.DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

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DMEA ~~DMX~~ Docket No. 2498

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EXPLORATION PROJECT

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Copies to USBM, USGS, and Region II.

To:	Code 700, Rm. 4640	Date 4-23-52
(1) To:	C. H. Johnson Rm. 3621	Date 5-16-52
(2) To:	Ted Nelson Rm. 4216 GSA	Date
(3) To:	Cpr. Com. Rm. 4624	Date 6-13-52
(4) To:	Mail & Files Rm. 4079	Date
(5) To:	Code 700 Rm. 4640	Date
To:	Open Com	Date 12-12-52
To:	Open Com	Date 2-26-54
To:		Date
To:		Date
To:		Date
To:		Date
To:		Date
To:		Date
To:		Date

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CONTROLLED DOCUMENT

Missoula, Mont.
Oct. 29, 1952.

Coffer.

A. E. Weissenborn,
Executive Officer, DMEA
Field Team, Region II
So. 157 Howard Street,
Spokane 4, Washington.

Dear Mr. Weissenborn:

Re: Amended Application for
MONIA MINING CO. INC.
Docket No. DMEA 2498

Reference is made to your letter of Oct..27th, for clearification of the above captioned.

All of the developing work will be contingent upon the ore found thru core drilling. The reason Fred Honkala did not suggest any further work was that he thought we should await the results of the diamond drilling.

From a point 65 feet in from the portal of the tunnel, we hit milling ore which is blocked out now approximately fifty feet wide by eighty feet in depth, sampling from one to three and one-half percent.

We want to locate thru drilling, the leads in depth, that were found on the surface by stripping.

We have found ore on the surface from five to fifteen percent in copper, with some gold and silver. If we are able to locate this ore to balance out our milling ore, now blocked out, we will then continue our development program. That is the reason for applying for the additional mining costs. We feel confident in picking up at least one or more of these leads as exposed on the surface.

I would suggest that the drilling, engineering and assaying be approved, and the mining contingent upon the success of this operation.

Trusting this will clearify the questions involved.

Very truly yours,

GWF:ct

MONIA MINING CO. INC.

By Glen W Faulkner

Director & General Mgr.

c.c. Ernest Wm.
Ellis, Chief Rare and
Miscel. Metals Division

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget Bureau No. 42-R1035.2.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 3 1952

AMENDED APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

~~DOCKET DMEA 2498~~

Not to be filled in by applicant

Docket No. dmea 2498 AMENDED
Metal or Mineral
Date Received 11-3-52
Estimated Cost
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: MONIA MINING CO. INC.
Box 1115
Missoula, Montana

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract

(*b*) State any mine name by which the property is known.

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property.

(*e*) If you own the land, describe any liens or encumbrances on it

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice.

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points.

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

5. *The exploration project.*—(*a*) [illegible]te the mineral or minerals for which you w[illegible] to explore .....

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

(*c*) The work will start within ..... days and be completed within ..... months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

NOTE.—No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)?

(*b*) How do you propose to furnish your share of the costs?

☐ Money ☐ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

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.

Dated October 21st, 195 2

MONIA MINING CO. INC.
(Applicant)

By Glen W Faulkner

Director & General Manager

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

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

AMENDED APPLICATION

DOCKET DMEA 2498 (copper)
MONIA MINING COMPANY, INC.

ESTIMATE COST OF CORE DRILLING & OPERATION FOR SIX MONTHS.

Diamond Drilling	$5,250.00
Engineering	1,100.00
Assaying	150.00
Industrial Accident Bd. (Workmen's Comp. Ins.)	432.00
Social Security & Unemployment Compensation Ins	275.00
Auditing and Bookkeeping	350.00
Powder, caps and fuse	600.00
Steel & bits	240.00
Diesel, Gas and Oil	650.00
Labor (2 miners)	3,000.00
Caterpillar operator & Supervisor work	2,400.00
Telephone and Postage	72.00
Compressor rental @ $150.00 per month (6 mos)	900.00
Truck rental @ $150.00 per month (6 mos)	900.00
Caterpillar rental - 4 mos. @ $250.00 per mo.	1,000.00
Carpenter - 1 mo. (2 cabins & ore bin)	450.00
Lumber and hardware	600.00
Enlarge the present bunk house	200.00
Seal present cook house	200.00
Build Reservoir (concrete and steel)	550.00
Total	$19,519.00

REPORT ON GEOLOGIC RECONNAISSANCE

OF MONIA MINING CO. PROPERTY, SANDERS CO., MONTANA

by
Fred S. Honkala

INTRODUCTION

The Monia Mine property of the Monia Mining Company was investigated in reconnaissance on August 18, 1952 at the request of Glen Faulkner of Missoula, Montana, one of the owners. I was accompanied by Sid Groff of Missoula and Red McMurtrie, the mine foreman. I again visited the property on October 11, 1952, and it was mapped in reconnaissance with the assistance of Bill Rohrer and Tom Pullen, geology students at Montana State University.

The property is located on the upper reaches of Whitney Creek, a tributary of Thompson River which rises in the Cabinet Range in Sanders County in northwestern Montana.

GENERAL GEOLOGY

The country rock at the property is in the Belt Series of late Precambrian age. The chief lithologies are argillite (a metamorphosed shale) and argillitic quartzite (a metamorphosed shaly sandstone). Since these rocks are metamorphosed sediments bedding is still readily apparent in them.

The rocks of the region show considerable deformation. Large-scale folding can be seen farther down the Thompson River and the rocks at the mine have probably been folded also. Faults are present and can be seen in the workings and are also evidenced topographically by gullies.

The quartzite is quite dense. Quartzites and argillites are often less receptive to mineralization than more calcareous rocks. However, there are fractures along which some mineralization has occurred.

These fractures include:

1. The main shear zone which trends northwest-southeast and is generally parallel to the bedding of the country rock. A shovel cut has been made across the zone. Movement has been distributed over closely-spaced parallel planes of slippage, forming a zone about fifteen feet wide. There seems to be no one major fault plane as such, but rather a shear zone. Considerable brecciation of the country rock occurred in places along the zone. Locally, fracture cleavage suggests that the north side moved down in relation to the south side, that is, beyond the limits of the shear zone. A bulldozer cut which ascends to the upper level portal exposes a clayey zone about 50 feet to the north that may be the continuation of the above zone. The clay is probably gouge (powdered rock) that has been formed along the zone.
2. A fault showing some mineralization is present about 50 feet above and slightly southeast of the old upper entry. The fault dips to the northeast.
3. The argillite to the northeast is in fault contact with the argillitic quartzite to the southwest at the southeast end of the lower level. The fault plane dips 65° NE and the northeast side is upthrown. The above lithologies may be in fault contact throughout the workings.

MINERALIZATION

The copper minerals noted at the surface and underground include: chalcopyrite, bornite, melanterite, chalcanthite, malachite, and azurite, the first two being primary and the last four secondary. Pyrite was also present, and more extensive examination in the laboratory and field may reveal other minerals.

There is relatively little mineralization in evidence and what there is

of it is mostly secondary crusts or films on fractures. Both shear zone and country rock contain primary chalcopyrite. The bedding and slippage planes are parallel and the chalcopyrite stringers in the country rock seem to be parallel to the bedding. Primary chalcopyrite is found near the mouth of upper level as small, elongate lenses which average about $\frac{1}{4}$ in. by $1\frac{1}{2}$ in. in cross section. The shear zone has probably not displaced any mineralized areas except such as may exist on other faults which may trend into the zone.

RECOMMENDATIONS

The property is still in an exploratory stage rather than in a developmental stage. Some high-grade ore is reported to have been taken out about fifty years ago from the upper level. According to the owners, on the basis of assays, some marginal milling ore has been blocked out by present exploration but it is needed in large quantities before it can be profitable. Geologically speaking, it must be said that what can be seen is not too encouraging. A 45-mile truck haul over country roads must also be included in the cost of producing the potential ore. The only reasons for spending more money on the project are that there is evidence of mineralization and that there are structures capable of localizing ore deposition.

If more money is to be spent on the property, then it would seem that systematic exploration and thorough geologic study are needed. The core drill has proven to be the answer to systematic exploration in many mining camps and usually is considerably handier and cheaper than exploration by tunnels, cross-cuts and other underground passageways. I feel that a core-drilling program could give definite information. I suggest holes be drilled as indicated on the accompanying map. Holes 6 and 7 are optional, but may afford valuable information.

Other comments and pertinent information include:

1. A geologic (or just plain prospecting) reconnaissance of the area around the workings may prove valuable. There may never have been much mineralization here, but it also could be a fringe area of a more heavily mineralized area. A plane might be hired and prospecting be carried on from air for unusual color changes of soil or other features that may be indicators of mineralization. Late fall, before snowfall, would be the best time for this.
2. If the workings were ever mineralized more than they are now, the minerals have been removed by solution in ground water (leaching) and deposited as secondary minerals, such as cuprite, at depth. Since the minerals were chiefly in the shear zone, and since the shear zone is brecciated and porous, mineral-bearing ground waters would have most easily continued down the shear zone for several hundred feet where there may now be a concentration of secondary ore. This aspect seems quite worthwhile for exploration, and several of the holes should intersect the zone at depth. Evidence for leaching is present, particularly in the fault zone mentioned under "fractures" in sub-heading 2, on page 2.
3. Occasional complete chemical analyses of samples should be made. There is always a chance that relatively small amounts of strategic but rare elements may be present that would make marginal rock into good ore.
4. Drill hole 6 will explore the possibility that the small stream at the north end of the area may be developed on a fault zone. A well-developed but dry valley to the southwest and across the main north-south valley is aligned with the above small stream, suggesting that a fault may pass through there.

BIBLIOGRAPHY

1. (1909) A Geological Reconnaissance in Northern Idaho and Northwestern Montana, by F. C. Calkins and D. F. McDonald, U. S. Geol. Survey Bull. 384, 112 pp.

2. (1915) Guidebook of The Western United States. Part A. The Northern Pacific Route, With A Side Trip to Yellowstone Park, by M. R. Campbell and others, U. S. Geol. Survey Bull. 611, 203 pp.

3. (1937) U. S. Geol. Survey Thompson Falls quadrangle topographic map.

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

500

Griswold
Hedges
Guild
Selfridge
Johnson

MAR 1954

Mr. W. J. Gordon, President
Monia Mining Company
Dubuque, Iowa

Re: Docket No. DMEA-2498 (Copper)
Monia Mining Company
Monia Mine
Sanders County, Montana

Dear Mr. Gordon:

Your amended application for aid for an exploration project and additional reports available to us here in Washington concerning the above-named property, have been reviewed.

This latest information, although noting a small amount of copper mineralization on your property, has not materially changed the conditions evident at the time the application was previously considered. We therefore cannot change the opinion expressed in our letter of December 12, 1952.

Sincerely yours,

C. O. Mittendorf (fw)

Administrator

WRGriswold/bjl (rewritten 2/26/54)

Copy to: Docket
Admr. R. File
Base Metals
Mr. Kinkel
Mr. Bishop
Region II (2)
Chron.

R.C.B. 3-1-54

500

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

February 24, 1954

Memorandum

To: Administrator

From: Chief, Base Metals Division

Subject: Denial of application, Docket No. DMEA-2498 (copper), Monia Mining Company, Sanders County, Montana

The denial of the above project is, in effect, automatic. A total of 694 feet of adit has already been driven, without finding ore. Likewise, various test pits have been sunk to no result. A sample cut from the heading recently driven shows 0.04 oz. Au., 0.3 oz. Ag., and 0.17 per cent copper. There appears to be no geological reason why ores might be expected.

The Field Team has recommended that the application be denied, and the commodity members and this Division concur.

W. R. Griswold

W. R. Griswold

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 23 1954

February 19, 1954

Memorandum

To: W. R. Griswold, DMEA

From: C. H. Johnson, Bureau of Mines

Subject: DMEA-2498 (Copper), Monia Mining Company, Sanders County, Montana

I have reviewed the report on the above-named docket, by W. S. Anderson, dated January 18, 1954, recommending that the application for exploration assistance be denied, and am of the opinion that the information presented fully supports this recommendation.

C. H. Johnson
C. H. Johnson

Copy to - Minerals Division
Mr. Kinkel, GS
Mr. Johnson
Files

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 23 1954

February 19, 1954

Memorandum

To: W. R. Griswold, DMEA

From: C. H. Johnson, Bureau of Mines

Subject: DMEA-2498 (Copper), Monia Mining Company, Sanders County, Montana

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C. H. Johnson

C. H. Johnson

CHJohnson:ks

Copy to - Minerals Division
Mr. Kinkel, GS
Mr. Johnson
Files

IN REPLY REFER TO:

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

February 12, 1954

Memorandum

Re: IMEA-2498
Monia Mine
Sanders County, Mont.
$18,685
Copper

To: Mr. W. R. Griswold

From: E. L. Newcomb

Subject: Concurrence with field team recommendation for denial

The subject application has been denied on two previous occasions, September 18, 1952, and November 4, 1952, as recommended by two separate field team reports.

A third examination was made at the request of the operator because additional underground work had disclosed more promising copper mineralization. However, a 31-inch sample, which was taken by the field team at the face of the new adit, assayed only 0.04 oz. gold, 0.3 oz. silver, and 0.17 per cent copper.

Sufficient exploration work has been done underground and at the surface to indicate that copper mineralization is too low grade to justify the expenditure of Government funds on further exploration of the property.

I concur with the field team's conclusions and recommend the application be denied.

E. L. Newcomb

E. L. Newcomb
Geologist

IN REPLY REFER TO:

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

February 12, 1954

Memorandum

Re: IMEA-2498
Monia Mine
Sanders County, Mont.
318,685
Copper

To: Mr. W. R. Griswold

From: E. L. Newcomb

Subject: Concurrence with field team recommendation for denial

The subject application has been denied on two previous occasions, September 18, 1952, and November 4, 1952, as recommended by two separate field team reports.

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I concur with the field team's conclusions and recommend the application be denied.

E. L. Newcomb
Geologist

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

1201 N. Division St.
Spokane 2, Washington
January 27, 1954

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

Re: Docket No. DMEA 2498 (copper)
Monia Mining Company
Sanders County, Montana

Dear Mr. Selfridge:

Attached is a supplemental report by W. S. Anderson of the Bureau of Mines, giving the results of a reexamination of the subject property. Two samples were taken which showed noncommercial copper mineralization over narrow widths.

The current work has disclosed no new evidence on which to base a favorable decision in this case, and the Field Team concurs with Mr. Anderson's recommendation that the application for exploration assistance be denied.

By Field Team, Region II

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

Thomas E. Howard, Acting Member
(U. S. Bureau of Mines)

Enclosure

cc: USGS (2)

Reviewed by
DMEA OPERATING COM...

2-5-54
(date)

1201 N. Division St.
Spokane 2, Washington
October 19, 1953

Mr. G. A. Sutherland,
Route 3,
Missoula, Montana

Subject: Monia Mining Co., Sanders Co., Montana, near Thompson Falls, Montana.

Dear Mr. Sutherland:

This is in reply to a letter from Mr. F. E. Buck, dated October 13, in which he requests that I direct a letter to you advising as to a reexamination of your property by a Bureau of Mines engineer to determine if diamond drill exploration is warranted.

Our engineer, Mr. W. S. Anderson, will be in Thompson Falls some time within the next two weeks and will contact either you or Mr. Buck to make an arrangement to examine your property.

Yours very truly,

M. E. Volin, Chief,
Mining Division, Region II

MEV:mp
cc:
F.E.Buck
Anderson
RO
Md(min. prop.)
Mdf

Reviewed by
BMKA OPERATING COMMITTEE
2-5-54
(date)

Missoula, Montana.
Oct. 13th, 1953.

Mr. Hurdberger,
Bureau of Mines,
Spokane, Washington.

Dear Mr. Hurdberger:

On a recent trip to Spokane, I talked with you regarding our property near Thompson Falls, Montana, and I feel sure you will recall this meeting.

We would very much appreciate an inspection of our property, and will meet your man at either Thompson Falls or Missoula, and will take him into the mine.

On the ridge above the mine, on an inspection this year, they found two distinct out-cropings above the tunnel; and also there were two places that froze the compass. Just what that means, I do not know.

At any rate, we would like your advice in regard to diamond drilling, and will appreciate hearing from you.

Very truly yours,

F. E. Buck.

P.S.
Kindly direct your reply to Mr. G. A. Sutherland, Route #3, Missoula, Montana.

F.E. Buck
1500 Carolina St.,
Butte, Montana.

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

1201 N. Division St.
Spokane 2, Washington
January 18, 1954

MEMORANDUM

To: DMEA Field Team, Region II

From: W. S. Anderson, Mining Engineer, Bureau of Mines

Subject: Docket No. DMEA 2498 (copper)
Monia Mine, Sanders County, Montana

Review of Docket

The subject application was first presented to the Regional office in April of 1952, and an examination was made on June 12, 1952 by R. E. Wallace and J. W. Hosterman of the U. S. Geological Survey and Horace Reno of the U. S. Bureau of Mines.

The application was denied on the recommendation of Mr. Wallace, ppimarily because the applicant did not submit a definite exploration program on which to base a contract but also on the geologic improbability of finding ore that could be mined under present economic conditions.

An amended application, submitted in October 1952, was again denied for the same reasons.

In his report, Mr. Wallace mentions that the vein zone is 5 to 8 feet wide with minor copper mineralization in bedding planes and joints. The only vein material mentioned was that observed in the uppermost tunnel, which consisted of a pod varying from a fraction of an inch to 2 feet wide and 30 feet long.

Examination

A reexamination of the Monia mine was made on October 28, 1953 at the request of Mr. F. E. Buck, Butte, Montana, an official of the company. Mr. G. A. Sutherland, another official of the company, accompanied the examining engineer during the examination. Approximately four hours were spent on the property.

A sketch of the new tunnel, completed since the examination by Wallace, Hosterman and Reno on June 12, 1952, was made. The applicant has completed approximately 294 feet of new underground exploration as shown on the attached sketch.

Reviewed by
DMEA OPERATING COMMITT

2-5-54
(date)

Mr. Sutherland stated that assays of samples taken near the face of the crosscut ran 3.5 percent copper, so a 31-in. sample (WSA #51) was cut across the face of the crosscut; it assayed 0.04 ounce per ton gold, 0.30 ounce per ton silver, and 0.17 percent copper.

The adit was driven along a system of incipient bedding plane fractures and joints containing minor amounts of pyrite, chalcopyrite, tenorite and azurite.

Sample WSA #50, 36-inches in length, was cut across the vein zone exposed in the uppermost cut which was approximately 90 feet higher in elevation than the new adit. This sample assayed less than 0.01 ounce per ton gold, 0.62 ounce per ton silver, and 1.49 percent copper. This sample was cut across the richest appearing portion of the vein zone.

Applicant's Proposed Exploration

Mr. Sutherland suggested a diamond drilling program but he had no definite program set up as to target area, drilling sites or footage contemplated.

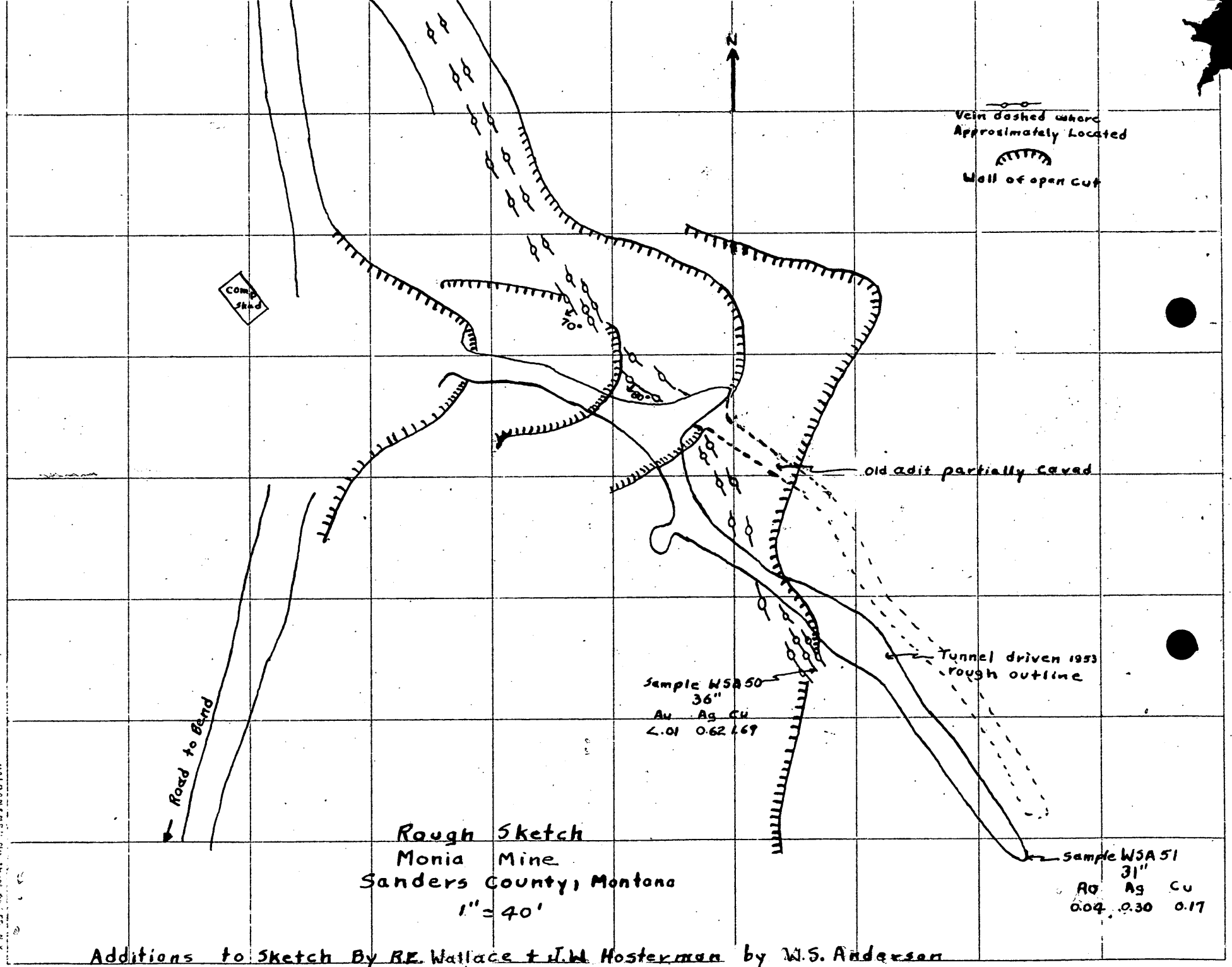
Conclusions and Recommendations

The zone of mineralization has been explored by three adits, totaling approximately 694 feet, without finding commercial ore. Surface trenching has exposed this zone over a vertical range of 100 feet and laterally about 300 feet, in addition to which numerous old test pits indicate that the zone was tested for a considerable distance to the southeast of the present work. It appears that the zone has been fairly thoroughly tested without finding ore.

In view of the unfavorable results obtained in the current and past exploration, it is recommended that the application for exploration assistance be denied.

