a stream 4 feet wide and 1 foot deep with sufficient flow and head of water for any required use in developing the manganese. Unless a mill is placed on the

13. Cont'd

property for refining the manganese ore, all equipment used will have integral gasoline or diesel engines.

14. No existing facilities or equipment on the property.

15. By bulldozing a road from the present county road on Worm Creek to the north and south of the aforesaid creek the manganese can be loaded directly into trucks for transportation to the rail trans-shipment point. It is planned at this time that hand sorting would be used to obtain an ore for commercial use. If milling is necessary it could be accomplished on the mill site which lies along Worm Creek and between the north and south group of claims on this property.

16. (a) In 1927 the claims were located and exploration was carried out. This consisted of winzes up to 30 feet in depth and many open cuts. In opening one or the winzes about 100 tons of manganese ore, averaging 35% or better, was placed on the dump. No shipments were made from this property in the early days of developing. The development of the property was suspended until recently due to lack of finances for proper development work and because of the low selling price of manganese.

(b) No production of manganese on adjacent or neighboring property has been accomplished. In the past, the Clark Claims, Sunset #9 and #10, were developing and shipping lead over a period of years.

(c) Attached you will find a report by Ralph O. Smith, mining geologist, who examined this property.

20. Manganese

21. The proposed work consists of uncovering and determining the continuity of the manganese ore blanket now apparent on this property. It is also proposed to sink winzes where ore is shown going to depth and where necessary to make drifts from these winzes to determine the extent of the ore body. The uncovering of the blanket ore body will be progressive and is believed, from present exposures and cuts available there, two to five acres of this blanket could be definitely determined in 30 to 45 days of operation. The complete examination of this property will take between six to nine months.

Wasatch Mining & Development Co.
516 South State
Preston, Idaho

Sheet #3

22. A map of this country showing the location of Worm Creek and the county road is attached. The manganese float is apparent and quite consistent in it's showings on both the north and south slopes leading to Worm Creek.

23. (a)

| | | |
|---|---|---|
| 1 Powderman | @$2.00 | $2.00 |
| 3 Laborers | @ 1.60 | 4.80 |
| 1 Jackhammer | @ 1.70 | 1.70 |
| | | $8.50 per hour |

Total labor for 6 months . . . . . 8,160.00

(b) General Superintendent @ $300.00 per month
Bookkeeper @ $200.00 per month

Total supervisory for 6 months . . . . . 3,000.00

(d) Office and bunkhouse
20' x 30' - 600 sq. ft. @ $4.00 . . . . . 2,400.00

(f) Bulldozer with operator @ $10.00 per hour
For 2 months . . . . . 3,200.00

Air Compressor with operator @ $4.00 per hour
For 3 months . . . . . 1,920.00

(h) Miscellaneous materials and supplies . . . . 1,000.00

(i) Cost of power, water, etc. . . . . 320.00

Total for six months period . . . . . $20,000.00

24. Time Schedule

| | |
|---|---|
| **First Month** | |
| Bunkhouse and office constructed | |
| Uncover manganese showings | 5,860.00 |
| **Second Month** | |
| Continue uncovering manganese, drilling and blasting manganese | 4,600.00 |
| **Third Month** | |
| Drill and blast manganese | 2,500.00 |
| **Fourth Month** | |
| Drill and blast manganese | 2,500.00 |
| **Fifth Month** | |
| Handwork on uncovering manganese | 2,360.00 |
| **Sixth Month** | |
| Handwork on uncovering manganese | 2,180.00 |
| | $20,000.00 |

