DMEA Form 9
Rev. 6/57

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE Idm-E NO._____ DMEA NO. 4821

Application
- [x] Denied
- [ ] Withdrawn

Contract
- [ ] Terminated - Not Certified
- [ ] Terminated - Certified
- [ ] Cancelled
- [ ] Royalty Agreement

The records contained in this file are marked (x) and arranged in this order:

Folder No. 1:

Left Side

- [ ] Royalty Audits
- [ ] Certification of Discovery
- [ ] Closing Letter
- [ ] Cost Audits
- [ ] Termination Notice or Agreement
- [ ] Recision Notice
- [ ] Assignment of Contract
- [ ] Contract Amendments
- [ ] Contract with all exhibits and annexes
- [ ] Owner's Consent to Lien and Subordination Agreement
- [x] Application and attachments

Right Side

- [ ] Project summary (final)
- [ ] Work Completed analysis (final)

All other material filed in chronological order including the following reports if checked:

- [ ] Field Team Semi-Annual Report for Certified Project
- [ ] Final Field Team Report (Tab)
- [ ] Operator's Final Report (Tab)
- [ ] Interim Field Team Reports
- [ ] Operator's monthly reports and all attachments
- [x] On-site Exam Report (Tab)
- [ ] Settlement Sheets
- [ ] Drill Logs

Additional Folders:

Left Side

Folders No._____: Reports
- [ ] Analysis of Semi-Annual Inspection Reports
- [ ] Project Summary (Interim) by DMEA Engineers

Right Side

- [ ] Field Team Semi-Annual Report for Certified Project
- [ ] Field Team Interim Reports
- [ ] Operator's Monthly Reports with transmittal, narrative and maps.

Folders No._____: Maps (Use pocket folder or envelope)

Folders No._____: Settlement Sheets

Folders No._____: Drill Logs

Folders No._____: Royalty material

See DMEA 3692

17963

Form MF-103
Revised Feb. 1957

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1035.3
Approval expires June 30, 1958

RECEIVED SEP 3 1957 DMEA

APPLICATION FOR AID IN AN EXPLORATION PROJECT

PURSUANT TO DMEA ORDER I, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

NAME OF APPLICANT (Full legal name and mailing address as it should appear on contract if one is executed)

Big Timber Mind
S. H. Boeddeker
Hillsboro.
N. Dak.

APPLICANT NOT TO USE THIS BLOCK

Docket Number: 4821
Date Received: 9/3/57
Government Participation %:
Region: ~~III~~ I
Division Code: 400

BUSINESS ORGANIZATION (Check one)

- Individual [ ]
- Corporation [ ]
- Partnership [X]
- Other (Specify) [ ]

State in which firm is organized:

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

Name	Address	Title
S. H. Boeddeker	Hillsboro	N Dak
Hank Talmo	Hillsboro	N Dak.

Mineral(s) for which you wish to explore: Manganese - silver & Lead

Estimated Cost of Project: $10,000.00

LOCATION OF PROPERTY

Name	County	State
Big Timber Mind	Jefferson	Montana

GENERAL INSTRUCTIONS

Before filling out this application, please read DMEA Order-I, Amended, "Government Aid in Defense Exploration Projects." To assure prompt action, your application must provide all applicable material and information specified on the back of this application form. Avoid unnecessary correspondence and delays by submitting complete and accurate information. *Please submit four copies of this application and all accompanying papers* except as otherwise noted. Place your name and address on each sheet. Each item of information, maps, and reports required as a part of this application is described on the back of this form. Identify each attached statement by the item number to which it applies. If an item does not apply to your application, show the item number on your statement and after it write "not applicable." Maps or sketches should be used to supplement narrative descriptions of the property location and boundaries in item 1, existing mine workings and geology in item 2, and the proposed exploration project in item 4. When this information is not too complex, all of it may be shown on one map or sketch. All documents and other attachments submitted as a part of this application, except those in item 2(g) which you mark to be returned, become the property of the Government and will not be returned to the applicant. Send true copies, *not originals*, of leases, contracts, and other documents which are an essential part of your business records. *File this application with the Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest DMEA Field Office.*

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

8-29th 1957
Dated

S H Boeddeker Henry Talmo
BY (Signature)

Owners
Title

A wilfully false statement or certification to any Department or Agency of the United States Government is a criminal offense. U. S. Code, Title 18, Sec. 1001.

Hillsboro, No. Dak.
Oct. 1 - 1957

OFFICIAL FILE COPY
DMEA
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DATE	INITIALS	CODE
10/14	WSM	400

U. S. Dept of the Interior
Washington 25, D. C.

Dear sir.

In answer to your letter of Sept 13 '57, I will give you all the information I can.

Enclosed you will find a contract of sale; this contract has been paid in full.

I am sending you a map of the present mineral claims, with drawings of the vanes of mineral on this property.

I am also sending you two assayers sheets; the samples ~~where~~ were taken from the top vane.

No 1 is a sample taken from the vane of ore on the surface

No 2. is taken from the new tunnel

We have done quite a little work on the top of this vane in the gulch; We used a bull dozer and went down on the vane 30 feet. We found this vane to have two permanent walls. The vane is four feet wide at the surface;

Encl. 1

and carries beautiful looking ore of manganese lead silver & copper & some sclight.

We found out by our uncovering of this vane it doesn't go across the gulch. Last year we drove a tunnel in this vane. The mineral zone is 60 ft wide. On the hanging wall there is a 4 foot strip of 12½ % mag. On the leaning wall there is 2 feet of copper ore which tested 2%. The tunnel was driven in the right side of the gulch, but I think the main body of ore lies on the left side of gulch.

We plan to ~~to~~ continue on into the left side of the gulch by following the vane to the right in our new tunnel.

On the black Maganese in this vane the lowest assay we had was 25%. The gray maganese assayed 26%. This old tunnel is completely caved in. We opened up the portal on this old tunnel for 40 feet. It is very loose ground. A new tunnel could be made cheaper than cleaning the old one - We have had 25% mag & 26% mag. I have

3 misleid the assays on these samples.
However there is several ton of this ore at the portal of the old tunnel, which we can have an assay run on at anytime.

I have had several years experience in mining. I do some of my mining operation myself with the help of one man and part of my work I have contracted.

We have a complete line of mining equipment all paid for. I will list them and give you an estimated value on them.

1 Catepillar tractor with dozer.	$5000.
1 air motor pulles & slusher	1000
6 drills - 6 dozen bits, 4 shovels 4 picks	200
1 Rail grinding tool spike puller	20
2 - 100 foot air hose 1 - 100 ft. water hose	100
1 keg cage of tie spikes 2 keg cages bolts.	50
4 tons of rails, 2 cages rail clamps.	450
1 water tank 1 gas tank	100
1 compresser.	1500
6000 foot of plank & timber ties	500
300 ft of 2 inch pipe 6 valves cuplings elbows	100

Here is my estimated cost of the two projects.

For drifting on the vane 200 ft. at 25.00 per ft. $5000

For driving a new tunnel 300 ft at $25 per ft. $7500.

The proposed sight of this new tunnel would be on the second gulch of the mountain to the left; which will be described on the map.

I think I should ask for an increase of the loan to $12500.00

I hope this information will be sufficient, and that the proposed contract can be terminated.

Sincerely yours

S. H. Boeddeker

RECEIVED
Rep.
OCT 2 1957
U. S. G. S.
SPOKANE, WASH.

A. V. TRENT,
Owner-Manager

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS
46 South Main Street, Helena, Montana

TEL. HI 2-3770
P. O. BOX 537

Date AUG 31 1956

UMPIRE ASSAY ..... CONTROL ASSAY ..... HAND SAMPLE .....

ASSAYED FOR J. N. Bradshaw

MARKS:

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	MgO Per Cent	Total Value Per Ton
1		Trace	0.4	0.6	0.3				10.76	0.36
2		Trace	0.3	0.6	Trace				9.36	0.27
3		Trace	0.3	0.4	Trace				7.43	0.27

Gold not deducted: Paid
Charges $ 2.50

GOODALL BROS.
By A. V. Trent

Encl. 2

A. V. TRENT,
Owner-Manager

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS
46 South Main Street, Helena, Montana

TEL. HI 2-3770
P. O. BOX 537

II 2

Date MAR 2 - 1957

UMPIRE ASSAY ..... CONTROL ASSAY ..... HAND SAMPLE .....

ASSAYED FOR N. N. Breddeker Box 25 Jeff. City MARKS:

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	MN. Per Cent	Total Val Per To
	Big Timber Mine	0.005	0.5						12.2	

Gold not deducted: .....

Charges $ 4.00

GOODALL BROS.

By A. V. Trent

This Agreement, made and entered into this 17th day of October, 1956, by and between RIVERSIDE MINING COMPANY, a Montana corporation, First Party, and S. H. BOEDDEKER, of Hillsboro, North Dakota, Second Party, WITNESSETH:

That for valuable considerations, in hand paid to First Party by Second Party, the receipt whereof is hereby acknowledged, First Party hereby grants to Second Party the exclusive right and option to purchase, upon the terms and conditions hereinafter set forth, those certain quartz lode mining claims, situated in Colorady Mining District, in Jefferson County, Montana, described by name and Book and Page numbers of the Lode Location records in the offi ce of the Clerk and Recorder of Jefferson County, Montana, at which the original certificates of location thereof are recorded, as follows:

Name.	Book.	Page.
BIG TIMBER,	48	285.
BIG TIMBER NO. 2,	48	305.
BIG TIMBER NO. 3,	48	306.
BIG TIMBER NO. 4,	48	307.
BIG TIMBER NO. 5,	48	308.
BIG TIMBER NO. 6,	48	309.
BIG TIMBER NO. 7,	48	310.

