Docket No. DMA 2099 - Manganese August 25, 1952

Iron and Ferro-Alloy Division, DMEA

Docket No. DMA 2099 - Manganese
Ruell Morgan, Applicant - September 15, 1951
Torpedo-Eclipse Manganese Mine
Ouray County, Colorado

Report of examination by Ward B. Meek, U. S. Geological Survey. The report is undated.

Amount of loan requested - $9,995.36.

Loan denied November 2, 1951, by Region IV.

This Division concurs with the field team denial.

T. L. Chapman

TLChapman'lm
8/25/52

cc: Admn. Reading File
Docket
G. C. Selfridge
T. L. Chapman

DEFENSE MINERALS ADMINISTRATION
WASHINGTON, D. C.
OCT 29 9 59 AM '51

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

224 New Customhouse
Denver 2, Colorado

October 25, 1951

Memorandum

To: Executive Secretary, Defense Minerals Administration

From: DMA Field Team, Region IV

Subject: Final Report, DMA Docket 2099, Ruell Morgan, applicant, Torpedo-Eclipse Manganese Mine, Ouray County, Colorado

Enclosed herewith are the original and two copies of the report on the subject docket.

We concur with the conclusions and recommendations of the examining team that the exploration loan of $9995.36 be denied.

The brochure is enclosed.

J. H. East, Jr.

A. H. Koschmann

Enclosures

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

200 New Customhouse
Denver 2, Colorado

October 25, 1951

Memorandum

To: DMA Field Team, Region IV

From: A. H. Koschmann

Subject: DMA Docket 2099, Torpedo-Eclipse Mine (Manganese), Mt. Sneffles Mining District, Ouray County, Colorado

Attached are 8 copies of the geologic report by Ward B. Meek covering subject docket. There is no manganese ore exposed underground or on the surface at the Torpedo-Eclipse property; however, several veins are exposed in the mine workings. One of these consists chiefly of quartz with some fluorite and disseminated pyrite, and locally black staining--presumably manganese oxide--is present, but slight. Another vein consists chiefly of quartz with some barite and a small amount of rhodochrosite. Interstitial to the barite and quartz is a secondary black mineral which forms a coating on a mineral with rhombohedral cleavage, probably rhodochrosite. The black oxide is probably psilomelane after rhodochrosite. Mr. Meek points out that there is no geologic reason to expect that manganese ore may be present on the property, and he, therefore, recommends that the loan be denied.

I concur with this recommendation.

Attached also is the brochure.

A. H. Koschmann
A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Attachments (9)

TORPEDO-ECLIPSE MINE (MANGANESE)

MT. SNEFFLES MINING DISTRICT

OURAY COUNTY, COLORADO

DMA DOCKET 2099

Geology

By Ward B. Meek, Geologist
U. S. Geological Survey

TORPEDO-ECLIPSE MINE (MANGANESE)
MT. SNEFFLES MINING DISTRICT
OURAY COUNTY, COLORADO

The Torpedo-Eclipse Mining Company has requested an exploration loan of $9995.36 for use in exploring their property in the Mt. Sneffles Mining District of Ouray County, Colorado. The owners hope to develop manganese ore.

The operating Camp Bird Mine is less than a mile down the valley from the Torpedo-Eclipse, and the buildings of the Revenue and Atlas Mines are within one-half mile across the valley from the latter.

The mine workings involved consist of several short adits and a main tunnel some 1600 feet long. Track and a 2-inch air line are in place. There is an ore bin of some 50 tons capacity, and a two-story wooden building that could be conditioned for use as a bunk house and office.

A strong vein averaging about 3 feet in width is exposed in the main tunnel and, reportedly, in two upper adits, now caved. The vein curves but has a very general east-west strike and a steep southerly dip. There are several splits from it. The enclosing rock is chiefly andesitic breccia, but a rhyolite dike forms the northern (hanging) wall at many places.

The vein material is almost entirely quartz, partly brecciated and banded. Fluorite forms occasional pockets as large as 10 x 5 x 2 feet. Pyrite, the only primary metallic mineral observed, is sparsely disseminated in the quartz and wall-rock as tiny grains. Black staining, presumably by manganese oxides, is present but slight.

There is nothing about this vein to indicate that it or its splits have any potential value in strategic minerals. Mr. Morgan's opinion that the mine should be extended to explore for manganese ore is based on the following:

1. Locally in the tunnel the rock shows a slight manganese oxide staining.

2. Mr. Morgan believes that previous exploration has followed too close to the valley and that there is better ore inside the hill.