FINANCIAL REPORT OF

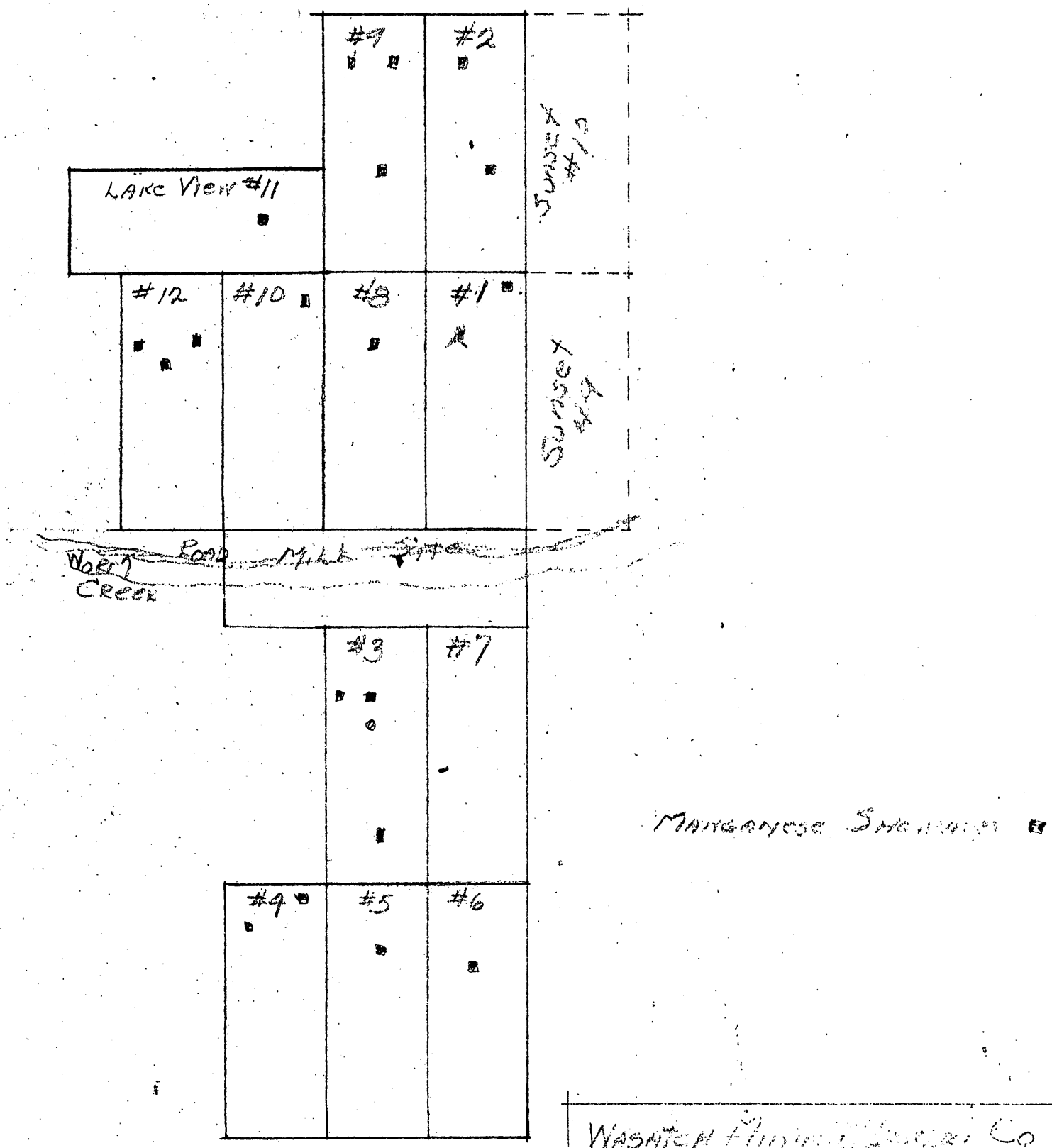
WASATCH MINING & DEVELOPMENT CO.

The sole assets of this company consist of the mining properties. 299,460 shares of stock are outstanding and the proceeds of this stock have gone into the mining operations. The properties have never been appraised. We refer you to the other documents to which this report is appended, and particularly to the geologist's report as to the amount of ore available, etc.

There are no liabilities of the company at the present time.

No ore has been shipped and hence there have been no profits. And there are no losses to report.

This company is engaged in developing its claims and the labor which has gone into the project thus far has been furnished by the stockholders of the company.




Wasatch Mining Lease Co
Preston Mine

23 July 1952
Scale 1/4" = 200'

Wasatch Mining & Development Co.
516 South State
Preston, Idaho

LONE CREEK DEPOSIT MANGANESE

Consisting of 10 Mineral Claims

This area is located about 6 miles from the northerly end of Bear Lake, at an elevation of 6,500 feet. Access is by county road to about 2 miles from property and a private ungraded road to property. Brush and small trees cover most of the area on slopes with the rolling ridges quite clear of everything but sage brush.

The best deposit lies about 500 feet elevation above Lone Creek and about 1,500 feet by slope.

