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

DEC 18 1959

Mr. Emil C. Miller
Box 133
Harvey, Michigan

Re: Docket No. OME-4061 (Copper)
Emil C. Miller
Miller's Homestead
Dickinson County, Michigan

Dear Mr. Miller:

We have your December 5 letter covering the cited application. We note that no work has been done on the property since 1942.

We stated in our previous letter that we would be forced to deny your application unless work had been done in recent years, with favorable results. The property was examined twice, in the forties (after your 1942 work) by two different Government engineers and in both instances their reports were adverse. The information available to us from these two field examinations indicates that the probability of disclosing significant ore reserves on your property is not sufficiently promising to warrant Government participation in the proposed exploration. We regret to advise you that, under these circumstances, your application for exploration assistance is denied.

Sincerely yours,

Frank E. Johnson

Acting Director

Copy to: Hon. John B. Bennett

WHGriswold/gin
12-16-59
cc to: Director's Reading File
Operating Committee
Mr. Robbins, USGS
Mr. Kirkham, USGS
OME Field Team, Region V (2) w/cys 2 incoming letters
Docket
Chron
Code 300

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

DEC 4 1959

Hon. John B. Bennett
House of Representatives
Washington 25, D. C.

Re: Docket No. OME-4061 (Copper)
Emil C. Miller
Miller's Homestead
Dickinson County, Michigan

Dear Mr. Bennett:

We have your November 30 letter inquiring as to the status of the Emil C. Miller application. We are enclosing a copy of our reply to Mr. Miller.

Sincerely yours,

(signed) FRANK E. JOHNSON

Acting Director

Enclosure

WHGrimsold/gla
12-2-59
cc to: Director's Reading File
Mr. McMahon, USBM
Mr. Kirkemo, USGS
OME Field Team, Region V (2), w/2 cys each:
Docket
Chron
Mr. Miller's letr. 11/19/59
Hon. John B. Bennett letr. 11/30/59

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

DEC 4 1959

Mr. Emil C. Miller
Box 133
Norway, Michigan

Re: Docket No. OME-6061 (Copper)
Emil C. Miller
Miller's Homestead
Dickinson County, Michigan

Dear Mr. Miller:

We have your letter dated November 19, which was received by us November 30. As noted in our letter to you of October 16, we also have an application on file covering this property from Mrs. Elta L. Miller. Until one of these conflicting applications is withdrawn, no action can be taken by us.

Much of the information we requested has not been supplied to us. We are especially interested in learning what work may have been done in recent years; the extent and nature of such work, and the results obtained. Assays of samples taken during the course of such work, showing widths and sample locations, would be important.

Based upon information presently available in our files, we would be forced to deny your application. Only if additional work has been done in recent years, and only if the results of such work warranted favorable conclusions, would we be able to view your application in a different light.

Sincerely yours,

(signed) FRANK E. JOHNSON

Acting Director

Copy to: Hon. John B. Bennett

WRGriswold/gla
12-4-59
cc to: Director's Reading File
Mr. McMahon, USGS
Mr. Kirkemo, USGS
OME Field Team, Region V (2)
Docket
Chron

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

OCT 16 1959

Mr. Emil C. Miller
Box 133
Norway, Michigan

Re: Docket No. OME-6061 (Copper)
Emil C. Miller
Miller's Homestead
Dickinson County, Michigan

Dear Mr. Miller:

With reference to the cited application, we have also received an application from Mrs. Alta L. Miller on what appears to be the same property.

Hence, until the conflicting claims as to property ownership have been resolved, it will not be possible for us to take any further action. Your application will be held in abeyance for thirty days, after which it will be considered as having been withdrawn, unless we hear from you meanwhile.

Sincerely yours,

Frank E. Johnson

Acting Director

cc to: Hon. John B. Bennett

WRGriswold/gla
10-15-59
cc to: Director's Reading File
Mr. McMahon, USBM
Mr. Kirkemo, USGS
OME Field Team, Region V (2)
Chron
Docket

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

SEP 23 1959

Mr. Emil C. Miller
Box 153
Norway, Michigan

Re: Docket No. OME-6061 (Copper)
Emil C. Miller
Miller's Homestead
Dickinson County, Michigan

Dear Mr. Miller:

Referring to your letter of August 26, you stated that you were sending samples for analysis and, when received, you would forward them to us. So far we have not heard from you and we must hold your application in abeyance until we have such data.