1. Price and Terms: The price to be paid by second party for said mining claims is the sum of Five Thousand Five Hundred and Sixty Dollars ($5,560.00), and the terms of payment of said price are as follows:

(a) At the time of the execution and delivery hereof, second party shall endorse and deliver to first party its Certificates of capital stock for 3300 shares and 260 shares, respectively, now standing upon the records of first party in the name of second party, for which second party shall receive credit for $3560.00 upon said purchase price.

(b) Second party is hereby allowed and hereby accepts the allowance to him of $1000.00 credit upon said purchase price in full payment for all bull-dozing and other services and labor performed for first party by him up to the time of the execution and delivery hereof.

(c) The sum of $500.00 in cash upon the execution and delivery hereof, the receipt of which sum is hereby acknowledged.

(d) The further and final sum of $500.00 to be paid on or before February 1, 1957.

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RECEIVED OCT 14 1957

DATE	INITIALS	CODE
10/14	WSM	400

Encl. 3

Second party also, as a part of the consideration for said mining claims, also assume all of the obligations of first party to Robert V. Erickson under the agreement of first party with him, dated October 25, 1954, a copy of said agreement being hereto annexed, marked Exhibit A, and hereby made a part hereof.

2. Escrow: Simultaneously with the execution and delivery hereof first party shall cause to be executed and placed in escrow in the First National Bank and Trust Company of Helena, Montana, together with an executed copy of this agreement, a grant deed, conveying said mining claims to second party, and said Bank is instructed to hold said deed in escrow and deliver the same to second party hereto upon the payment by him to said Bank for the credit of first party, on or before February 1, 1957, of said final sum of $500.00; but if said sum of $500.00 is not so paid to said Bank on or before February 1, 1957, said Bank shall hold said deed subject to the order of first party.

3. This agreement shall be binding upon and inure to the benefit of the heirs, personal representatives, assigns, and other successors in interest of the respective parties hereto to the same extent as it is binding upon and inures to the benefit of the parties hereto.

IN WITNESS WHEREOF the parties hereto have executed these presents the day and year hereinabove first written.

RIVERSIDE MINING COMPANY,
First Party,

By Chester Leirness
Its President.

Attest:
Floyd Sandvedl
Its Secretary.

(Corporate seal)

G H Boeddeker
Second Party.

State of Montana,)
SS.
County of Lewis and Clark,)

On this 17th day of October, 1956, before me, C. E. Pew, a notary public for the State of Montana, personally appeared Chester Leirness, known to me to be the President of the corporation that executed the within instrument, and acknowledged to me that said corporation executed the same.

In Witness Whereof I have hereunto set my hand and affixed my notarial seal the day and year in this certificate first above written.

Notary Public for the State of Montana, residing at Helena, Montana. my commission expires Sept. 30, 1959

(Notarial seal)

State of _____,)
SS.
County of _____,)

On this _____ day of _____, 1956, before me, _____ _____, a notary public in and for the County and State aforesaid, personally appeared S. H. Boeddeker, known to me to be the person whose name is subscribed to the within instrument as second party thereto, and acknowledged to me that he executed the same.

In Witness Whereof I have hereunto set my hand and affixed my notarial seal the day and year in this certificate first above written.

Notary Public in and for the County and State aforesaid, residing at _____. My commission expires _____

(Notarial seal)

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DATE | INITIALS | CODE

This agreement, made this 25th day of October, 1956, by and between RIVERSIDE MINING COMPANY, a Montana corporation, and ROBERT V. ERICKSON, of Jefferson County, Montana, WITNESSETH:

That for and in consideration of the services rendered by said Robert V. Erickson in assisting in the location of the Big Timber Quartz Lode Mining Claim, situated in Jefferson County, Montana, certificate of location of which is of record in the office of the clerk and recorder of said County in Book 48 of Lode Locations at page 285, said Riverside Mining Company agrees to pay said Erickson ten per cent (10%) of the net returns from all ores produced and marketed by said Riverside Mining Company from said Big Timber Claim, until said Erickson shall have received the sum of Ten Thousand Dollars ($10,000.00); after which such payments shall cease.

In Witness Whereof the parties hereto have executed these presents the day and year hereinabove first written.

RIVERSIDE MINING COMPANY,

Attest: By Chester Leirness, Its President.

Lloyd Sondreal, Its Secretary.
(Corporate seal) Robert V. Erickson.

State of Montana,)
SS.
County of Lewis and Clark,)

On this 25th day of October, 1954, before me, C. E. Pew, a notary public for the State of Montana, personally appeared Chester Leirness, known to me to be the President of the Riverside Mining Company, the corporation that executed the foregoing instrument, and acknowledged to me that said corporation executed the same.

And at the same time and place personally appeared before me Robert V. Erickson, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same.

Witness my hand and notarial seal the day and year in this certificate first above written.

C. E. Pew
Notary Public for the State of Montana, residing at Helena, Montana. My commission expires Sept. 30, 1956.

(Notarial seal)

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Exhibit 9

Charles E. Pew
Attorney at Law
314 FULLER AVENUE
HELENA, MONTANA

November 7, 1956

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DMEA
RECEIVED OCT 14 1957

DATE		CODE
10/14	WSM	400

Mr. S. H. Boeddeker
Hillsboro, North Dakota

Dear Mr. Boeddeker:

The Deed from the Riverside Mining Company to you of the Big Timber group of mining claims was executed and placed in the First National Bank& Trust Company at Helena, Montana, together with a copy of the Escrow Agreement which was executed by the Riverside Mining Company.

I had the record examined to see that there had been no conveyances of any of these claims and enclose herewith, together with an executed copy of the Escrow Agreement, the letter of the Abstract Company.

Yours very truly,

C. E. PEW

CEP:mv
Encl.2

Encl. 4

JEFFERSON COUNTY ABSTRACT COMPANY

BOULDER, MONTANA

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RECEIVED 14 1957

DATE		CODE
10/14	WSM	400

Oct. 11, 1956

Mr. C. E. Pew, Attorney
Helena, Montana

Dear Sir:

As per your phone call of this morning we have checked the following unpatented Lode Mining Claims, to-wit:

Big Timber Lode; Big Timber Lode No. 2; Big Timber Lode No. 3; Big Timber Lode No. 4; Big Timber Lode No. 5; Big Timber Lode No. 6 and Big Timber Lode No. 7;

all located either by John D. Johnson, Wilson Jeffers, Chester Leirness and Harold J. Spittler or by Riverside Mining Company, as per location recorded in Book 48 of Lode Locations, pages 285, 305, 306, 307, 308, 309 and 310.

We do not find any liens or encumbrances, of any kind, against the said claims, after a thorough check of the records of Jefferson County, Montana; and which search covered Liens, Attachments, Lis Pendens, Certificates of Sale, Mortgages, and Miscellaneous records in the office of the County Clerk and Recorder's office and Suits and Judgments in the office of the Clerk of the District Court in and for Jefferson County, Montana.

Our statement is attached.

Very truly yours,

F. B. Weed

F. B. Weed,
Registered Abstracter

All of the above listed claims stand of record in the name of the "Riverside Mining Company" as of this date.

Encl. 5

3560

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DMEA
RECEIVED 14 1957
DATE | INITIALS | CODE
10/14 | WSM | 400

838 Sixth Avenue
Helena, Montana
November 29th., 1954

Mr. Chester Leirness
Hillsboro, North Dakota

Dear Mr. Leirness:

I am enclosing herewith, for your records, a "Map of Claims" together with a "Plan Map" of the present tunnel workings on the Big Timber property. The claim map is complete, but the other is complete only insofar as the workings and surface showings were accessible. As soon as the tunnel rehabilitation is finished I shall add to this map. The present plan-map will give you some idea as to what to expect in the way of old workings as the work progresses. Also, it will give some information regarding vein locations on surface and some idea as to distances thereto underground. The old-workings extension was arrived at by remarks contained in a U. S. Geological Survey Bulletin No. 842, so this portion of the map should not be taken too literally. I believe, however, that the map should be reasonably correct in this respect; at any rate, close enough to get some idea of the old working tunnel.

A detailed map of the upper manganese tunnel will be made as soon as sufficient work has been performed thereon to so warrant. As you know, this upper manganese showing, as presently exposed, indicates a very strong vein and samples much better than does the manganese vein immediately beyond the present rehabilitation work. However, there is every indication that the lower vein should be pretty strong at depth. As you know, reports suggest that the higher grade of manganese ore in the form of carbonate (pink) should prevail at a reasonably shallow depth below surface. This will be proven by completion of the present lower-tunnel program, at this particular vein; and by contemplated work at the so-called upper manganese vein.

Regarding the upper work, we made a preliminary road survey to that tunnel and found that a permanent truck road thereto would involve a much longer distance than previously anticipated, in order to obtain a reasonable "grade". It was suggested, and I believe the plan now is to put a temporary (steep) road up the gully and forego the other construction until it may be more definitely established just what tonnage of ore might be forthcoming from this source. The temporary road may be readily traveled by using the present dozer, and whatever equipment that might be needed at this workings could be transported by dozer. Later you may have your own large angle-dozer for road-building; or at any rate, there may be more justification for a permanent truck road expenditure.

Encl. 6

Within the next day or so I expect to get the Peterson maps and other information relating to that property, and determine where the most logical dozer trench-work might be performed. An examination of the surface might be delayed for a while due to a recent heavy snow-fall. Unless more snow falls, the present snow should disappear quite rapidly.

The Madison-Erickson copper property apparently has merit, but it is recommended that this development and exploratory work should be deferred until Spring. The character of work suggested here would not lend itself to Winter operations, particularly during the initial development stages. A more detailed examination should also be conducted at that time.

