DMEA Form 9
Rev. 6/57

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE Idm-E NO._____ DMEA NO. 5047

Application
- [x] Denied
- [ ] Withdrawn

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

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

Folder No. 1:

Left Side

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

Right Side

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

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

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

Additional Folders:

Left Side

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

Right Side

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

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

Folders No._____: Settlement Sheets

Folders No._____: Drill Logs

Folders No._____: Royalty material

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

OFFICIAL FILE COPY
DMEA
RECEIVED JUN 9 1958

June 4, 1958

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

Re: New Application (Copper)
Chemical Copper Co.
Copper City Mine
Broadwater County, Montana

Dear Mr. Selfridge:

Enclosed are the original and two copies of an application for DMEA aid to explore for copper in Broadwater County, Montana. We have retained a duplicate copy of the map, and have made a thermofax copy of each of the assays and of the lease.

The applicant proposes to explore five "ore-bearing dikes" by 2,880 hours of bulldozing, 10,800 feet of diamond drilling, and 1,440 feet of crosscut and drift at a total estimated cost of $175,680.

A field examination will be scheduled for the week of June 9, 1958.

Sincerely yours,

D R MacLean
Doo A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I

Enclosures

cc: USBM (2)
Prinz

Form MF-193
Revised Oct. 1957

UNITED STATES
DEPARTMENT OF THE INTERIOR

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

DEFENSE MINERALS EXPLORATION ADMINISTRATION

APPLICATION FOR AID IN AN EXPLORATION PROJECT

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

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

CHEMICAL COPPER CO.
THREE FORKS, MONTANA.
BOX 912

RECEIVED
JUN 2 1958
U. S. G. S.
SPOKANE, WASH.

APPLICANT NOT TO USE THIS BLOCK

Docket Number	DMEA-5047
Date Received	6-9-58
Government Participation %	
Region	I
Division Code	500

BUSINESS ORGANIZATION (Check one)

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

State in which firm is organized

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

Name	Address	Title
Armin A. Rosenhan	Midvale, Utah	Pres.
Earl M. Blair	Three Forks, Mont.	Vice Pres.
Vordis R. Cazier	Toston, Mont.	Member
Leonard S. Hobbs	Three Forks, Mont	Member
Wade Christensen	Richmond, Utah	Member

Mineral(s) for which you wish to explore: COPPER

Estimated Cost of Project: $ $175,680.00

LOCATION OF PROPERTY

Name	County	State
Copper City	Broadwater County,	Montana.

GENERAL INSTRUCTIONS

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

CERTIFICATION

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

May 28, 1958.
Dated

Arden F. Griffeth
BY (Signature)

Mgr.
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. *Applicant's Property Rights:*

(a) 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 land adjacent to the proposed project area which you own or control. Describe any part of the project land or workings which should not be subject to Government lien for royalty payments. If the land consists of unpatented claims, state the book and page number for each recorded location notice, including amended locations, and the place where recorded (courthouse, recorder's office, county, and state).

(b) State all the names by which you know the property.

(c) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise. If you are not the owner, submit with this application one exact copy of the lease, contract, or other document (with address of owner) under which you control the property.

(d) Describe all liens, mortgages, or other encumbrances on the property.

2. *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 lands, including existing mine workings. Describe all production facilities.

(b) State your interest, if any, in operations stated in 2*(a)*.

(c) State, as far as 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 on the property giving quantities and grades and sampling methods used, supporting 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 may have, indicating on each whether you require its return to you.

3. *Accessibility of Project:*

(a) To aid DMEA representatives who may be required to examine the property, state the name and address of the person who will meet the DMEA representative; give directions for reaching the property; and describe accessibility of the property including the mine workings.

(b) Name the shipping and supply points and places where employees reside and state the distances between them and the property.

4. *The Exploration Project:*

(a) Describe fully the proposed exploration project giving individual footages and sizes of openings *for each item of work.* Use narrative, maps, plans, and longitudinal and cross sections as necessary. Show the 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 *property boundaries* or to the closest identifiable corner.

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

(c) In the event that an exploration contract with DMEA is executed, how soon will the work start and how many months will be required to complete it? State your anticipated average daily or monthly rate of progress for each type of work.

5. *Experience:*

State your operating experience and background with relation to your ability to carry out this exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of Costs:*

Furnish detailed estimates of the costs *for each item of the work proposed in 4(a)* under the headings listed below with a total for each heading and the estimated total cost of the project. Costs for any work to be performed by an independent contractor should be shown separately under category *(a)* below. Costs for any work that is not to be performed by an independent contractor should be given in detail under categories *(b)* through *(g)*.

(a) Independent contracts. State the cost of any proposed independent contract for the performance of all or any part of the work, expressed in units of work, such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, 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. For necessary supervision, engineering and geological services, and labor, include an itemized schedule of numbers, classes, rates of wages, salaries or fees, and periods of employment. State whether these technicians and employees are available.