3. Between stations 17 and 18 on the plot of the tunnel which is included in the brochure, Mr. Morgan has marked a "water course." This is a small flow of water issuing from near the floor of the tunnel where a round has been blasted out. There is no visible cross-structure. Mr. Morgan believes that a cross-structure or a split trending west-northwesterly will be found farther into the wall. His idea that any ore found here will be manganese ore is based on a few black nodules which he says he found at this point. No nodules were seen during this examination. Black staining is present which is probably manganese oxide formed by oxidation of rhodochrosite in a more pervious parallel vein or split a short distance into this wall.

Some 1500 feet westerly and some 250 feet higher than the portal of the main tunnel, there is an adit about 75 feet long. It exposes a vein similar in attitude, size, and strength to the main vein, but the gangue consists largely of barite associated with quartz. Interstitially between the barite and quartz is a substantial amount of secondary black mineral. A small amount of fresh rhodochrosite is present and, at higher magnification, much of the black mineral proved to be a coating on a mineral

with rhombohedral cleavage. Hence, the staining is believed to be psilomelane secondary after rhodochrosite. Mr. Morgan reports that hand-picked material from this dump assayed about 9% MnO_2; probably more of this manganese is in the carbonate than is in the oxide. There is no reason to believe that manganese ore, at least in commercial quantity, is present.

RECOMMENDATIONS

There is no manganese ore exposed underground or on the surface at the Torpedo-Eclipse Mine. There is no geologic reason to expect that any may be present unless as small scattered pockets of rhodochrosite, partly oxidized.

It is recommended that no loan be granted.

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : Docket No. DMA 2099 - Manganese

DATE: August 25, 1952

FROM : Iron and Ferro-Alloy Division, DMEA

SUBJECT: Docket No. DMA 2099 - Manganese
Ruell Morgan, Applicant - September 15, 1951
Torpedo-Eclipse Manganese Mine
Ouray County, Colorado

Report of examination by Ward B. Meek, U. S. Geological Survey. The report is undated.

Amount of loan requested - $9,995.36.

Loan denied November 2, 1951, by Region IV.

This Division concurs with the field team denial.

T. L. Chapman

FILE COPY
SURNAME:

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

Docket No. DMA 2099 August 25, 1952

Chapman

Iron and Ferro-Alloy Division, DMMA

Docket No. DMA 2099 - Manganese
Ruell Morgan, Applicant - September 15, 1951
Torpedo-Eclipse Manganese Mine
Ouray County, Colorado

Report of examination by Ward B. Meek, U. S. Geological Survey. The report is undated.

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T. L. Chapman

TLChapman'lm
8/25/52

cc: Admn. Reading File
Docket
G. C. Selfridge
T. L. Chapman

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

224 New Customhouse
Denver 2, Colorado

November 2, 1951

Mr. Reuel Morgan
26 Ouray Avenue
Grand Junction, Colorado

Re: DMA Docket 2099

Dear Mr. Morgan:

Your application for a loan to explore the Torpedo-Eclipse Manganese Mine has been reviewed by the Defense Minerals Administration. We have a report of a field examination made on your property to help us in judging your application.

On the basis of this report, we must conclude that the chances of finding any significant new tonnage of manganese ore by the exploration you propose are not favorable. There is no manganese ore exposed in the underground workings or on the surface. Several veins are exposed in the mine workings, but these consist chiefly of quartz, with some fluorite and barite, with locally black staining of manganese dioxide. This staining is insufficient to make manganese ore, and the outlook for better ore in depth is not promising. Under these circumstances, an expenditure of public funds for the exploration is unwarrented. We regret, therefore, that your application must be declined.

We wish to thank you for bringing the property to our attention.

Very truly yours,

J. H. East, Jr.
Executive Officer
DMA Field Team, Region IV

cc: John M. Smith, Acting Chief
Administrative Management Division

FILE COPY
SURNAME:

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

Adams
Smith.

Code 210

A. E. P.

OCT 30 1951

Mr. J. H. East, Jr.
Executive Officer
DMA Field Team, Region IV
224 New Customhouse Building
Denver 2, Colorado

Re: DMA Docket 2099
Exploration Project

Rene Morgan

Dear Mr. East:

This will acknowledge your memorandum dated October 25, 1951, transmitting the original and two copies of the report on the application of the Torpedo-Eclipse Manganese Mine, DMA Docket 2099.