Sincerely yours,

W. R. Griswold, Chief
Division of Minerals

cc: Hon. John B. Bennett

WRGriswold/GMcC
September 23, 1959

cc: Docket
Director's Reading File
Mr. McMahon, USBM
Mr. Kirkemo, USGS
OME Field Team, Region V (2) W/2 copies of incoming letter of August 26, 1959 from Emil C. Miller
Chron.

Mr. Kirkemo, USGS

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

AUG 19 1959

Mr. Emil C. Miller
Box 133
Norway, Michigan

Re: Docket No. OME-4051 (Copper)
Emil C. Miller
Miller's Homestead
Dickinson County, Michigan

Dear Mr. Miller:

We have your application for financial assistance in minerals exploration, which was forwarded to us by Congressman John B. Bennett.

Before we can process your application, there are various points which should be clarified. You provided letters of loan refusal from the banks but we were not informed as to the terms requested, such as length of time loan is needed, method of repayment, and collateral offered to secure the loan. Please provide us with this information, together with a financial statement covering your assets and liabilities.

You state that you plan to cover your share of the project cost by the contribution of your own machinery and equipment (worth $3,000) to the project. This would not be adequate. We could allow a normal depreciation allowance for owned equipment and machinery as a contribution on your part, but this would only amount to some $83 monthly; hence it would be necessary for you to be prepared to undertake some of the financing. We should also mention that the Government provides no funds in advance. At the end of each month you would provide an accounting to the Government and you would be reimbursed for one-half of the approved expenditures. Hence, you should be prepared to finance all project costs for a period of from six weeks to two months when the work started.

The report on the property, which you submitted, by Oscar H. Reinholt, stresses the fact that the principal value is gold. Gold properties are not eligible for assistance under our regulations. However, since Reinholt stated that copper minerals are present, we suggest that you have samples taken from such locations and dumps as may be available and have them assayed for copper, forwarding copies of the assay certificates to us.

We note that your application covers shaft sinking, crosscutting, and drifting, whereas Reinhart had recommended diamond drilling. Ordinarily, in preliminary work of this sort, diamond drilling is more practical and very much less expensive. If the diamond drilling should show the occurrence of worthwhile ore, shaft sinking then may become advisable, as a second stage. We would require bids from three independent contractors covering the proposed drilling.

Please provide us with a map or sketch of the property, showing locations where work will be done, locations where samples were taken, and existing workings.

Sincerely yours,

W. R. Griswold

W. R. Griswold, Chief
Division of Minerals

Copy to:
Hon. John R. Bennett

WRGriswold/GMcC
August 19, 1959

cc: Docket
Director's Reading File
Mr. Mahaffey, USGM
Mr. Kirkham, USGS
OME Field Team, Region V (2)
Chron.

August 22, 1949

Memorandum

To: W. E. Griswold, Office of Minerals Exploration

From: Commodity Specialist, Bureau of Base Metals

Subject: Review of application, Docket No. [illegible]-6061 (Copper Manganese, Metal, Quartz Crystal, Corundum, Cobalt, Chromite), Emil C. Miller, Miller's Homestead, Dickinson County, Michigan. $10,000.00.

The applicant seeks Government assistance in an exploration project consisting of sinking a shaft 100 to 150 feet and driving approximately 800 feet of drifts and crosscuts.

A mining engineers report attached to the application suggests that the property may prove of some value as a gold prospect and proposes diamond drilling two holes to a depth of 300 feet. The report also mentions scattered occurrences of chalcopyrite, acmite, and malachite throughout the area zone but makes specific reference to an $10 gold assay of a selected specimen. No significant importance is attached to the copper mineralization.

Two examinations of the subject property were made by Bureau of Mines engineers, one on July 31, 1943 the other on May 5, 1949. These examinations were conducted under a "Mr. Minerals Examination" program. The Summary Reports of both examinations conclude that the property does not contain sufficient concentration of mineral to warrant further exploration.

Accordingly, unless the applicant can provide more concrete evidence of probable mineralization resulting from prospecting since the above-cited examinations, it is recommended that the application be denied.

A. D. Matheson

AMcMahon/nf
Copy to: Division of Minerals
Bureau of Base Metals (2)
Mr. Hilsgaard
Mr. Lamb
Files

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

AUG 19 1959

Hon. John B. Bennett
House of Representatives
Washington 25, D. C.