Known mineralized area is 250 feet wide and 1,000 feet long.

The deposit lies as a fairly continuous blanket type formation from a few inches to about 2½ feet below the surface. The ore is hard black Manganite and Pyrolusite in rough slaggy forms and masses up to several tons in some instances. The country rock is largely Quartzite and Limestone, the ore in some places penetrates to considerable depth into the fissures present. In general the ore is about 2½ feet thick and is loosely consolidated with about 15% gangue of Limestone. Some Silica is present. Ore should be handpicked for the most part as mined, before shipment.

Several open cuts and 2 winzes show ore of fair grade. The open cuts are nearly filled in by rock and dirt but the ore in the blanket formation is visible in most places.

There is not sufficient development work done to prove a continuous ore body but indications are such as to warrant the belief that considerable tonnage is available.

Open cuts should be cleaned out and about 10 or 12 more put in. The winze at highest elevation should be sunk at least 30 feet more as ore is reported continuously to bottom.

Similar conditions prevail North across Warm Creek over an area of about 10 acres.

A heavy tractor, bulldozer equipped; air compressor; and jack hammer are necessary for further development of mine and roads.

Should the ore blanket prove consistent over the area covered, about 200 carloads of ore would be available with small capital outlay, roughly $5,000.00 for labor and materials above cost of equipment.

Form MF-103
(April 1951)

# U. S. DEPARTMENT OF THE INTERIOR

## DEFENSE MINERALS ADMINISTRATION

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

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

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Participation

Wasatch Mining & Development Co.
516 South State
Preston, Idaho

Name and address of applicant

Date July 28, 1951

FILL IN THIS BLOCK

Date of application July 28, 1951

Estimated cost $20,000.00

Mineral or metal Manganese

Percentage of Government participation 75%

Location of mine Southeastern Idaho,

Bear Lake County

Date of filing MF-100

DMA Docket Number, if available 2008

## INSTRUCTIONS

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## THE APPLICANT

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

*2. If a partnership, state names and addresses of partners.

*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders. See Sheet #1

*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project. See Sheet #1

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

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

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

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

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement. See Sheet # 4

9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)? See Sheet #1

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16—64067-1

## THE PROPERTY

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

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

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

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

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

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

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

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

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

## THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted? Sheet #2

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it. Sheet #2

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24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent. Sheet #3

## 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.

Wasatch Mining & Development Co. (Name of company) By Charles Ransom (Signature of authorized official)

August 16, 1951 (Date) Vice President (Title)

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

*Same as footnote on page 1.

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

Wasatch Mining & Development Co. Sheet #1
516 South State
Preston, Idaho

3. Officers:

| | | |
|---|---|---|
| President | George Ransom | Rt. 1, Boise, Idaho |
| Vice President | Charles Ransom | Rt. 2, Preston, Idaho |
| Secretary-Treasurer | Heber Ransom | 516 S. State, Preston, Idaho |

Directors & Five Largest Stockholders:

| | |
|---|---|
| George Ransom | Rt. 1, Boise, Idaho |
| Charles Ransom | Rt. 2, Preston, Idaho |
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| Leonard Eskelsen | 9345-45th S., Seattle, Washington |
| Ray Wilker | Perry, Idaho |

4. (a) Charles Ransom - Five years of general mining experience most of which was at Cleveland, Idaho in the Smith Manganese Mine. General business experience, has had several small businesses of his own.

(b) Manager of the project will be Leonard Eskelsen - Twenty years of mining experience. He has operated in coal mines and hard rock mines of several types, including manganese.

9. Applicant is prepared to invest $5,000.00 which will cover his part of the cost of the project.

10. (a) Claims - Lakeview #1, #2, #3, #4, #5, #6, #7, #8, #9, #10, #11, #12. #1 is bounded on the west by Clark Claim, Sunset #9 and #2 on the West by Clark Claim, Sunset #10, lead property not now operating.

(b) Same as (a) above.

11. Present and former name of the property same as above.

12. These claims lay south east of Paris and Montpelier and east of the north end of Bear Lake in Bear Lake County, Idaho. The ore can be loaded on rail cars at Montpelier. The distance on hard surface black top road from Montpelier through Paris is 13.1 miles to the county road. The county road leading to the property goes up Worm Creek a distance of 3.1 miles. The black top road is in very good condition but the county road up Worm Creek will require additional work to bear heavy traffic.