The material forwarded to this office is returned herewith since the determination on this application is within your delegation of authority and should be denied by you in accordance with the fifth paragraph of Circular Letter No. 7, dated August 13, 1951. Only the original and one copy of DMA Form 3b together with a copy of the denial letter to the applicant should be forwarded to this office to complete our file.

Sincerely yours,

SIGNED cc
10/30

John M. Smith, Acting Chief
Administrative Management Division

READAMS/cmb

Copies to: Mr. Smith
Mr. Adams
Reports & Records
DMA Files

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

OCT 30 1951

Code 210

Mr. J. H. East, Jr.
Executive Officer
DMA Field Team, Region IV
224 New Customhouse Building
Denver 2, Colorado

Re: DMA Docket 2099
Exploration Project

Dear Mr. East:

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SIGNED

John H. Smith, Acting Chief
Administrative Management Division

HEADAMS/cmb

Copies to: Mr. Smith
Mr. Adams
Reports & Records
DMA Files

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

OCT 30 1951

Code 210

Mr. J. H. East, Jr.
Executive Officer
DMA Field Team, Region IV
224 New Customhouse Building
Denver 2, Colorado

Re: DMA Docket 2099
Exploration Project

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SIGNED

John H. Smith, Acting Chief
Administrative Management Division

HEADAMS/cmb

Copies to: Mr. Smith
Mr. Adams
Reports & Records
DMA Files

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

[redacted] New Customhouse
Denver 2, Colorado

October 25, 1951

Memorandum

To: Executive Secretary, Defense Minerals Administration

From: DMA Field Team, Region IV

Subject: Final Report, DMA Docket 2099, Ruell Morgan, applicant, Torpedo-Eclipse Manganese Mine, Ouray County, Colorado

Enclosed herewith are the original and two copies of the report on the subject docket.

We concur with the conclusions and recommendations of the examining team that the exploration loan of $9995.36 be denied.

The brochure is enclosed.

J. H. East, Jr.

A. H. Koschmann

Enclosures

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

200 New Customhouse
Denver 2, Colorado

October 20, 1951

Memorandum

To: DMA Field Team, Region IV

From: A. H. Koschmann

Subject: DMA Docket 2099, Torpedo-Eclipse Mine (Manganese), Mt. Sneffles Mining District, Ouray County, Colorado

Attached are 8 copies of the geologic report by Ward J. Meek covering subject docket. There is no manganese ore exposed underground or on the surface at the Torpedo-Eclipse property; however, several veins are exposed in the mine workings. One of these consists chiefly of quartz with some fluorite and disseminated pyrite, and locally black staining--presumably manganese oxide--is present, but slight. Another vein consists chiefly of quartz with some barite and a small amount of rhodochrosite. Interstitial to the barite and quartz is a secondary black mineral which forms a coating on a mineral with rhombohedral cleavage, probably rhodochrosite. The black oxide is probably psilomelane after rhodochrosite. Mr. Meek points out that there is no geologic reason to expect that manganese ore may be present on the property, and he, therefore, recommends that the loan be denied.

I concur with this recommendation.

Attached also is the brochure.

A. H. Koschmann
A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Attachments (9)

TORPEDO-ECLIPSE MINE (MANGANESE)

MT. SNEFFLES MINING DISTRICT

OURAY COUNTY, COLORADO

DMA DOCKET 2099

Geology

By Ward B. Meek, Geologist
U. S. Geological Survey

TORPEDO-ECLIPSE MINE (MANGANESE)
MT. SNEFFLES MINING DISTRICT
OURAY COUNTY, COLORADO

The Torpedo-Eclipse Mining Company has requested an exploration loan of $9995.36 for use in exploring their property in the Mt. Sneffles Mining District of Ouray County, Colorado. The owners hope to develop manganese ore.

The operating Camp Bird Mine is less than a mile down the valley from the Torpedo-Eclipse, and the buildings of the Revenue and Atlas Mines are within one-half mile across the valley from the latter.

The mine workings involved consist of several short adits and a main tunnel some 1600 feet long. Track and a 2-inch air line are in place. There is an ore bin of some 50 tons capacity, and a two-story wooden building that could be conditioned for use as a bunk house and office.

A strong vein averaging about 8 feet in width is exposed in the main tunnel and, reportedly, in two upper adits, now caved. The vein curves but has a very general east-west strike and a steep southerly dip. There are several splits from it. The enclosing rock is chiefly andesitic breccia, but a rhyolite dike forms the northern (hanging) wall at many places.