Orig. & 3 cys - Wash.
USGS (2)
BMEA
M/B

W. S. Anderson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Vein dashed where Approximately Located
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Tunnel driven 1953 rough outline
Sample WSA 50
36"
Au Ag Cu
<.01 0.62 .69
Road to Bend
Rough Sketch
Monia Mine
Sanders County, Montana
1" = 40'
sample WSA 51
31"
Au Ag Cu
0.04 0.30 0.17
Additions to Sketch By R.E. Wallace + J.W. Hosterman by W.S. Anderson

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

1201 N. Division St.
Spokane 2, Washington
January 27, 1954

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

Re: Docket No. DMEA 2498 (copper)
Monia Mining Company
Sanders County, Montana

Dear Mr. Selfridge:

Attached is a supplemental report by W. S. Anderson of the Bureau of Mines, giving the results of a reexamination of the subject property. Two samples were taken which showed noncommercial copper mineralization over narrow widths.

The current work has disclosed no new evidence on which to base a favorable decision in this case, and the Field Team concurs with Mr. Anderson's recommendation that the application for exploration assistance be denied.

By Field Team, Region II

A. E. Weissenborn

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

Thomas E. Howard

Thomas E. Howard, Acting Member
(U. S. Bureau of Mines)

Enclosure

cc: USGS (2)

DEPARTMENT OF THE INTERIOR
Bureau of Mines Minerals
RECEIVED
JAN 27 1954

Wash

1201 N. Division St.
Spokane 2, Washington
October 19, 1953

Mr. G. A. Sutherland,
Route 3,
Missoula, Montana

Subject: Monia Mining Co., Sanders Co., Montana, near Thompson Falls, Montana.

Dear Mr. Sutherland:

This is in reply to a letter from Mr. F. E. Buck, dated October 13, in which he requests that I direct a letter to you advising as to a reexamination of your property by a Bureau of Mines engineer to determine if diamond drill exploration is warranted.

Our engineer, Mr. W. S. Anderson, will be in Thompson Falls some time within the next two weeks and will contact either you or Mr. Buck to make an arrangement to examine your property.

Yours very truly,

M. E. Volin, Chief,
Mining Division, Region II

MEV:mp
cc:
F.E.Buck
Anderson
RO
Md(min. prop.)
Mdf

Missoula, Montana.
Oct. 13th, 1953.

Mr. Hurdberger,
Bureau of Mines,
Spokane, Washington.

Dear Mr. Hurdberger:

On a recent trip to Spokane, I talked with you regarding our property near Thompson Falls, Montana, and I feel sure you will recall this meeting.

We would very much appreciate an inspection of our property, and will meet your man at either Thompson Falls or Missoula, and will take him into the mine.

On the ridge above the mine, on an inspection this year, they found two distinct out-cropings above the tunnel; and also there were two pieces that froze the compass. Just what that means, I do not know.

At any rate, we would like your advice in regard to diamond drilling, and will appreciate hearing from you.

Very truly yours,

F. E. Buck.

P.S.
Kindly direct your reply to Mr. G. A. Sutherland, Route #3, Missoula, Montana.

F.E. Buck
1500 Carolina St.,
Butte, Montana.

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

1201 N. Division St.
Spokane 2, Washington
January 18, 1954

MEMORANDUM

To: DMEA Field Team, Region II

From: W. S. Anderson, Mining Engineer, Bureau of Mines

Subject: Docket No. DMEA 2498 (copper)
Monia Mine, Sanders County, Montana

Review of Docket

The subject application was first presented to the Regional office in April of 1952, and an examination was made on June 12, 1952 by R. E. Wallace and J. W. Hosterman of the U. S. Geological Survey and Horace Reno of the U. S. Bureau of Mines.

The application was denied on the recommendation of Mr. Wallace, primarily because the applicant did not submit a definite exploration program on which to base a contract but also on the geologic improbability of finding ore that could be mined under present economic conditions.

An amended application, submitted in October 1952, was again denied for the same reasons.

In his report, Mr. Wallace mentions that the vein zone is 5 to 8 feet wide with minor copper mineralization in bedding planes and joints. The only vein material mentioned was that observed in the uppermost tunnel, which consisted of a pod varying from a fraction of an inch to 2 feet wide and 30 feet long.

Examination

A reexamination of the Monia mine was made on October 28, 1953 at the request of Mr. F. E. Buck, Butte, Montana, an official of the company. Mr. G. A. Sutherland, another official of the company, accompanied the examining engineer during the examination. Approximately four hours were spent on the property.

A sketch of the new tunnel, completed since the examination by Wallace, Hosterman and Reno on June 12, 1952, was made. The applicant has completed approximately 294 feet of new underground exploration as shown on the attached sketch.

Mr. Sutherland stated that assays of samples taken near the face of the crosscut ran 3.5 percent copper, so a 31-in. sample (WSA #51) was cut across the face of the crosscut; it assayed 0.04 ounce per ton gold, 0.30 ounce per ton silver, and 0.17 percent copper.

The adit was driven along a system of incipient bedding plane fractures and joints containing minor amounts of pyrite, chalcopyrite, tenorite and azurite.

Sample WSA #50, 36-inches in length, was cut across the vein zone exposed in the uppermost cut which was approximately 90 feet higher in elevation than the new adit. This sample assayed less than 0.01 ounce per ton gold, 0.62 ounce per ton silver, and 1.49 percent copper. This sample was cut across the richest appearing portion of the vein zone.

Applicant's Proposed Exploration

Mr. Sutherland suggested a diamond drilling program but he had no definite program set up as to target area, drilling sites or footage contemplated.

Conclusions and Recommendations

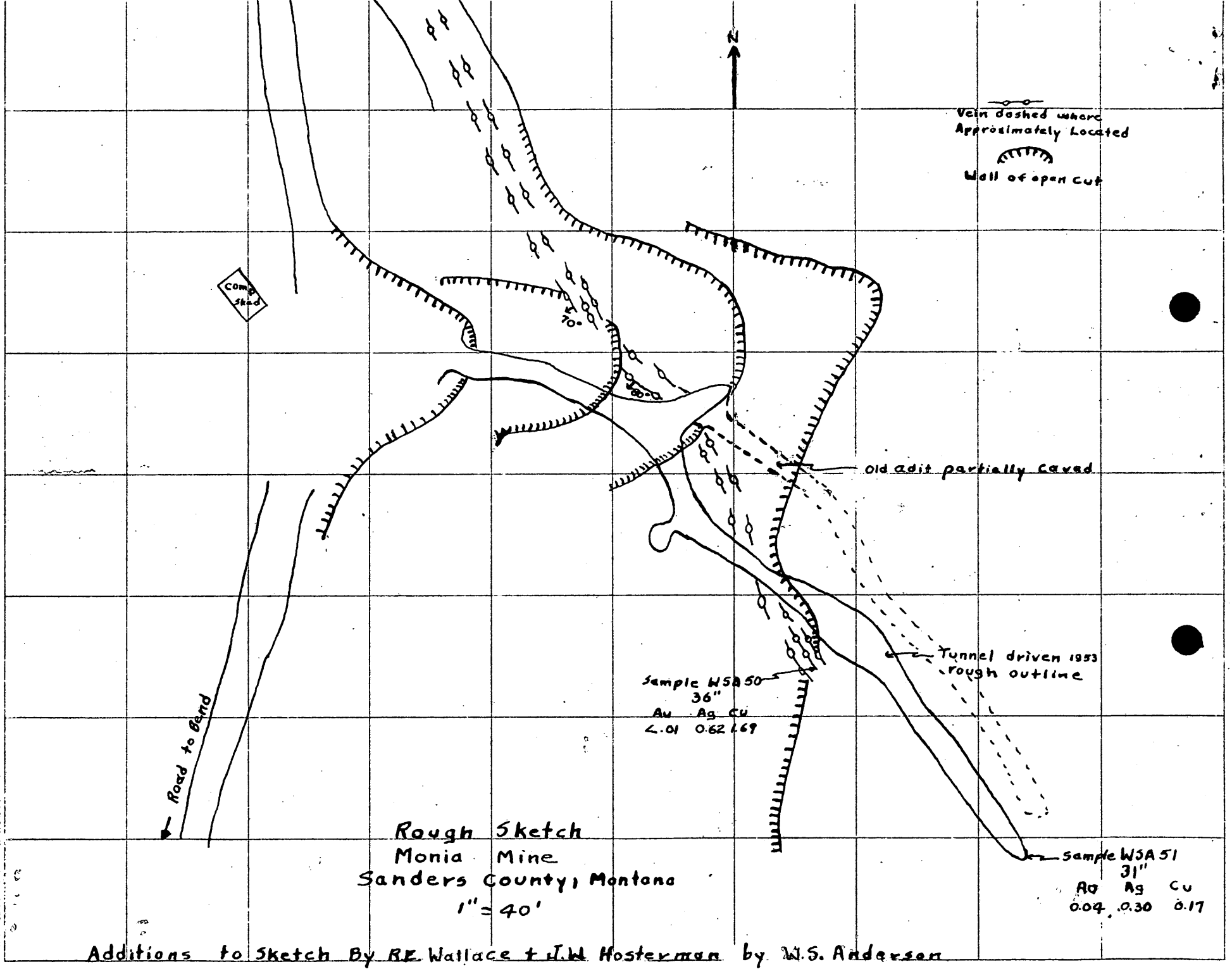
The zone of mineralization has been explored by three adits, totaling approximately 694 feet, without finding commercial ore. Surface trenching has exposed this zone over a vertical range of 100 feet and laterally about 300 feet, in addition to which numerous old test pits indicate that the zone was tested for a considerable distance to the southeast of the present work. It appears that the zone has been fairly thoroughly tested without finding ore.

In view of the unfavorable results obtained in the current and past exploration, it is recommended that the application for exploration assistance be denied.

W. S. Anderson

W. S. Anderson

Orig. & 3 cys - Wash.
USGS (2)
DMEA
M/D


N
Vein dashed where Approximately Located
Wall of open cut
Camp Shed
40°
80°
Old adit partially caved
Tunnel driven 1953 rough outline
Sample WSA 50
36"
Au Ag Cu
<.01 0.62 1.69
Road to Bend
Sample WSA 51
31"
Au Ag Cu
0.04 0.30 0.17
Rough Sketch
Monia Mine
Sanders County, Montana
1" = 40'
Additions to Sketch By R.E. Wallace + J.W. Hosterman by W.S. Anderson

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

1201 N. Division St.
Spokane 2, Washington
December 16, 1953

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

Subject: Docket No. DMEA 2498 (copper)
Monia Mining Company
Sanders County, Montana

Dear Mr. Selfridge:

The subject property was reexamined at the request of Mr. F. E. Buck, one of the officials of the firm, who stated that additional work had been done to expose the vein since the date of the original examination.

The examination was made by a Bureau of Mines engineer on October 28, 1953, when the new work was mapped and two samples taken. As soon as the assays are received a supplemental report will be written and forwarded to you with the Field Team's recommendations.

By Field Team, Region II

A. E. Weissenborn

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

Thomas E. Howard

Thomas E. Howard, Acting Member
U. S. Bureau of Mines

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

1201 N. Division St.
Spokane 2, Washington
December 16, 1953

Mr. W. J. Gordon, President
Monia Mining Company
Dubuque, Iowa

Subject: Docket No. DMEA 2499 (copper)
Monia Mining Company
Sanders County, Montana

Dear Mr. Gordon:

This will acknowledge receipt of your letter of December 2, 1953, requesting an official report on the reexamination of your property which was made by one of our engineers on October 28, 1953.

The results of examinations and sampling in connection with DMEA applications are reported directly to the Operating Committee, Defense Minerals Exploration Administration, in Washington, D.C. for their use in making decisions concerning the properties examined. Present regulations do not permit release of the reports to the property owners.

In due time you will be notified by the Washington, D.C. office of their action on your application as a result of this reexamination.

By DMEA Field Team, Region II

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

Thomas E. Howard, Acting Member
U. S. Bureau of Mines

cc: DMEA, Wash. (2)
USGS (2)

Reply w. Here

RECEIVED
BUREAU OF MINES
DEC 4 53
SPOKANE, WASH.

Dubuque, Iowa
Dec. 2, 1953

Mr. M. E. Voling, Chief
U. S. Government
Bureau of Mines
Spokane, Washington

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 21 1953

Dear Mr. Voling:

I just now called your office on the phone requesting that we get as much information as possible in regard to your re-examination of the Monia Mining property in Sanders County, State of Montana. In October Mr. F. E. Buck requested that your engineer re-examine this property, and it is my understanding that your engineer Mr. Anderson accompanied our Mr. George Sutherland into this property, and as yet we have never received an official report of your findings.

I have had an oral report from Mr. Sutherland that he felt we should drift to the right twenty-five feel from where we are now, but I have had no official communication from your office. Since we are so far away out here in Iowa it is hard for us to get a complete understanding of what we should best do.

I believe that Mr. Buck requested you to make this examination with the idea of drilling to prove the property by diamond drilling it if we failed to hit this vein with the cross cut.

We have been working on this property for the last two summers - 1952 and 1953 - trying to find the vein of ore that seems to show so much evidence on this property. We asked the Government to help us when we originally started this process early in 1952, but for some reason our request was turned down. Therefore, we would like to have your recommendations and we would like to get a report from you as to whether the Government will go 50-50 with us on a diamond drilling exploration of this property.

Mr. Glen Faulkner, who has been directing activities for us at Missoula, Montana, has recently had a heart attack and is in the hospital with orders from the doctor not to do any work. Consequently, trying to keep in touch 1500 miles away is rather difficult, so I will appreciate any help you can give us in clarifying the situation for our stockholders in Iowa.

This company got its name - Monia - from the fact that we have some Montana stockholders and some Iowa stockholders. Mr. Buck, Sutherland and Faulkner are the Montana stockholders, while there are six of us here in Dubuque who are interested.

I realize, of course, that reports on property of this kind must, of necessity, be confidential, and since all of your contacts have been with the Montana men, if you prefer you can send me this information via Mr. Faulkner's address. His address is: Mr. Glen Faulkner, P. O. Box 1115, Missoula, Montana. His secretary will forward this information on to me, however, I am President of the company, and if you can send me the report direct, it will save time. If you wish to make a telephone call to our office in Missoula, the telephone number is 2648. Mr. Faulkner's office can verify the fact that it is ethical for this report to come to me.

I am sending a copy of this letter to both Mr. Buck and Mr. Faulkner to clarify the situation.

Trusting I may hear from you as soon as it is at all possible, I am

Sincerely yours,

W. J. Gordon

W. J. Gordon, Pres.,
Monia Mining Company

WJG/p

P. S.
I forgot to ask the gentleman who answered the phone in your office today to give me his name, but I certainly appreciated his cooperation.

12/22/53 gla

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

1201 N. Division St.
Spokane 2, Washington
December 16, 1953

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Operating Committee, DMEA
Department of the Interior
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U. S. Geological Survey

Thomas E. Howard, Acting Member
U. S. Bureau of Mines

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

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Spokane 2, Washington
December 16, 1953

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In due time you will be notified by the Washington, D.C. office of their action on your application as a result of this reexamination.

By DMEA Field Team, Region II

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

Thomas K. Howard, Acting Member
U. S. Bureau of Mines

cc: DMEA, Wash. (2)
USGS (2)

Reply written

RECEIVED
BUREAU OF MINES
DEC 4 53
SPOKANE, WASH.

Dubuque, Iowa
Dec. 2, 1953

Mr. M. E. Voling, Chief
U. S. Government
Bureau of Mines
Spokane, Washington

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W. J. Gordon, Pres.,
Monia Mining Company

WJG/p

P. S.
I forgot to ask the gentleman who answered the phone in your office today to give me his name, but I certainly appreciated his cooperation.

FILE COPY
SURNAME:
700

Schmidt
Ellis
Kinkel
Hedges
Ellis

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

DEC 12 1952

Mr. Glen . Gaulager
Director General Manager
Sonia Mining Co., Inc.
Deerlodge, Montana

Re: Docket No. [illegible]-2490 (Copper)
Sonia Mine, Powers County, Montana

Dear Mr. Gaulager:

Further reference is made to your application for Government aid on the captioned project, dated April 1, 1952, your amended application dated October 21, 1952, and supplemental information contained in your letter of October 29, 1952, directed to Mr. [illegible] Weissenborn, Executive Officer, [illegible] Field Team, Region II, Bureau 8, Washington.

Projects approved by the Defense Minerals Exploration Administration Contracts, in its judgment, show sufficient promise of yielding material of recoverable [illegible] that will significantly improve the [illegible] position for the national defense program.

A careful study of your application, as amended, and data available to this agency, and an examination of the property concerned reveal that the probability of disclosing minable reserves by your proposed exploration program is not sufficiently promising to justify Government participation. Under these circumstances, we regret to advise that your application for exploration aid is denied.

If future work at your property reveals evidence which could materially alter this opinion, please be assured we will be glad to consider a new application.

Sincerely yours,

C. O. Mittendorf (for) F.H.
12-12-52

Administrator

FSchmidt/gla/jem
12/10/52
cc to: Adm. Reading File
Docket
Messrs. CHJohnson-R.3621
ARKinkel-R.4234 GSA
Ellis Schmidt
Opr. Com.
Field Team, Reg. II (2)

12/10/52 gla

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 9 1952

December 8, 1952

Memorandum

To: E. W. Ellis, DMEA

From: C. H. Johnson, Bureau of Mines

Subject: DMEA-2498 (Copper), Monia Mining Company, Monia mine, Sanders County, Montana

Shortly after writing my memorandum of November 12 to you on the above, I received a copy of the Field Team memorandum-report (by R. E. Wallace, October 31, 1952). Wallace recommends denial on the basis of the inadequacy of the proposed program and the unwillingness of the Applicant to offer a satisfactory one. The Field Team members concur in this recommendation, and so do I.

C. H. Johnson
C. H. Johnson

Copy to: Mr. Kinkel, USGS
Minerals Division
Base Metals Branch
Mr. Johnson
Files

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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C. H. JOHNSON
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Copy to: Mr. Kinkel, USGS
Minerals Division
Base Metals Branch
Mr. Johnson
Files

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

December 8, 1952

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Defense Minerals Administration
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C. H. JOHNSON

C. H. Johnson

Copy to: Mr. Kimbel, USGS
Minerals Division
Base Metals Branch
Mr. Johnson
Files

11/18/52 gla

IN REPLY REFER TO:

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

November 18, 1952

Memorandum

Re: DMEA-2498
Monia Mine, Sanders County, Montana
$19,319.00
Copper

To: Mr. E. Wm. Ellis

From: A. R. Kinkel, Jr.

Subject: Monia Mining Company, Montana (DMEA-2498) Copper.

The Monia Mining Company requested Government participation in an exploration program in April 1952. Due to incomplete data in the application, lack of specific plans, and changes in the owner's plans of exploration much correspondence was necessary, but a field examination was requested in May 1952. The field examination was made in June 1952; this resulted in still further revisions of the application and much delay was caused both by dilatory practices of the owners and by the owner's apparent inexperience and inability to prepare a satisfactory program of exploration. The owner was notified in early October that unless the applications were completed by October 31 the project would not receive further consideration. An application that still lacked pertinent information was submitted by the owner late in October. A review of the latest application by members of the Spokane office indicates that though the property may have some merit the application, as it is submitted, should be denied.

I concur in this denial because of the low grade of the ore, the improbability of exploration resulting in a significant discovery, and the apparent incompetence of the operator.

A R Kinkel Jr.

A. R. Kinkel, Jr.
Geologist

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

November 18, 1952

Memorandum

Re: IMEA-2498
Monia Mine, Sanders County, Montana
$19,319.00
Copper

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Geologist

11/13/52 gla

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 12 1952

November 12, 1952

Memorandum

To: E. W. Ellis, DMEA

From: C. H. Johnson, Bureau of Mines

Subject: DMEA-2498, Monia Mining Company, (Copper) Monia Mine, Sanders County, Montana

I have reviewed the revised application dated October 29, 1952, submitted by the above-named company. It proposes to spend $19,319 on diamond drilling and operation in a 6-month period. The claim is made that a 50 by 80 foot block of mill ore has been cut by the lower adit, evidently subsequent to the date of examination by Wallace, Hosterman and Reno in June. No factual data are presented in support of this claim.

Operation not being eligible for support under DMEA, and the footage and cost of drilling not being stated, the merits of the application are uncertain. Applicant should have presented an assay map. However, I believe a field examination will be necessary in the end, so recommend that it be requested without delaying to try to get further information from the applicant.

The amended application is returned herewith.

C. H. Johnson
C. H. Johnson

Attachment

Johnson did not know when he wrote this that Field Team Exam. had been made.

Copy to - Mr. Nelson
Minerals Division
Base Metals Branch
C. H. Johnson
Files

Monia Mine DMEA 2498

11/18/52

Conference in office with Mr. ~~Bu~~ Burch a brother of one of the men putting up money for the Monia venture I explained to him that the Field Team had denied the application after examination of the property and the second plan of exploration wrk. He said he understood the circumstances and that our Field Men knew their business; he called them experts and said that if that is what they thought they were undoubtedly right. He said he appreciated and understood tht we had been very considerate and patient with this proposition He left in a most cordial and friendly spirit almost as though he were relieved that it had been turned down.

Schmidt

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 12 1952

November 12, 1952

Memorandum

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C. H. Johnson
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Attachment

CHJohnson:ks

Copy to - Mr. Nelson
Minerals Division
Base Metals Branch
C. H. Johnson
Files

11/20/52 gla

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 14 1952

November 4, 1952

Memorandum

To: F. E. Johnson, Chairman, Operating Committee, DMEA

From: DMEA Field Team, Region II

Subject: Monia Mine, Sanders Co., Montana; Docket No. DMA-2498.

Attached is a memorandum from Mr. R. E. Wallace of the Geological Survey commenting on a revised proposal made by the applicant on the subject property. Mr. Wallace recommends denial on the basis that the proposed program is not specific and that furthermore, the part of the vein which it is apparently intended to prospect is fairly well known. It has been well tested by surface and underground work and has been estimated to contain less than one percent copper.

The Field Team concurs with this and recommends a second denial be sent to the company.

By Field Team, Region II

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

H. H. Volin, Member
(U. S. Bureau of Mines)

Enclosure 1 (in quad.)
cc: DMEA (2)
Wallace

Reviewed by
DMEA OPERATING COMMITTEE
11-19-52
(date)

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 14 1952

October 31, 1952

Memorandum

To: DMEA Field Team, Region II

From: R. E. Wallace, Geologist, U. S. Geological Survey

Subject: Monta Mine, Sanders Co., Montana; Docket No. DMEA-2498; Recommendations on revised application dated October 21, 1952.

REVIEW OF CASE

In June and July of 1952 the original application was reviewed and requests for a revised proposal were made to the applicant. A revised application was finally submitted on October 21, 1952 after prompting by the Government. Inasmuch as no specific program was proposed in the revised application, even though Mr. Fred Honkala, consulting geologist, had suggested several approaches in his report to the company, Mr. Weissenborn again on October 27, 1952 requested a specific proposal from the company. Mr. Faulkner, Director and General Manager of the company, presented a generalized program in his reply of October 29, 1952. This generalized description of the proposed work is scarcely sufficient basis for establishing a contract.

In addition, the target indicated by Mr. Faulkner is the segment of the vein zone described in my memorandum of June 17, which is estimated to contain less than one percent copper on the average and which has already been relatively well tested by surface and underground work.

As indicated in my memorandum of June 17, 1952, the area does hold some promise; and a program of wider scope might be worthwhile if properly conducted, but the company apparently wishes to concentrate only on the original limited target.