(c) Operating materials and supplies. List items of material and supplies with their cost. 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 operating equipment to be used giving specifications and indicating how each item is to be acquired – i.e., rented, purchased, or provided by the applicant. If it is rented or purchased, state the estimated rental or purchase price. If it is to be furnished by the applicant, give its present fair market value.

(e) Initial rehabilitation and repairs. Describe the type and the cost of necessary *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 on the exploration project.

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

(g) Miscellaneous. For the operating equipment listed in 6*(d)*, describe the type and estimate the cost of repairs and maintenance expected during project operations. Do not repeat initial repairs listed in 6*(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 – 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)* State whether you are prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation stated in Sec. 7 of DMEA Order–I, Revised.

(b) Explain to what extent you propose to furnish your share of the costs by providing money, by use of equipment owned by you, or otherwise.

* * * * *

INT.-DUP. SEC., WASH., D.C. 25960

1- (A)

This property all consists of unpatented load claims in sections 25 and 26 T 3 N 1 E Emerson unorganized mining district. The Copper Queen and Stella No. 1 are not included in this exploration.

The following claims are recorded in Townsen Montana, County of Broadwater.

NAME	BOOK	PAGE
Pennsylvania	20	474
Copper King	20	477
New York	20	476
Incline	20	478
Stella No. 2	20	479
Lorna	20	480
Green Giant	20	481
Silver King	20	317
Lorna No. 2	20	593
North Star	16	57
Cheryl	21	15
Thelma	21	16
Elizabeth	21	17
Kay Keyser	21	18
Star of the West	21	26

(B) -- Copper City

(C) -- We have a lease for ten years with an option to lease for another ten years. The owners name is Herbert G. Dunbar, Three Forks Montana.

(D) -- None.

2--(A) --All the work on these claims have been done before 1900, Except a shaft 600 ft. deep on claim Pennsylvania marked #6 on the map. 250 ft. East and a little North from the N. e. corner of Pennsylvania at a point marked # 7 on the North Star claim is several cuts and one shaft 4 by 6 ft. 20 ft. deep. Then 750 ft. North East from the North East corner of the Pennsylvania claim

is several more cuts and shallow holes, the deepest of these is 40 ft. 485 ft. East of the South West corner of the Incline claim a shaft 10 by 15 by 25 ft. deep marked # 5. Near the South East corner of the Copper King claim is a cut 6 by 8 by 20. marked # 4. On the Kdy Keyser claim 150 ft. from the North side at a spot marked # 3 on the map is a shaft 4 by 8 by 15 ft. deep near the North East corner of the Green Giant claim at point # 2 is a shaft 140 ft. deep. Near the center of the Cheryl claim 115 ft. from the north side marked # 1 is a cut 9 by 9 by 4 ft. deep. All of these spots show copper.

At present the Chemical Copper co. is starting an open cut on the Copper Queen claim. The ore is crushed near the pit then is hauled about one half mile South East to the plant where it is crushed finer and put through the leaching plant. No concentrates have been produced yet.

(B)-- We are the Chemical Copper Co.

(C)-- They tell us there has been some sulfide copper shipped from the main shaft. We have found no record of it.

(D)-- We have taken grab samples, trying to include every kind of rock on the dumps, from points marked # 1 to # 8 on the map. Included you will find the assay sheets.

(E)-- This is a granite lime contact. Ore occuring in the contact zone. This granite intrussion showes for better than four miles East and West. There is ore showing on the property that joins us on the West.

(F)-- We expect to find ore because next to the grass roots on most of the claims there is carbonate copper showing. And in every shaft that is more than 20 ft. deep we find sulfide.

(G)-- Inclosed find two coppies of contracts and maps and also assay reports.

3--(A)--The contact person will be

Arden (Ben) Griffeth
Park Hotel-Room No. 1
Three Forks, Montana
Phone No. 75.

There is a good plain road to any part of the property. You can drive a car to any of the claims.

(B)-- Our shipping point is Three Forks Montana. This is where our workmen live. About nine miles from the ming.

4--(A)--Starting at point No.5 on the South end of the Incline claim, and bearing in a North Easterly direction is an ore bareing dyke that extends beyond the North East corner of section 25. Just West of this is another dyke laying parrell. Then begining in the Ohio claim and bareing North West is some more ore bareing formation. There is another dyke going up from the New Tork claim and crossing through the East end of the Copper King and the Elizabeth. Another big ore bareing dyke showes in the Copper Queen and heads toward the Kay Keyser. Here it takes on an East West direction and showes in the adjoining claims along the contact.

What our Bord members propose to do is cross cut these dykes with a D 8 Dozer in every place where we might expose ore. Then in every likely place we can pattern drill, or individual holes, with a core drill. With a drill that will yeald 1 3/16 in. cores to a depth of as much as 1000 ft. where it looks likely that we will find good ore.

Our Board also wants to go down into shaft marked # 6 and shaft marked # 2 and do some cross cut tunnel work.

(B)-- No road building is necessary.