The vein material is almost entirely quartz, partly brecciated and banded. Fluorite forms occasional pockets as large as 10 x 5 x 2 feet. Pyrite, the only primary metallic mineral observed, is sparsely disseminated in the quartz and wall-rock as tiny grains. Black staining, presumably by manganese oxides, is present but slight.

There is nothing about this vein to indicate that it or its splits have any potential value in strategic minerals. Mr. Morgan's opinion that the mine should be extended to explore for manganese ore is based on the following:

1. Locally in the tunnel the rock shows a slight manganese oxide staining.

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3. Between stations 17 and 18 on the plot of the tunnel which is included in the brochure, Mr. Morgan has marked a "water course." This is a small flow of water issuing from near the floor of the tunnel where a round has been blasted out. There is no visible cross-structure. Mr. Morgan believes that a cross-structure or a split trending west-northwesterly will be found farther into the wall. His idea that any ore found here will be manganese ore is based on a few black nodules which he says he found at this point. No nodules were seen during this examination. Black staining is present which is probably manganese oxide formed by oxidation of rhodochrosite in a more pervious parallel vein or split a short distance into this wall.

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RECOMMENDATIONS

There is no manganese ore exposed underground or on the surface at the Torpedo-Eclipse Mine. There is no geologic reason to expect that any may be present unless as small scattered pockets of rhodochrosite, partly oxidized.

It is recommended that no loan be granted.

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-2099

Date received 9-24-51

Participation

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D. C. SEP 24 10 25 AM '51

Reuel Morgan
726 Ouray Avenue
Grand Junction, Colorado

Name and address of applicant

Date September 15, 1951

FILL IN THIS BLOCK

Date of application September 15, 1951

Estimated cost $9,995.36

Mineral or metal Manganese

Percentage of Government participation 75

Location of mine Mt. Sniffles mining district seven miles from Ouray County, Colorado on Camp Bird road.

Date of filing MF-100 Was never filed.

DMA Docket Number, if available 2099

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? Individual

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

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

*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project. Separate sheet attached

*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. Separate sheet

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)? $3,000.00 which is 25% of required amount.

*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. Accompanying map shows part of Torpedo-Eclipse involved
(*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted. same as (a)

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. Always has been Torpedo-Eclipse

*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. Separate sheet attached

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

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

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

*16. History: " "
(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
(*b*) State briefly the known history and production of adjoining and neighboring properties.
(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

*17. Production:
(*a*) If mine is in production, furnish the following information: Not in production and never produced anything but some high grade gold.

	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.) Not 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? Separate Sheet

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

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

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

THE REQUIREMENTS AND COSTS — " "

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

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent. 25% each month for four months.

CERTIFICATION

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

(Name of company)	By Russel Morgan (Signature of authorized official)
(Date)	Owner (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.

Question #4 - Form MF-103

(a) Mining and general business of applicant

REUEL MORGAN

Worked three years as miner in the Cripple Creek district, then leased three years there on the Ajax Mine during which time I shipped over $250,000.00 gross. Then for three years I was cashier of the United States Bank & Trust Co. in Grand Junction, Colorado.

After selling my bank stock at a nice profit I spent three years in the sheep business which was not so good, then again entered mining in the carnotite region of the Colorado Plateau district. When in company with three partners I developed and sold Rifle, Colorado vanadium to Union Carbide and Carbon for $300,000.00 in 1923 - their present subsidiary is "U. S. Vanadium Co."

With another small group of friends I then spent several years developing the Mt. Elbert Placer Mining Co. near Leadville, Colorado now leased to a California Dredging Co.

While still active at the Mt. Elbert Placer I acquired and intermittently did some development work on the Torpedo-Eclipse at Ouray in which I am still engaged.

(b) Reuel Morgan - same as above

Question #8 - Form MF-103

Financial Statement -Reuel Morgan

	Assets	Liabilities
Mt. Elbert Placer Mining stock	$ 5,000.00	
Torpedo-Eclipse Mining property	50,000.00	
Note at U. S. Bank		$ 1,200.00
Net worth		53,800.00
	$55,000.00	$55,000.00

Question #12 - Form MR-103

Torpedo-Eclipse is seven miles from Ouray, Colorado on a good road paralleling Canyon Creek after turning right just below Camp Bird Mill for a distance of approximately two miles. Shipping point is Ouray.

Question #13 - Form MF-103

Creek carrying from 50 to 150 inches runs all year right past portal of tunnel. Power line of Western Colo. Power and Light goes right past tunnel, but will not be used now unless I get an electric compressor.