13. Worm Creek flows the year round except during the severest winter months and is a stream 4 feet wide and 1 foot deep with sufficient flow and head of water for any required use in developing the manganese. Unless a mill is placed on the

13. Cont'd

property for refining the manganese ore, all equipment used will have integral gasoline or diesel engines.

14. No existing facilities or equipment on the property.

15. By bulldozing a road from the present county road on Worm Creek to the north and south of the aforesaid creek the manganese can be loaded directly into trucks for transportation to the rail trans-shipment point. It is planned at this time that hand sorting would be used to obtain an ore for commercial use. If milling is necessary it could be accomplished on the mill site which lies along Worm Creek and between the north and south group of claims on this property.

16. (a) In 1927 the claims were located and exploration was carried out. This consisted of winzes up to 30 feet in depth and many open cuts. In opening one of the winzes about 100 tons of manganese ore, averaging 35% or better, was placed on the dump. No shipments were made from this property in the early days of developing. The development of the property was suspended until recently due to lack of finances for proper development work and because of the low selling price of manganese.

(b) No production of manganese on adjacent or neighboring property has been accomplished. In the past, the Clark Claims, Sunset #9 and #10, were developing and shipping lead over a period of years.

(c) Attached you will find a report by Ralph O. Smith, mining geologist, who examined this property.

20. Manganese

21. The proposed work consists of uncovering and determining the continuity of the manganese ore blanket now apparent on this property. It is also proposed to sink winzes where ore is shown going to depth and where necessary to make drifts from these winzes to determine the extent of the ore body. The uncovering of the blanket ore body will be progressive and is believed, from present exposures and cuts available there, two to five acres of this blanket could be definitely determined in 30 to 45 days of operation. The complete examination of this property will take between six to nine months.

Wasatch Mining & Development Co.
516 South State
Preston, Idaho



22. A map of this country showing the location of Worm Creek and the county road is attached. The manganese float is apparent and quite consistent in it's showings on both the north and south slopes leading to Worm Creek.

23. (a)

| | | |
|---|---|---|
| 1 Powderman | @ $2.00 | $2.00 |
| 3 Laborers | @ 1.60 | 4.80 |
| 1 Jackhammer | @ 1.70 | 1.70 |
| | | $8.50 per hour |

Total labor for 6 months . . . . . 6,160.00

(b) General Superintendent @ $300.00 per month
Bookkeeper @ $200.00 per month

Total supervisory for 6 months . . . . . 3,000.00

(d) Office and bunkhouse
20' x 30' - 600 sq. ft. @ $4.00 . . . . . 2,400.00

(f) Bulldozer with operator @ $10.00 per hour
For 2 months . . . . . 3,200.00

Air Compressor with operator @ $4.00 per hour
For 3 months . . . . . 1,920.00

(h) Miscellaneous materials and supplies . . . . 1,000.00

(i) Cost of power, water, etc. . . . . 320.00

Total for six months period . . . . . $20,000.00

24. Time Schedule

| | |
|---|---|
| **First Month** | |
| Bunkhouse and office constructed | |
| Uncover manganese showings | 5,860.00 |
| **Second Month** | |
| Continue uncovering manganese, drilling and blasting manganese | 4,600.00 |
| **Third Month** | |
| Drill and blast manganese | 2,500.00 |
| **Fourth Month** | |
| Drill and blast manganese | 2,500.00 |
| **Fifth Month** | |
| Handwork on uncovering manganese | 2,360.00 |
| **Sixth Month** | |
| Handwork on uncovering manganese | 2,180.00 |
| | $20,000.00 |