Re: Docket No. OME-6061 (Copper)
Emil C. Miller
Miller's Homestead
Dickinson County, Michigan

Dear Mr. Bennett:

With reference to your letter of August 10, covering the referenced application, we are enclosing a copy of a letter to Mr. Miller covering additional information required.

Sincerely yours,

(Signed) FRANK E. JOHNSON

Acting Director

Enclosure

WHCriswold/gia 8-17-59
cc to: Director's Reading File
Mr. McMahon, USBM
Mr. Kirkemo, USGS
OME Field Team, Region V (2)
Docket
Chron

[illegible] to [illegible]
Aug. 19 and [illegible]
[illegible] memo
[illegible]
Gunnell re [illegible]
suggested using Emmons
to examine prospect
[illegible]

August 17, 1959

Mr. Carl E. Dutton
U. S. Geological Survey
Room 213, Science Hall
University of Wisconsin
Madison 6, Wisconsin

Re: OME-6061
Emil C. Miller, Norway, Michigan
Miller's Homestead
Dickinson County, Michigan

Dear Carl:

We have just received an OME application from Emil C. Miller, P. O. Box 133, Norway, Michigan. The land involved is known as "Miller's Homestead", described as Government Lot 3, N½NE¼ and NE¼NW¼, Sec. 35, T. 39 N., R. 29 W., Dickinson County, Michigan. It is 3½ miles south of Vulcan.

The application states that Miller wants to explore for manganese, nickel, quartz crystal, copper, corundum, cobalt and chromite (quite a motley assemblage of minerals!), but an appended report by Oscar H. Reinhold, Geologist and Mining Engineer of Green Bay, Wisconsin, dated July 9, 1935, indicates that the property contains lenses of vein quartz with gold and chalcopyrite. There was an 18-foot shaft in 1935. Do you have any information on such a prospect?

It seems unlikely that a field examination will be required, since gold is not one of OME's eligible minerals. However, if the Operating Committee should request a field examination, could you, or someone from the Iron Mountain party examine the prospect, so we wouldn't have to send some one all the way from here? I doubt if it would require much time, as less than 50 miles of travel would be involved. If we should get such a request, I will send you the application and Reinhold report.

With best regards.

Sincerely,

Robert A. Laurence

cc - Mr. Quentin Singewald
Mr. Harold Kirkemo
File

August 12, 1959
Re: OME 6061 (Cu, Mn, etc.)
Miller's Homestead
Dickinson County, Michigan

Memorandum

To: W. R. Griswold, Office of Minerals Exploration

From: Harold Kirkemo, U. S. Geological Survey

Subject: Review of application for exploration assistance

The applicant requests assistance to sink a shaft 100 to 150 feet and to drive about 200 feet of crosscuts and drifts. Total cost of the project is estimated to be $10,000.00.

The applicant did not submit a map of the land on which exploration is proposed, or assay reports to support the geological-engineering report dated July 9, 1935. The request for assistance to explore for copper, manganese, nickel, quartz crystal, corundum, cobalt, and chromite is not supported by evidence that these metals or minerals may exist in commercial quantities on the property. The geological-engineering report refers only to gold values in quartz and mentions the presence of copper minerals but attempts no evaluation of the latter. The applicant ignores the recommendation of the geologist-engineer to test the prospect by drilling from the surface.

According to the geological map of the Northern Peninsula of Michigan (1936), the subject prospect is underlain by unclassified Precambrian rocks.

I recommend that OME ask the applicant to furnish a map of the property showing where he proposes to undertake exploration, all exploratory work to date, assay data, and geologic features.

Harold Kirkemo

cc: OME (3)
A. D. McMahon, 3623
Director's reading
Branch reading
Chron. file
Docket File

HKirkemo/mm
G-MD-8-12-59

MME Form 40
Dec. 1958

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

Budget Bureau No. 42-R1368
Approval expires Dec. 31, 1963

APPLICATION FOR FINANCIAL ASSISTANCE IN MINERALS EXPLORATION

Pursuant to Public Law 85-701 (72 Stat. 700; 30 U.S.C. 641)

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

Emil C. Miller
Box 133
Hornsy, Michigan

APPLICANT DO NOT USE THIS BLOCK

DOCKET NUMBER: OME-6061

DATE RECEIVED: 8-12-59

REGION: Reg. V

DIVISION CODE: 500

BUSINESS ORGANIZATION *(Check one)*

- INDIVIDUAL [X]
- CORPORATION [ ]
- PARTNERSHIP [ ]
- OTHER *(Specify)* [ ]