Question #14 - Form MF-103

There is a 30' x 50' two story bunk house and living quarters for ten or fifteen men equipped with two stoves, beds, etc., a fifty ton loading bin direct into trucks and tunnel equipped with 8# rails to point of proposed operation.

Question #15 - Form MF-103

Ore could be trucked to Ouray from ore bin and shipped to any point you might designate.

Question #16 - Form MF-103

(a) About the turn of the century a Mr. Barnhart came to Ouray well supplied with promotional money from New York, bought part of this present group of claims and filed on others all of which he afterwards patented. He then drove a tunnel 1,300 ' at timberland on a large fault about 12' or 14' from the vein. Then on the strength of ten or fifteen sacks of very high grade gold from surface and pockets at cross vein intersections he drove a 1,500' tunnel 800' below which is the present camp, and got more high grade gold where he came near the cross intersections but never cross-cut into the mountain - always out into the overburden. At two places in the braccia he crossed the large east-west manganese vein which carries some gold but not enough to lure him on and he always returned to the fault. However these crossings were all made before getting any appreciable depth into the mountain where I have now cut it as shown on the enclosed rough sketch and from which he left it and more or less paralleled it from there into the breast.

After selling so much of his promotional stock that he lost control the property was almost totally abandoned except for occasional highgraders who worked there or those encouraged by rumors from those who had.

(b) The Bymetalist on the east took out in the early days one of the richest gold shipments from that district and could have been from the extension of the Wheel-of-Fortune vein from the Revenue and of course, the Atlas & Revenue production is a matter of common knowledge as set forth by all government circulars.

(c) As far as I know there has never been any technological examinations or metallurgical investigations made. Barnhart gave it such a derogatory reputation that not only promoters but government geologists did not even leave the operating properties long enough to look at it, thus, leaving it virtually an untouched section of the San Juan.

Question #20 - Form MF-103

The exploration will be conducted for manganese and I hope to find a nodule deposit when the drift arrives opposite the point in the existing drift from which I took nodules from the water course whose source is undoubtedly the proposed drift. You will probably wonder why I don't either diamond drill or cross-cut at this point. The reason is simple. Two known veins are coming into the manganese vein somewhere between the present breast and this point and a drift would expose them whereby a drill or cross-cut could easily fail. Then too, there is a possibility of getting good ore sooner.

Question #21 - Form MF-103

Map No. II which I am mailing you fully explains the proposed work except that later an extension might seem justified. In 90 to 120 days after starting with three good men this work, including rehabilitation of the tunnel from Manganese dump and opening parallel vein at timberline, weather permitting, should be completed.

Question #22 - Form MF-103

The geology of the Torpedo-Eclipse is no different from the rest of the San Juan triangle and I have access to no geological maps other than those found in any Bureau of Mines office. I am enclosing a general assay of the dump containing from 75 to 100 tons run by Electro Manganese Corp. The short drift from which this came will intersect the large East-West vein where I propose to work and where I found the manganese nodules in the water course coming from the vein.

Question 23 - Form M. F. - 103

(a)	Labor by numbers and classes (miners, muckers, millmen, etc.) with wages of each.	
	1 Mucker @ $1.35 per hour for four months.	$1,296.00
	1 Miner @ $1.40 " " " " "	1,392.00
(b)	1 Supervisor @$400.00 per month	1,600.00
(c)	Cost of necessary repairs to existing facilities, structures and buildings.	
	1. Tool and supply building at portal of tunnel	200.00
	2. Opening tunnel now having manganese ore on dump	108.00
	3. Driving through foot wall upper tunnel	200.00
(d)	Cost of necessary installations or construction of additional facilities, structures and buildings - fixing foundation	100.00
(e)	Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50.00 or more each.	
	1. One compressor	3,000.00
	2. One tram car	100.00
	3. One drifting machine (jack hammer)	500.00
(f)	Cost of rental of equipment which the operator proposes to rent	None
(g)	Rental value of items of equipment which the operator now owns and which will be devoted to the work.	None
(h)	Cost of materials and supplies, including items of equipment costing less than $50.00 each	
	1. Three shovels @ $2.50 each	7.50
	Two picks @ $3.25 each	6.50
	2. Powder fuse and caps	900.00
	3. Mine rails 800' x 4 @ $8.00 per cwt.	300.00
	4. Timber	
(i)	Cost of power, water utilities and any other items not provided for above	
	Miscellaneous small tools	150.00
	400' iron pipe @ $33.84 per 100'	135.36
		$9,995.36