RECOMMENDATION

It is recommended that the application be denied on the basis that the proposed program is not sufficiently specific,

Reviewed by
DMEA OPERATING COMMITTEE

_____
(date)

and that the portion of the vein zone to be tested does not appear to hold sufficient promise of containing minable ore to warrant further work at this time.

R. E. Wallace, Geologist

Dist: DMG, Wash. - Orig. & 3
DGMI (2)
DGS (SRC)
Docket

11/17/52 gla

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 14 1952

November 4, 1952

Memorandum

To: F. E. Johnson, Chairman, Operating Committee, DMEA

From: DMEA Field Team, Region II

Subject: Monia Mine, Sanders Co., Montana; Docket No. DMEA-2498.

Attached is a memorandum from Mr. R. E. Wallace of the Geological Survey commenting on a revised proposal made by the applicant on the subject property. Mr. Wallace recommends denial on the basis that the proposed program is not specific and that furthermore, the part of the vein which it is apparently intended to prospect is fairly well known. It has been well tested by surface and underground work and has been estimated to contain less than one percent copper.

The Field Team concurs with this and recommends a second denial be sent to the company.

By Field Team, Region II

A. E. Weissenborn

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

M. E. Volin

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

Enclosure 1 (in quad.)
cc: USBM (2)
Wallace

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 14 1952

October 31, 1952

Memorandum

To: DMEA Field Team, Region II

From: R. E. Wallace, Geologist, U. S. Geological Survey

Subject: Monia Mine, Sanders Co., Montana; Docket No. DMEA-2498; Recommendations on revised application dated October 21, 1952.

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R. E. Wallace, Geologist

Dist: DMEA, Wash. - Orig. & 3
USBM (2)
USGS (SRO)
Docket

11/5/52 gla

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 3 1952

~~WASHINGTON 25, D. C.~~
So. 157 Howard Street
Spokane 4, Washington

October 31, 1952

Mr. F. E. Johnson, Chairman
Operating Committee, DMEA
Dept. of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-2498
Monia Mining Co. Inc.
Sanders County, Montana
Amended Application

Dear Mr. Johnson:

Enclosed are the original and two copies of an amended application submitted by Mr. Glen W. Faulkner, Director and General Manager of the subject company. Enclosed, also, are three copies of a letter dated October 29 from Mr. Faulkner supplementing the amended application.

portion

The proposed program still is not sufficiently specific and the ~~position~~ of the vein shown to be tested does not appear to hold sufficient promise of containing minable ore to warrant further work at this time. The Field Team's report recommending denial will be forwarded to you within the next day or two.

Sincerely yours

A. E. Weissenborn

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

Enclosures 2 (in trip.)
cc: USBM (2)
Wallace

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

So. 157 Howard Street
Spokane 4, Washington

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 5 1952

October 31, 1952

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Operating Committee, DMEA
Dept. of the Interior
Washington 25, D. C.

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Amended Application

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Sincerely yours

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

Enclosures 2 (in trip.)
cc: USBM (2)
Wallace

1. al
2. wallace

Missoula, Mont.
Oct. 29, 1952.

A. E. Weissenborn,
Executive Officer, DMEA
Field Team, Region II
So. 157 Howard Street,
Spokane 4, Washington.

Dear Mr. Weissenborn:

Re: Amended Application for
MONIA MINING CO. INC.
Docket No. DMEA 2498

Reference is made to your letter of Oct. 27th, for clearification of the above captioned.

All of the developing work will be contingent upon the ore found thru core drilling. The reason Fred Honkala did not suggest any further work was that he thought we should await the results of the diamond drilling.

From a point 65 feet in from the portal of the tunnel, we hit milling ore which is blocked out now approximately fifty feet wide by eighty feet in depth, sampling from one to three and one-half percent.

We want to locate thru drilling, the leads in depth, that were found on the surface by stripping.

We have found ore on the surface from five to fifteen percent in copper, with some gold and silver. If we are able to locate this ore to balance out our milling ore, now blocked out, we will then continue our development program. That is the reason for applying for the additional mining costs. We feel confident in picking up at least one or more of these leads as exposed on the surface.

I would suggest that the drilling, engineering and assaying be approved, and the mining contingent upon the success of this operation.

Trusting this will clearify the questions involved.

Very truly yours,

GWF:ct

MONIA MINING CO. INC.

By Glen W. Faulkner
Director & General Mgr.

c.c. Ernest Wm.
Ellis, Chief Rare and
Miscel. Metals Division

2498

Missoula, Mont.
Oct. 29, 1952.

A. E. Weissenborn,
Executive Officer, DMEA
Field Team, Region II
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~~Docket No. DMEA 2498~~

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MONIA MINING CO. INC.

By Glen W Faulkner

Director & General Mgr.

c.c. Ernest Wm. Ellis, Chief Rare and Miscel. Metals Division

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget Bureau No. 42-R1035.2.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 3 1952

AMENDED APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

~~DOCKET DMEA 2498~~

Not to be filled in by applicant

Docket No. dmea 2498 AMENDED
Metal or Mineral
Date Received 11-3-52
Estimated Cost
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: MONIA MINING CO. INC.
Box 1115
Missoula, Montana

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract

(*b*) State any mine name by which the property is known.

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property.

(*e*) If you own the land, describe any liens or encumbrances on it

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice.

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points.

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore .....

.....

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

(*c*) The work will start within ..... days and be completed within ..... months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

NOTE.—No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)?

(*b*) How do you propose to furnish your share of the costs?

☐ Money ☐ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

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.

Dated October 21st, 195 2

MONIA MINING CO. INC.
(Applicant)

By Glen W Faulkner

Director & General Manager

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

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

AMENDED APPLICATION

DOCKET DMEA 2498 (copper)
MONIA MINING COMPANY, INC.

ESTIMATE COST OF CORE DRILLING & OPERATION FOR SIX MONTHS.

Diamond Drilling	$5,250.00
Engineering	1,100.00
Assaying	150.00
Industrial Accident Bd.(Workmen's Comp.Ins.)	432.00
Social Security & Unemployment Compensation Ins	275.00
Auditing and Bookkeeping	350.00
Powder, caps and fuse	600.00
Steel & bits	240.00
Disel, Gas and Oil	650.00
Labor (2 miners)	3,000.00
Caterpillar operator & Supervisor work	2,400.00
Telephone and Postage	72.00
Compressor rental @ $150.00 per month (6 mos)	900.00
Truck rental @ $150.00 per month (6 mos)	900.00
Caterpillar rental - 4 mos. @ $250.00 per mo.	1,000.00
Carpenter - 1 mo. (2 cabins & ore bin)	450.00
Lumber and hardware	600.00
Enlarge the present bunk house	200.00
Seal present cook house	200.00
Build Reservoir (concrete and steel)	550.00
Total	$19,319.00

REPORT ON GEOLOGIC RECONNAISSANCE

OF MONIA MINING CO. PROPERTY, SANDERS CO., MONTANA

by
Fred S. Honkala

INTRODUCTION

The Monia Mine property of the Monia Mining Company was investigated in reconnaissance on August 18, 1952 at the request of Glen Faulkner of Missoula, Montana, one of the owners. I was accompanied by Sid Groff of Missoula and Red McMurtrie, the mine foreman. I again visited the property on October 11, 1952, and it was mapped in reconnaissance with the assistance of Bill Rohrer and Tom Pullen, geology students at Montana State University.

The property is located on the upper reaches of Whitney Creek, a tributary of Thompson River which rises in the Cabinet Range in Sanders County in northwestern Montana.

GENERAL GEOLOGY

The country rock at the property is in the Belt Series of late Precambrian age. The chief lithologies are argillite (a metamorphosed shale) and argillitic quartzite (a metamorphosed shaly sandstone). Since these rocks are metamorphosed, sediments bedding is still readily apparent in them.

The rocks of the region show considerable deformation. Large-scale folding can be seen farther down the Thompson River and the rocks at the mine have probably been folded also. Faults are present and can be seen in the workings and are also evidenced topographically by gullies.

The quartzite is quite dense. Quartzites and argillites are often less receptive to mineralization than more calcareous rocks. However, there are fractures along which some mineralization has occurred.

These fractures include:

1. The main shear zone which trends northwest-southeast and is generally parallel to the bedding of the country rock. A shovel cut has been made across the zone. Movement has been distributed over closely-spaced parallel planes of slippage, forming a zone about fifteen feet wide. There seems to be no one major fault plane as such, but rather a shear zone. Considerable brecciation of the country rock occurred in places along the zone. Locally, fracture cleavage suggests that the north side moved down in relation to the south side, that is, beyond the limits of the shear zone. A bulldozer cut which ascends to the upper level portal exposes a clayey zone about 50 feet to the north that may be the continuation of the above zone. The clay is probably gouge (powdered rock) that has been formed along the zone.
2. A fault showing some mineralization is present about 50 feet above and slightly southeast of the old upper entry. The fault dips to the northeast.
3. The argillite to the northeast is in fault contact with the argillitic quartzite to the southwest at the southeast end of the lower level. The fault plane dips 65° NE and the northeast side is upthrown. The above lithologies may be in fault contact throughout the workings.

MINERALIZATION

The copper minerals noted at the surface and underground include: chalcopyrite, bornite, melanterite, chalcanthite, malachite, and azurite, the first two being primary and the last four secondary. Pyrite was also present, and more extensive examination in the laboratory and field may reveal other minerals.

There is relatively little mineralization in evidence and what there is

of it is mostly secondary crusts or films on fractures. Both shear zone and country rock contain primary chalcopyrite. The bedding and slippage planes are parallel and the chalcopyrite stringers in the country rock seem to be parallel to the bedding. Primary chalcopyrite is found near the mouth of upper level as small, elongate lenses which average about $\frac{1}{4}$ in. by $1\frac{1}{2}$ in. in cross section. The shear zone has probably not displaced any mineralized areas except such as may exist on other faults which may trend into the zone.

RECOMMENDATIONS

The property is still in an exploratory stage rather than in a developmental stage. Some high-grade ore is reported to have been taken out about fifty years ago from the upper level. According to the owners, on the basis of assays, some marginal milling ore has been blocked out by present exploration but it is needed in large quantities before it can be profitable. Geologically speaking, it must be said that what can be seen is not too encouraging. A 45-mile truck haul over country roads must also be included in the cost of producing the potential ore. The only reasons for spending more money on the project are that there is evidence of mineralization and that there are structures capable of localizing ore deposition.

If more money is to be spent on the property, then it would seem that systematic exploration and thorough geologic study are needed. The core drill has proven to be the answer to systematic exploration in many mining camps and usually is considerably handier and cheaper than exploration by tunnels, crosscuts and other underground passageways. I feel that a core-drilling program could give definite information. I suggest holes be drilled as indicated on the accompanying map. Holes 6 and 7 are optional, but may afford valuable information.

Other comments and pertinent information include:

1. A geologic (or just plain prospecting) reconnaissance of the area around the workings may prove valuable. There may never have been much mineralization here, but it also could be a fringe area of a more heavily mineralized area. A plane might be hired and prospecting be carried on from air for unusual color changes of soil or other features that may be indicators of mineralization. Late fall, before snowfall, would be the best time for this.
2. If the workings were ever mineralized more than they are now, the minerals have been removed by solution in ground water (leaching) and deposited as secondary minerals, such as cuprite, at depth. Since the minerals were chiefly in the shear zone, and since the shear zone is brecciated and porous, mineral-bearing ground waters would have most easily continued down the shear zone for several hundred feet where there may now be a concentration of secondary ore. This aspect seems quite worthwhile for exploration, and several of the holes should intersect the zone at depth. Evidence for leaching is present, particularly in the fault zone mentioned under "fractures" in sub-heading 2, on page 2.
3. Occasional complete chemical analyses of samples should be made. There is always a chance that relatively small amounts of strategic but rare elements may be present that would make marginal rock into good ore.
4. Drill hole 6 will explore the possibility that the small stream at the north end of the area may be developed on a fault zone. A well-developed but dry valley to the southwest and across the main north-south valley is aligned with the above small stream, suggesting that a fault may pass through there.

BIBLIOGRAPHY

1. (1909) A Geological Reconnaissance in Northern Idaho and Northwestern Montana, by F. C. Calkins and D. F. McDonald, U. S. Geol. Survey Bull. 384, 112 pp.

2. (1915) Guidebook of The Western United States. Part A. The Northern Pacific Route, With A Side Trip to Yellowstone Park, by M. R. Campbell and others, U. S. Geol. Survey Bull. 611, 203 pp.

3. (1937) U. S. Geol. Survey Thompson Falls quadrangle topographic map.

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget Bureau No. 42-R1035.2.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 3 1952

AMENDED APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

DOCKET DMEA 2498

Not to be filled in by applicant

Docket No. dmea 2498 AMENDED
Metal or Mineral
Date Received 11-3-52
Estimated Cost
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: MONIA MINING CO. INC.
Box 1115
Missoula, Montana

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

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6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

NOTE.—No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)?

(*b*) How do you propose to furnish your share of the costs?

☐ Money ☐ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

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.

Dated October 21st, 195 2

MONIA MINING CO. INC.
(Applicant)

By Glen W Faulkner

Director & General Manager

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

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

AMENDED APPLICATION

DOCKET DMEA 2498 (copper)
MONIA MINING COMPANY, INC.

ESTIMATE COST OF CORE DRILLING & OPERATION FOR SIX MONTHS.

Diamond Drilling	$5,250.00
Engineering	1,100.00
Assaying	150.00
Industrial Accident Bd. (Workmen's Comp. Ins.)	432.00
Social Security & Unemployment Compensation Ins	275.00
Auditing and Bookkeeping	350.00
Powder, caps and fuse	600.00
Steel & bits	240.00
Disel, Gas and Oil	650.00
Labor (2 miners)	3,000.00
Caterpillar operator & Supervisor work	2,400.00
Telephone and Postage	72.00
Compressor rental @ $150.00 per month (6 mos)	900.00
Truck rental @ $150.00 per month (6 mos)	900.00
Caterpillar rental - 4 mos. @ $250.00 per mo.	1,000.00
Carpenter - 1 mo. (2 cabins & ore bin)	450.00
Lumber and hardware	600.00
Enlarge the present bunk house	200.00
Seal present cook house	200.00
Build Reservoir (concrete and steel)	550.00
Total	$19,319.00

REPORT ON GEOLOGIC RECONNAISSANCE
OF MONIA MINING CO. PROPERTY, SANDERS CO., MONTANA

by
Fred S. Honkala

INTRODUCTION

The Monia Mine property of the Monia Mining Company was investigated in reconnaissance on August 18, 1952 at the request of Glen Faulkner of Missoula, Montana, one of the owners. I was accompanied by Sid Groff of Missoula and Red McMurtrie, the mine foreman. I again visited the property on October 11, 1952, and it was mapped in reconnaissance with the assistance of Bill Rohrer and Tom Pullen, geology students at Montana State University.

The property is located on the upper reaches of Whitney Creek, a tributary of Thompson River which rises in the Cabinet Range in Sanders County in northwestern Montana.

GENERAL GEOLOGY

The country rock at the property is in the Belt Series of late Precambrian age. The chief lithologies are argillite (a metamorphosed shale) and argillitic quartzite (a metamorphosed shaly sandstone). Since these rocks are metamorphosed sediments bedding is still readily apparent in them.

The rocks of the region show considerable deformation. Large-scale folding can be seen farther down the Thompson River and the rocks at the mine have probably been folded also. Faults are present and can be seen in the workings and are also evidenced topographically by gullies.

The quartzite is quite dense. Quartzites and argillites are often less receptive to mineralization than more calcareous rocks. However, there are fractures along which some mineralization has occurred.

These fractures include:

1. The main shear zone which trends northwest-southeast and is generally parallel to the bedding of the country rock. A shovel cut has been made across the zone. Movement has been distributed over closely-spaced parallel planes of slippage, forming a zone about fifteen feet wide. There seems to be no one major fault plane as such, but rather a shear zone. Considerable brecciation of the country rock occurred in places along the zone. Locally, fracture cleavage suggests that the north side moved down in relation to the south side, that is, beyond the limits of the shear zone. A bulldozer cut which ascends to the upper level portal exposes a clayey zone about 50 feet to the north that may be the continuation of the above zone. The clay is probably gouge (powdered rock) that has been formed along the zone.
2. A fault showing some mineralization is present about 50 feet above and slightly southeast of the old upper entry. The fault dips to the northeast.
3. The argillite to the northeast is in fault contact with the argillitic quartzite to the southwest at the southeast end of the lower level. The fault plane dips 65° NE and the northeast side is upthrown. The above lithologies may be in fault contact throughout the workings.

MINERALIZATION

The copper minerals noted at the surface and underground include: chalcopyrite, bornite, melanterite, chalcanthite, malachite, and azurite, the first two being primary and the last four secondary. Pyrite was also present, and more extensive examination in the laboratory and field may reveal other minerals.

There is relatively little mineralization in evidence and what there is

of it is mostly secondary crusts or films on fractures. Both shear zone and country rock contain primary chalcopyrite. The bedding and slippage planes are parallel and the chalcopyrite stringers in the country rock seem to be parallel to the bedding. Primary chalcopyrite is found near the mouth of upper level as small, elongate lenses which average about $\frac{1}{4}$ in. by $1\frac{1}{2}$ in. in cross section. The shear zone has probably not displaced any mineralized areas except such as may exist on other faults which may trend into the zone.

RECOMMENDATIONS

The property is still in an exploratory stage rather than in a developmental stage. Some high-grade ore is reported to have been taken out about fifty years ago from the upper level. According to the owners, on the basis of assays, some marginal milling ore has been blocked out by present exploration but it is needed in large quantities before it can be profitable. Geologically speaking, it must be said that what can be seen is not too encouraging. A 45-mile truck haul over country roads must also be included in the cost of producing the potential ore. The only reasons for spending more money on the project are that there is evidence of mineralization and that there are structures capable of localizing ore deposition.

If more money is to be spent on the property, then it would seem that systematic exploration and thorough geologic study are needed. The core drill has proven to be the answer to systematic exploration in many mining camps and usually is considerably handier and cheaper than exploration by tunnels, crosscuts and other underground passageways. I feel that a core-drilling program could give definite information. I suggest holes be drilled as indicated on the accompanying map. Holes 6 and 7 are optional, but may afford valuable information.

Other comments and pertinent information include:

1. A geologic (or just plain prospecting) reconnaissance of the area around the workings may prove valuable. There may never have been much mineralization here, but it also could be a fringe area of a more heavily mineralized area. A plane might be hired and prospecting be carried on from air for unusual color changes of soil or other features that may be indicators of mineralization. Late fall, before snowfall, would be the best time for this.
2. If the workings were ever mineralized more than they are now, the minerals have been removed by solution in ground water (leaching) and deposited as secondary minerals, such as cuprite, at depth. Since the minerals were chiefly in the shear zone, and since the shear zone is brecciated and porous, mineral-bearing ground waters would have most easily continued down the shear zone for several hundred feet where there may now be a concentration of secondary ore. This aspect seems quite worthwhile for exploration, and several of the holes should intersect the zone at depth. Evidence for leaching is present, particularly in the fault zone mentioned under "fractures" in sub-heading 2, on page 2.
3. Occasional complete chemical analyses of samples should be made. There is always a chance that relatively small amounts of strategic but rare elements may be present that would make marginal rock into good ore.
4. Drill hole 6 will explore the possibility that the small stream at the north end of the area may be developed on a fault zone. A well-developed but dry valley to the southwest and across the main north-south valley is aligned with the above small stream, suggesting that a fault may pass through there.

BIBLIOGRAPHY

1. (1909) A Geological Reconnaissance in Northern Idaho and Northwestern Montana, by F. C. Calkins and D. F. McDonald, U. S. Geol. Survey Bull. 384, 112 pp.

2. (1915) Guidebook of The Western United States. Part A. The Northern Pacific Route, With A Side Trip to Yellowstone Park, by M. R. Campbell and others, U. S. Geol. Survey Bull. 611, 203 pp.

3. (1937) U. S. Geol. Survey Thompson Falls quadrangle topographic map.

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 3 1952

October 31, 1952

Mr. Glen W. Faulkner
Director and General Manager
Monia Mining Co.
Box 115
Missoula, Montana

Re: Amended application for
Monia Mining Co., Inc.
Docket No. DMEA-2493

Dear Mr. Faulkner:

This is to acknowledge your letter of October 29 with a description of the exploration work proposed.

It will be submitted together with the amended application to Washington, D. C. for processing.

Sincerely yours

R. E. Wallace
For: A. M. Weissenborn
Executive Officer, DMEA
Field Team, Region II

cc: DMEA (2)
USBM (2)
Wallace
Docket

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

So. 157 Howard Street
Spokane 4, Washington

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
SPOKANE

NOV 3 1952

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Executive Officer, DMEA
Field Team, Region II

cc: DMEA (2)
USBM (2)
Wallace
Docket

10/31/52 gle

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 31 1952

Missoula, Mont.
Oct. 29, 1952.

A. E. Weissenborn,
Executive Officer, DMEA
Field Team, Region II
So. 157 Howard Street,
Spokane 4, Washington.

Copy

Dear Mr. Weissenborn:

Re: Amended Application for
MONIA MINING CO. INC.
Docket No. DMEA 2498

Reference is made to your letter of Oct. 27th, for clearification of the above captioned.

All of the developing work will be contingent upon the ore found thru core drilling. The reason Fred Honkala did not suggest any further work was that he thought we should await the results of the diamond drilling.

From a point 65 feet in from the portal of the tunnel, we hit milling ore which is blocked out now approximately fifty feet wide by eighty feet in depth, sampling from one to three and one-half percent.

We want to locate thru drilling, the leads in depth, that were found on the surface by stripping.

We have found ore on the surface from five to fifteen percent in copper, with some gold and silver. If we are able to locate this ore to balance out our milling ore, now blocked out, we will then continue our development program. That is the reason for applying for the additional mining costs. We feel confident in picking up at least one or more of these leads as exposed on the surface.

Note Schmidt

I would suggest that the drilling, engineering and assaying be approved, and the mining contingent upon the success of this operation.

Trusting this will clearify the questions involved.

Very truly yours,

GWF:ct

MONIA MINING CO. INC.

By - Geo W Faulkner

C O P Y

Department of the Interior
Bureau of Mines
OCT 31 1952

DEFENSE MINERALS EXPLORATION ADMINISTRATION

So. 157 Howard Street,
Spokane 4, Washington.

Oct. 27, 1952

Re: Docket No. DMEA 2498

Mr. Glen W.Faulkner
Monia Mining Co.
Box 1115
Missoula, Montana.

Dear Mr. Faulkner:

The revised application (Docket No. DMEA 2498) for assistance from the Defense Minerals Exploration Administration in conducting an exploration program at the Monia Mine has been revised by members of our staff here in Spokane.

The application as prepared does not include a specific statement of a proposed program; as to what work is planned and where it will be done. It is impossible, therefore, for the field team to make either a favorable or unfavorable recommendation to Washington. The field team is in agreement in a general way with most of the recommendations Mr. Fred S. Honkala made in his report to you, but the cost analysis attached to the applications suggest that the recommendations have not been followed. For example, apparently some tunnelling is planned as the cost analysis includes the labor of 2 miners, yet in Mr. Honkala's recommendations no underground work is included. In short, what work do you hope to do in the proposed exploration project?

If this proposed work could be tabulated and described, the field team would have a basis for making a recommendation to Washington.

If this office can be of any help, feel free to call upon us.