STATE IN WHICH FIRM IS ORGANIZED

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

NAME	ADDRESS	TITLE

MINERAL(S) FOR WHICH YOU WISH TO EXPLORE: copper, manganese, nickel, quartz crystal, corundum, cobalt, chromite

ESTIMATED COST OF PROJECT: 10,000.00

PROPERTY NAME: Miller's Lanesboro

LOCATION COUNTY: Kalkaska

STATE: Michigan

GENERAL INSTRUCTIONS

Before filling out this application, please read the *OME Regulations for Obtaining Federal Assistance in Financing Explorations for Mineral Reserves* (30 CFR Chap. III). To assure prompt action, your application must provide all applicable material and information specified on the back of this application form. Avoid unnecessary correspondence and delays by submitting complete and accurate information. *Please submit four copies of this application and all accompanying papers* except as otherwise noted. Place your name and address on each sheet. Each item of information, maps, and reports required as a part of this application is described on the back of this form. Identify each attached statement by the item number to which it applies. If an item does not apply to your application, show the item number on your statement and after it write "not applicable." Maps or sketches should be used to supplement narrative descriptions of the property location and boundaries in item 2, existing mine workings and geology in item 3, and the proposed exploration work in item 5. When this information is not too complex, all of it may be shown on one map or sketch. All documents and other attachments submitted as a part of this application, except those in item 3(g) which you mark to be returned, become the property of the Government and will not be returned to the applicant. Send true copies, *not originals*, of leases, contracts, and other documents which are an essential part of your business records. *File this application with the Office of Minerals Exploration, Department of the Interior, Washington 25, D. C., or with the nearest OME Field Office.*

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief, and that he would not ordinarily undertake the proposed exploration under current conditions and circumstances at his sole expense.

August 6, 1959
DATED

Emil C Miller
BY *(Signature)*

Owner
TITLE

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

INFORMATION REQUIRED WITH THIS APPLICATION

1. Financial Eligibility:

(a) Submit evidence of efforts made within 90 days preceding the filing of this application to obtain credit from your bank of account and at least one other banking institution or other private source of credit. Such evidence shall include true copies of correspondence which show: (1) date of loan request, (2) amount and terms requested, (3) proposed use of loan funds, and (4) the replies from credit sources. If the loan was offered under terms which you consider unreasonable, state why you consider them so.

(b) List names and addresses of affiliated, parent, or controlling companies or organizations and state extent and nature of their interest.

(c) State how you propose to furnish your share of the cost of the exploration work.

2. Applicant's Rights in Land:

(a) State your interest in the land and mineral rights, whether owner, lessee, purchaser under contract, or other. If you are not the owner, submit one true copy of the lease, contract, or other document (with address of owner) under which you control the property. Describe all liens, mortgages, or other encumbrances on the land and state book and page number and official place where recorded.

(b) State the legal description (section, township, and range; metes and bounds; patent number of claims) of the land upon which you wish to explore and all adjacent land which you own or control. Describe any part of the land or workings which should not be subject to Government royalty and liens. If the land consists of unpatented claims, state book and page number for each recorded location notice, including amended locations, and official place where recorded. State all the names by which you know the property.

(c) For all land or mineral rights encumbered or not owned, submit five copies of Lien and Subordination Agreements on MME Form 52. If the agreements cannot be obtained, state reasons and provide copies of letters of refusal.

3. Physical Description:

(a) Describe in detail and illustrate with maps or sketches all mining or exploration operations which you know have been or are being conducted upon the land. Include existing mine workings and all production facilities.

(b) State your interest, if any, in operations described in (a).

(c) State, if you know, the past and current production, supporting your statement with copies of settlement sheets, mine records, or published data if available.

(d) Describe known ore reserves, giving quantities and grades and sampling methods used. Support your statement with copies of assay certificates and assay maps if available.

(e) Describe by narrative and maps or sketches the geologic features of the property, including ore minerals, geologic formations if known, and type of deposit (vein, bedded, etc.).

(f) State your reasons for expecting to find ore, and if you have sampled the area you propose to explore, show where the samples were taken, describe sampling methods used, and provide copies of assay certificates.

(g) Send with your application at least *two* copies of all geologic or engineering reports, assay maps, or technologic information which you have, indicating whether you require their return.