Sincerely,

S. J. Giulio

S. J. Giulio

cc: Mr. Jeffers

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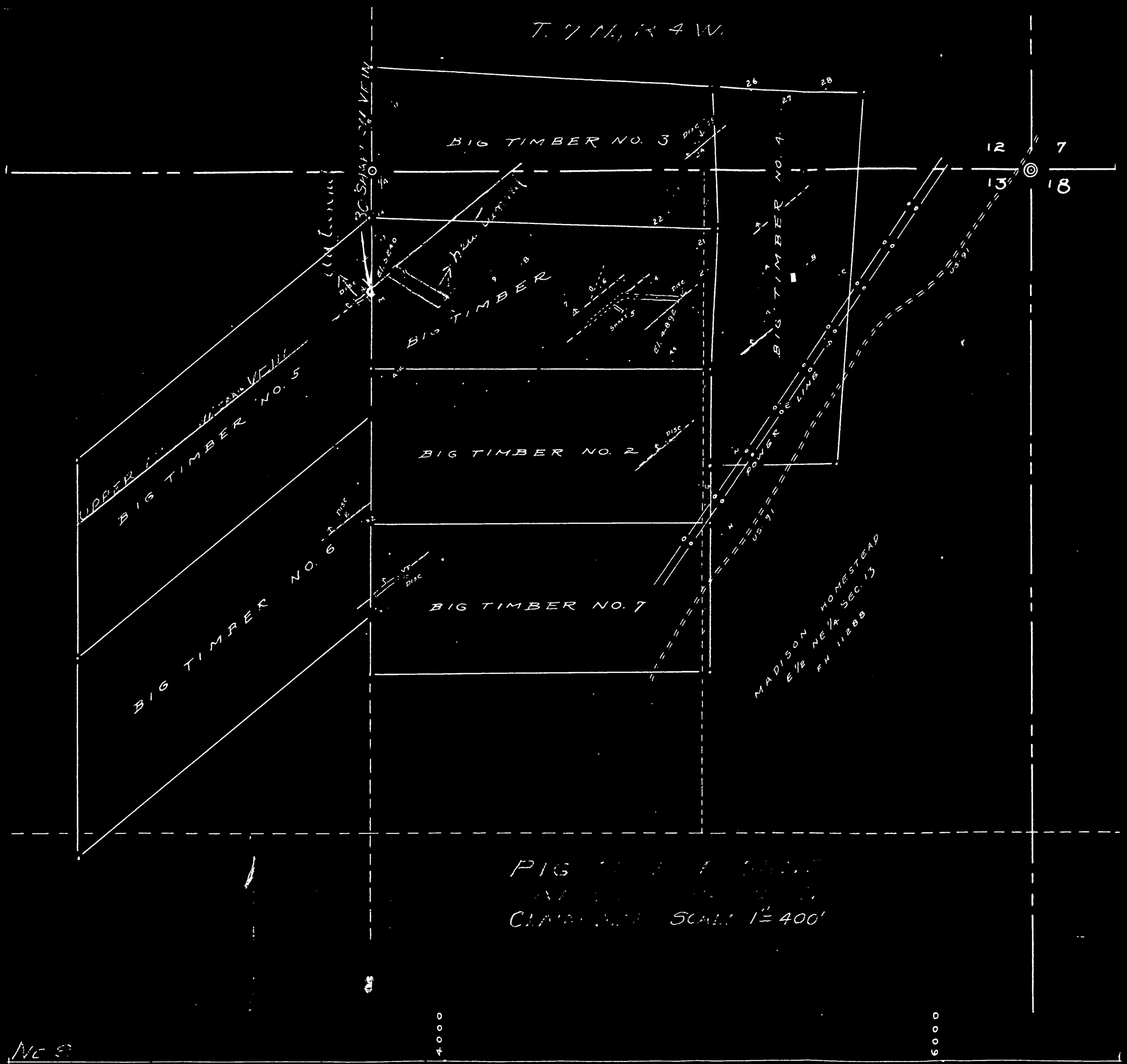
OCT 2 1957
U. S. G. S.
SPOKANE, WASH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BIG TIMBER
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BIG TIMBER NO. 7
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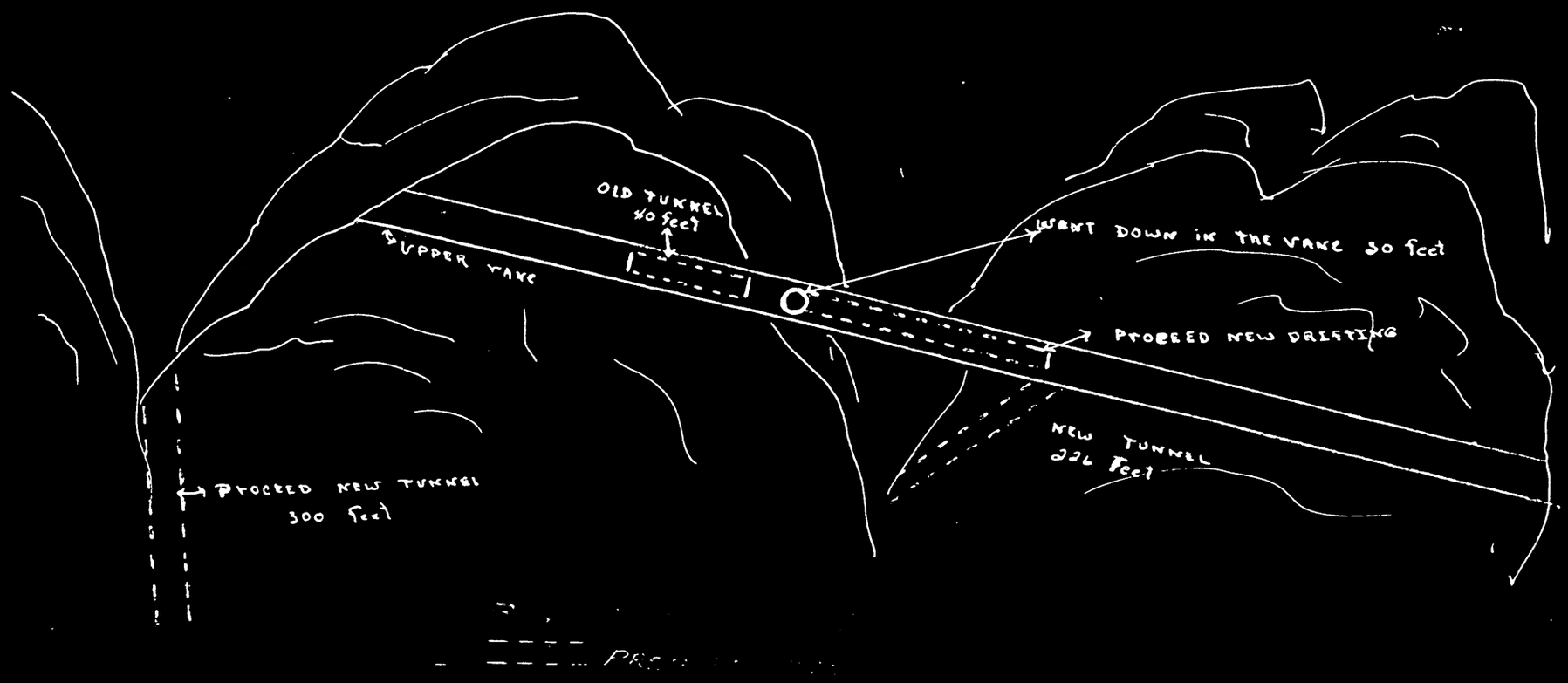
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U. S. Government Messenger Envelope

Standard Form No. 65 (Rev. 1/46)

1. Use blocks consecutively, one at
2. Void previous block.
3. Write clearly.

NAME OR TITLE OF PERSON, DEPARTMENT, ADDRESS, AND ROOM		NAME OR TITLE OF PERSON, DEPARTMENT, ADDRESS, AND ROOM	
~~[illegible]~~ NAVY ANNEX	RUN		RUN
	STOP		STOP
Armed Forces Medical Public Agency Bldg Med Code 2b 2300 E Street, N.W. Washington, D.C.	RUN		RUN
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Dr. John Kurwin Room 6120 Interior Bldg.	RUN		RUN
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Defense Minerals Exptor Adm.	RUN		RUN
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Send surplus envelopes to supply room for reissue.

Use other side

16—389

Use RUN and STOP only when messenger service between Government buildings in Washington is required. Your mail room has RUN and STOP information.

DMEA Form 7
(12-56)

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Date	Surname	Code
2-3	Chapman	400
2-3	Crawford	400
2/7	Jeffords	130
2/7	Kamb	130
2/7	Kiilsgaard	130
"	Johnson	110
"	Fritzenkoff	100
		2320

FEB 7 1958

Mr. S. H. Boeddeker
Hillsboro, North Dakota

Re: Docket No. DMEA 4821- Manganese-Lead
Pig Timber Mine
Jefferson County, Montana

Dear Mr. Boeddeker:

Your application for exploration assistance and other data available to us in Washington concerning the referenced property have been reviewed.

Projects approved by the Defense Minerals Exploration Administration must, in its judgement, show definite promise of yielding materials of acceptable grade in quantities that will significantly improve the mineral supply position for the National Defense Program.

Careful study of all our information, although noting the occurrence of manganese and lead mineralization on your property, indicates to us that the probability of disclosing significant ore reserves is not sufficiently promising to justify Goverment participation. Under these circumstances, we regret to advise you that your application is denied.

We wish to thank you for your interest in the Defense Minerals Exploration Administration program and for bringing this property to our attention.