Very truly yours,

Signed A. E. Weissenborn,
Executive Officer, DMEA
Field Team, Tegion II

10/31/52 gla

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 31 1952

October 27, 1952

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Monia Mining Co.
Box 1115
Missoula, Montana

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Very truly yours

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

cc: DMEA (2)
USBM (2)
Wallace

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 31 1952

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Very truly yours

A. F. Weissenborn
Executive Officer, DMEA
Field Team, Region II

cc: DMEA (2)
USBM (2)
Wallace

10/23/52 fa

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 23 1952

Missoula, Montana.
Oct. 21st, 1952

Glenn C. Reed, Mining Engineer
or
T. E. Howard, Mining Engineer,
Mining Division, Region II
1201 N. Division Street,
Spokane 2, Washington.

Gentlemen:

Subject: Docket DMEA 2498 'copper');
amended application for
exploration aid

Enclosed find amended application for exploration aid, also amended statement of proposed expenditures, geological report and Reconnaissance maps.

We hope you will find these in order, and if there is any additional information needed, please advise.

Yours very truly,

GWF:ct
Encls.

MONIA MINING CO. INC.

By
Director & General Mgr.

c.c. Ernest Wm. Ellis, Chief
Rare and Misc. Metals Division

10/30/52 gla

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

1201 N. Division Street
Spokane 2, Washington

October 20, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 27 1952

Mr. G. W. Faulkner
Monia Mining Company
c/o Faulkner and Sutherland
Box 1115
Missoula, Montana

Subject: Application for exploration assistance, Monia Mine, Sanders County, Montana
Docket No. DMEA 2498 (copper)

Dear Mr. Faulkner:

This will acknowledge receipt of your letter of October 15, 1952 regarding equipment which you now own and which will be used for your proposed project.

Present regulations do not permit either purchase or rental of equipment owned by an Operator as allowable charges against an exploration project, however an allowance for depreciation on such equipment can be charged. Therefore it is suggested that your application show estimates of the costs of the items of equipment you propose to use in your exploration project. The allowable monthly rate of depreciation will be one-sixtieth (based on 5 years) of the present value of each piece of equipment.

If we can be of further assistance, please do not hesitate to inform us.

Sincerely yours,

Thomas E. Howard
Chief, DMEA
Bureau of Mines, Reg. II

TEH/MEV/vf

cc: DMEA, Wash. (2)
USGS (2)
DMEA
D/F

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
~~WASHINGTON 25, D. C.~~
1201 N. Division Street
Spokane 2, Washington

October 20, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 27 1952

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c/o Faulkner and Sutherland
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Sincerely yours,

Thomas E. Howard
Chief, DMEA
Bureau of Mines, Reg. II

TEH/MEV/vf

cc: DMEA, Wash. (2)
USGS (2)
DMEA
D/F

10/16/52 gla

BOX 1115

PHONE 2648

FAULKNER AND SUTHERLAND
INCORPORATED
MISSOULA, MONTANA

Oct. 13th, 1952.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 15 1952

AIRMAIL

Department of the Interior,
Defense Minerals Exploration Adm.
Washington 25, D.C.

Att: Ernest Wm. Ellis, Chief
Rare and Misc. Metals Division.

Re: Docket No. DMEA-2498 (Copper)
Monia Mine, Sanders County, Mont.

Dear Mr. Ellis:

This is to acknowledge your letter of October 8th, with reference to the above subject.

We have had quite a time trying to secure the services of a competent engineer to assist in completing this revised application; and only last weekend secured the services of engineers to go into the mine and get the necessary information for completing the field work.

We hope to have this revised program filed in the Spokane office within the next week or ten days.

Sincerely yours,

MONIA MINING COMPANY

Glenn Faulkner

c.c. W.J. Gordon

700
FILE COPY
SURNAME:

Schmidt

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

OCT 8 1952

Mr. George A. Sutherland, President
Monia Mining Company, Inc.
Box 1115
Missoula, Montana

Re: Docket No. DMEA-2498 (Copper)
Monia mine, Sanders County, Montana

Dear Mr. Sutherland:

A Field Team examination was made of the subject property in June. It was the opinion of the Field Team that the work proposed in your application was not adequate for the purpose intended. It is our understanding that you agreed with them on a more extensive program. This application has been held in abeyance since then, in the expectation of some decision on your part as to whether you plan to make a new or revised application along the lines suggested by the Field Team, or whether the work proposed in the present application has already been done and you have lost interest in proceeding further.

It is now nearly four months since this matter of a revised application was discussed with you, and unless some definite word is received from you by October 31, 1952, showing further interest in this matter, this office will consider it necessary to close the docket of the present application.

Should you wish to submit a new application some time in the future we will be pleased to give it the fullest consideration.

We would appreciate hearing from you to clarify the present uncertain status of this project.

Sincerely yours,

10-8-52

signed

Ernest Wm. Ellis, Chief
Rare and Misc. Metals Division

FSSchmidt/gla 10-6-52
cc to: Adm. Reading File
Docket
Messrs. Ned Nelson, Rm. 4216, GSA
C.H.Johnson, Rm. 3621
Ellis
Schmidt
DMEA Field Team, Region II (2)

Monia Mining Co Inc. DMEA 2498 copper notes by Schmidt

Application 4/10/52 Monia Mining Co by George A. Sutherland Pres.

5/8/52 Letter to Sutherland asking for more information. answered 5/12/52

The application was a very poor one. Very incomplete and showed lack of mining understanding. For instance they have no map of the property or sketch, and are not able to send one when it is requested. Sent fotografs which are useless.

See letter by Sutherland 5/12/52

~~Field referral 5/19/52 to Weissenborn~~

6/24/52

~~5/27/52 Reed for Regional office writes Monia Co asking for revised plan, since most of the original application work has been done~~

~~6/17/52 date of Field Team Report, received by us 9/16/52, enclosed in letter 9/11/52 by Weissenborn and Volin~~

Weissenborn thinks we should deny application because in June 1952, Reno of the Field Team contacted the applicant, and suggested that they submit a revised application to which applicant agreed. The idea was to have a broader program because the one submitted in the application would not be feasible.

No copy of this Reno broader plan has been received by us, and I do not know whether it involved bulldozing the surface to expose the outcrop, or to drill, or to sink test pits, or extend present tunnels, or make new ones.

This was not followed up by the applicant, and he has been reminded by letter several times and verbally once. Hence Weissenborn thinks we should deny and if applicant wants to come in again he should do so with a new application.

10/2/52 Chas Johnson disapproves denial because Field Team report exam. was cursory- Applicant not present - does not show why proposed underground work would have no exploratory value- no samples taken.

Conclusion

I do not get some of the points raised by Johnson. The most important one being that report does not show why proposed underground work would not have exploratory value.

What underground exploratory work? the application calls for the following wrk " We propose to use a shovel and remove the shale rock for approximately 120 feet in order to hit the lead at the base of the mountain" that is all.

No underground work involved. The work in the tunnel had nothing to do with the application. If the showing was so low grade that it did not require sampling, the field team should be trusted to use their judgement, and even if the owner was not there they should be able to size up the situation. (though it is better for the owner to be present)

While I do not agree with Charlie Johnsons reasons, I do think tht before we deny, that we should ascertain whether the applicant wishes to go ahead on the Reno program, and put in a revised or new application, or whether we should close the docket ad give him a time limit within which to do this. We can then deny after having given him every opportunity.

~~I take it that all the work of the original application has been done from the meagre description of the work planned in the application. The Field Team does not state this definitely but at least most of it is already done.~~

Sch.

9/30/52 pm

IN REPLY REFER TO:

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

September 29, 1952

Memorandum

To: Mr. E. Wm. Ellis

From: N. E. Nelson

Subject: DMEA-2498 (Copper) Monia Mine, Sanders County, Montana.

The conclusions of Mr. R. E. Wallace as given in his report on the Monia property are taken as fitting the actual conditions. However, mention of "high grade" and "good showing", in a 5-8 foot vein 1,000 feet long, suggests something other than visual samples should have been taken.

N. E. Nelson

Ned E. Nelson
Geologist

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

September 29, 1952

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N. E. Nelson

Ned E. Nelson
Geologist

10/3/52 jem

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

October 2, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 2 1952

Memorandum

To: E. W. Ellis, DMEA

From: C. H. Johnson, Bureau of Mines

Subject: DMEA-2498 (Copper) Monia Mining Company, Monia mine, Sanders County, Montana

I have reviewed the report by Wallace, dated June 17, 1952, and as the applicant has not submitted a revised project as agreed, I suggest that he be informed that the application will be considered as withdrawn unless he acts soon. The examination report is not an adequate basis for outright denial, as it states that it was cursory, that the applicant was not present, and as it does not clearly show why the proposed underground work would have no exploratory value. Incidentally, no samples were taken, and although the sampling probably would confirm the visual judgement, its absence weakens the case.

C. H. Johnson
C. H. Johnson

Copy to - Minerals Division
Base Metals Branch
N. E. Nelson, USGS
C. H. Johnson
Files

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

October 2, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 2 1952

Memorandum

To: M. W. Ellis, DMEA

From: C. H. Johnson, Bureau of Mines

Subject: DMEA-2498 (Copper) Monia Mining Company, Monia mine, Sanders County, Montana

I have reviewed the report by Wallace, dated June 17, 1952, and as the applicant has not submitted a revised project as agreed, I suggest that he be informed that the application will be considered as withdrawn unless he acts soon. The examination report is not an adequate basis for outright denial, as it states that it was cursory, that the applicant was not present, and as it does not clearly show why the proposed underground work would have no exploratory value. Incidentally, no samples were taken, and although the sampling probably would confirm the visual judgement, its absence weakens the case.

C. H. Johnson

C. H. Johnson

CHJohnson:ks
Copy to - Minerals Division
Base Metals Branch
N. E. Nelson, USGS
C. H. Johnson
Files

9/16/52 vgla

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
SEP 11 1952

September 11, 1952

Chairman, Operating Committee
Defense Minerals Exploration Administration
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-2498, Copper
Monia mine, Sanders County, Montana

Dear Sir:

Enclosed are four copies of a report on the Monia mine by R. E. Wallace, U. S. Geological Survey. The report recommends denial of the captioned application.

The DMEA examining team, of which Mr. Wallace was a member, visited the property and made their report early in June 1952. At that time they decided the exploration program proposed by the applicants would not be feasible, but that the Monia property might benefit from a broader scaled program. Following the examination, Mr. Reno, U. S. Bureau of Mines, contacted the applicants and suggested that they submit a revised application to which the applicants agreed. To date the applicants have failed to submit the revised application although they have been reminded by letter on different occasions and at least once verbally.

In view of the time that has elapsed since the field examination and the apparent disinterest by the applicants, the subject report is being forwarded for consideration with the recommendation that the application be denied. If the applicants present a more plausible exploration program at a future date, it should be considered as a new application and processed as such.

By DMEA Field Team, Region II

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

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

Enclosure
cc: USBM
R. Wallace

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

So. 157 Howard Street
Spokane 4, Washington

June 17, 1952

Memorandum

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

From: R. E. Wallace, Geologist, U. S. Geological Survey

Subject: Monia mine, Sanders County, Montana, field examination. Docket No. DMEA-2498, Copper.

Examination

An examination of the Monia Mining Company's property, formerly the Sales mine, was made in the company of Mr. Horace Reno of the Bureau of Mines and Mr. J. W. Hosterman of the U. S. Geological Survey on June 12. Only about two hours were spent at the property; thus this report is necessarily of cursory nature.

Location and Accessibility

The Monia mine is located in Sanders County, Montana, approximately 36 miles by road northeast of Thompson Falls, Montana, and 7 miles northwest of Bend Ranger Station. The 4 claims lie in sections 1 and 6 of T. 25 N. and R. 27 and 28 W. shown on U. S. Geological Survey, Thompson Falls Quadrangle topographic map.

A fairly good gravel road used for logging trucks extends between Thompson Falls and Bend, and a passable dirt road continues from Bend to the property. Road signs still refer to the property as the Sales mine.

The area is very sparsely populated and is essentially a primitive area.

Workings and Facilities

Workings include 2 old adits, one adit being driven at present, and open cuts as shown on the accompanying sketch. All adits are open although the 2 old ones are in poor condition. The lowest adit is near creek level and is about 300 feet long. The adit being driven is about 30 feet long and located several hundred feet above the lowest tunnel. A third tunnel is 50 feet higher and is about 100 feet long.

A D-4 Catepillar bulldozer and a shovel have been used to expose the vein in 4 large, step-like open cuts and trenches over a vertical distance of about 100 feet and for a length of over 300 feet.

A compressor is located in a small frame building near the middle adit, and several frame buildings used for bunk house and storage are located in the valley bottom a few hundred feet north of the lowest portal. A D-4 bulldozer was on the property at the time of examination, but the shovel, rented from the County, had been returned after about one month of use in May.

Geology

Copper minerals, including malachite, azurite, chrysocolla, tenorite and chalcopyrite are distributed along bedding planes, numerous joints, and several small faults in steeply-dipping quartzite beds, forming a vein zone from 5 to 8 feet wide paralleling bedding.

Quartzites forming the country rock may be part of the Ravelli formation of pre-Cambrian, Belt series. Beds of quartzite range from a few inches to 2 feet thick and thin beds of argillite are not uncommon. In general the beds dip steeply southwest and strike northwest. In the uppermost open cut the beds are overturned, and there small high-grade pods of copper minerals have been deposited (see sketch). Apparently in being overturned, openings were produced in the quartzite beds which served as favorable points of deposition for ore minerals. Small, irregular faults cut these overturned beds and have also served as loci for ore mineral deposition.

The vein zone is well exposed for about 300 feet in the open cuts, and Mr. Reno reported finding float of vein material approximately along strike, over 1,000 feet southeast of the open cuts.

Several small faults dipping shallowly westward were exposed in the face of the adit being driven at present, and there appears to have been a few feet offset of the vein zone at several places. The exact location and attitude of faults responsible was not determined, but are assumed because of the observed discontinuity of strike and dip of the vein zone.

In the uppermost adit a fault with about 2 inches of gouge, strikes N. 40 W. and dips 80 degrees southwest and is essentially a bedding plane fault although locally beds are truncated. In this tunnel a pod of vein material about 30 feet long and ranging from a fraction of an inch to 2 feet wide is exposed approximately down dip from the good showing in the uppermost cut.

Proposed Exploration

In the application exploration for which assistance is requested is to include open cutting and tunneling. The proposed open cutting apparently has been accomplished and thus could not be included in the proposed contract.

Action, Conclusions, and Recommendations

Mr. Reno is to get in touch with the operators, who were not present at the time of examination, to determine if they have any alterations of plans, inasmuch as the present proposal has been partially completed already.

The width and apparent length of the vein zone, as indicated by exposures and float, show extensive distribution of copper minerals, but when examined, visual estimate indicated grades averaging less than 1 percent. Only pods of a few inches width and a few feet long were seen from which high-grade samples could be selected. Assays presented with the application must have been across exceptional parts of the vein zone, and it is felt no great tonnage of ore of comparable grade could be recovered near the present open cuts.

The distribution of copper mineralization over a distance of 1,000 feet and more opens the possibility of greater concentrations at some points than at any points seen. With such pervasive distribution, a favorable structure could have caused the formation of an ore body, but the structural geology of the area is not well enough known to predict where such a possible ore body might be found.

The proposed exploration program is not suitable to search for such a possible high-grade portion of the vein zone, but rather approaches a development program of a portion of the mineralized body which is almost certainly too low-grade to mine even under very favorable conditions. This property is in relatively inaccessible country, far from rail transportation and certainly higher-than-average-grade would be necessary for economic mining.

The present exploration plan proposed must necessarily be denied as not carrying any good possibility of finding minable ore. If Mr. Reno finds that the operators wish to conduct an entirely different type of exploration program of a broader-scale, exploratory nature, the property should be re-examined more carefully and completely and the new proposal considered.

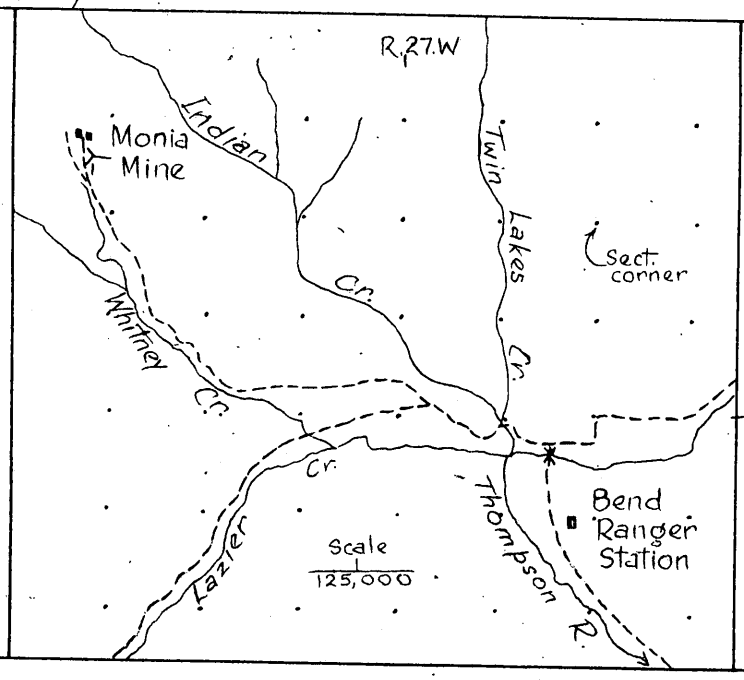
Robert E. Wallace

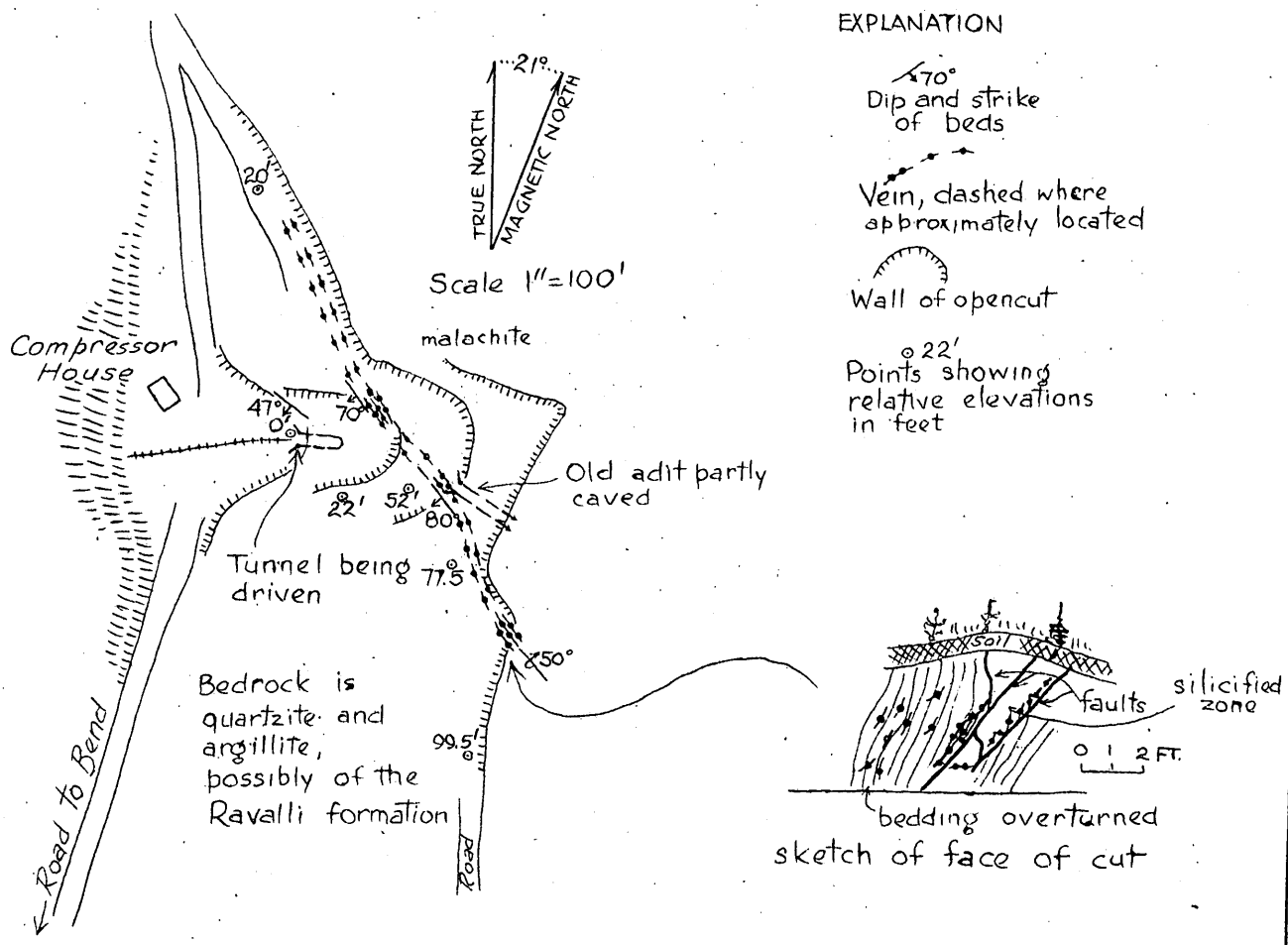
Enclosure

cc: USBM, Albany
USBM, Spokane
USGS (SRO)

Department of the Interior
U.S. Geological Survey

D.M.E.A.
Docket No.





SKETCH MAP OF
MONIA MINE
SANDERS COUNTY, MONTANA

R.E. WALLACE
J.W. HOSTERMAN
JUNE 12, 1952

9/22/52 file
Jas

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

September 11, 1952

Chairman, Operating Committee
Defense Minerals Exploration Administration
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-2403, Copper
Monia mine, Sanders County, Montana

Dear Sir:

Enclosed are four copies of a report on the Monia mine by R. S. Wallace, U. S. Geological Survey. The report recommends denial of the captioned application.

The DMEA examining team, of which Mr. Wallace was a member, visited the property and made their report early in June 1952. At that time they decided the exploration program proposed by the applicants would not be feasible, but that the Monia property might benefit from a broader scaled program. Following the examination, Mr. Reno, U. S. Bureau of Mines, contacted the applicants and suggested that they submit a revised application to which the applicants agreed. To date the applicants have failed to submit the revised application although they have been reminded by letter on different occasions and at least once verbally.

In view of the time that has elapsed since the field examination and the apparent disinterest by the applicants, the subject report is being forwarded for consideration with the recommendation that the application be denied. If the applicants present a more plausible exploration program at a future date, it should be considered as a new application and processed as such.

By DMEA Field Team, Region II

Bureau of Mines
Defense Minerals Administration
SEP 1 1952

A. S. Matzenbern, Executive Officer
(U. S. Geological Survey)

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

Enclosure
cc: DMEA
R. Wallace

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
SEP 16 1952

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

[illegible] Howard Street
[illegible] 4, Washington

June 17, 1952

Memorandum

To: A. L. Weisenborn, Dist. Officer, DMA Field Team, Region II

From: R. L. Wallace, Geologist, U. S. Geological Survey

Subject: Monie mine, Sanders County, Montana, field examination.

Docket No. DMEA-2498, Copper.

Examination

An examination of the Monie Mining Company's property, formerly the Bates mine, was made in the company of Mr. Bonce Bond of the Bureau of Mines and Mr. J. W. Hosterman of the U. S. Geological Survey on June 12. Only about two hours were spent at the property; thus this report is necessarily of cursory nature.