4. Accessibility of Property:

(a) To aid the OME representative who may examine the property, state name and address of person who will meet him; give directions for reaching the property; and describe accessibility of property and of any mine workings.

(b) Name the shipping and supply points and state the distances to the property.

5. Exploration Work:

(a) Describe fully the proposed exploration work giving individual footages and sizes of openings *for each item of work.* Use narrative, maps, plans, and sections as necessary. Show location of the proposed work as related to geologic features such as veins, ore-bearing beds, contacts of rock formations, etc. Show also the relation of the proposed work to any existing mine workings and to *land boundaries* or to the closest identifiable corner.

(b) If an access road must be built, show the proposed location on the property map and state the length, type and construction methods proposed.

(c) If an OME contract is executed, state how soon thereafter work would be started and finished. State your anticipated average daily or monthly rate of progress for each type of work.

6. Experience:

State your operating experience and background to conduct this exploration work and also that of the person who will supervise the work.

7. Estimate of Costs:

Furnish detailed estimates of the necessary costs *for each item of the work proposed in 5(a)* under the headings listed below with a total for each heading and the estimated total cost of the work. Costs for any work to be performed by an independent contractor should be listed separately under category (a) below. Costs for any work that is not to be performed by an independent contractor should be listed under categories (b) through (g).

(a) Independent contracts. State the total cost of any proposed independent contract for all or any part of the work, and the number of units and the unit cost for each type of work, such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, or per cubic yard of material moved. Cost estimates should be supported by bids from three contractors if possible. (*Note*—If none of the work is to be contracted, write "none" after this item.)

(b) Personal services. The cost of supervision, engineering and geological services, outside consultants, and labor should be itemized by numbers and classes of employees; rates of wages, salaries or fees; and periods of employment. State whether these services are available.

(c) Operating materials and supplies. List items of material and supplies giving quantity and cost of each. Include under this heading power, water, and fuel, and units of equipment and tools costing less than $50 each.

(d) Operating equipment. List items of equipment and tools costing $50 or more per unit. Give specifications and indicate how each item is to be acquired—i.e., rented, purchased or provided by the applicant. If rented or purchased, state the estimated rental or purchase price. If furnished by the applicant, state condition and present fair market value.

(e) Initial rehabilitation and repairs. Describe the type and the cost of *initial* rehabilitation or repair of existing buildings, fixtures, installations (exclusive of mine workings), and movable operating equipment now owned by the applicant which will be used in the exploration work.

(f) New buildings, fixtures, installations. Describe each building, fixed improvement, and installation to be purchased, constructed, or installed for the exploration work, stating specifications and cost including labor, materials, and supervision.

(g) Miscellaneous. Describe the type and estimate the cost of repairs and maintenance of the operating equipment listed in 7(d). Do not repeat initial repairs listed in 7(e). Show also the costs of analytical work, accounting, workmen's compensation and employees' liability insurance, payroll taxes, and other required costs that do not fall within the previous categories. [*Note*—The Government will not contribute to costs incurred before the date of the contract, or to costs of or incident to: (1) acquiring, using, or possessing land and any existing improvements, facilities, buildings, installations, and appurtenances, or the depreciation and depletion thereof; (2) general overhead, corporate management, interest and taxes (other than payroll and sales taxes); (3) insurance (other than employees' liability insurance); and (4) damages to persons or property (other than authorized repair to or replacement of equipment or other property used in the work).]

INT.-DUP. SEC., WASH., D.C. 50399

The following report was made in 1935, when the Millers were looking for gold on this property:

REPORT ON A METALLIFEROUS DEPOSIT in the Christ E. Miller Homestead, Dickinson County, Upper Peninsula of Michigan by Oscar H. Reinholt, Mining Engineer.

LOCATION: This property of 179.9 acres, inclusive of 22.5 acres purchased, is situated about 3½ miles South of Vulcan, an active mining town on the Menominee Iron Range. The legal description is as follows: Lots 2 and 3; the SE¼ of the NW¼ and the N½ of the SE¼, all of Section 35, Township 39 North, Range 29 West.

RELIEF AND DRAINAGE: The land is rather leval. Very little of it rises more than 25 feet above the Menominee River, which borders it on the West and Southwest. Some of the land is swampy and thus poorly drained. Beavers have built three dams along the north line of the southeast quarter of Section 35 and across a small stream which drains Westerly into the small lake lying a little west and northwest of the center of this section.

ELEVATION: From 800 to 900 feet above sea level.