Sincerely yours,

TLCHAPMAN/dlm 2-3-58
cc to: Code 400
Admr. R. File
Oper. Comm.
FT. REG. I
Messrs. Gilbert DeHuff, USBM
T. H. Kiilsgaard, USGS

C. O. Fitzenkoff
Administrator

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
2-3	Chapman	400
2-3	Martin	400
		110
		100

MEMORANDUM

To: Administrator, DMEA

From: Division of Iron and Ferro-Alloys, DMEA

Subject: Denial of the subject application for exploration assistance in the amount of $12,500 (supplementary letter)
Docket No. DMEA 4821, Manganese-~~Lead~~
S. H. Boeddeker
Big Timber Mine
Jefferson County, Montana

A denial of the subject application is recommended by this Division based on the following information.

A former application for exploration assistance, Docket No. DMEA -3692, by the Riverside Mining Company, for bulldozing, drifting and sinking, estimated to Cost $27,500.00 was denied on July 14, 1955, after field examination, for lack of a suitable target.

Applicant:
S. H. Boeddeker
Hillsboro, North Dakota

Property Ownership:
The Applicant controls 7 unpatented lode mining claims purchased from the Riverside Mining Company. The claims are located in the Colorado Mining District, Jefferson County, Montana, and are recorded as follows:

Name of Claim	Book No.	Claim No.
Big Timber	48	285
Big Timber No. 2	48	305
Big Timber No. 3	48	306
Big Timber No. 4	48	307
Big Timber No. 5	48	308
Big Timber No. 6	48	309
Big Timber No. 7	48	310

The application for exploration assistance was made on September 3, 1957, as new work had been completed. By letter of October 1, 1957, the applicant supplied the additional information that final payments for purchase of the property had been made to the Riverside Mining Company.

Examination:

The property was examined by William C. Prinz, Geological Survey, on November 19, 1957, accompanied by Bob Shute for the Applicant.

Geology: The property lies in the Boulder batholith of late Cretaceous age and it is overlain unconformably by Tertiary volcanics. On the property are several northeast striking veins, the New York vein being the most prominent. This vein is along the footwall of a shear zone and is from 2 to 6 inches wide and consists of black and brown oxides of iron and manganese.

The bulldozer trench and New York vein (?) in the lower adit shows some rhodochrosite. The lower adit cuts numerous gouge zones which show rhodochrosite, pyrite or black manganese oxides.

Development:

The work on the property consists of a 350 foot caved crosscut, a caved inclined shaft reported to be 550 feet deep, 220 foot adit (by applicant) and bulldozer trenching.

Ore Values and Tonnage:

Samples taken by examining geologist are as follows:

Sample No.	Width	Ag. ozs.	Cu%	Pb.%	Mn. %
817	35"	0.15	0.09	0.13	Tr.
818	15"	Tr.	0.10	0.13	Tr.
819	32"	Tr.	0.06	0.25	6.23
820	11"	None	0.06	0.13	0.66
821	11"	None	0.01	0.06	8.86
822	15"	None	0.04	0.32	5.90

The first four samples were cut in the lower adit.
Samples No. 817 was cut in gouge zone mineralized wall rock.
Samples No. 821 and 822 are from the dozer trenches.
These samples do not indicate that the New York vein is more attractive as a target.

Proposed Work:

The Applicant proposes to drift 200 feet southwest along the New York vein from the lower adit. He also proposes to drive a 300 foot tunnel from an indefinite site in an adjoining gulch.

History and Production:

No production has been made from the property, and there are no ore reserves.

Comments: The examining Geologist does not believe that the recent work has improved the property and recommends that the application be denied. The Field Team concurs in this recommendation.

The Commodity Divisions of the Geological Survey, and the Bureau of Mines, concur in the conclusions and recommendations of the Field Team.

W S Martin

W. S. Martin, Director
Division of Iron and Ferro-Alloys

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 30 1958

DATE	INITIALS	CODE
1/30	C	220
	WSM	400

[illegible]
[illegible]
[illegible] of Mines
[illegible]ington 25, D. C.

Date January 29, 1958

DMEA Market No. 4821
DMEA Contract No.
Commodity Mn - Pb
Name of applicant S. H. Boeddeker
Name of property Big Timber Mine
Location of property Jefferson Co., Mont.
Estimated cost of project $10,000

W. S. Martin, DMEA

From: G. L. DeHuff, Jr., Commodity Specialist
Branch of Ferrous Metals and Ferroalloys
Subject: Review of Field Team Report
(Application, Field Team Report, [illegible])

1. Date of project termination 1/10/58 2. Date received by reviewer: 1/28/58

3. Other reports on this property known to reviewer: Yes [X] No [ ]

4. Other reports on similar properties known to reviewer: Yes [ ] No [X]

5. Information available on post production: Yes [ ] No [X]

6. Other pertinent factors known to reviewer: Yes [X] No [ ]

7. Explain items marked yes above: Please see my 9/25/57 memo.

8. Factors meeting general consideration:
a. Location [ ]
b. Ownership [ ]
c. Evidence of mineralization
d. Geology [ ]
e. Proposed exploration method [ ]
f. Alternate exploration method [ ]
g. Costs [ ]
h. [ ]

9. Action advised:
a. Obtain information from applicant [ ]
b. Refer to Field Team [ ]
c. Denial [X]
d. Agree with Field Team [X]
e. Disagree with Field Team [ ]
f. Suggest alternate plan [ ]
g. Request another examination [ ]
h. Approval [ ]
i. Consult with Mr. _____ at _____ AEC office.

10. Remarks: (Use back of page if necessary)

G. L. DeHuff, Jr.

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DMEA
RECEIVED JAN 17 1958

DATE	INITIALS	CODE
1/17	C	220
	WSM	400

IN REPLY REFER TO:

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

January 16, 1958

Re: DMEA 4821
S. H. Boeddeker
Big Timber Mine
Jefferson County, Montana
$10,000.00 - Manganese-lead

Memorandum

To: W. S. Martin, Defense Minerals Exploration Administration

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of Field Team Report

The applicant requested assistance in exploring by cross-cutting and drifting narrow veins in a shear structure in the Boulder batholith, said to carry manganese, silver, lead and tungsten. The property was the subject of DMEA application 3692 which was denied. The applicant stated he had subsequently changed the looks of things by new work and solicited assistance in continuing the exploration.

Work has centered on exploration of the shear or fault structure. Work in an upper drift adit had shown vein-like streaks on the hanging and footwall sides of the structure carrying rhodocrosite and manganese oxide, as:-

No. sample	Strand	Width	Ag.Oz	Cu %	Pb %	Mn %
			Per Ton			
821	Footwall Gouge	11"	0.0	0.01	0.06	8.86
822	Hangingwall Altered quartz monzonite	15"	0.0	0.04	0.32	5.90

In the new work, a crosscut adit, 84 feet below and 190 feet northeast of the upper adit showing, probably the same shear structure, here 25 feet wide was cut. Samples of the footwall gouge and 2" gouge and altered quartz monzonite on the hanging wall assayed:-

No. Sample	Strand	Width	Ag.Oz	Cu %	Pb %	Mn %
			Per Ton			
819	Footwall	32"	Tr.	0.06	0.25	6.23
817	Hanging	35"	0.15	0.09	0.13	Tr.

In the opinion of the examiner, the manganese-bearing vein is too small and low grade to constitute a suitable exploration target, and he recommends that the application be denied.

I concur with the recommendation.

N. E. Nelson

N. E. Nelson

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
So. 157 Howard Street
Spokane 4, Washington

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 13 1958

DATE		CODE
1/13	gb	220
1-15	2/12	130
1/16	C	220
	WSM	400

January 10, 1958

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-4821 (Manganese-Lead)
S. H. Boeddeker
Big Timber Mine
Jefferson County, Montana

Dear Mr. Selfridge:

Attached are three copies of a report by W. C. Prinz, Geologist, U. S. Geological Survey, recommending denial of an application submitted by S. H. Boeddeker to explore the Big Timber mine in Jefferson County, Montana. This application is a re-submittal of an application that was previously denied (Docket DMEA-3692).

Prinz concludes that work done by the new applicant has made the property even less attractive than formerly. The Field Team concurs in this conclusion and recommends denial of the application.

By Field Team, Region I

Wing G. Agnew

Wing G. Agnew, Acting Exec. Officer
U. S. Bureau of Mines

Donald R. MacLaren

Donald R. MacLaren, Acting Member
U. S. Geological Survey

Enclosures

cc: USBM (2)
USGS (SRO)
Prinz

071-Site
EXAM. Rpt.

Reviewed by
DMEA OPERATING COMMITTEE
1-15-58
(Date)

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 13 1958

DATE	INITIALS	CODE
1/15	JHB	130
		220

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
So. 157 Howard Street
Spokane 4, Washington

January 8, 1958

MEMORANDUM

To: DMEA Field Team, Region I

From: William C. Prinz, Geologist, U. S. Geological Survey

Subject: Examination Report, Docket No. DMEA-4821 (Manganese-Lead), S. H. Boeddeker, Big Timber Mine, Jefferson County, Montana

Reviewed by
DMEA OPERATING COMMITTEE
1-15-58
(date)

INTRODUCTION

On August 7, 1957, the applicant, Mr. S. H. Boeddeker, wrote the Field Team requesting reconsideration of a previously denied application for aid to explore the Big Timber mine, Jefferson County, Montana, for manganese (Docket No. DMEA-3692, Riverside Mining Company). Inasmuch as Mr. Boeddeker had purchased the property and had done more work since the time of the denial, the DMEA requested him to submit a new application and Mr. Boeddeker submitted a most incomplete application on September 3, 1957. Additional information was requested by the DMEA in its letter of September 13 and Mr. Boeddeker complied with this request on October 1, 1957.