Location and Accessibility

The Monie mine is located in Sanders County, Montana, approximately 3½ miles by road northeast of Thompson Falls, Montana, and 4 miles northwest of Bend Ranger Station. The 4 claims lie in sections 1 and 6 of T. 23 N. and R. 27 and 28 W. shown on U. S. Geological Survey, Thompson Falls quadrangle topographic map.

A fairly good gravel road used for logging trucks extends between Thompson Falls and Bend, and a passable dirt road continues from Bend to the property. Road signs still refer to the property as the Bates mine.

The area is very sparsely populated and is essentially a primitive area.

Workings and Facilities

Workings include 2 old adits, one adit being driven at present, and open cuts as shown on the accompanying sketch. All adits are open although the 2 old ones are in poor condition. The lowest adit is near creek level and is about 300 feet long. The adit being driven is about 30 feet long and located several hundred feet above the lowest tunnel. A third tunnel is 30 feet higher and is about 100 feet long.

Reviewed by
DMEA OPERATING COMMITTEE

(date)

A D-4 Catepillar bulldozer and a shovel have been used to expose the vein in 4 large, step-like open cuts and trenches over a vertical distance of about 100 feet and for a length of over 300 feet.

A compressor is located in a small frame building near the middle adit, and several frame buildings used for bunk house and storage are located in the valley bottom a few hundred feet north of the lowest portal. A D-4 bulldozer was on the property at the time of examination, but the shovel, rented from the County, had been returned after about one month of use in May.

Geology

Copper minerals, including malachite, azurite, chrysocolla, tenorite and chalcopyrite are distributed along bedding planes, numerous joints, and several small faults in steeply-dipping quartzite beds, forming a vein zone from 5 to 8 feet wide paralleling bedding.

Quartzites forming the country rock may be part of the Ravelli formation of pre-Cambrian, Belt series. Beds of quartzite range from a few inches to 2 feet thick and thin beds of argillite are not uncommon. In general the beds dip steeply southwest and strike northwest. In the uppermost open cut the beds are overturned, and there small high-grade pods of copper minerals have been deposited (see sketch). Apparently in being overturned, openings were produced in the quartzite beds which served as favorable points of deposition for ore minerals. Small, irregular faults cut these overturned beds and have also served as loci for ore mineral deposition.

The vein zone is well exposed for about 300 feet in the open cuts, and Mr. Reno reported finding float of vein material approximately along strike, over 1,000 feet southeast of the open cuts.

Several small faults dipping shallowly westward were exposed in the face of the adit being driven at present, and there appears to have been a few feet offset of the vein zone at several places. The exact location and attitude of faults responsible was not determined, but are assumed because of the observed discontinuity of strike and dip of the vein zone.

In the uppermost adit a fault with about 2 inches of gouge, strikes N. 40 W. and dips 80 degrees southwest and is essentially a bedding plane fault although locally beds are truncated. In this tunnel a pod of vein material about 30 feet long and ranging from a fraction of an inch to 2 feet wide is exposed approximately down dip from the good showing in the uppermost cut.

Proposed Exploration

In the application exploration for which assistance is requested is to include open cutting and tunneling. The proposed open cutting apparently has been accomplished and thus could not be included in the proposed contract.

Action, Conclusions, and Recommendations

Mr. Reno is to get in touch with the operators, who were not present at the time of examination, to determine if they have any alterations of plans, inasmuch as the present proposal has been partially completed already.

The width and apparent length of the vein zone, as indicated by exposures and float, show extensive distribution of copper minerals, but when examined, visual estimate indicated grades averaging less than 1 percent. Only pods of a few inches width and a few feet long were seen from which high-grade samples could be selected. Assays presented with the application must have been across exceptional parts of the vein zone, and it is felt no great tonnage of ore of comparable grade could be recovered near the present open cuts.

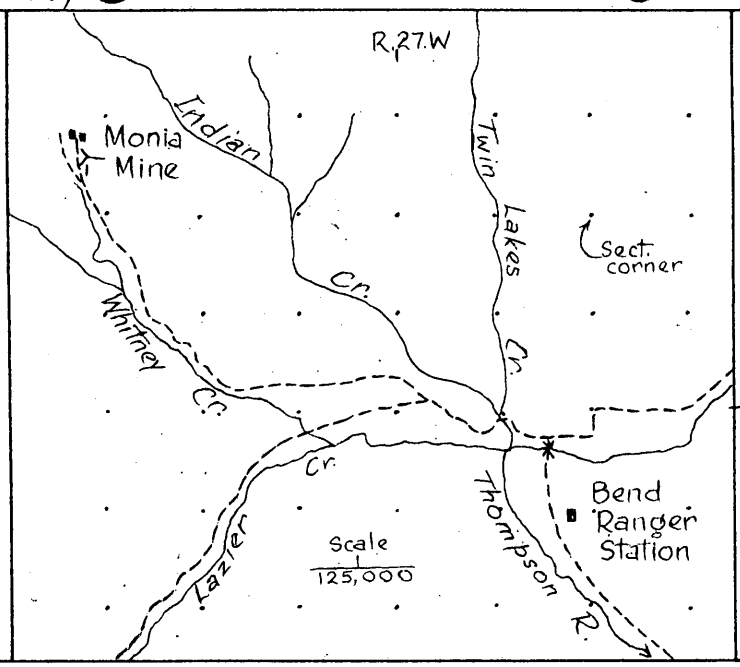
The distribution of copper mineralization over a distance of 1,000 feet and more opens the possibility of greater concentrations at some points than at any points seen. With such pervasive distribution, a favorable structure could have caused the formation of an ore body, but the structural geology of the area is not well enough known to predict where such a possible ore body might be found.

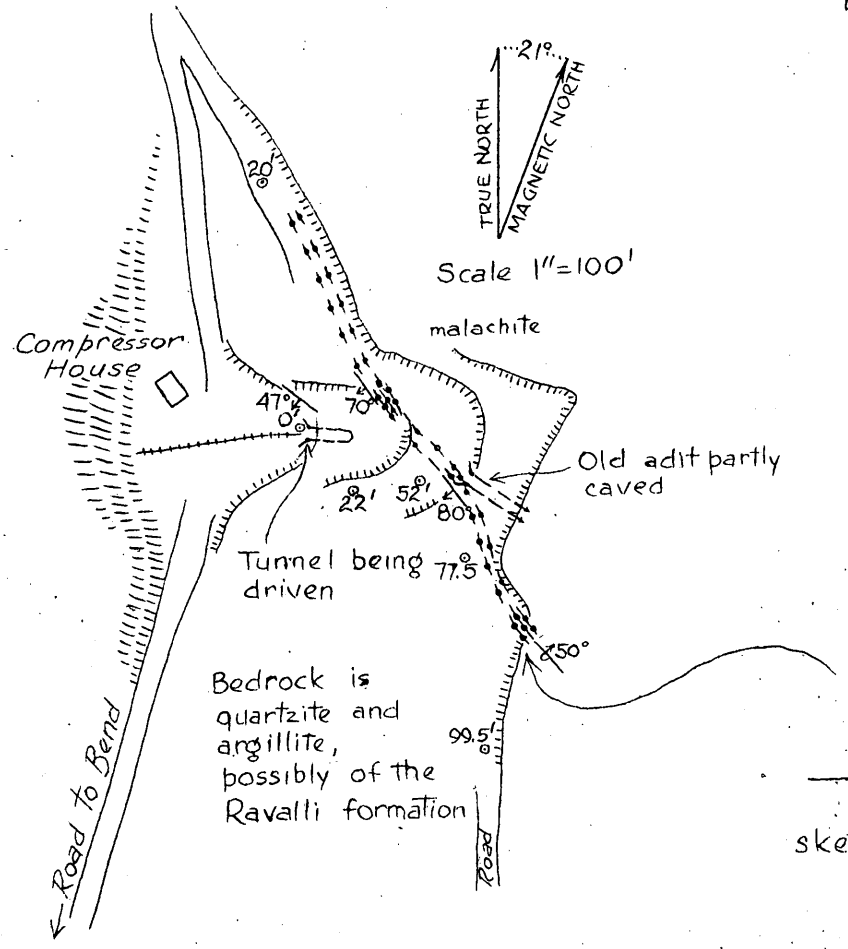
The proposed exploration program is not suitable to search for such a possible high-grade portion of the vein zone, but rather approaches a development program of a portion of the mineralized body which is almost certainly too low-grade to mine even under very favorable conditions. This property is in relatively inaccessible country, far from rail transportation and certainly higher-than-average-grade would be necessary for economic mining.

The present exploration plan proposed must necessarily be denied as not carrying any good possibility of finding minable ore. If Mr. Reno finds that the operators wish to conduct an entirely different type of exploration program of a broader-scale, exploratory nature, the property should be re-examined more carefully and completely and the new proposal considered.

Enclosure

cc: USBM, Albany
USBM, Spokane
USGS (SRO)





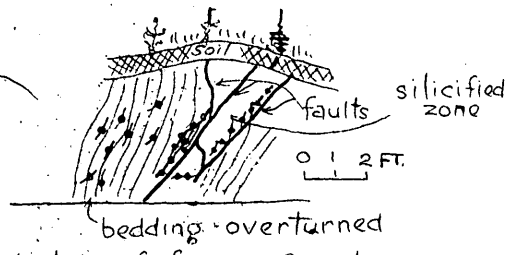
EXPLANATION

70° Dip and strike of beds

Vein, dashed where approximately located

Wall of opencut

22' Points showing relative elevations in feet



sketch of face of cut

SKETCH MAP OF MONIA MINE SANDERS COUNTY, MONTANA

R.E. WALLACE
J.W. HOSTERMAN
JUNE 12, 1952

8/6/52 gla SD

1201 North Division Street,
Spokane 2, Washington

July 30, 1952

Mr. Glen W. Faulkner
Monia Mining Company
Box 1115
Missoula, Montana

Subject: Docket DMEA 2498 (copper); amended application for exploration aid.

Dear Mr. Faulkner:

Reference is made to your letter of July 22, 1952 concerning the method of presenting further information in connection with your application for exploration aid.

It is not necessary for you to again file a complete set of form MF-103. Information applicable to the present status of the project need not be repeated. However, as the work originally proposed has now been substantially completed, a revised proposal as outlined in my letter of July 2, should be submitted. Form MF-103 may be of assistance to you in preparing the detailed cost estimates required.

Sincerely yours,

GCR:w

Glenn C. Reed
Mining Engineer
Mining Division, Region II

cc: USGS (2)
Wash.(2)
DMEA
GCR
DF

1201 North Division Street,
Spokane 2, Washington

July 30, 1952

Mr. Glen W. Faulkner
Monia Mining Company
Box 1115
Missoula, Montana

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Sincerely yours,

GCRrw

Glenn C. Reed
Mining Engineer
Mining Division, Region II

cc: USGS (2)
Wash.(2)
DMEA
GCR
DF

1201 N. Division St.
Spokane 2, Wash.
July 2, 1952

Mr. Glen W. Faulkner
Monia Mining Company
Box 1115
Missoula, Montana

Subject: Docket DMEA 2498 (copper); amended application for exploration aid

Dear Mr. Faulkner:

Reference is made to your letter of June 25, 1952, concerning the character of information required in support of a request for exploration assistance.

In general, it is preferred that an applicant present an integrated proposal for consideration. It is observed that your proposal goes no farther than exposure of the vein at the base of the mountain. With this single exposure a firm evaluation of the property would be difficult if not impossible.

The proposal should indicate the character of the target area together with the method or methods of probing this area. Detailed cost estimates of all phases of the jobs are required.

Information available to this office indicates the advisability of a program set up on a step basis with performance of successive steps contingent on results obtained from preceding work. If your organization is inexperienced in exploration and mining techniques you may find it advantageous to obtain the assistance of a qualified professional man.

A set of form MF-103 is enclosed for your convenience. If we can assist you in any way please do not hesitate to call on us.

Sincerely yours,

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 7 1952

GCR/he

Glenn C. Reed
Mining Engineer
Mining Division, Region II

Enclosure

cc: USGS (2)
Wash. (2)
DMEA
HTR
DF

1222 W. Division St.
Spokane 2, Wash.
July 2, 1952

Mr. Glen W. Faulkner
Ronia Mining Company
Box 1115
Missoula, Montana

Subject: Docket DMA 2490 (copper); amended application for exploration aid

Dear Mr. Faulkner:

Reference is made to your letter of June 23, 1952, concerning the character of information required in support of a request for exploration assistance.

In general, it is preferred that an applicant present an integrated proposal for consideration. It is observed that your proposal goes no farther than exposure of the vein at the base of the mountain. With this single exposure a firm evaluation of the property would be difficult if not impossible.

The proposal should indicate the character of the target area together with the method or methods of probing this area. Detailed cost estimates of all phases of the job are required.

Information available to this office indicates the advisability of a program set up on a step basis with performance of successive steps contingent on results obtained from preceding work. If your organization is inexperienced in exploration and mining techniques you may find it advantageous to obtain the assistance of a qualified professional man.

A set of form MP-103 is enclosed for your convenience. If we can assist you in any way please do not hesitate to call on us.

Sincerely yours,

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 7 1952

GCR/he

Glenn C. Reed
Mining Engineer
Mining Division, Region II

Enclosure

cc: USGS (2)
Wash.(2)
DMEA
HTR
DF

6/20/52

Done call from Bertsch to pg field team exam made 6/16 wanted to know whether we had recd it.

We have not

1201 N. Division St.
Spokane 2, Wash.
June 24, 1952

Monia Mining Company
Box 1115
Missoula, Montana

Subject: Application for exploration aid,
Docket DMEA 2498 (copper)

Gentlemen:

Inasmuch as most of the exploration work outlined in the subject application is complete, it is suggested that a revised plan be submitted. This plan should state specifically the location and extent of the work and should be accompanied by a sketch map showing the pertinent topographic features, together with the location and extent of the proposed work.

Sincerely yours,

Glenn C. Reed
Mining Engineer
Mining Division, Region II

HTR/GCR/he

cc: USGS
Wash. (2)
DMEA
DF
HTR

1201 N. Division St.
Spokane 2, Wash.
June 24, 1952

Monia Mining Company
Box 1115
Missoula, Montana

Subject: Application for exploration aid,
Docket DMEA 2498 (copper)

Gentlemen:

Inasmuch as most of the exploration work outlined in the subject application is complete, it is suggested that a revised plan be submitted. This plan should state specifically the location and extent of the work and should be accompanied by a sketch map showing the pertinent topographic features, together with the location and extent of the proposed work.

Sincerely yours,

Glenn C. Reed
Mining Engineer
Mining Division, Region II

HTR/GCR/he

cc: USGS
Wash. (2)
DMEA
DF
HTR

FILE COPY
SURNAME:

700
Schmidt
Ellis

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

JUN 16 1952

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

Re: Doc et No. DMA-2496 (Copper)
Monia Mining Company
Sanders County, Montana

Dear Mr. Weissenborn:

Pursuant to our telephone conversation of yesterday our records show that a copy of the original application DMA-2496 was mailed to your office April 23, 1952. In view of the fact that we have written you a Field referral on May 19, 1952, and you have not received the application we are herewith mailing you the following:

Application DMA-2496, Form MT-103.
General Technical Data, Form MT-100.
Copy of our letter to President Sutherland of the Monia Mining Co. asking for additional information 5/8/52.
Copy of letter by Mr. Sutherland 6/12/52 replying to ours of 5/8/52.

You have our letter of May 19, 1952 in which it is pointed out that applicant had not as yet received Owners Consent to Lien MT-177. Since we have no later advices it is suggested that this matter be cleared first.

Sincerely yours,

(Signed) FRANK E. JOHNSON
Chairman, Operating Committee

Enclosures

FESchmidt/jem
6/12/52
cc to: Adm. Reading File
Docket
Messrs. CHJohnson-3621
Ned Nelson-4216 GS
Ellis Schmidt
Opr. Committee
Field Team, Region II

APPROVED:
Charles N. Merrill
Member, Bureau of Mines

D. M. Lemmon
Member, Geological Survey

6/16
(GS)

copper

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

June 11, 1952

Mr. George A. Sutherland
Box 1155
Missoula, Montana

Subject: Docket DMEA-2498
Monia Mining Company

Dear Mr. Sutherland:

This office has received a referral from Washington on the above mentioned docket. To date we have not received a copy of the application. As soon as the application is received from Washington, we will schedule a field examination of your property.

Sincerely yours,

Kathryn Gray
For: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

cc: Ernest Wm. Ellis ✓
DMEA
Wash; D. C.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 13 1952

FILE COPY
SURNAME:

Schmidt
Ellis

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

AIR MAIL

MAY 18 1952

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

Re: Docket No. DMEA-2498 (Copper)
Monia Mining Company
Sanders County, Montana

Dear Mr. Weissenborn:

The captioned application is being referred to you for a field examination. The application of the Monia Mining Company is not typical of those sent to you for a Field Team examination. This office has not considered the application as being satisfactory, which is evidenced by our letter of May 7. The enclosed copy of Applicant's reply does not supply the requested data, probably due to a lack of understanding of our requirements.

Our records show that a copy of the application has been forwarded to you.

In spite of the deficiencies in the application, the assays and the widths of ore reported together with the present shovel work indicate that a field examination would be justified.

It will be noted from Applicant's letter of May 12 that he is contacting the owners concerning their willingness to sign Form MF-203, "Owner's Consent to Lien". Unless there is assurance that this consent can be obtained, further investigation will naturally not be justified.

Sincerely yours,

5/19

(signed) FRANK E. JOHNSON

Chairman, Operating Committee

Enclosure

APPROVED:

M. H. Hedges

For Bureau of Mines

D. M. Lemmon

For Geological Survey

FSSchmidt/gla 5-16-52
cc to: Adm. Reading File
Operating Committee
Docket
Messrs. C. H. Johnson, Rm. 3621
Ned Nelson, Rm. 4216, GSA
Ellis
Schmidt

700
FILE COPY
SURNAME:

Schmidt
Ellis
Lemmon
Johnson

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

MAY 19 1952

Mr. George A. Sutherland, President
Monia Mining Company, Inc.
Box 1115
Missoula, Montana

Re: Docket No. DMEA-2498 (Copper)
4 claims, Sanders County, Montana

Dear Mr. Sutherland:

Your application for assistance in exploring your property located in the above County, under the above captioned docket number, has been reviewed by the Rare and Miscellaneous Metals Division of the Defense Minerals Exploration Administration and has been referred to Mr. A. E. Weissenborn, Executive Officer, DMEA Field Team, Region II, South 157 Howard Street, Spokane 8, Washington, for a field examination.

The Regional Office will contact you at the earliest opportunity in regard to your project.

Sincerely yours,

C. O. Mittendorf (for) 5/19

Acting Administrator

FSSchmidt/gla
5-16-52
cc to: Adm. Reading File
Docket
Messrs. C. H. Johnson, Rm. 3621
Ned Nelson, Rm. 4216, GSA
Ellis
Schmidt
DMEA Field Team, Region II (2)

BOX 1115

PHONE 2648

5/14/52 gla

FAULKNER AND SUTHERLAND

INCORPORATED

MISSOULA, MONTANA

1 copy

5 copies

May 12th, 1952.

Department of the Interior
Defense Minerals Exploration Adm.
RECEIVED
MAY 14 1952

Department of the Interior,
Defense Minerals Exploration Adm,,
Washington 25, D.C.

Att: Ernest Wm. Ellis, Chief
Rare and Misc. Metals Division:

Re: Docket No. DMEA-2498 -(Copper)
Monia Mining Company
Sanders County, Montana.

Dear Mr. Ellis:

Replying to your airmail letter of the 8th, with respect to our application (form MF-103). Further explanation herewith:

3(a): In descripting the work, we are unable to add anything to the original report; and thought that the pictures would help to give you a better idea of the work to be done.

The cost was given on the application at approximately $20,000 while the detailed statement amounted to only $18,685. I should explain this by saying that I don't feel competent to estimate a job of this kind without some flexibility, and the difference of $1,315.00 could be added for the purchase of equipment, making the total $20,000.

3(b): The preliminary work has been completed, and we feel that ninety days will be sufficient time to complete the project.

4: We do not have a map or sketch of the property, but thought the pictures enclosed with the application would be sufficient. However have drawn graff, enclosed herewith.

10 (a) We are prepared to invest one-half of the cost estimate of the project, namely $10,000.

With reference to engineers, we cannot secure reports of any of the three men mentioned in our report, as Mr. Melrose was working for the Milwaukee Railroad, Mr. Bolton was with the Northern Pacific Railway and Mr. Steel, was with the Anaconda Copper Mining Company at the time their inspections were made, and they are not permitted to make reports in writing.

I have just called Billings, and they inform me that all the maps, reports etc. are confidential and they are not permitted to let them out of the office. If you deem it necessary, we can, no doubt employ the services of W. J. Melrose,

BOX 1115 PHONE 2648

FAULKNER AND SUTHERLAND
INCORPORATED
MISSOULA, MONTANA

who is now associated with Frank Eichelberger and Associates, of Spokane, Washington. However, we were informed that you would have an engineer out of Spokane,make an inspection of the property, and we do not want to spend money for this service, unless it is necessary.

A report from your engineer would also complete the information requested under 3 (a) and 4.

Upon receipt of this letter, we would appreciate your advise as to whether we should expend money for a complete survey by Mr. Melrose or some other engineer.

F.M. & S. Mining Company is owned by George A. Sutherland and Glen W. Faulkner, individuals who acquired the Sales Brothers lease thru purchase in 1949 and had paid, on the lease, at the time of transfer to the Monia Mining Company, the sum of $2,850.00 and had spent approximately $12,000.00 on stripping work and road building.

In 1951, we had a new lease drawn direct to the F.M.& S. Mining Company, as the old lease had several assignments on it.

In March of 1952, we sold to the Monia Mining Company for a small amount of cash and stock, the purpose of the new company being to develop the property.

Since making application the Monia Mining Company has built a bunk house, cook house, and have a compresor, gas shovel and two trucks working.

We are writing to the Sales Brothers today to see if they will give their consent to the lien, which we feel sure they will do.

We are desirous of spending as little money for renting equipment as possible, as we want to buy outright the needed equipment such as a truck, compressor, etc; so will appreciate anything you can do to speed this thing along.

Thanking you for your consideration, and awaiting your further advice,

Sincerely yours,

GAS:ct

MONIA MINING COMPANY

By George A. Sutherland

C
O
P
Y

FAULKNER AND SUTHERLAND
Missoula, Montana

May 12th, 1952

Department of the Interior
Defense Minerals Exploration Adm.,
Washington 25, D.C.

Att: Ernest Wm. Ellis, Chief
Rare and Misc. Metals Division:

Re: Docket No. DMEA-2498 - (Copper)
Monia Mining Company
Sanders County, Montana

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3(b): The preliminary work has been completed, and we feel that ninety days will be sufficient time to complete the project.

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I have just called Billings, and they inform mer that all the maps, reports etc. are confidential and they are not permitted to let them out of the office. If you deem it necessary, we can, no doubt employ the services of W. J. Melrose,

who is now associated with Frank Eichelberger and Associates, of Spokane, Washington. However, we were informed that you would have an engineer out of Spokane, make an inspection of the property, and we do not want to spend money for this service, unless it is necessary.

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We are desirous of spending as little money for renting equipment as possible, as we want to buy outright the needed equipment such as a truck, compressor, etc; so will appreciate anything you can do to speed this thing along.