TIMBER: Fully two-thirds of the Miller Homestead is wooded or timbered. Poplar is most abundant, but there are some elms, oaks, maples and even evergreens, sufficient for mine timbers.

TRANSPORTATION: This property is reached by two fairly good dirt roads that connect with a gravelled township road at a distance of about 1 mile. The farm road is now being extended to the 2 prospects in the northeast quarter of the southeast quarter of Sec. 25. The nearest railway is about 1½ miles to the north.

POWER: If mining should ever be carried on here, power could be procured from the Penn Mining Co's 4,000 h.p. hydro-electric plant located about 3/4ths of a mile north of the northwest corner of this property. Briquetted peat may be bought at a very low price from the Turner brick yard hardly 3½ miles distant by road.

LABOR: A large supply of skilled labor is available at the several mining towns along the Menominee Range.

GENERAL GEOLOGY: The property lies in a belt of metamorphic rocks that extends from Wisconsin "granite island" on the southwest to the area of Paleozoic sedimentaries, particularly the Hermansville limestone to the northeast. These rocks appear to be more or less silicified slates and schists that grade into quartzite here and there.

FAULTS AND FISSURES: A zone of faulting or fissuring appears to traverse the property from east to west. In the 18' shaft, known as Prospect No. 1, on the easternmost forty, an open fissure or line of vugs lined with honeycomb quartz, is plainly revealed.

ORE ZONE: In the same shaft is exposed an ore bearing zone about 5' wide. It is not a solid quartz vein but irregular lenses of quartz intermingled with ore bearing country rock. This deposit resembles the formation at the Ropes Gold Mine near Ishpeming which yielded 2/3 of a million dollars in gold up to 1897.

COPPER-GOLD ORE: Chalcopyrite, azurite and malachite are scattered throughout the ore zone. A speciment of this ore assayed $18 in gold at the Houghton School of Mines recently. If it could average that, it would be 1/3 again as rich as the ore in the Ropes Gol Mine.

SAMPLE TAKEN July 2, 1935: On Tuesday, July 2, 1935, the writer took an average or representative sample of ore from the dump at the No. 1, or 18-foot prospect shaft. About 100 pieces made up the 17-pound sample which included a little of the country rock itself as taken out of this shaft. This sample was sent Saturday, July 6, to the Michigan College of Mines and Technology at Houghton for analysis. The copper content is of secondary importance and may not exceed one per cent. by weight.

EXTENT OF THE GOLD DEPOSIT: At this stage, with surface openings at only 2 points along the strike of the formation and about 500' apart, no calculation can be made of the proven and probable extent of the ore deposit. However, the showings already made are good enough in my opinion to warrant further exploration, but not development by shaft, as recommended below.

RECOMMENDATION: If the sample sent to Houghton should assay not less than $3 per ton, I would recommend deeper sampling by means of a core drill. Since the fissure seems to dip slightly to the south, I suggest that the first boring with diamond drill be done from the south at a distance of about 100' from the outcrop of Prospect No. 1 and at an angle of about 45° from the horizontal so as to cut the fissure and ore bearing zone at a vertical

depth of about 100'. If the ore is found and averages $5 or more per ton in gold alone, it would be advisable to drill another test 200' from the outcrop so as to encounter the fissure and take a sample of the ore at a depth of about 200'.

If this second sampling at depth proves at all satisfactory, it is advisable to make additional borings along the strike at intervals of 125 to 250' towards the west, in the manner above suggested.

PROPOSED FINANCING: The cost of the first 2 drill holes, totalling about 420', should not exceed $2,500 allowing for transportation of the contractor's drilling equipment. This sum is so small that either some individual mining man of a small syndicate of not more than 10 men should be able to finance the proposed exploration under option to purchase the homestead or the mineral rights or to lease the property so as to yield the owners a royalty of not less than 5 nore more than 15 per cent of the gross returns.

SUMMARY: The property is well located for low-cost operation, being so near highways and railways along the Menominee Iron Range. The fact that the Ropes Gold Mine near Ishpeming was profitably operated to a depth of 850 feet when gold was worth only $20.67 an ounce is rather encouraging. The finding of gold just south of the Menominee Range, in somewhat similar formation and of the same general age - Huronian - is well worth following up in the lease expensive way, by core drilling to prove the extent and value of the gold deposit.