The applicant wishes to explore the New York vein, called the "upper vein" in the application, on the Big Timber property for manganese, silver, lead, and tungsten by a 200-foot drift and a 300-foot crosscut adit. He estimates that the program would cost $12,500; Government participation at 75 percent would be $9,375.

The property was examined by the author on November 19, 1957, accompanied by Bob Shute for the applicant. Mr. Shute is a contract miner who has done much of the recent work on the property.

SUMMARY AND RECOMMENDATIONS

The Big Timber mine lies within the quartz monzonite or granodiorite Boulder batholith (late Cretaceous). A northeast-striking and northwest-dipping manganese-bearing vein, the New York vein, is exposed in two adits and in a dozer trench. A previous application

for aid to explore this vein was denied because of too little evidence of a worthwhile target. Additional work since the denial has not furnished any additional evidence that a worthwhile target exists. Therefore, it is recommended that this application also be denied.

LOCATION AND ACCESSIBILITY

The Big Timber mine is about 18 miles south of Helena, Montana, in the eastern part of the Wickes mining district. It is in the N½ of sec. 13, T. 7 N., R. 4 W., Jefferson County, Montana. It can be reached from Jefferson City, Montana (about 16 miles south of Helena) by going south on U. S. Highway 91 for 2 miles, then turn west, pass through a field gate, and continue up a small draw for about three-quarters of a mile to the property. At the time of the examination, the mine road was blocked about half a mile from the mine so the last part of the trip was on foot. If the road were cleared, it appears that it would be passable to passenger cars. Although snowfall in the area is heavy, the road could probably be kept open most of the year.

APPLICANT

According to Bob Shute, the applicant, S. H. Boeddeker, in partnership with Hank Talmo, both of Hillsboro, North Dakota, is a rancher with little experience in mining. Boeddeker was a stockholder in the Riverside Mining Company, the company which submitted the first application for DMEA assistance to explore this property. Recent work on the property has been performed mainly by Bob Shute and his cousin, Al Shute on a contract basis. They drove the new adit at a unit cost of $25 per foot and, should a contract be awarded, Bob Shute felt that the applicant would probably continue to contract the work with them.

PROPERTY RIGHTS

The applicant controls 7 unpatented mining claims, having purchased them from the Riverside Mining Company on October 17, 1956. In his letter of October 1, 1957, the applicant stated that the contract had been paid in full. According to the applicant, these claims are recorded in the Jefferson County, Montana courthouse as follows:

Claim	Book	Page
Big Timber	48	285
Big Timber No. 2	48	305
Big Timber No. 3	48	306
Big Timber No. 4	48	307
Big Timber No. 5	48	308
Big Timber No. 6	48	309
Big Timber No. 7	48	310

The Big Timber claim on which the proposed work would be done is subject to 10 percent royalty to Robert V. Erickson until the sum of $10,000 is paid. Most of the Big Timber No. 4 and the eastern edges of the Big Timber Nos. 2, 3, and 7 claims are in conflict with the Madisen Homestead. However, this is a quarter of a mile from the site of the proposed exploration work and would have no direct bearing on the disposition of the application.

DESCRIPTION OF PROPERTY

The Big Timber property lies on the west side of the valley of Beavertown Creek at altitudes ranging from 4,800 to 5,600 feet. The altitude of the property in the area where exploration work is proposed is about 5,200 feet and the slopes are moderately steep.

East of the portion of the property considered in the present application is a 350-foot caved crosscut which intersects the Helena vein and two unnamed veins, and a caved inclined shaft on the Helena vein reported to be 550 feet deep (U. S. Geol. Survey Bull. 842, p. 239). In the area considered here, there is a 35-foot drift (upper adit) on the New York vein with some trenching at the portal, and 220 feet of crosscutting (lower adit) which intersects the New York vein below and east of the drift (pl. 1). The trenching and 220 feet of crosscutting have been done since the previous application. U. S. Geol. Survey Bull. 842 notes an inclined shaft on the New York vein (p. 240) but its locality is not known.

No record of production from the property is available. However, some lead-zinc production from the Helena vein has been noted (U. S. Geol. Survey Bull. 842, p. 238) at a time when the property was known as the Helena-Jefferson mine.

GEOLOGY

The following description of the geology of the property is taken, in part, from Darrell M. Pinckney's examination report dated June 11, 1955, on the Big Timber Mine, Riverside Mining Company, Jefferson County, Montana, Docket No. DMEA-3692.

The property considered in this report lies in the Boulder batholith about 15 miles south of Helena, Montana. The Boulder batholith is late Cretaceous in age, is intrusive into the Elkhorn Mountain volcanics (upper Cretaceous), and is overlain unconformably by Tertiary volcanics. These three groups of igneous rocks are all acidic and all have essentially the same composition. The batholith is composed mainly of quartz monzonite or granodiorite with common late dikes or blebs of alaskite.

On the Big Timber property, several northeast-striking and northwest-dipping veins are found. The New York vein (called the "upper vein" by the applicant) is the one considered in the present application. The vein was exposed only in the upper adit at the time the property was examined by Pinckney (Docket No. DMEA-3692) who describes it as follows:

"The New York vein, as exposed in the applicant's adit, is along the footwall of a shear zone which cuts medium-grained quartz monzonite of the Boulder batholith. The vein is from 2 to 6 inches wide and consists of black and brown oxides of iron and manganese.

"The shear zone consists of a strong footwall fracture and a weaker hanging wall fracture spaced about 12 feet apart. Both fractures strike about N. 62° E. and dip 70° to 80° northwest. The rock between the two main fractures is cut by many minor fractures which contain small amounts of manganese and iron oxides. The quartz monzonite within or near the shear zone is altered to sericite, clay, and chlorite. The richest part of the vein is at the portal of the adit and is a pod consisting largely of black and brown secondary minerals. According to the applicant's assays this pod contains 29.8 percent manganese and 0.5 ounce of silver. The pod is about 5 feet wide at the portal but pinches to several inches 10 feet from the portal. The pod is a residual gossan produced by weathering and does not indicate a commercial manganese deposit."

Since Pinckney's examination, this vein has been opened up further by trenching eastward from the upper adit, and has been cut in the lower adit (pl. 1).

In the trench, the applicant claims to have gone down 30 feet on the vein; however, the bottom of this trench is filled with muck and the vein can be examined only on the walls and face of the trench. The bottom of the trench (top of muck) is only about 11 feet below the level of the sill of the upper adit. The hanging wall of the vein along the north side of the trench consists of about 12 inches of gouge with some pods of black manganese oxide. The footwall, as exposed in the southwestern corner of this trench, is a gouge zone containing an 8-inch vein of rhodochrosite. Altered quartz monzonite cut by numerous gouge seams, some of which contain limonite and black manganese, occurs between the two walls.

What is believed to be the extension of the New York vein is exposed in the lower adit about 180 feet from its portal (pl. 1). The vein here consists of 18 inches of gouge with some rhodochrosite and pyrite. A thin zone of rhodochrosite-bearing altered wall rock is exposed immediately north of the vein. The main vein here is

smaller and weaker than it is in the upper adit and trench, but does have about the same strike and dip. The lower adit also cuts numerous diversely oriented gouge zones, some of which contain malachite, rhodochrosite, pyrite, or black manganese oxides. The applicant reports scheelite in these workings, but they were carefully lamped with negative results. Some fluorescence resulted from oil on the walls of the adit which probably confused the applicant.

Assay results are shown on plate 1 and are tabulated below.

Sample No.	Width	Ozs. Ag/ton	% Cu	% Pb	% Mn
817	35"	0.15	0.09	0.13	Tr
818	15"	Tr	0.10	0.13	Tr
819	32"	Tr	0.06	0.25	6.23
820	11"	None	0.06	0.13	0.66
821	11"	None	0.01	0.06	8.86
822	15"	None	0.04	0.32	5.90

The first four samples were cut in the lower adit. Sample 817 was cut across a malachite-bearing gouge zone and mineralized altered wall rock, 818 and 820 are from weakly mineralized gouge zones, and 819 is from the main vein and altered wall rock to the north. Samples 821 and 822 are from the deer trench; 821 was cut across the rhodochrosite vein at the southwest corner of the pit and 822 from a black manganese oxide pod along the north edge of the trench. None of the assays indicate commercial-grade material and all are below the values reported by the applicant. Assays furnished with the previous application (Docket DMEA-3692) showed 0.2 to 29.8 percent manganese in samples cut in the upper adit, but the values were too spotty to constitute ore.

The primary target of the previous application was to explore the New York vein southwest from the upper adit and at depth. This application was denied because of too little evidence of a worthwhile target. Subsequent work by the present applicant has not made this vein a more attractive target; if anything, it is now less attractive.

APPLICANT'S PROPOSAL

The applicant proposes to drift 200 feet southwest along the New York vein from his lower adit; his statement in his letter of October 1, 1957 that he would like to go to the right is wrong. He evidently meant to the left. This proposed work would explore the New York vein to a point below the southwestern end of the upper adit, 84 feet below the adit level. This target was not considered adequate to warrant an exploration program before and it is considered a less likely target now.

The applicant also proposes to drive a 300-foot tunnel "on the second gulch of the mountain to the left." Mr. Shute, who represented the applicant at the time of the examination, did not know the location referred to by the applicant, and it could not be located from the map submitted with the application. From the map, it appears that such a tunnel would serve no useful purpose.

The applicant's estimated cost of $25 per foot for the crosscutting and drifting is the amount he paid Al and Bob Shute for driving the lower adit.