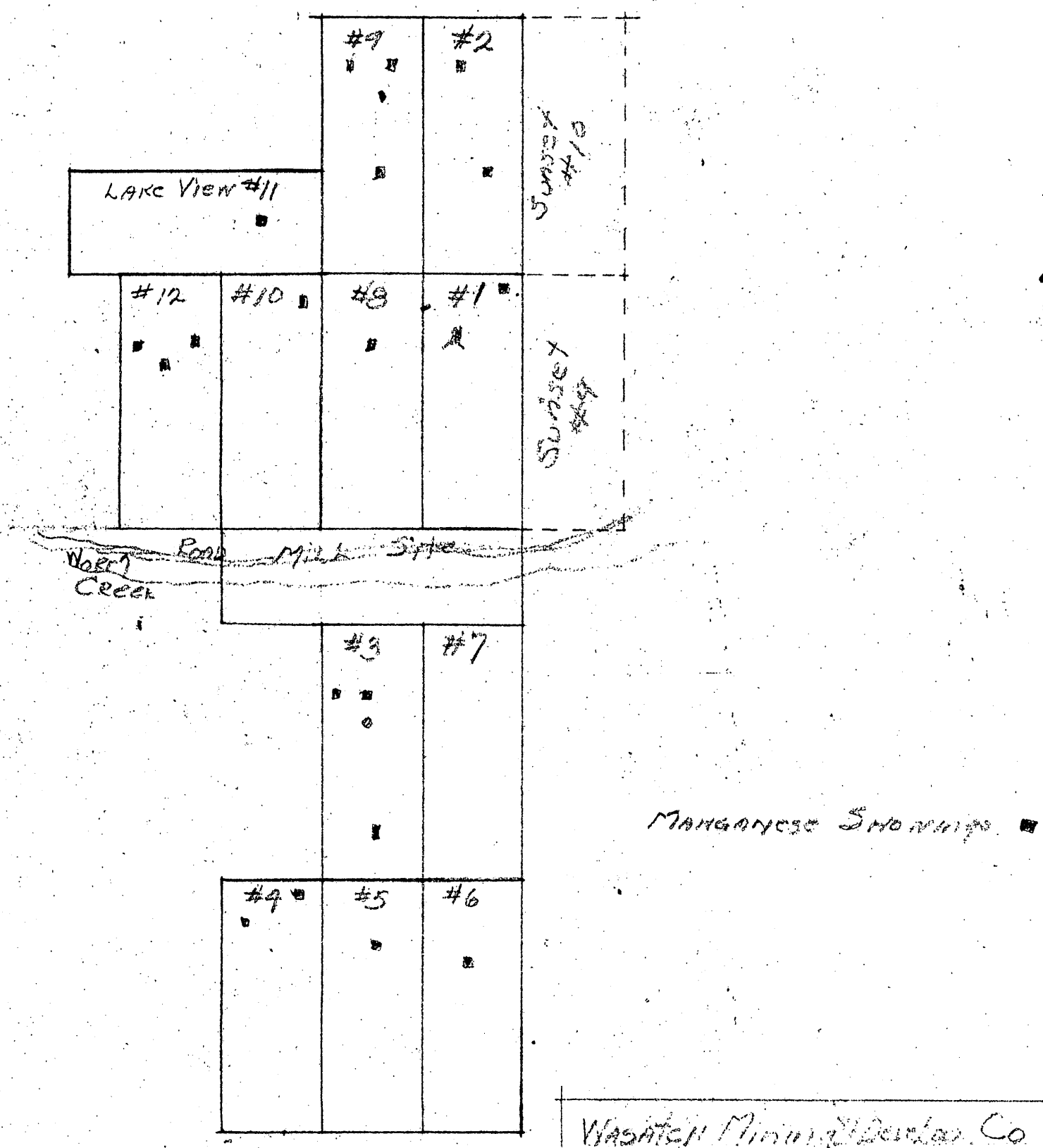
# FINANCIAL REPORT OF
# WASATCH MINING & DEVELOPMENT CO.

The sole assets of this company consist of the mining properties. 299,480 shares of stock are outstanding and the proceeds of this stock have gone into the mining operations. The properties have never been appraised. We refer you to the other documents to which this report is appended, and particularly to the geologist's report as to the amount of ore available, etc.

There are no liabilities of the company at the present time.

No ore has been shipped and hence there have been no profits. And there are no losses to report.

This company is engaged in developing its claims and the labor which has gone into the project thus far has been furnished by the stockholders of the company.




Wasatch Mining & Development Co
Preston Island

23 July 1952
Scale 1/4" = 200'

Wasatch Mining & Development Co.
516 South State
Preston, Idaho

# WORM CREEK DEPOSIT MANGANESE

Consisting of 10 Mineral Claims

This area is located about 6 miles from the northerly end of Bear Lake, at an elevation of 6,500 feet. Access is by county road to about 2 miles from property and a private ungraded road to property. Brush and small trees cover most of the area on slopes with the rolling ridges quite clear of everything but sage brush.