Thanking you for your consideration, and awaiting your further advice,

Sincerely yours,

GAS:ct

MONIA MINING COMPANY

By /s/ George Sutherland

700
FILE COPY
SURNAME:

Schmidt

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

MAY 8 1952

AIR MAIL

Mr. George Sutherland, President
Monia Mining Company, Inc.
Box 1115
Missoula, Montana

Re: Docket No. MMA-2498 (Copper)
Monia Mining Company
Sanders County, Montana

Dear Mr. Sutherland:

In order that your application may be completed several points need clarification.

Since the Monia Mining Company does not own the mining claims involved, it would be necessary to protect the Government's rights, by obtaining the signatures of the owners, to the enclosed Form MR-43 (Owners Consent to Lien) in the event that a contract should result from this application.

We are not asking you at this time to have this form executed by the owners, but it will be necessary before we proceed further, to be assured by you that the owners do not object to the signing of this "Owners Consent to Lien."

With respect to your application (form MR-103):

3 (a): The proposed exploration work is not adequately described. The description of this work is as follows: "We propose to use a shovel and remove the scale rock for approximately 120 feet in order to hit the lead at the base of the mountain." It is impossible for us to make any deductions from such a brief description.

The cost is given as "approximately $20,000.00" and the detailed statement adds up to $18,685.00. Any contract application must be based on some definite figure.

3 (b): There is no statement as to the time required to complete the project.

4: A map or sketch is required showing present workings, and the proposed exploration work. The application fails to provide any data of this kind which is needed to pass on the advisability of this proposed work.

10 (a): Requires the statement of a definite amount of money, in this case one-half of the cost estimate of the project.

Assay reports of six samples are provided, but there is no data as to where the samples were taken, and their significance cannot be appraised.

In view of the fact that several engineers are named as being familiar with the property, it would be helpful if some reports from these engineers could be provided.

Incidentally, it would be of interest to know what the name is of the "F. M. & S. Mining Company."

On receipt of this required information your application will again be reviewed.

Sincerely yours,

Signed

Ernest Wm. Ellis, Chief
Rare and Misc. Metals Division
Defense Minerals Exploration
Administration.

Enclosure

FSSchmidt/gla
5-7-52
cc to: Adm. Reading File
Docket
Messrs. C.H.Johnson, Rm. 3621
Ned Nelson, Rm. 4216 GSA
Ellis
Schmidt
DMEA Field Team, Region II (2)

MP-103

MONIA MINING CO. INC.
Box 1115
Missoula, Montana.

J. W. Melrose in May 1950 was Geologist for Chi. Mil. & St Paul RR, at Spokane

11. History of the Property

These mining claims were filed on by the Sales Brothers about sixty years ago, and patented by them sometime later.

They leased the property to mining people from Spokane, Washington, who drove a tunnel 300' in the direction of the strike and at that point made a right angle turn and followed a high grade stringer for approximately 300'; but in so doing, they were parralleling the lead, as located later by the F.M. & S. Mining Company, when stripping on the surface.

The lease was purchased under contract by the F.M. & S. Mining Company in 1949 and the tunnel was cleaned out and a thorough inspection made by Walter Melrose, a competent Engineer from Spokane. Mr. Melrose advised us to discontinue work in the tunnel and the work we are doing, and contemplate doing, is upon his advice.

The F. M. & S. Mining Company have transferred their interest to the MONIA MINING COMPANY, INC, which has been formed to develop this property.

For many years this property was accessable only by pack horse, but the State and various logging concerns have graveled the first thirty miles out of Thompson Falls, and we now have a good dirt road the balance of the way to the mine.

We have done sufficient prospecting and developing work to feel confident that we should be mining ore within thirty days after the work is started. If the ore is of commercial shipping value we should be in full production on or before ninety days. If it will require a mill, this we will be able to determine very shortly. The samples all indicate that we should, without a doubt, have a valuable mine.

We are grateful to the following mining engineers who have been of great assistance to us in prospecting this property:

W. J. MELROSE, associated with Frank Eichelberger, of Spokane, Washington, and formerly with the Milwaukee Railroad; for his assistance in supervising the stripping.

MR. BOLTON, of Billings, Montana, with the Northern Pacific Railway, for engineering work.

And, MR. CHARTER STEEL, head Geologist for the Anaconda Copper Mining Company at Butte, Montana; whose advise we are following in using the shovel to open drift on the lead.

MONTANA LABORATORY COMPANY

CHEMISTS AND ASSAYERS

Philipsburg, Montana, August 9, 1950

The Following Analyses Were Made For F. W. S. Mining Company

	Per Cent H_2O	Ozs. Silver Per Ton	Ozs. Gold Per Ton	$ Gold Per Ton	Per Cent Copper	Per Cent Mn. Dioxide	Per Cent Iron	Per Cent Lead	Per Cent Manganese	Per Cent Silica	Per Cent Zinc
#1		0.4	.001		0.41						
2		2.7	.020		13.67	-67	(6 Ft.)	0.10			
3		0.6	.020		2.65						
4		4.0	.010		12.85	-64	(6 Ft.)				

MONTANA LABORATORY COMPANY

By W. L. [illegible]

MONTANA LABORATORY COMPANY

CHEMISTS AND ASSAYERS

Philipsburg, Montana, August 21, 1950

The Following Analyses Were Made For F. W. S. Mining Company

	Per Cent H_2O	Ozs. Silver Per Ton	Ozs. Gold Per Ton	$ Gold Per Ton	Per Cent Copper	Per Cent Mn. Dioxide	Per Cent Iron	Per Cent Lead	Per Cent Manganese	Per Cent Silica	Per Cent Zinc
#6		1.6	.020		5.15		Over 10 ft.				
7		0.3	.001		0.61		(Across 10 ft.)				

MONTANA LABORATORY COMPANY

By W. L. [illegible]

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA
FOR USE UNDER THE
DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMEA-2496

Date received 4-23-52

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 23 1952

MONIA MINING CO. INC.
Box 1115
Missoula, Montana

Name and address of applicant

Date April 10, 1952

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products? Copper
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production _____

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

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

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

Name and Address	Official Title (If officer is also director indicate by "D")	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year	Estimated Net Worth Outside of Interest in Applicant	Number of Shares Held in Applicant Corporation		Life Insurance Carried for Benefit of Applicant	
				Common	Preferred	Amount	Net Cash Surrender Value After Loans
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
GEORGE A. SUTHERLAND Missoula, Montana	President	none	75,000	12,500		none	
F. E. BUCK Butte, Montana	Sec'y-Treas.	none	150,000	5,000		none	
WM. J. GORDON Dubuque, Iowa	Vice-Pres.	none		5,000		none	
C. H. RICHARDSON Dubuque, Iowa	Stockholder	none	250,000	3,200		none	
GLEN W. FAULKNER Missoula, Montana	Stockholder	none	150,000	12,500		none	
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$ 150,000	$ 45,525	$ 1.00	45,525	none
Preferred stock	$ none	$ none	$ none	none	none

*Indicate period covered.

10. Production:

Item	* Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

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

12. Ore or Mineral Reserves:

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

MF-100

Monia Mining Company, Inc.
Box 1115
Missoula, Montana

1(a) Copper

2 See response on attachment to MF-103, item 2b and 11

3(a)(b)(c) & (d)

The Wild Horse Quartz Lode Mining Claim, The Coming Day Quartz Lode Mining Claim, The Early Day Quartz Lode Mining Claim, and the White Pigeon Quartz Lode Mining Claim, all situated in Sections 1 and 6, Township 25 North, Ranges 28 and 27 West, and designated in the United States Land Office as Mineral Survey No. 9708.
Sanders County, Montana. Gravel Road first thirty miles out of Thompson Falls. Good dirt road balance of way to mine.

4(a) Operations on property to begin momentarily

4(b) Lessee

5 See answer No. 11 on attachment to MF-103

7 See response to item 11 in attachment to MF-103

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

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

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

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

See MF-103 - Sheet 3 - 11.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

Private supply on land, mountain spring water.

15. Power:

State amount of power used, rate per hour, and source thereof.

Disel power

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

See MF-103 - MF-103 - Sheet 2 - 8.

17. Equipment and Facilities:

" " Sheet 2- 7.

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

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

MONIA MINING COMPANY, INC.
(Name of company)

By George A. Sutherland
(Signature of authorized official)

April 10th, 1952
(Date)

President
(Title)

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

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

MONTANA LABORATORY COMPANY

CHEMISTS AND ASSAYERS

Philipsburg, Montana, August 9, 1950

The Following Analyses Were Made For F. W. S. Mining Company

	Per Cent H_2O	Ozs. Silver Per Ton	Ozs. Gold Per Ton	$ Gold Per Ton	Per Cent Copper	Per Cent Mn. Dioxide	Per Cent Iron	Per Cent Lead	Per Cent Manganese	Per Cent Silica	Per Cent Zinc
#1		0.4	.001		0.41						
2		2.7	.020		13.67	-67	(6 Ft.)	0.10			
3		0.6	.020		2.65						
4		4.0	.010		12.85	-64	(6 Ft.)				

MONTANA LABORATORY COMPANY

By [illegible]

MONTANA LABORATORY COMPANY

CHEMISTS AND ASSAYERS

Philipsburg, Montana, August 21, 1950

The Following Analyses Were Made For F. W. S. Mining Company

	Per Cent H_2O	Ozs. Silver Per Ton	Ozs. Gold Per Ton	$ Gold Per Ton	Per Cent Copper	Per Cent Mn. Dioxide	Per Cent Iron	Per Cent Lead	Per Cent Manganese	Per Cent Silica	Per Cent Zinc
#6		1.6	.020		5.15						
7		0.3	.001		0.61						

Pw 10 ft.
(Across 10 ft.)

MONTANA LABORATORY COMPANY

By W. L. [illegible]

4/23/52

Mr. Ellis

This material came in late yesterday afternoon. After you have looked it over, I will take it to Mails and Files for docketing.

Mrs. Ault

Lease Agreement & Assignment of Lease (1 copy only each) & set of photos should be forwarded with the Division copy of MF-100 & MF-103.

EWE.

EXPLORATION

Subject: DMEA-2498
Re: Exploration Loan
Wild Horse, Coming Day, etc. Quartz
Lode Mining Claims
April 23, 1952

Mr. George A. Sutherland
Monia Mining Company, Inc.
Box 1115
Missoula, Montana

My dear Mr. Sutherland:

This will acknowledge receipt of your application dated April 10, 1952 for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMEA-2498 and referred to the Rare and Miscellaneous Metals Division.

Kindly refer to DMEA-2498 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams
Administrative Officer

7862

4/22/52 gla
DMEA-2498

April 22, 1952

Defense Mineral Exploration Administration
Department of Interior Building
Washington 25, D. C.

Gentlemen:

There is attached for your examination and consideration four copies of Forms MF-100 and MF-103 (with appropriate attachments), two original (and appropriate photo copies) of analyses dated August 9 and August 21, 1950, one signed copy of a lease agreement entered into on April 22, 1951, and one executed copy of an assignment of lease dated April 16, 1952. Also attached are five photographs of the project's site.

This material is be submitted on behalf of the Monia Mining Company, Inc., Box 1115, Missoula, Montana.

I should like to have the receipt of this material acknowledged to Mr. Glen W. Faulkner, Box 1115, Missoula, Montana.

If further information is required, it may be obtained through Mr. Faulkner at the address shown below.

Very truly yours,

Monia Mining Co. Inc.

Monia Mining Company, Inc.

Box 1115
Missoula, Montana

Attachments

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 23 1952

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

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

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

Not To Be Filled in by Applicant

Docket No. DMEA-2498
Metal or Mineral
Date Received 4-23-52
Amount $
Participation (Government %)

MONIA MINING COMPANY, INC.
Box 1115
Missoula, Montana

Name and address of applicant

Date April 10th, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 23 1952

If you have already filed MF-100, give date filed ....., type of assistance requested Exploration Contract,

DMA Docket Number (if available) .....

INSTRUCTIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

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

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

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

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

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

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

CERTIFICATION

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

MONIA MINING COMPANY, INC.
(Name of company)

By George A. Sutherland
(Signature of authorized official)

April 10th, 1952
(Date)

President
(Title)

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

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

MF-103

MONIA MINING COMPANY, INC.
Box 1115
Missoula, Montana.

1. (a) The Wild Horse Quartz Lode Mining Claim, The Coming Day Quartz Lode Mining Claim, The Early Day Quartz Lode Mining Claim, and the White Pigeon Quartz Lode Mining Claim, all situated in Sections 1 and 6, Township 25 North, Ranges 28 and 27 West, and designated in the United States Land Office as Mineral Survey No. 9708. Sanders County, Montana.

(b) We are buying under contract, terms 10% of the net smelter returns, minimum $150.00 per month, full purchased price, $35,000.00, of which $3,000.00 has been paid.

(c) Same as (a)

2. (a) We have found copper in considerable quantities, and some gold and silver.

(b) We have been exploring by stripping the lead for approximately 1500 feet or more with the tractor; and have taken out samples of ore (assay returns attached herewith) since acquiring the least in 1949.

3. (a) We propose to use a shovel and remove the shale rock for approximately 120 feet in order to hit the lead at the base of the mountain.

This will save us at least 400 feet of tunnel work, which would require solid timbering.

Upon the recommendation of competent engineers, we can save several thousand dollars, and at least six months time by using the shov el, caterpillar and truck.

We estimate the total cost, including all improvements (see attached list) to be approximately, $20,000.00.

(b) We have made arrangements to rent a gasoline shovel from Sanders County to move in on the property April 21st,1952. We shall rebuild a bunk house, move in supplies, start building a cook house, and start mining on April 21st, 1952. The rental for the shovel, including labor hire and everything furnished, is $9.00 per hour and it will save us considerable in transportation costs, as it is now in the vicinity of our property.

4. See attached pictures.

5.6.7.8. & 9. See attached itemized statement.

10.(a) We will match the Government's aid.

(b) Yes.

MF-103

MONIA MINING COMPANY, INC.
Box 1115
Missoula, Montana.

5. There is only one old building on the property, which we plan to rebuild into a bunk house, for temporary use only, at a very nominal cost, as we intend to building a new bunk house later on.

6.

Bunk House - accomodations for eight men -	$1,200.00
Cook House & dining room with storage compartment	1,200.00
Compressor House and warehouse	500.00
Ore Bin - 200 Ton capacity, framed with native logs	650.00
Bedding, beds for bunk house, stoves and dishes for cook house	600.00

7.(a) Equipment to be Rented -

Gasoline Shovel - $9.00 per hour, including wages & operating costs. Estimate 15 days work @$72.00	1,080.00
Caterpillar - Estimate rental for 30 days only cost	600.00
1 Heavy duty dump truck - estimate 3 months use @ $250.00 -	750.00
1 Compressor - estimate rental for 30 days cost $400.00, which is to apply on purchase price of	4,600.00
1 Pickup Truck - 90 days use -	150.00

(b) Equipment to be purchased

3 mine cars and 1 timber car (used) @ $45.00	180.00
1 power saw (used)	200.00
1 Jack hammer (used)	200.00
200' air line pipe 1½" @ .30 (used)	60.00
50' air hose @ .20 (used)	40.00
Steel for drilling stopper	$60.00
Bits - various sizes	108.00
240 lineal feet of rails (used)	160.00
1 Stoper (new)	575.00
Hand Tools, shovels, picks, axes, etc.	300.00

(c) None

8.

Miners - 3 to start work after 30 days, for a 60 day period - wages $12.00 per day, 25 shifts per month per man	1,800.00
Supervisor - 1 - $300.00 per month - 3 mo. period	900.00
Truck Driver - 1 - $250.00 per month - 3 mo. period	750.00
Caterpillar Operator - 1 - 15 days	250.00

9.

Supplies - Gasoline, Oil, Disel, 90 days supply,) Powder caps, fuse, - 90 days supply)	1,200.00
Insurance - Compensation, Social Security and Unemployment Compensation - 90 days	350.00
Accounting - Bookkeeping and auditing - 90 days	150.00
Assaying - 90 days	72.00
	$18,685.00

MF-103

MONIA MINING CO. INC.
Box 1115
Missoula, Montana.

11. History of the Property

These mining claims were filed on by the Sales Brothers about sixty years ago, and patented by them sometime later.

They leased the property to mining people from Spokane, Washington, who drove a tunnel 300' in the direction of the strike and at that point made a right angle turn and followed a high grade stringer for approximately 300'; but in so doing, they were parralleling the lead, as located later by the F.M. & S. Mining Company, when stripping on the surface.

The lease was purchased under contract by the F.M. & S. Mining Company in 1949 and the tunnel was cleaned out and a thorough inspection made by Walter Melrose, a competent Engineer from Spokane. Mr. Melrose advised us to discontinue work in the tunnel and the work we are doing, and contemplate doing, is upon his advice.

The F. M. & S. Mining Company have transferred their interest to the MONIA MINING COMPANY, INC, which has been formed to develop this property.

For many years this property was accessable only by pack horse, but the State and various logging concerns have graveled the first thirty miles out of Thompson Falls, and we now have a good dirt road the balance of the way to the mine.

We have done sufficient prospecting and developing work to feel confident that we should be mining ore within thirty days after the work is started. If the ore is of commercial shipping value we should be in full production on or before ninety days. If it will require a mill, this we will be able to determine very shortly. The samples all indicate that we should, without a doubt, have a valuable mine.

We are grateful to the following mining engineers who have been of great assistance to us in prospecting this property:

W. J. MELROSE, associated with Frank Eichelberger, of Spokane, Washington, and formerly with the Milwaukee Railroad; for his assistance in supervising the stripping.

MR. BOLTON, of Billings, Montana, with the Northern Pacific Railway, for engineering work.

And, MR. CHESTER STEEL, head Geologist for the Anaconda Copper Mining Company at Butte, Montana; whose advise we are following in using the shovel to open drift on the lead.

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA
FOR USE UNDER THE
DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMEA-2498

Date received 4-23-52

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 23 1952

MONIA MINING CO. INC.
Box 1115
Missoula, Montana

Name and address of applicant

Date April 10, 1952

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production _____

   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

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

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
GEORGE A. SUTHERLAND Missoula, Montana	President	none	75,000	12,500		none	
F. E. BUCK Butte, Montana	Sec'y-Treas.	none	150,000	5,000		none	
WM. J. GORDON Dubuque, Iowa	Vice-Pres.	none		5,000		none	
C. H. RICHARDSON Dubuque, Iowa	Stockholder	none	250,000	3,200		none	
GLEN W. FAULKNER Missoula, Montana	Stockholder	none	150,000	12,500		none	
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$150,000	$45,525	$ 1.00	45,525	none
Preferred stock	$ none	$ none	$ none	none	none

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

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

12. Ore or Mineral Reserves:

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

MF-100

Monia Mining Company, Inc.
Box 1115
Missoula, Montana

1(a) Copper

2 See response on attachment to MF-103, item 2b and 11

3(a)(b)(c) & (d)

The Wild Horse Quartz Lode Mining Claim, The Coming Day Quartz Lode Mining Claim, The Early Day Quartz Lode Mining Claim, and the White Pigeon Quartz Lode Mining Claim, all situated in Sections 1 and 6, Township 25 North, Ranges 28 and 27 West, and designated in the United States Land Office as Mineral Survey No. 9708.
Sanders County, Montana. Gravel Road first thirty miles out of Thompson Falls. Good dirt road balance of way to mine.

4(a) Operations on property to begin momentarily

4(b) Lessee

5 See answer No. 11 on attachment to MF-103

7 See response to item 11 in attachment to MF-103

(*b*) If deposit is other than pla[illegible]

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

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

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

See MF-103 - Sheet 3 - 11.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

Private supply on land, mountain spring water.

15. Power:

State amount of power used, rate per hour, and source thereof.

Disel power

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

See MF-103 - MF-103 - Sheet 2 - 8.

17. Equipment and Facilities:

" " Sheet 2- 7.

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

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

MONIA MINING COMPANY, INC.
(Name of company)

By George R. Sutherland
(Signature of authorized official)

April 10th, 1952
(Date)

President
(Title)

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

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

5/5/52 gla

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 5 1952

May 2, 1952

Memorandum

To: E. W. Ellis, DMEA

From: C. H. Johnson, Bureau of Mines

Subject: DMEA 2498 - Monia Mining Company, Inc., Box 1115, Missoula, copper prospect Sanders County, Montana

I have reviewed the subject application which is returned herewith. The photostats are being sent on to Mr. Nelson as requested.

I feel the applicant should be asked to submit further information and clear up some questions before a Field Team examination is requested. He has not given the name of the owner of the property nor furnished a copy of the lease. Possibly FM and S Mining Company refers to Federal Mining and Smelting as Mr. Nelson suggests. If this is the case then it seems likely that company has some reports on the property in its file, and the applicant should be asked to obtain from Federal copies of such reports as are available. He should be asked furthermore to try to answer some of the questions on the application form that have not been answered, or at least very incompletely. For example, he should tell just what work is proposed; it can be gathered from the application that he proposes to do something with a power shovel and possibly thereafter intends to drive an adit on the vein, but this is not at all clear and he has given no idea as to the volume of yardage to be excavated or the linear feet of underground working to be driven. He should furnish a map or good sketch of the property showing the location of the existing underground workings and surface exploration, the location of all samples taken, and the site of the proposed new work.

It appears that he has included the full purchase price of a compressor even though it is intended to use it on this project only three months. It would appear also, that proposed expenditures on bunk house, cook house and ore bin maybe unjustified for the purpose of the present project. It may be gathered from applicant's

listing of 200 feet of pipe and 200 feet of rail that he proposes to drive 200 feet of tunnel. If this is the extent of the project work, it would seem that $18,000 is a rather high cost. It is not clear what he intends to use a stoper for.

The Bureau of Mines has no report on this property on file here.

C. H. Johnson

C. H. Johnson

Copy to Mr. Nelson, U.S.G.S.
Minerals Division
C. H. Johnson
Base Metals Branch
Files

4/29/52 gla

IN REPLY REFER TO:

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

April 25, 1952

Memorandum

To: Mr. E. W. Ellis

From: N. E. Nelson

Subject: DMEA-2498 Monia Mining Company, Inc., Missoula, Montana.

Comment

This application lacks a map showing the location of the property and a report by at least one of the three engineers who have helped the applicant, with an explanation as to why F.M.S. Mining Company (Federal Mining and Smelting Company, perhaps) sold the lease (Page 3, paragraphs 2, 3, and 4). The assays, made for F.M.S. Mining Company should maintain interest if made of well taken samples across the widths given.

If F.M.S. Mining Company does not refer to "Federal" and "Monia" as a continuing company, such an explanation is not needed.

Referral to the field team will upset the time table of the applicant and prevent the "momentary beginning of operations", but such seems necessary and warranted.

N. E. Nelson

Ned E. Nelson
Geologist

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

April 25, 1952

Memorandum

To: Mr. E. W. Ellis

From: N. E. Nelson

Subject: DMEA-2498 Monia Mining Company, Inc., Missoula, Montana.

Comment

This application lacks a map showing the location of the property and a report by at least one of the three engineers who have helped the applicant, with an explanation as to why F.M.S. Mining Company (Federal Mining and Smelting Company, perhaps) sold the lease (Page 3, paragraphs 2, 3, and 4). The assays, made for F.M.S. Mining Company should maintain interest if made of well taken samples across the widths given.