CONCLUSIONS

Although a manganese-bearing vein is found on the property, it is of low grade and too small to constitute a suitable exploration target. Work since denial of a previous application has decreased rather than increased the attractiveness of the property and, therefore, it has been recommended that this application also be denied.

Attachment 1

Distribution:
DMEA (3)
USBM (2)
USGS(SRO)
Docket
Prins

FILE COPY
DMEA
RECEIVED NOV 15 1957

DATE		CODE
11/15	C	220
11/18	WSY	400

So. 157 Howard Street
Spokane 4, Washington

November 12, 1957

Messrs. Al and Bob Shute
Jefferson City, Montana

Re: Docket No. DMEA-4221 (Manganese-Silver-Lead)
Big Timber Mine
Jefferson County, Montana

Gentlemen:

Mr. S. H. Boeddeker has submitted an application for DMEA assistance in exploring the Big Timber Mine and has written us stating that you will represent him during our examination of the property. Mr. Galen Waddell, Mining Engineer, U. S. Bureau of Mines, and I will be in Montana the week of November 18 and we would like to examine the Big Timber property on Tuesday, November 19, 1957. We will plan to meet you in Jefferson City in the morning of that date if this is satisfactory with you.

Should the snow conditions be such that you feel a satisfactory evaluation of the property cannot be made at that time, please wire me at the U. S. Geological Survey , S. 157 Howard Street, Spokane, Washington, before Monday, November 18 as we plan to leave Spokane early that morning.

Sincerely yours,

William C. Prinz
Geologist

cc: S. H. Boeddeker
Hillsboro, North Dakota

DMEA (2)
USBM (2)
Prinz

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
10-17	Chapman	400
10/17	Martin	400
10/23	Alford	130
10/23	Lamb	130
10/23	Kiilsgaard	130
"	Jolson	110
"	Mittendorf	100
10/24	gb	220
		400

OCT 23 1957

Mr. S. H. Boeddeker
Hillsboro, North Dakota

Re: Docket No. DMEA 4821 - Manganese-Lead
Big Timber Mine
Jefferson County, Montana

Dear Mr. Boeddeker:

The above-referenced application for exploration assistance for manganese and lead ores has been reviewed by the Division of Iron and Ferro-Alloys of the Defense Minerals Exploration Administration, and referred to Mr. A. B. Weissenborn, Executive Officer, DMEA Field Team, Region I, South 157 Howard Street, Spokane 4, Washington, for a field examination of the property.

Any assistance you can give the members of the Field Team will be appreciated.

Sincerely yours,

C. O. Mittendorf

Administrator

FT does not say how it rec'd info from B. —

TLChapman/dlm 10-17-57
cc to: Code 400
Admr. R. File
Oper. Comm.
FT. REG. I
Messrs. Gilbert DeHuff, Jr. USBM
T. H. Kiilsgaard, USGS

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
10-17	Chapman	400
10-17	Martin	400
10/23	[illegible]	130
"	[illegible]	110
"	[illegible]	100
10/24	[illegible]	220
		400
10/23	Lamb	130
10/23	[illegible]	130

OCT 23 1957

Mr. A. B. Weissenborn, Executive Officer
DMEA Field Team, Region I
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA 4821 - Manganese - Lead
G. E. Boeddeker
Big Timber Mine
Jefferson County, Montana

Dear Mr. Weissenborn:

The above-docketed application for exploration assistance is being referred to your office for a field examination of the property.

Copies of memoranda dated September 10 and 25, 1957, by E. B. Nelson, Geological Survey, and G. L. DeHuff, Jr., Bureau of Mines, respectively, relating to the project are enclosed. Also enclosed is an extra copy of the application and copies of items 7 and 8 as requested in your letter of October 9, 1957.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

APPROVED:

Frank D. Lamb (DHB)
Member, Bureau of Mines

Thor H. Kiilsgaard (DHB)
Member, Geological Survey

TLChapman/dlm 10-17-57
cc to: Code 400
Admr. R. File
Oper. Comm.
FT. REG. I
Messrs. Gilbert DeHuff, USBM
T. H. Kiilsgaard, USGS

Inclosures

8623

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
So. 157 Howard Street
Spokane 4, Washington

OFFICIAL FILE COPY
DMEA
RECEIVED OCT 14 1957

DATE	INITIALS	CODE
10/14	C	220
10/14	WSM	400

October 9, 1957

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-4821 (Manganese-Lead)
Big Timber Mine
Jefferson County, Montana

Dear Mr. Selfridge:

Listed below ~~are~~ is additional information received from Mr. S. H. Boeddeker apparently in response to your letter of September 13, 1957:

1. Letter dated October 1, 1957, outlining work and giving costs therefor.

2. Two assay sheets, one dated August 31, 1956 and one dated March 2, 1957.

3. Lease agreement dated October 17, 1956 between Riverside Mining Company and S. H. Boeddeker.

4. Letter dated November 7, 1956 from C. E. Pew, Attorney, to Mr. Boeddeker.

5. Letter dated October 11, 1956 from F. B. Weed, Registered Abstracter, to C. E. Pew.

6. Letter dated November 29, 1954 from S. J. Giulio to Chester Leirness.

7. Sketch showing proposed work (on cardboard paper).

8. Claim map.

We have retained a copy of each of the enclosures except for items 7 and 8. These last two items should be returned to us if a referral is made.

Sincerely yours,

D. R. MacLaren
Alternate Acting Exec. Officer
DMEA Field Team, Region I

Enclosures

cc: USBM (2)
Prinz

OFFICIAL FILE COPY
DMEA
RECEIVED SEP 26 1957

DATE	INITIALS	CODE
9/26	B	220
9/27	WSM	400

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

Date September 25, 1957

DMEA Docket No. 4821
DMEA Contract No.
Commodity Mn - Pb
Name of applicant S. H. Boeddeker
Name of property Big Timber Mine
Location of property Jefferson Co., Mont.
Estimated cost of project $10,000

To: W. S. Martin, DMEA

From: G. L. DeHuff, Jr., Commodity Specialist
Branch of Ferrous Metals and Ferroalloys

Subject: Review of Application
(Application, Field Team Report, etc.)

1. Date subject documents: 8/29/57 2. Date received by reviewer: 9/24/57

2. Other reports on this property known to reviewer: Yes [X] No [ ]

4. Other reports on nearby properties known to reviewer: Yes [ ] No [X]

5. Information available on past production: Yes [ ] No [X]

6. Other pertinent factors known to reviewer: Yes [X] No [ ]

7. Explain items marked yes above: An application (DMEA-3692) for manganese exploration of this property from Riverside Mining Co., c/o C. E. Pew, Helena, Mont. in the amount of $27,200 was denied 7/14/55. Present applicant claims to have driven a tunnel and sunk a winze at the property since that time.

8. Factors needing special consideration:
- a. Location [ ]
- b. Ownership [ ]
- c. Evidence of mineralization [X]
- d. Geology [ ]
- e. Proposed exploration method [X]
- f. Alternate exploration method [ ]
- g. Costs [ ]
- h. _____ [ ]

9. Action advised:
- a. Obtain information from applicant [X]
- b. Refer to Field Team [X]
- c. Denial [ ]
- d. Agree with Field Team [ ]
  - i. Consult with Mr. _____ at _____ AEC office.
- e. Disagree with Field Team [ ]
- f. Suggest alternate plan [ ]
- g. Request another examination [ ]
- h. Approval [ ]

10. Remarks: (Use back of page if necessary) It is recommended that subject application be referred to the Field Team for consideration as a possible manganese-lead exploration project after additional information requested of the applicant has been received.

G L DeHuff Jr

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
9-12	Chapman	400
9-12	Martin	400
9/13	[illegible]	130
9/13	Lamb	130
9/13	Kiilsgaard	130
		~~770~~
		~~100~~
		220

1957

Mr. S. H. Boeddeker
Hillsboro, North Dakota

Re: Docket No. DMEA 4821 - Manganese-Lead
Big Timber Mine
Jefferson County, Montana

Dear Mr. Boeddeker:

Before we can recommend a field examination of the property covered by your above-noted application for exploration assistance we will need additional information as follows:

1. In our letter of August 21, 1957,* we requested that you furnish a map showing the work you had carried out on the property and its relationship to prior work, and assay returns from any samples you may have taken.

2. In the application it is necessary for you to outline the work you consider advisable, such as bulldozing, drifting, crosscutting, raising, sinking, diamond drilling or long-hole drilling, and to give an estimate of the cost of work. A sketch should be submitted to show the relationship of the proposed work to existing mine workings.

Sincerely yours,

Frank E. Johnson
(Bye)
ACTING Administrator

TLChapman/dlm 9-12-57
cc to : Code 400
Admr. R. File
Oper. Comm.
FT. REG. I
Messrs. Gilbert DeHuff, Jr. USBM
T. H. Kiilsgaard, USGS

(*) Docket No. DMEA 3692

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
9-13	Chapman	400
9-13	Martin	400
9/13	GCS	130
"	Johnson	110
		100
9/13		220
		400

SEP 13 1957

Mr. A. E. Weissenborn, Executive Officer
DMEA Field Team, Region I
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA 4821, Manganese-Lead
S. H. Boeddeker
Big Timber mine
Jefferson County, Montana

Dear Mr. Weissenborn:

Reference is made to the application of Mr. S. H. Boeddeker for exploration assistance. This application gave no data as to the amount and type of work or estimate of cost.