The best deposit lies about 500 feet elevation above Worm Creek and about 1,500 feet by slope.

Known mineralized area is 250 feet wide and 1,000 feet long.

The deposit lies as a fairly continuous blanket type formation from a few inches to about 2½ feet below the surface. The ore is hard black Manganite and Pyrolusite in rough slaggy forms and masses up to several tons in some instances. The country rock is largely Quartzite and Limestone, the ore in some places penetrates to considerable depth into the fissures present. In general the ore is about 2½ feet thick and is loosely consolidated with about 15% gangue or Limestone. Some Silica is present. Ore should be handpicked for the most part as mined, before shipment.

Several open cuts and 2 winzes show ore of fair grade. The open cuts are nearly filled in by rock and dirt but the ore in the blanket formation is visible in most places.

There is not sufficient development work done to prove a continuous ore body but indications are such as to warrant the belief that considerable tonnage is available.

Open cuts should be cleaned out and about 10 or 12 more put in. The winze at highest elevation should be sunk at least 30 feet more as ore is reported continuously to bottom.

Similar conditions provail North across Warm Creek over an area of about 10 acres.

A heavy tractor, bulldozer equipped; air compressor; and jack hammer are necessary for further development of mine and roads.

Should the ore blanket prove consistent over the area covered, about 200 carloads of ore would be available with small capital outlay, roughly $5,000.00 for labor and materials above cost of equipment.

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. DMA 2008

Date received DEPARTMENT OF THE INTERIOR Defense Minerals Administration RECEIVED AUG 27 1951

Participation

Name and address of applicant

[illegible] Mining & Development Co.
525 [illegible]
Boise, Idaho

Date July 26, 1951

FILL IN THIS BLOCK

Date of application July 26, 1951

Estimated cost [illegible]

Mineral or metal [illegible]

Percentage of Government participation 75

Location of mine [illegible]

Date of filing MF-100

DMA Docket Number, if available 2008

## INSTRUCTIONS

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

## THE APPLICANT

*1. Is applicant an individual, partnership, or corporation? Corporation
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders. See Sheet # 1
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project. See Sheet # 1
*5. Are you the owner or the lessee of the property? Owner
6. If owner, state what claims, liens, or encumbrances, if any, are against the property. None
7. If lessee, attach a copy of the lease and state if it is in good standing.

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

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement. See Sheet # 4
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)? See Sheet # 1

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

16—64067-1

## THE PROPERTY

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

(*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted. Sheet 1

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

*11. State the present and former names of the property, if any. Sheet 1

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads. Sheet 1

*13. State source and quantity of water available for operations and its sufficiency at all seasons. Sheet 1
State amount of power to be used, rate per hour or other cost, and source. Sheet 1

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work. Sheet 2

15. State in detail how the ore could be shipped and how and where milled. Sheet 2

*16. History: Sheet 2

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

(*b*) State briefly the known history and production of adjoining and neighboring properties.

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations. None

*17. Production:

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

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

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

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

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

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

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

## THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted? Sheet 2

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it. Sheet 2

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

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data. Sheet 2

## THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows: Sheet 3

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

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

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

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

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

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

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

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

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

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent. Sheet 3

## 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.

Wasatch Mining & Development Co. (Name of company) By Charles Ransom (Signature of authorized official)

August 16, 1951 (Date) Vice President (Title)

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

*Same as footnote on page 1.

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

Wasatch Mining & Development Co. Sheet #1
516 South State
Preston, Idaho

3. Officers:

| | | |
|---|---|---|
| President | George Ransom | Rt. 1, Boise, Idaho |
| Vice President | Charles Ransom | Rt. 2, Preston, Idaho |
| Secretary-Treasurer | Heber Ransom | 516 S. State, Preston, Idaho |

Directors & Five Largest Stockholders:

| | |
|---|---|
| George Ransom | Rt. 1, Boise, Idaho |
| Charles Ransom | Rt. 2, Preston, Idaho |
| Heber Ransom | 516 S. State, Preston, Idaho |
| Leonard Eskelsen | 9345-45th N., Seattle, Washington |
| Ray Wilker | Perry, Idaho |

4. (a) Charles Ransom - Five years of general mining experience most of which was at Cleveland, Idaho in the Smith Manganese Mine. General business experience, has had several small businesses of his own.