Respectfully submitted,

Green Bay, Wisconsin
July 9, 1935

/s/ Oscar H. Reinholt,
Economic Geologist & Mining Engineer

Data in connection with the application of Emil C. Miller, Norway, Michigan, for financial assistance on mineral exploration:

1. I have applied to Commercial National Bank of Iron Mountain, Michigan, and First National Bank of Norway, Michigan, for a loan of $10,000.00 to conduct this exploration, but the loan has been refused because the banks are not permitted to make loans for this purpose. The banks' letters are attached hereto.

2. The land on which I propose to conduct this exploration is owned by myself and other members of my family and is available. We own it in fee and the same is known as "Miller's Homestead" and is described as Government Lot Three (3), North Half of Southeast Quarter (N½-SE¼) and Southeast Quarter of Norwest Quarter (SE¼-NW¼), Section Thirty-five (35), Township Thirty-nine (39) North, Range twenty-nine (29) West.

301.7 Criteria.

(a) I am attaching hereto copy of a report by Oscar H. Reinholt, a mining engineer and geologist.

(b) The estimated cost of this exploration is the sum of $10,000.00. If the results are favorable, it is possible that additional funds may be required. It is estimated that by sinking a shaft 100 feet and doing some drifting and crosscutting that a body of ore of commercial grade and of sufficient size to be economically workable will be available.

(c) The plan and method of conducting the exploration will be by sinking a shaft 100 feet to 150 feet and then drifting on the formation and crosscutting same. The drifts and crosscuts will probably extend for 200 feet.

(d) This property is very accessible. Good state and county highways are within one-half mile of the property. The Chicago and Northwestern railroad is within four miles of the property. Power is available within a half mile of the property. This power is produced by a large hydro-electric plant.

(e) Applicant understands mining, having been employed in the iron mines in the vicinity since 1916; not all of the time but he has also worked on this property in former years with his brothers, exploring same, and is fully experienced.

(f) The title to this property is owned 50% outright by applicant and the balance by applicant's family.

(g) Funds are unavaible to this applicant to conduct this exploration. The applicant, however, does own machinery and equipment worth $5,000.00, which will be used in this exploration, and he will contribute this toward the exploration. Applicant estimates that his contribution will be all that will be needed in the line of machinery and equipment at the start of the project. He will have to build a small engine house to house the compressor and tractor but this does not require an elaborate structure; only a shed. When he gets the shaft down 50 feet, it will be necessary that he invest in some wire rope and also that he purchase a small hoist which is rather inexpensive.

The applicant estimates that he will employ three men on the project. He himself will supervise things. He does not expect to be paid for his supervision but will have to pay the men employed and that is why he needs some funds. He is willing to direct the work and supervise the exploration without salary until such time as the mine goes into production and begins to earn profits.

301.8 Approval.

If the application is approved, the applicant is ready and willing to enter into a contract approved by the government.

Emil C. Miller

Emil C. Miller

Mining Tools and Equipment Owned by Emil C. Miller:	Value
Winsh	100.00
50' new 1" rope	5.00
Mining car	50.00
Track, 160'	25.00
Pipes, 1", 200'	20.00
Jack hammer	50.00
Drills	25.00
Air Hose 60'	15.00
Case Tractor	2,000.00
Ford Truck	500.00
Air compresser	1,000.00
Lumber on hand, 2000 board feet	120.00
Timber, 20,000 feet on stump	1,000.00
Ladder, rodded rungs, 36', new	40.00
Numerous small tools	100.00

Emil C. Miller

The First National Bank

V. S. NYSTROM, PRESIDENT
U. F. ANDERLAN, VICE PRESIDENT
L. B. POSSI, CASHIER
BLANKE TAVERNINI, ASST. CASHIER

CAPITAL AND SURPLUS $150,000.00

Norway, Michigan

August 4, 1959.

Mr. Emil C. Miller
Box 133
Norway, Mich.

Dear Mr. Miller:

Your application for a loan of $10,000 for the purpose of exploring for minerals on property described as-Section 35-Township 30, Range 29, Dickinson County, Michigan, has been declined for the reason that we are not permitted under the law to loan for this purpose.

Very truly yours,

Louis B. Possi, Cashier
First National Bank

LBP:ld

COMMERCIAL NATIONAL BANK

OF IRON MOUNTAIN

4 SEASONS PLAYGROUND

IRON MOUNTAIN, MICH.

August 4, 1959

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Box 133
Norway, Michigan

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Very truly yours,

W. W. Thompson
President

WWT:jl