Attached are the original and two copies for the Field Team of a proposed letter to Mr. Boeddeker requesting further information. Please forward the letter to Mr. Boeddeker if an examination has not been made (or officially scheduled) as suggested in our letter of August 21, 1957, Docket No. DMEA-3692.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

APPROVED:

Frank D. Lamb

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey

TLCHAPMAN/foc 9-13-57
cc to: Code 400
Admr. R. File
Oper. Comm.
FT. REG. I
Messrs. Gilbert DeHuff, USBM
T. H. Kiilsgaard, USGS

Enclosure

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
9-12	Chapman	400
9-12	Martin	400
		130
		110
		100
		220

Mr. A. B. Weissenborn, Executive Officer
DMEA Field Team, Region I
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA 4821 - Manganese-Lead
S. H. Boeddeker
Big Timber Mine
Jefferson County, Montana

Dear Mr. Weissenborn:

Reference is made to the application of Mr. S. H. Boeddeker for exploration assistance. This application gave no data as to the amount and type of work or estimate of cost.

Attached ~~for your review~~ for the Field Team are the original and ~~three~~ copies of a proposed letter to Mr. Boeddeker requesting further information. ~~If this letter meets with your approval,~~ Please forward to Mr. Boeddeker ~~in~~ case a field examination has been made as suggested in our letter of August 21, 1957, or has already been scheduled, it will not be necessary to send this letter.

Sincerely yours,

APPROVED:

Chairman, Operating Committee

Member, Bureau of Mines

Member, Geological Survey

TLChapman/dlm 9-12-57
cc to: Code 400
Admr. R. File
Oper. Comm.
FT. REG. I
Messrs. Gilbert DeHuff, Jr. USBM
T. H. Kiilsgaard, USGS

Enclosures

Docket No. 8692

8623

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RECEIVED 1957
DATE CODE
9/11 C 220
9/11 WSM 400

IN REPLY REFER TO:

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

September 10, 1957
Re: DMEA 4821
S. H. Boeddeker and Hank Talmo
Big Timber mine
Jefferson County, Montana
$10,000.00 - Manganese

Memorandum

To: W. S. Martin, Defense Minerals Exploration Administration

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of application

In a most incomplete document, the applicant requests assistance in exploring a vein or veins at the Riverside Mining Company property. Such veins were the subject of an application, DMEA 3692, which was denied in 1955. Mr. Boeddeker has become owner of the property and says he has uncovered by tunneling showings of pink manganese, copper, silver, and scheelite in the 'upper' vein.

I assume the 'upper' vein is the New York vein of the previous, 3692, application. Of the vein the examiners said..."The New York vein, as exposed in the applicant's adit is along the footwall of a shear zone which cuts medium-grained quartz monzonite of the Boulder batholith. The vein is from 2 to 6 inches wide and consists of black and brown oxides of iron and manganese."

"The shear zone consists of a strong footwall fracture and a weaker hanging wall fracture spaced about 12 feet apart. Both fractures strike about N. 62° E. and dip 70° to 80° northwest. The rock between the two main fractures is cut by many minor fractures which contain small amounts of manganese and iron oxides. The quartz monzonite within or near the shear zone is altered to sericite, clay, and chlorite. The richest part of the vein is at the portal of the adit and is a pod consisting largely of black and brown secondary minerals. According to the applicant's assays this pod contains 29.8 percent manganese and 0.5 ounce of silver. The pod is about 5 feet wide at the portal but pinches to several inches 10 feet from the portal. The pod is a residual gossan produced by weathering and does not indicate a commercial manganese deposit."

Perhaps, if questioned, the applicants will tell with more exactness what they have recently uncovered.

Referral of the application to the Field Team is recommended.

N. E. Nelson

N. E. Nelson

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

September 3, 1957

Mr. S. H. Boeddeker
Hillsboro, North Dakota

Subject: DMEA 4821

Dear Mr. Boeddeker,

Your application for exploration assistance, dated August 29, 1957 submitted to our office at Washington, D. C. has been assigned Docket Number 4821 and referred to the Division of Iron & Ferro-Alloys in the Washington office. Kindly identify all future correspondence relating to your application by this Docket Number.

Sincerely yours,

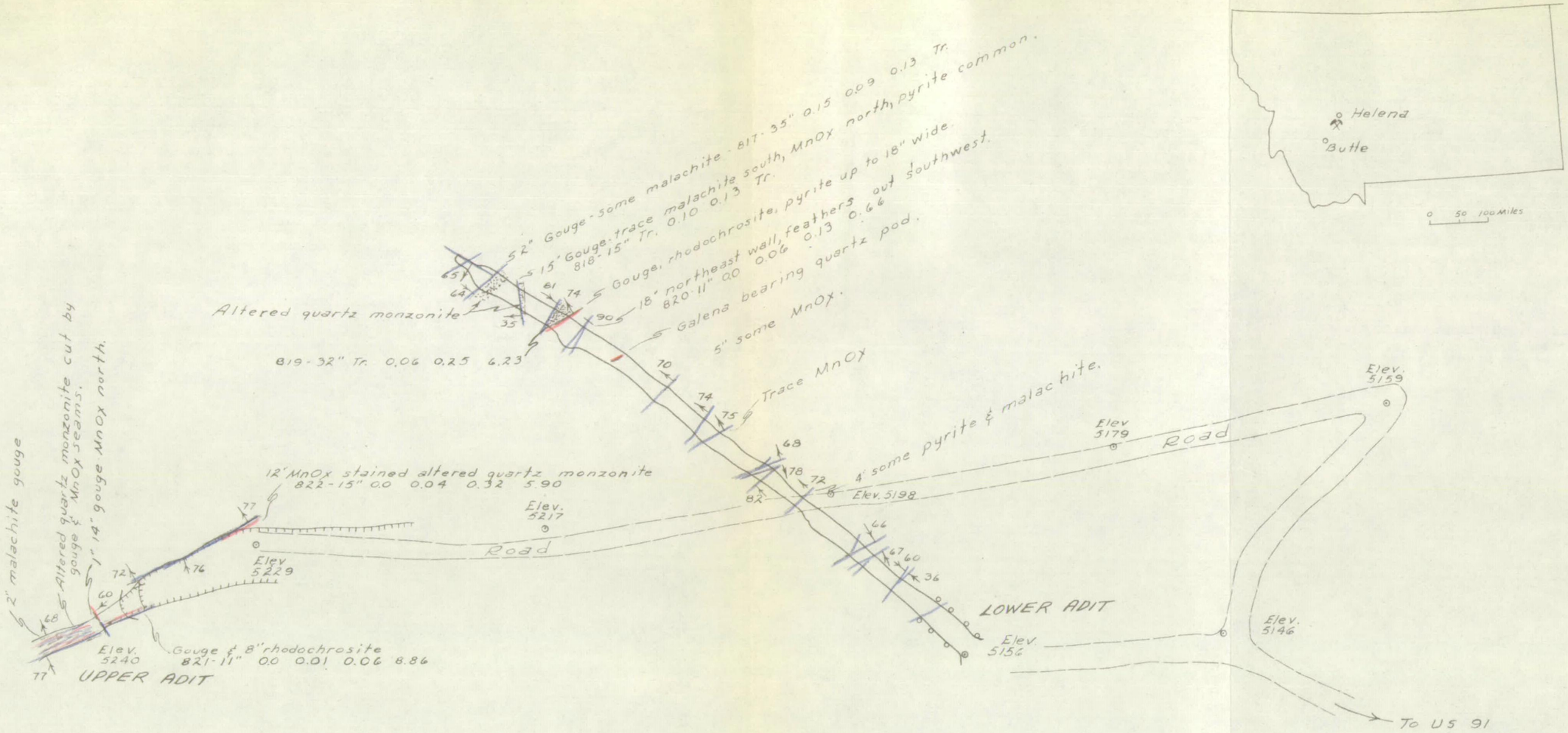
Allen S. Dakan, Director
Operations Control and
Statistics Division

Copy to:
Region I

UNITED STATES
DEPARTMENT OF THE INTERIOR

PREPARED FOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
APPLICATION REPORT

DOCKET NO. DMEA 4821



Tape & Brunton survey by Wm C. Prinz.