(b) Manager of the project will be Leonard Eskelsen - Twenty years of mining experience. He has operated in coal mines and hard rock mines of several types, including manganese.

9. Applicant is prepared to invest $5,000.00 which will cover his part of the cost of the project.

10. (a) Claims - Lakeview #1, #2, #3, #4, #5, #6, #7, #8, #9, #10, #11, #12. #1 is bounded on the West by Clark Claim, Sunset #9 and #2 on the West by Clark Claim, Sunset #10, lead property not now operating.

(b) Same as (a) above.

11. Present and former name of the property same as above.

12. These claims lay south east of Paris and Montpelier and east of the north end of Bear Lake in Bear Lake County, Idaho. The ore can be loaded on rail cars at Montpelier. The distance on hard surface black top road from Montpelier through Paris is 13.1 miles to the county road. The county road leading to the property goes up Worm Creek a distance of 3.1 miles. The black top road is in very good condition but the county road up Worm Creek will require additional work to bear heavy traffic.

13. Worm Creek flows the year round except during the severest winter months and is a stream 4 feet wide and 1 foot deep with sufficient flow and head of water for any required use in developing the manganese. Unless a mill is placed on the

13. Cont'd

property for refining the manganese ore, all equipment used will have integral gasoline or diesel engines.

14. No existing facilities or equipment on the property.

15. By bulldozing a road from the present county road on Worm Creek to the north and south of the aforesaid creek the manganese can be loaded directly into trucks for transportation to the rail trans-shipment point. It is planned at this time that hand sorting would be used to obtain an ore for commercial use. If milling is necessary it could be accomplished on the mill site which lies along Worm Creek and between the north and south group of claims on this property.

16. (a) In 1927 the claims were located and exploration was carried out. This consisted of winzes up to 30 feet in depth and many open cuts. In opening one of the winzes about 100 tons of manganese ore, averaging 35% or better, was placed on the dump. No shipments were made from this property in the early days of developing. The development of the property was suspended until recently due to lack of finances for proper development work and because of the low selling price of manganese.

(b) No production of manganese on adjacent or neighboring property has been accomplished. In the past, the Clark Claims, Sunset #9 and #10, were developing and shipping lead over a period of years.

(c) Attached you will find a report by Ralph O. Smith, mining geologist, who examined this property.

20. Manganese

21. The proposed work consists of uncovering and determining the continuity of the manganese ore blanket now apparent on this property. It is also proposed to sink winzes where ore is shown going to depth and where necessary to make drifts from these winzes to determine the extent of the ore body. The uncovering of the blanket ore body will be progressive and is believed, from present exposures and cuts available there, two to five acres of this blanket could be definitely determined in 30 to 45 days of operation. The complete examination of this property will take between six to nine months.

Wasatch Mining & Development Co. Sheet #3
516 South State
Preston, Idaho

22. A map of this country showing the location of Worm Creek and the county road is attached. The manganese float is apparent and quite consistent in it's showings on both the north and south slopes leading to Worm Creek.

23. (a)

| | | |
|---|---|---|
| 1 Powderman @ | $2.00 | $2.00 |
| 3 Laborers @ | 1.60 | 4.80 |
| 1 Jackhammer @ | 1.70 | 1.70 |
| | | $8.50 per hour |

Total labor for 6 months . . . . . 8,160.00

(b) General Superintendent @ $300.00 per month
Bookkeeper @ $200.00 per month

Total supervisory for 6 months . . . . . 3,000.00

(d) Office and bunkhouse
20' x 30' - 600 sq. ft. @ $4.00 . . . . . 2,400.00

(f) Bulldozer with operator @ $10.00 per hour
For 2 months . . . . . 3,200.00

Air Compressor with operator @ $4.00 per hour
For 3 months . . . . . 1,920.00

(h) Miscellaneous materials and supplies . . . . 1,000.00

(i) Cost of power, water, etc. . . . . 320.00

Total for six months period . . . . . $20,000.00

24. Time Schedule

First Month
Bunkhouse and office constructed
Uncover manganese showings 5,860.00

Second Month
Continue uncovering manganese, drilling and blasting manganese 4,600.00