If F.M.S. Mining Company does not refer to "Federal" and "Monia" as a continuing company, such an explanation is not needed.

Referral to the field team will upset the time table of the applicant and prevent the "momentary beginning of operations", but such seems necessary and warranted.

N. E. Nelson

Ned E. Nelson
Geologist

April 25, 1952

Memorandum

To: Mr. [illegible] Ellis

From: E. E. Nelson

Subject: [illegible]A-2493 Monia Mining Company, Inc., Missoula, Montana.

Comment

This application lacks a map showing the location of the property and a report by at least one of the three engineers who have helped the applicant, with an explanation as to why F.M.S. Mining Company (Federal Mining and Smelting Company, perhaps) sold the lease (Page 2, paragraphs 2, 3, and 4). The assays, made for F.M.S. Mining Company should maintain interest if made of well taken samples across the widths given.

If F.M.S. Mining Company does not refer to "Federal" and "Monia" as a continuing company, such an explanation is not needed.

Referral to the field team will upset the time table of the applicant and prevent the "momentary beginning of operations", but such seems necessary and warranted.

E. E. Nelson

Ned E. Nelson
Geologist

NENelson:emp
Copies to: Geol. Div. Files
Branch Files
Directors Rl Files
Branch r. files
C. E. Johnson 3619 Interior
N. E. Nelson

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

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

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

Not To Be Filled in by Applicant

Docket No. DMEA-2498
Metal or Mineral
Date Received 4-23-52
Amount $
Participation (Government %)

MONIA MINING COMPANY, INC.
Box 1115
Missoula, Montana

Name and address of applicant

Date April 10th, 1952

APR 23 1952
Defense Minerals Administration
Received

If you have already filed MF-100, give date filed ....., type of assistance requested Exploration Contract,

DMA Docket Number (if available) .....

INSTRUCTIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

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

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

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

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

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

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

CERTIFICATION

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

HONIA MINING COMPANY, INC.
(Name of company)

By George A. Sutherland
(Signature of authorized official)

April 10th, 1952
(Date)

President
(Title)

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

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

MF-103

MONIA MINING COMPANY, INC.
Box 1115
Missoula, Montana.

1. (a) The Wild Horse Quartz Lode Mining Claim, The Coming Day Quartz Lode Mining Claim, The Early Day Quartz Lode Mining Claim, and the White Pigeon Quartz Lode Mining Claim, all situated in Sections 1 and 6, Township 25 North, Ranges 28 and 27 West, and designated in the United States Land Office as Mineral Survey No. 9708.
Sanders County, Montana

(b) We are buying under contract, terms 10% of the net smelter returns, minimum $150.00 per month, full purchased price, $35,000.00, of which $3,000.00 has been paid.

(c) Same as (a)

2. (a) We have found copper in considerable quantities, and some gold and silver.

(b) We have been exploring by stripping the lead for approximately 1500 feet or more with the tractor; and have taken out samples of ore (assay returns attached herewith) since acquiring the least in 1949.

3. (a) We propose to use a shovel and remove the shale rock for approximately 120 feet in order to hit the lead at the base of the mountain.

This will save us at least 400 feet of tunnel work, which would require solid timbering.

Upon the recommendation of competent engineers, we can save several thousand dollars, and at least six months time by using the shov el, caterpillar and truck.

We estimate the total cost, including all improvements (see attached list) to be approximately, $20,000.00.

(b) We have made arrangements to rent a gasoline shovel from Sanders County to move in on the property April 21st,1952. We shall rebuild a bunk house, move in supplies, start building a cook house, and start mining on April 21st, 1952. The rental for the shovel, including labor hire and everything furnished, is $9.00 per hour and it will save us considerable in transportation costs, as it is now in the vicinity of our property.

4. See attached pictures.

5.6.7.8. & 9. See attached itemized statement.

10.(a) We will match the Government's aid.

(b) Yes.

MF-105

MONIA MINING COMPANY, INC.
Box 1115
Missoula, Montana.

5. There is only one old building on the property, which we plan to rebuild into a bunk house, for temporary use only, at a very nominal cost, as we intend to building a new bunk house later on.

6.

Bunk House - accomodations for eight men -	$1,200.00
Cook House & dining room with storage compartment	1,200.00
Compressor House and warehouse	500.00
Ore Bin - 200 Ton capacity, framed with native logs	650.00
Bedding, beds for bunk house, stoves and dishes for cook house	600.00

7. (a) Equipment to be Rented -

Gasoline Shovel - $9.00 per hour, including wages & operating costs. Estimate 15 days work @$72.00	1,080.00
Caterpillar - Estimate rental for 30 days only cost	600.00
1 Heavy duty dump truck - estimate 3 months use @ $250.00 -	750.00
1 Compressor - estimate rental for 30 days cost $400.00, which is to apply on purchase price of	4,600.00
1 Pickup Truck - 90 days use -	150.00

(b) Equipment to be purchased

3 mine cars and 1 timber car (used) @ $45.00	180.00
1 power saw (used)	200.00
1 Jack hammer (used)	200.00
200' air line pipe 1½" @ .30 (used)	60.00
50' air hose @ .20 (used)	40.00
Steel for drilling stopper	60.00
Bits - various sizes	108.00
240 lineal feet of rails (used)	160.00
1 Steper (new)	575.00
Hand Tools, shovels, picks, axes, etc.	300.00

(c) None

8.

Miners - 3 to start work after 30 days, for a 60 day period - wages $12.00 per day, 25 shifts per month per man	1,800.00
Supervisor - 1 - $300.00 per month - 3 mo. period	900.00
Truck Driver - 1 - $250.00 per month - 3 mo. period	750.00
Caterpillar Operator - 1 - 15 days	250.00

9.

Supplies - Gasoline, Oil, Disel, 90 days supply, Powder caps, fuse, - 90 days supply	1,200.00
Insurance - Compensation, Social Security and Unemployment Compensation - 90 days	350.00
Accounting - Bookkeeping and auditing - 90 days	150.00
Assaying - 90 days	72.00
	$18,685.00

MONTANA LABORATORY COMPANY

CHEMISTS AND ASSAYERS

Philipsburg, Montana, August 21, 1950

The Following Analyses Were Made For F. W. S. Mining Company

	Per Cent H_2O	Ozs. Silver Per Ton	Ozs. Gold Per Ton	$ Gold Per Ton	Per Cent Copper	Per Cent Mn. Dioxide	Per Cent Iron	Per Cent Lead	Per Cent Manganese	Per Cent Silica	Per Cent Zinc
#6		1.6	.020		5.15	=					
7		0.3	.001		0.61						

Over 10 ft.
(Across 10 ft.)

MONTANA LABORATORY COMPANY

By [illegible]

MONTANA LABORATORY COMPANY

CHEMISTS AND ASSAYERS

Philipsburg, Montana, August 9, 1950

The Following Analyses Were Made For F. W. S. Mining Company

	Per Cent H_2O	Ozs. Silver Per Ton	Ozs. Gold Per Ton	$ Gold Per Ton	Per Cent Copper	Per Cent Mn. Dioxide	Per Cent Iron	Per Cent Lead	Per Cent Manganese	Per Cent Silica	Per Cent Zinc
#1		0.4	.001		0.41						
2		2.7	.020		13.67	-67	(6 Ft.)	0.10			
3		0.6	.020		2.65						
4		4.0	.010		12.85	-67	(6 Ft.)				

MONTANA LABORATORY COMPANY

By [illegible]

ASSIGNMENT OF LEASE

KNOW ALL MEN BY THESE PRESENTS, That the undersigned, F. M. S. Mining Company, a Montana corporation, with its principal place of business at Missoula, Montana, for and in consideration of the sum of One and no/100 Dollars ($1.00), and other good and valuable consideration in hand paid to it by the Monia Mining Company, a Montana corporation, receipt of which is hereby acknowledged, does hereby sell, set over, transfer and assign unto the said Monia Mining Company, a Montana corporation, all of the right, title and interest of the undersigned in and to that certain lease bearing date April 22nd, 1951 by and between Albert Sales and Ruth A. Sales, husband and wife, and Gordon Z. Sales and Louise V. Sales, husband and wife, as the Lessors, and F. M. S. Mining Company, a Montana corporation, as the Lessee.

IN WITNESS WHEREOF, the undersigned has caused this instrument to be executed the 16th day of April, 1952.

F. M. S. MINING COMPANY, a Montana corporation

By Glen W. Sandhoer
President.

Attest:
George B. Sutherland
Secretary

F.M.S. M.M. Co (lessee)
transfers to
Monia Co
lease from Sales & Sales
of April 22, 1951

Dated April 16, 1952

STATE OF MONTANA)
: ss.
County of Missoula)

On this 16 day of April, 1952, before me, the undersigned, a Notary Public for the State of Montana, residing at Missoula, Montana, personally appeared Glen W. Faulkner, known to me to be the president of F. M. S. Mining Company, the corporation that executed the within instrument, and acknowledged to me that such 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.

Martha Alsteens
Notary Public for the State of Montana.
Residing at Missoula, Montana. My
commission expires June 5, 1954

AGREEMENT

THIS AGREEMENT, Made and entered into this 22nd day of April, 1951, by and between ALBERT SALES and RUTH A. SALES, husband and wife, as joint tenants with rights of survivorship, and GORDON Z. SALES and LOUISE V. SALES, husband and wife, as joint tenants with rights of survivorship, all of Flathead County, Montana, as Lessors and parties of the first part, and F. M. S. MINING COMPANY, a Montana Corporation, with its principal place of business at Missoula, Montana, as Lessee and party of the second part, WITNESSETH:

WHEREAS, the parties of the first part are the owners of the following described patented quartz lode mining claims situate, lying and being in an unorganized mining district, County of Sanders, State of Montana, to-wit:

> The Wild Horse Quartz Lode Mining Claim, the Coming Day Quartz Lode Mining Claim, the Early Day Quartz Lode Mining Claim, and the White Pigeon Quartz Lode Mining Claim, all situated in Sections 1 and 6, Township 25 North, Ranges 28 and 27 West, and designated in the United States Land Office as Mineral Survey No. 9708,

and

WHEREAS, the party of the second part, by virtue of an assignment, is now the holder of a lease of said mining claims, said lease bearing date April 22, 1949, and it is the desire of the parties to

agreement 4/22/51
sales lease
F.M.S. Mon Co Corp

Renews the lease
of 4/22/49
expires 4/22/59 (7 yr)
from now

prepare and execute a new lease directly in the name of the party of the second part as Lessee, retaining all of the terms and conditions of said lease of April 22, 1949, after allowing the Lessee herein credit for the performance under said lease of April 22, 1949, and after reducing the period of lease by two years,

NOW THEREFORE, in consideration of the sum of One Dollar ($1.00) and other good and valuable consideration, passing from the Lessee to the Lessors, IT IS HEREBY MUTUALLY UNDERSTOOD AND AGREED AS FOLLOWS:

That the Lessee shall have the right to possess, and to have and to hold the above described mining properties for a term of eight (8) years from the date hereof, expiring on the 22nd day of April, 1959, unless sooner forfeited, or the said property purchased by the Lessee under the terms and agreements hereinafter set forth.

The Lessee shall enter into the possession of said quartz lode mining claims and work, mine and develop the same in a workmanlike and minerlike manner, and extract therefrom the ores therein contained, sell and dispose of the same under the following terms and conditions, to-wit: The party of the second part shall start such mining work not later than thirty days from date, and thereafter such mining operations shall be properly and continuously prosecuted by the party of the second part during the full term of this lease. From and after May 22, 1951, the party

of the second part guarantees to the parties of the first part a minimum rent payment of $150.00 per month. If during any month of the term of this lease the party of the second part does not ship sufficient ore to provide the parties of the first part with royalties amounting to $150.00, then the party of the second part shall pay to the parties of the first part for such month the difference between the royalty actually received by the parties of the first part and said sum of $150.00, such settlement payment to be made on or before the 10th day of each and every month.

IT IS FURTHER UNDERSTOOD AND AGREED that until the purchase price is paid as hereinafter provided for, the party of the second part will work and operate the property in a careful workmanlike and minerlike manner and will not expose any employee to unnecessary hazard or risk, and will keep properly and conspicuously posted on the premises where all employees may observe the same, a notice to the effect that the mine is being operated under lease and that no person other than the party of the second part herein shall be regarded as responsible to any person on account of any accident or injury or for supplies or labor furnished, and said party of the second part further agrees not to permit any liens for labor, materials or supplies to be filed upon or become a charge against said property or any part thereof during the term of this agreement, and

in the event any liens shall be filed or any indebtedness or liability incurred that might ripen into a lien or liens, said party of the second part shall promptly discharge such indebtedness or liability and will at all times save the parties of the first part harmless on account thereof.

IT IS FURTHER UNDERSTOOD AND AGREED that the party of the second part will well and sufficiently timber any of said mines worked upon at all points where proper, and to repair all old timbering, if any, wherever it may become necessary.

To allow said Lessors and their agents to enter upon and into all parts of said mines for the purpose of inspection.

To keep books of account showing the amount of ores extracted from said mines, the amount of ore shipped, sold or treated, and the amount of money received from the sale of said ores or the values extracted therefrom; that from and out of the values obtained from the ores so extracted therefrom and which may be found in, upon, or around said mine, and reduced, treated, sold, or shipped to a smelter, the said Lessee will pay to the Lessors ten per cent (10%) of the net proceeds of such ores, each thirty days that there are net smelter returns; five per cent (5%) of the net proceeds to be paid to Albert Sales and/or Ruth A. Sales, husband and wife, as joint tenants with rights of survivorship; and five per cent (5%) of the net proceeds to be paid to

Gordon Z. Sales and/or Louise V. Sales, husband and wife, as joint tenants with rights of survivorship. The term "net proceeds" shall be construed to mean the proceeds of such ores based on smelter returns thereof after deducting railroad freightage and smelter or concentrating treatment and nothing else. That a duplicate of all mill, smelter or retort returns shall be furnished by the owners of the smelter to the said Lessors, and that said books of account shall be open, at all reasonable times, to the said Lessors and their representatives.

IT IS FURTHER UNDERSTOOD AND AGREED by and between the Lessors and the Lessee herein that at any time during the term of this lease, the Lessee is given the option to purchase the aforesaid and heretofore described mining claims located as heretofore and herein set forth for the sum of THIRTY-THREE THOUSAND EIGHT HUNDRED DOLLARS ($33,800.00), and that any money paid by the Lessee, or the smelter, to the Lessors will be accredited by the Lessors on the purchase price as aforesaid. That the balance of such purchase price shall be paid by Lessee to Lessors within fifteen (15) days after the day Lessee gives Lessors notice of his intention to exercise such option to purchase.

IT IS FURTHER UNDERSTOOD AND AGREED that during the term of this agreement, the party of the second part will in due season pay all taxes that may be assessed against said property, or any part

thereof, from and after the first day of January, 1951.

IT IS FURTHER UNDERSTOOD AND AGREED that after the party of the second part has kept two men constantly at work at one shift per day for a full period of six (6) months, the parties of the first part will, on demand in writing of the party of the second part, make and execute the deed to the mining properties hereinabove described, and place the same in escrow in the Conrad National Bank of Kalispell, Montana, to be delivered to the party of the second part when said party of the second part shall have complied with the terms and conditions of this contract to purchase said property.

IT IS FURTHER UNDERSTOOD AND AGREED that time is of the essence of this agreement, and that the terms, covenants and conditions hereof are binding upon the respective parties and their heirs, executors, administrators and assigns, and that if the party of the second part shall fail, neglect or refuse to perform any of the terms and conditions of this agreement, the parties of the first part may declare this contract null and void, and may re-enter, take possession of said property, and the whole thereof, as fully to all intents and purposes as if this contract had not been made, without such re-entry working a forfeiture of any payment theretofore made, and the party of the second part agrees in such event to quietly and peaceably yield and

surrender possession of such premises and the whole thereof.

IT IS FURTHER AGREED by and between the Lessors and the Lessee herein that any machinery or rails placed by the Lessee on the Lessors' property, remain the property of the Lessee, and may be removed at any time during the term of this lease, or within sixty (60) days after the termination of same by forfeiture or otherwise.

IT IS FURTHER AGREED by and between the Lessors and the Lessee herein that the Lessee may pay at any time during the term of the lease as aforesaid, the balance of the purchase price, and the Lessors will give to the Lessee a warranty deed upon such payment to the Lessors.

IN WITNESS WHEREOF, the parties hereto have hereunto subscribed their names the day and year in this instrument first above written.

Albert Sales
Albert Sales

Ruth A. Sales
Ruth A. Sales

Gordon Z. Sales
Gordon Z. Sales

Louise V. Sales
Louise V. Sales

LESSORS AND PARTIES OF THE FIRST PART.

F. M. S. MINING COMPANY, a Montana Corporation

By Glenn Faulkner
President

LESSEE AND PARTY OF THE SECOND PART.

STATE OF MONTANA, }
County of Flathead. } ss

On this sixth day of July, 1951, before me, the undersigned, a Notary Public in and for the State of Montana, residing at Kalispell, in the County of Flathead, in said State, personally appeared ALBERT SALES and RUTH A SALES, his wife, GORDON Z. SALES and LOUISE V. SALES, his wife, parties of the first part, personally known to me to be the persons named in and who executed the foregoing instrument, and who duly acknowledged to me that they and each of them 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 Kalispell, Montana. My Commission expires September 6, 1953

STATE OF MONTANA, }
County of Missoula. } ss

On this 29th day of June, 1951, before me, the undersigned, a Notary Public for the State of Montana, residing at Missoula, Montana, personally appeared GLEN W. FAULKNER, known to me to be the President of F. M. S. MINING COMPANY, the corporation that executed the within instrument, and acknowledged to me that such 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 Missoula, Montana. My Commission expires Nov. 13, 1952

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
E. 157 HOWARD ST.
Spokane 8, Wash.

OFFICIAL BUSINESS

DEPARTMENT OF INTERIOR
830PM
(PMGC)
WASH.D.C.

Chairman, Operating Committee
Defense Minerals Exploration Administration
Department of Interior
Washington 25, D. C.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

REFERENCE SLIP

DATE 4-24-52

REFERRED TO:

DMEA-2498

1. ~~G.H.Johnson, Rm. Rm.3621~~
2. ~~Ned Nelson Rm.1216~~ GSA
3. Mr.Ellis, Rm.4640
4.

FOR:

.....Action
.....Approval
.....Comment
.....Conference
.....Consideration
.....Filing
.....Instructions
.....Investigation
.....Initials
.....Mailing
.....Previous correspondence
.....Recommendation
.....Record of.....
.....Referring to.....
.....Ready for signature of.....
.....Rewriting
.....Signature
.....Suggestions
X Your informtion

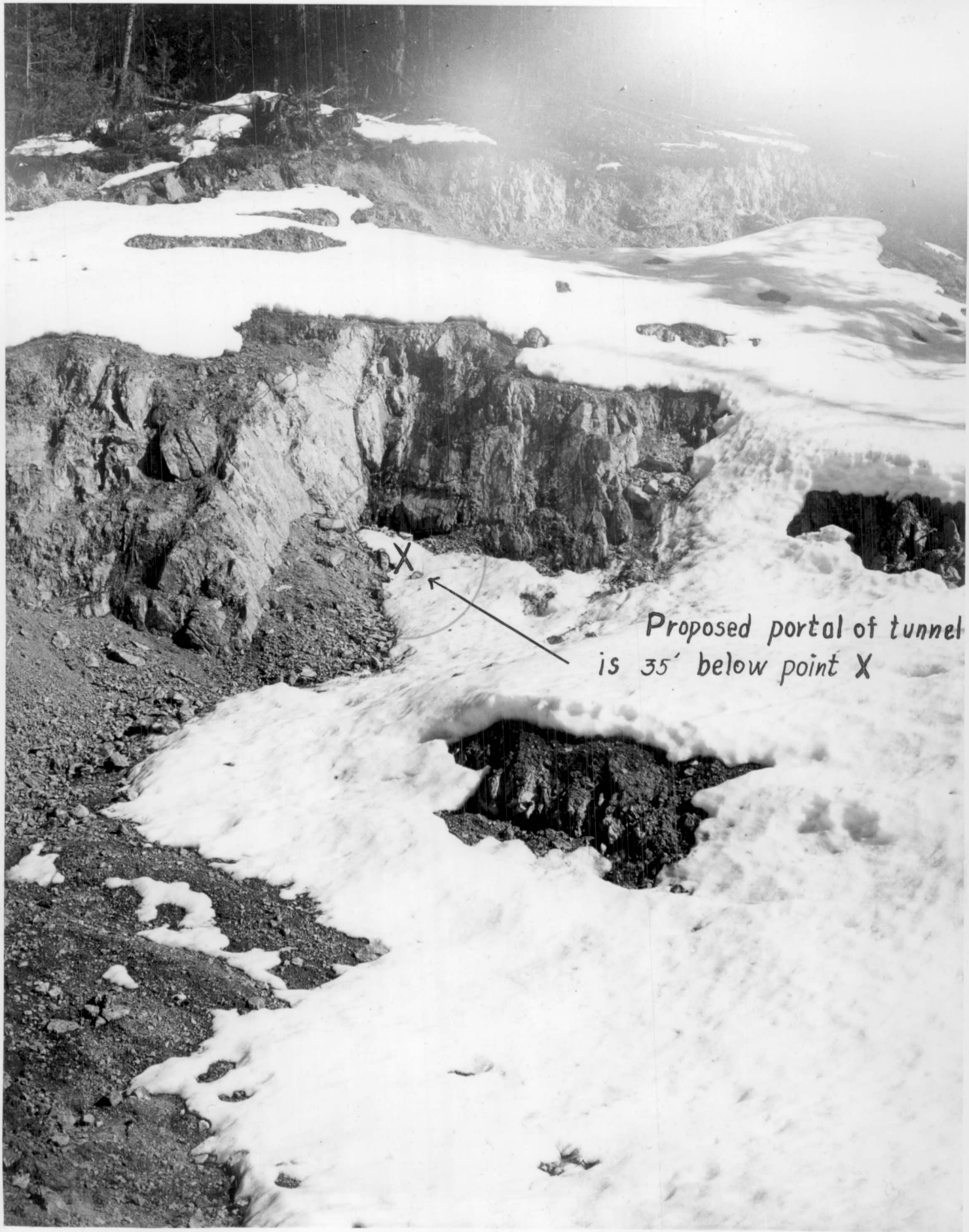
MARKS: Enclosed photos for you to see
or what they are worth in connection
th DMEA-2498, Monia Mining Co.Inc.