December, 1957

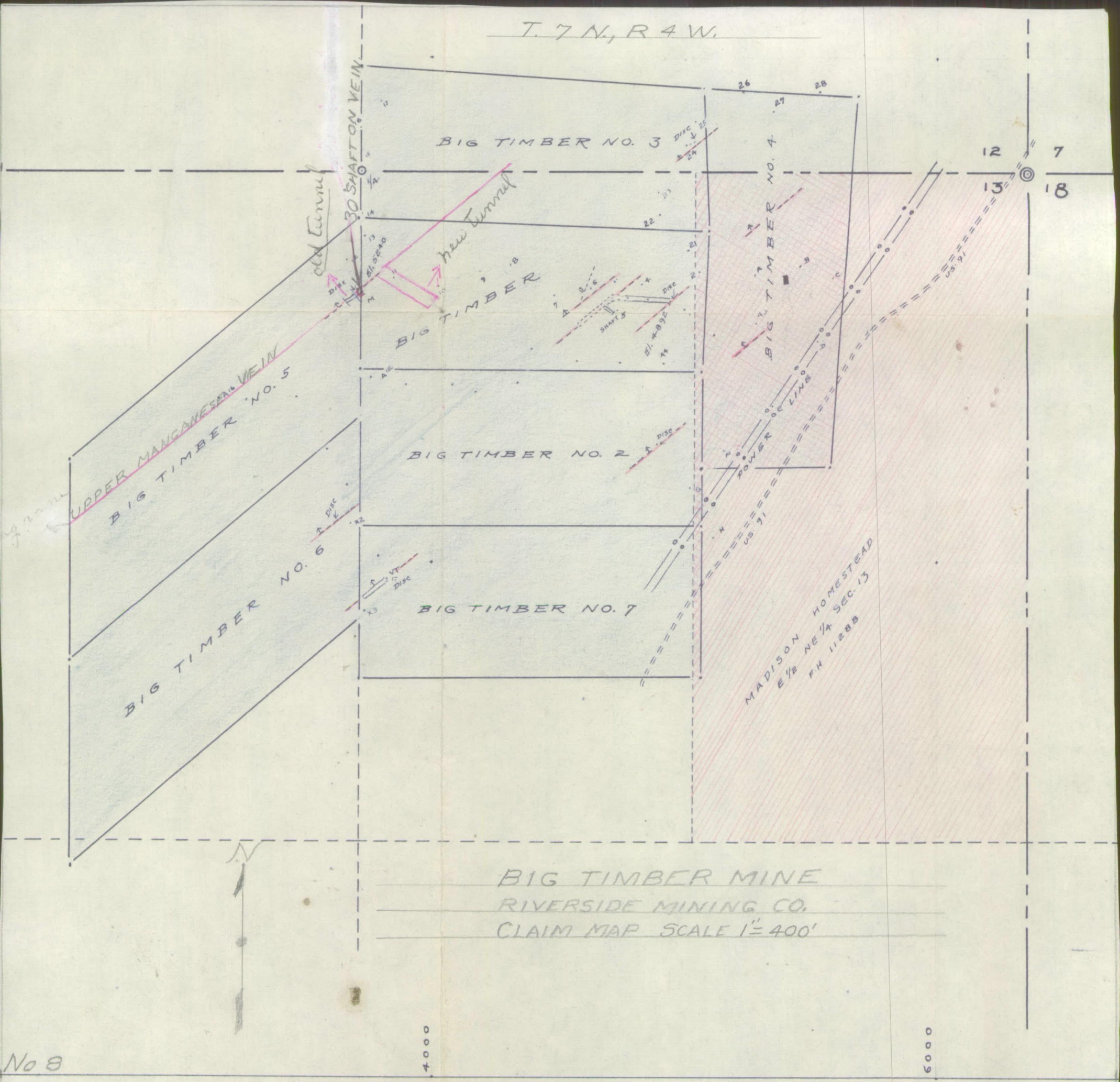
PLATE 1

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 13 1958

DATE	INITIALS	CODE

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 13 1958

DATE	INITIALS	CODE

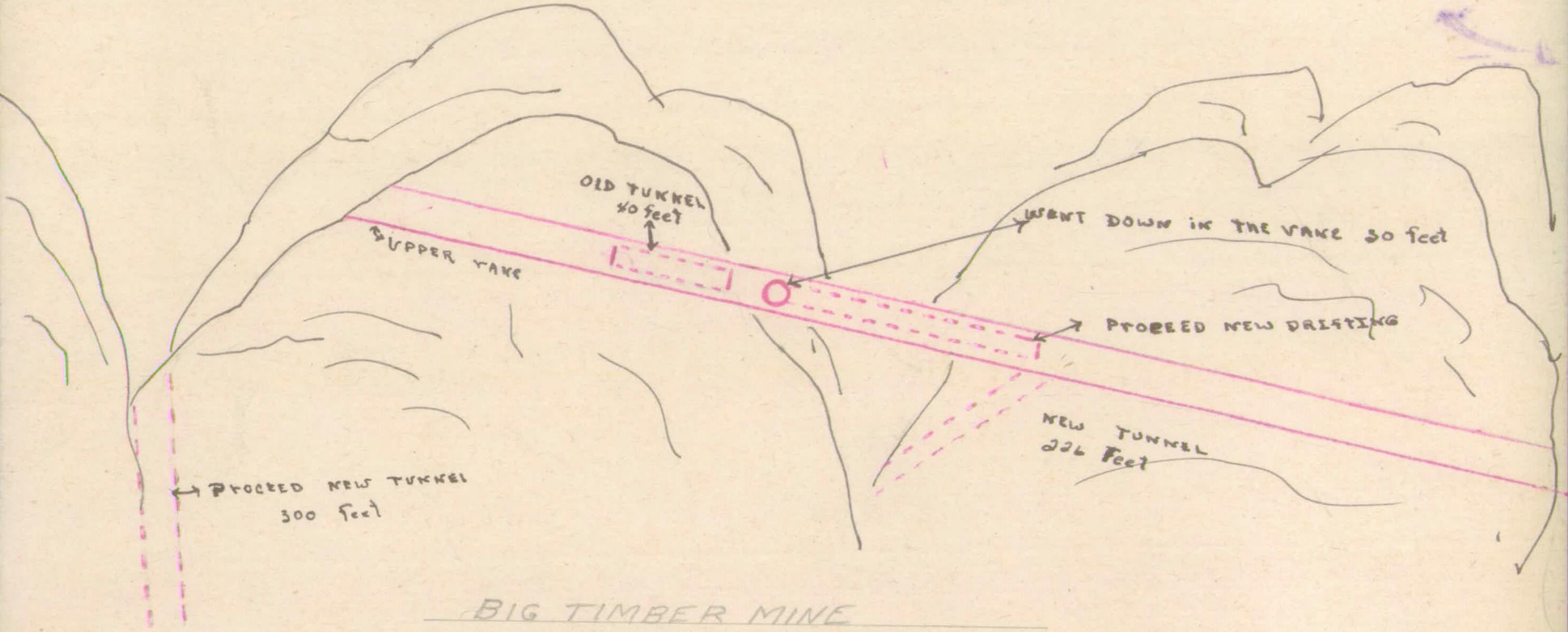


BIG TIMBER MINE
RIVERSIDE MINING CO.
CLAIM MAP SCALE 1" = 400'

No 8

Encl. 8

Fig. 7



BIG TIMBER MINE

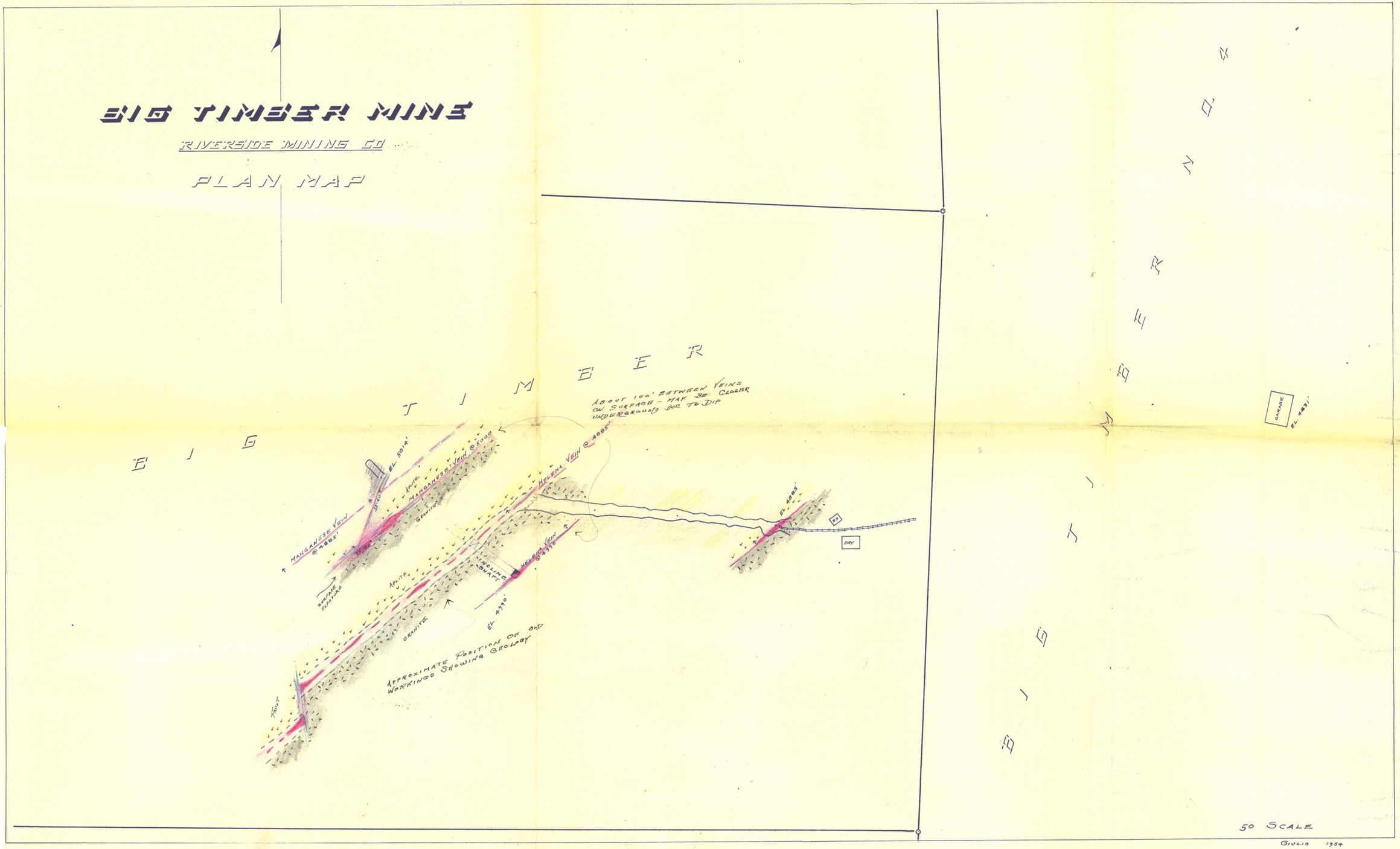
---- PROPOSED WORK

No. 7

OFFICIAL FILE COPY
DMEA
RECEIVED OCT 14 1957

DATE	INITIALS	CODE
10/14	WSM	400

BIG TIMBER MINE

RIVERSIDE MINING CO

PLAN MAP