Third Month
Drill and blast manganese 2,500.00

Fourth Month
Drill and blast manganese 2,500.00

Fifth Month
Handwork on uncovering manganese 2,360.00

Sixth Month
Handwork on uncovering manganese 2,180.00

$20,000.00

# FINANCIAL REPORT OF
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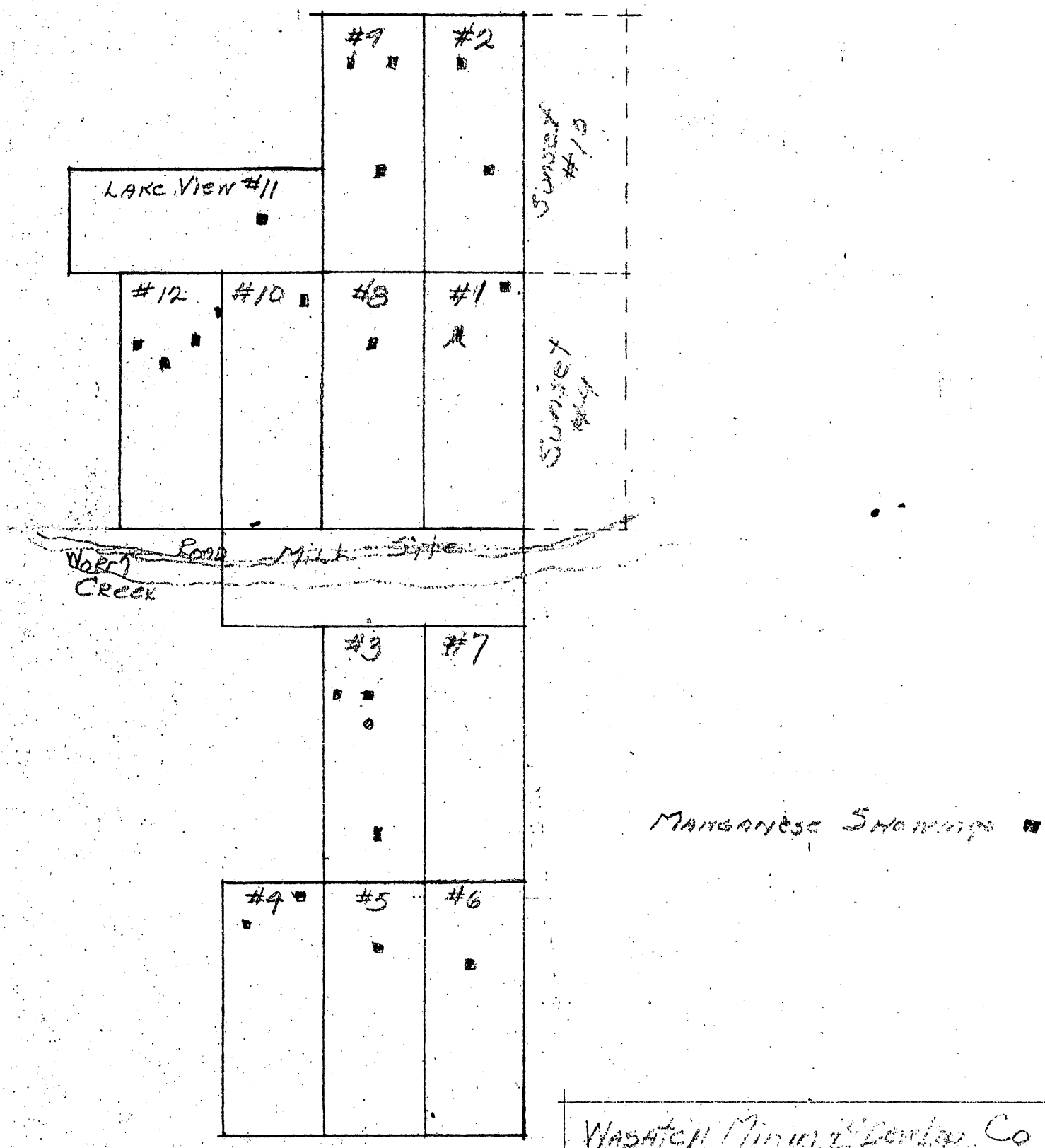


Wasatch Mining & Leasing Co
Preston Idaho

23 July 1952
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Wasatch Mining & Development Co.
516 South State
Preston, Idaho

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