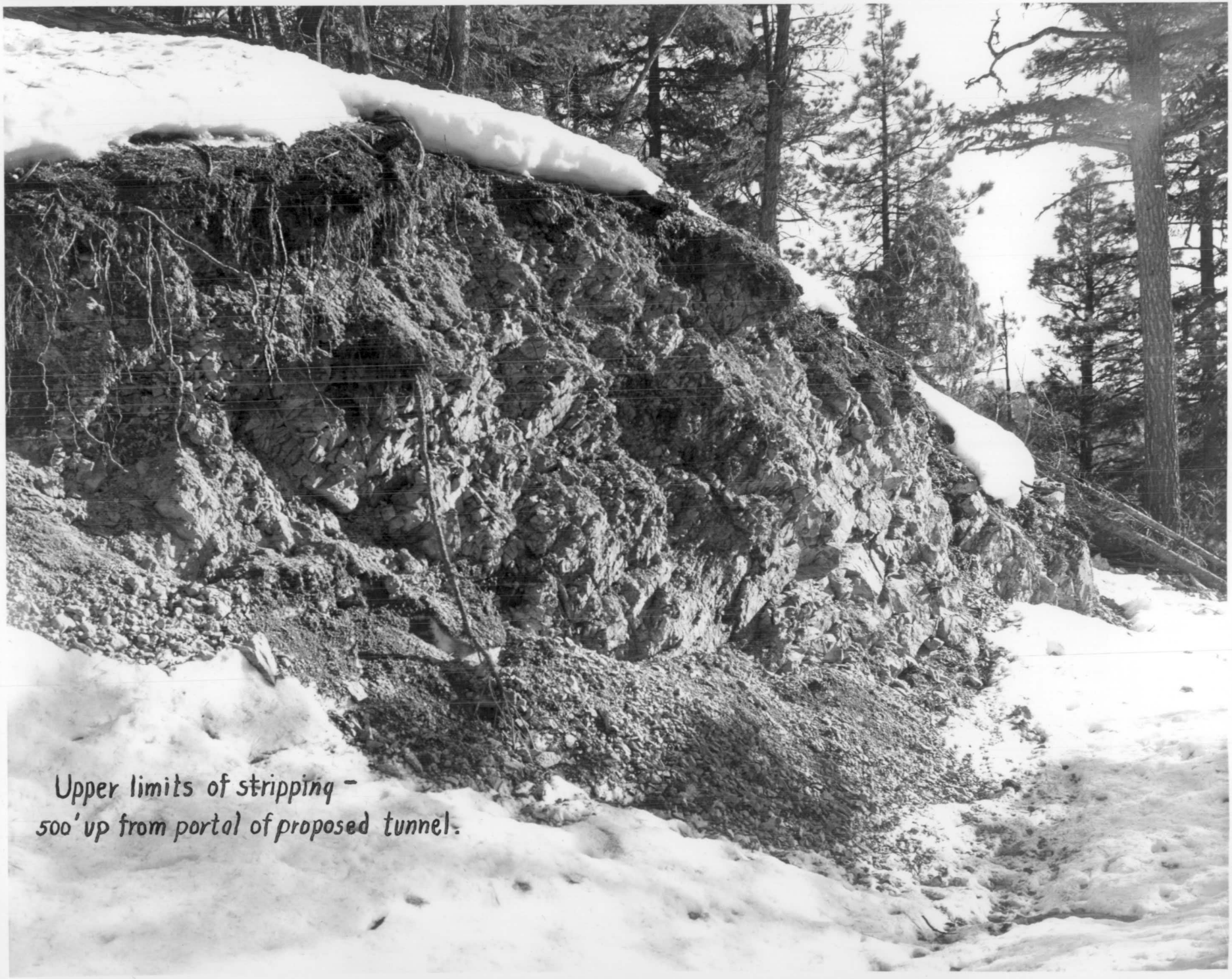
heck (X) before the items needing attention.

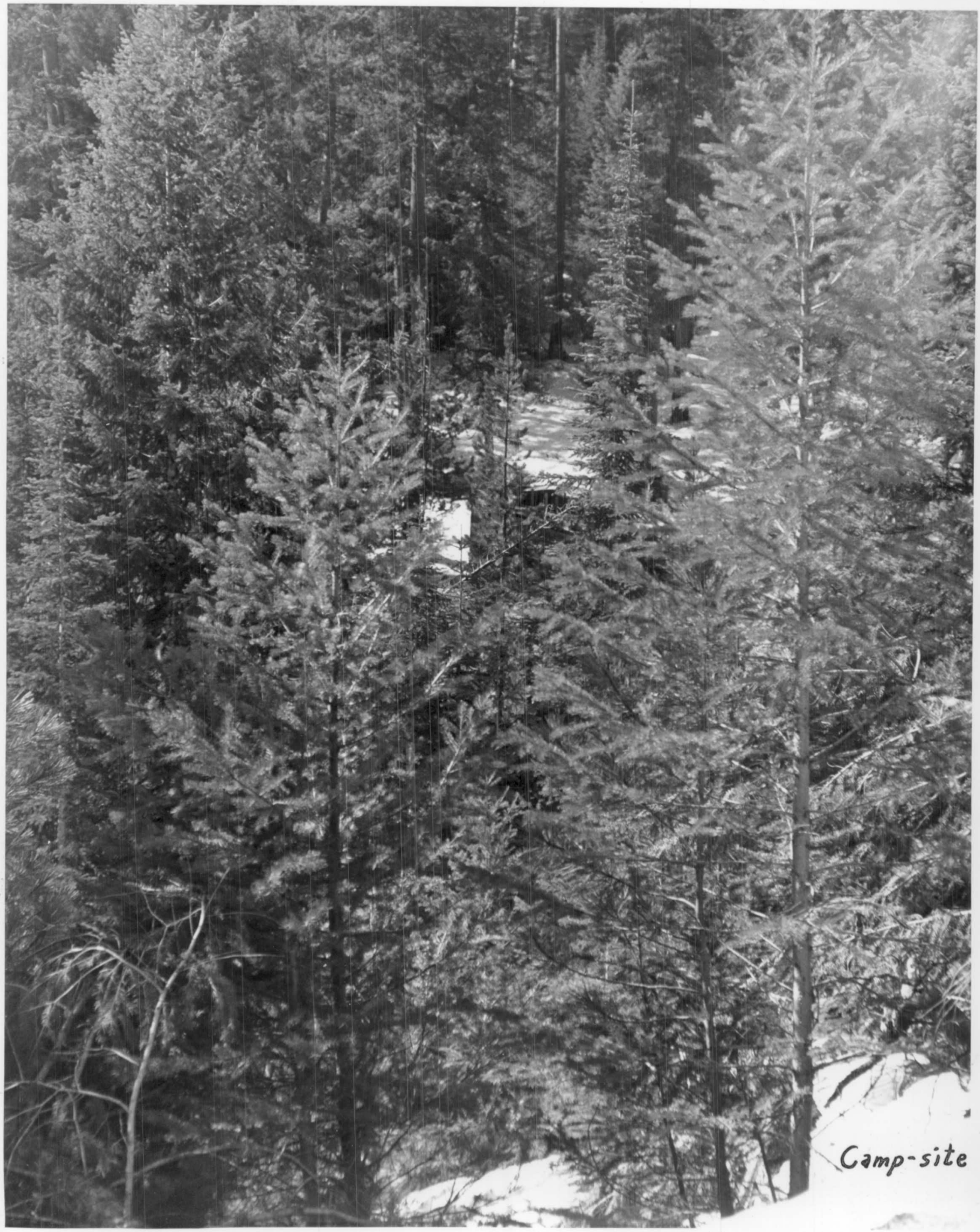
Ernest Wm. Ellis

Initial of sender

UP. SEC., WASH., D.C.


X
Proposed portal of tunnel
is 35′ below point X

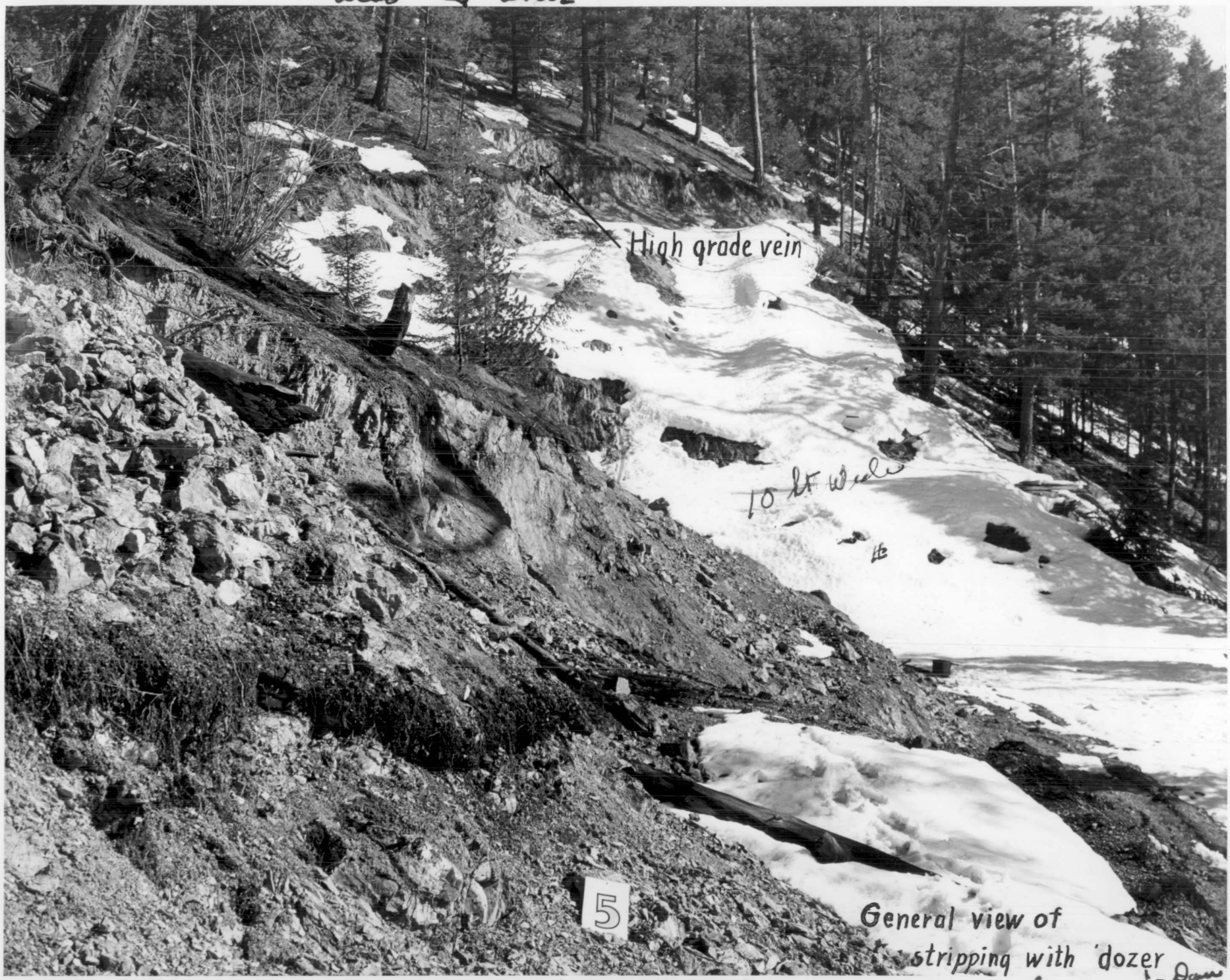

Upper limits of stripping -
500' up from portal of proposed tunnel.



Camp-site

High grade vein 6' across
4' below grass roots

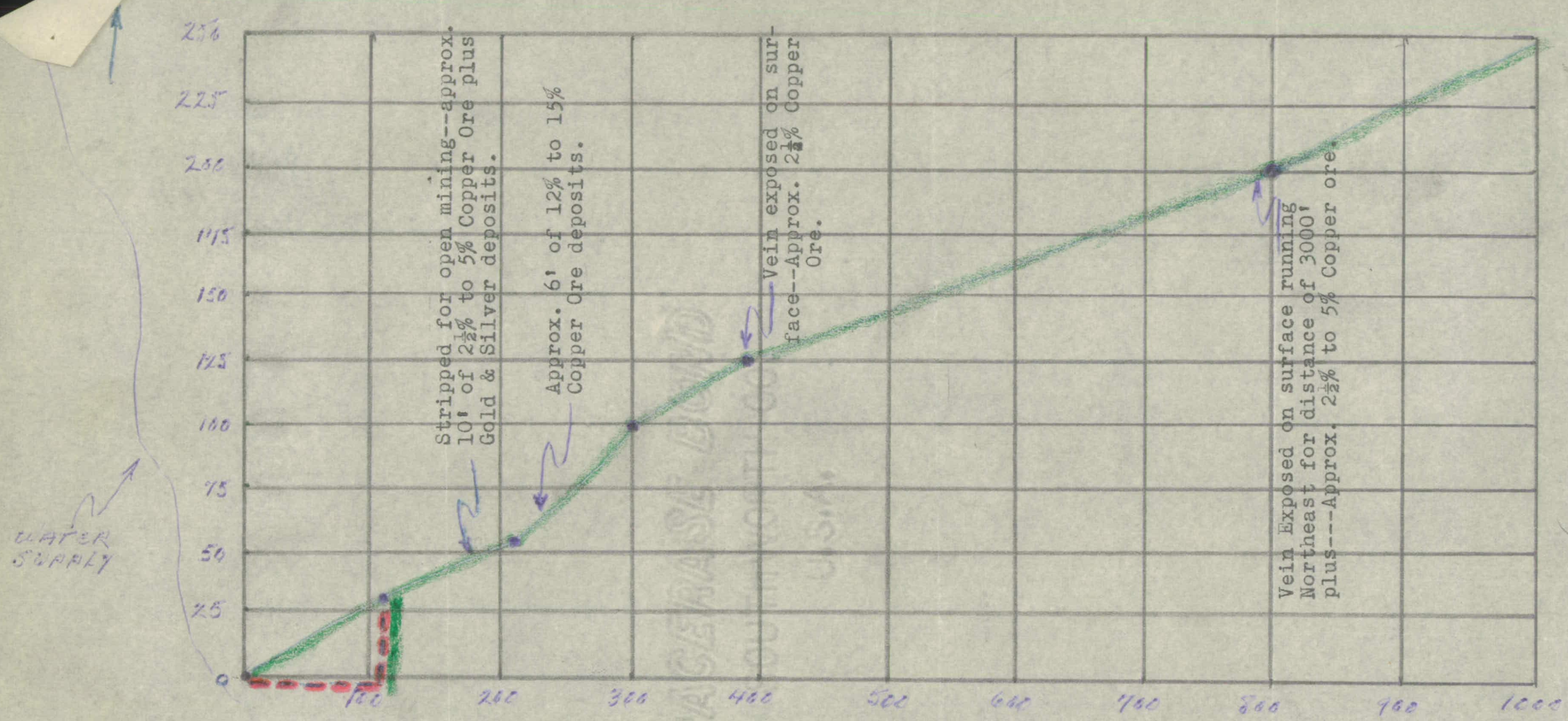
also ↓ above



General view of stripping with 'dozer

above ↓ Dam 500'

MONIA MINING CO. CONTOUR MAP

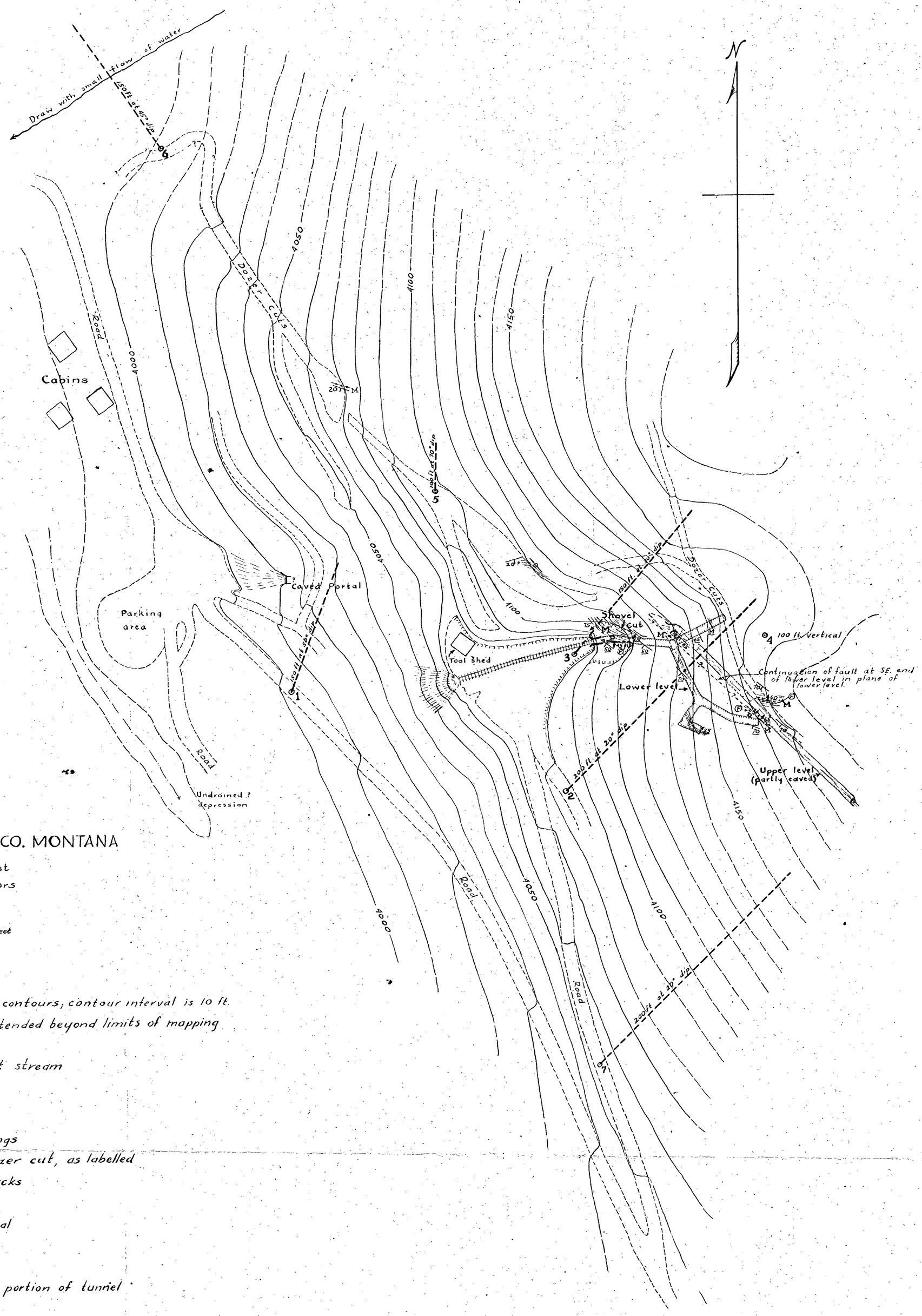


LEGEND: COPPER ORE VEIN (GREEN)

VEIN HAS GRADE OF APPROXIMATELY 2.5' FOR EACH 100' OF TUNNEL

PRESENT TUNNEL CUT FROM STARTING POINT 0 TO ELEVATION OF 35' ON ABOVE CONTOUR GRAPH

DOTTED LINE (RED) INDICATES DIRECTION OF CUT



Reconnaissance Map of

MONIA MINE, SANDERS CO. MONTANA

by

F. S. Honkala, geologist
W. L. Rohrer, T. H. Pullen, survevors

October, 11, 1952

~scale~ 50 25 0 50 feet

EXPLANATION

Topography

- 4100 — Topographic contours; contour interval is 10 ft.
- Contours extended beyond limits of mapping
- Streams
- Intermittent stream

Culture

- Mine buildings
- Road or dozer cut, as labelled
- Ore car tracks
- Dump
- Tunnel portal
- Lower level
- Upper level
- Partly caved portion of tunnel
- Shovel cut
- Proposed drill-hole sites and their projection into horizontal plane.

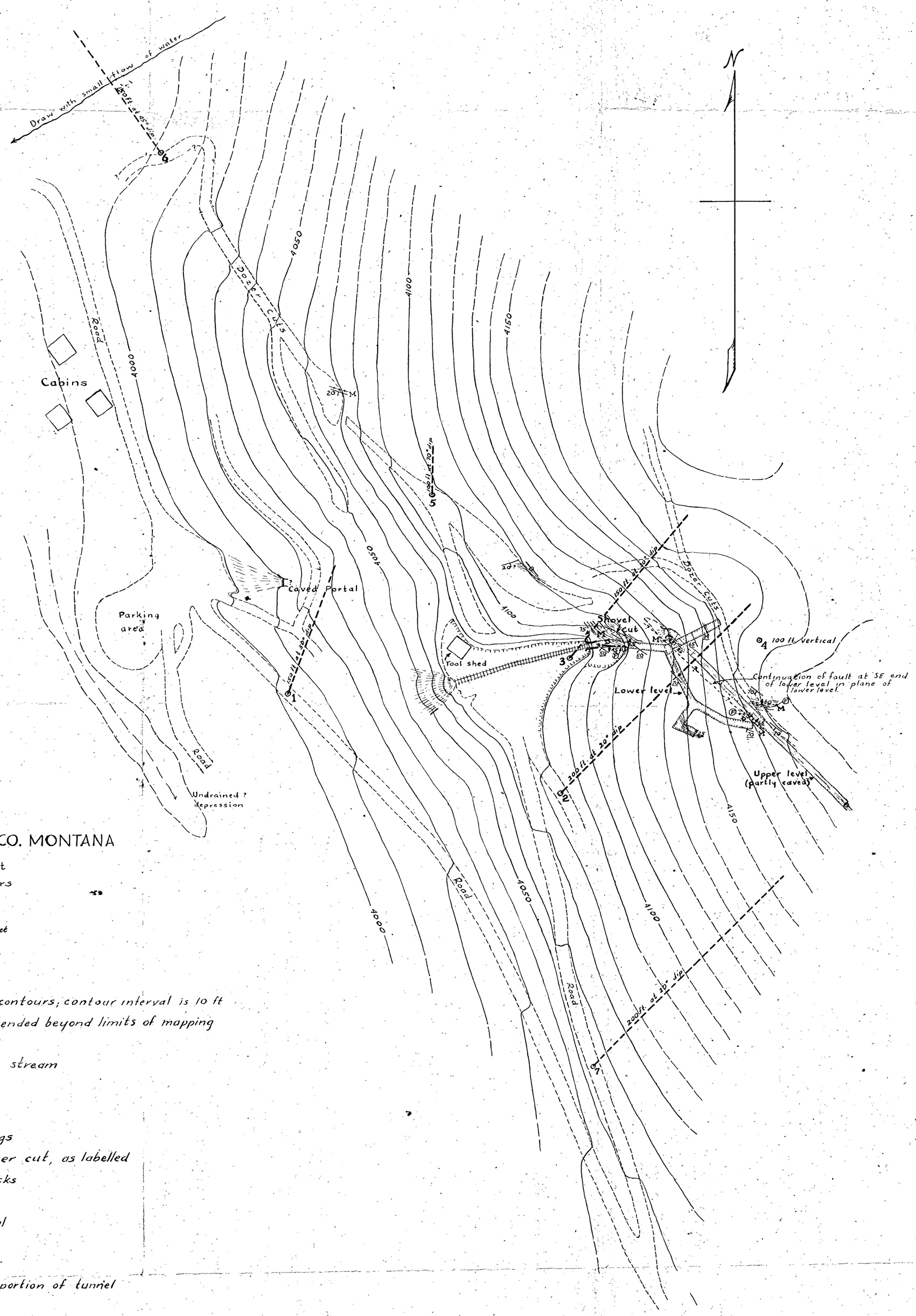
Geology

- 75 — Strike and dip of strata
- Shear zone showing dip of strata
- F 45 U D — Fault; relative movement shown if known
- M — Mineralization
- 75 M — Information gained underground

General

Topographic mapping was done by telescopic alidade, starting with an assumed elevation of 4000 feet. Lower level was mapped by Brunton compass and pacing. Upper level location very approximate due to dangerous condition of tunnel.

Inner 3rd Mounted



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Approved 2-14-98 Dwelling