(C)-- The work can start at once. It will take 24 months to complete it. Allowing three months out of each 12 when the weather will be so bad we cannot get on to the property. It will take 18 months of actual work.

We expect to complete 160 hours of duldozer work per month. Except when we might be forced to shut down for repairs. We anticipate 600 ft. of core drilling per month. In the tunnel work we expect to make 60 ft. per month and a possible 30 ft. will have to be timbered.

5-- The board of Directors have appointed me, Arden Griffeth, to manage the Chemical Copper operations. I suppose they will want me to continus. I have been doing this kind of work for the past eleven years in Western Mont, and Idaho. Mr. Earl Blair, who is the Supt. at the plant now, will supervise the operations. He has spent more than twenty five years supervising both open pit and under ground mining.

6-- Because our work is all in rock and a ripper will have to be used some of the time, the best offer we can get for a D 8 buldozer is $19.00 per hour. We propose to work five eight hour days per week. Which would be 160 hours per month for 18 months is 2,880 hours at $19.00 per hour is $54,720.00 total cost for dozer.

Because of the broken condition of the rock near the surface, the best offer we can get for drilling 1 3/16 in. core, is $6.00 per ft. we expect to average 30 ft. per day. Five days per week for 18 months is 10,800 ft. drilled at $6.00 per ft. is $64,800.00 total cost for drilling.

For the underground work the Board estimates that we can do the tunnel work for $39.00 perft. This will include the timber work at the portal and in the tunnel. About one half the footage in the tunnel will probably have to be timbered. And also rails, hoist and all other equipment necessary which we have on hand at present. We can average 20 ft. per week which would be 1,440 ft. for the entire contract at $39.00 per ft. is $56,160.00 total cost for tunnel work. This will all have to be hoisted out of a tunnel.

Total for dozer work	$54,720.00
Total for drilling	$64,800.00
Total for tunnel work	$56,160.00
	$175,680.00

(A)--We have consulted independent contractors but we think it will be best for us to furnish all the equipment and labor and take care of the work ourselves.

(B)-- All the skilled help we need is avaible at present.

(C)--This is all included in the total costs.

(D)-- We propose to purchase a reconditioned D 8 buldozer which will be in good condition. At a cost of about $15,000.00. The Diamond drill we want will cost complete $7,600.00. We already have all the equipment we need for the under ground work.

(E)--None

(F)--None

7-(A)--Yes.

(B)--We propose to furnish all the equipment and labor. This will include all cost of fuel, repairs supervision etc. If this does not represent 50% we propose to make up the balance in cash.

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L E A S E

THIS LEASE, made and executed this 9th day of August, A.D., 1957, by and between HERBERT G. DUNBAR, of Three Forks, Gallatin County, Montana, party of the first part, and Arden F. Griffeth, of Franklin, Idaho, and V. R. CAZIER, of Toston, Montana, parties of the second part, WITNESSETH:

That the said party of the first part, for and in consideration of the rents, royalties, covenants and agreements of the said parties of the second part by them to be paid, kept and performed, have leased, demised and let, and by these present do lease, demise and let unto the said parties of the second part, the following described quartz lode mining claims and premises, and mill site, situated in the EMERSON Unorganized Mining District in Township Three (3) North of Range One (1) East of M. P. M. in the County of Broadwater, State of Montana; some of said claims being situated in the North Half of Section 26 and others thereof being situated in Section 25, in said Township and Range and County:

PENNSYLVANIA

PENNSYLVANIA MILL SITE

COPPER KING COPPER QUEEN

NEW YORK

INCLINE

STELLA NO. 2

LORNA

GREEN GIANT

SILVER KING

LORNA NO. 2

NORTH STAR AMENDED

CHERYL

THELMA

ELIZABETH

KAY KEYSER

STAR OF THE WEST ; and any other mining property first party may own in said Mining District, Township and Range in either of said sections whether herein listed or not; together with the right to mine and extract copper ores from the said leased premises on the terms and conditions herein stated.

TO HAVE AND TO HOLD, the said leased premises, together with the appurtenances, unto the said parties of the second part, for the term of ten (10) years begining on the date hereof and continuing until and expiring on the 9th day of August, A. D. 1967; with the privilege and option hereby granted to the lessees to renew this lease for the term of ten (10) years, upon the same terms and conditions as herein set forth, provided the parties of the second part have faithfully paid the rents, royalties and kept the covenants and agreements on their part to be kept and performed during the original term of this lease, and provided further they communicate to first party in writing their intention to do so ten (10) days after the expiration of the original term hereunder.

The right to mine and extract copper ores from said mining premises shall extend only to oxide ores recoverable from the surface of said premises and down to the two hundred foot level of said mines and premises, and to any ores down to said level.

And in consideration of said lease, the said parties of the second part do further covenant and agree with the said party of the first part as follows:

That they will take possession of said property under this lease immediately and hold the same hereunder, and that they will commence actual mining operations on said property within sixty (60) days from the date hereof, and will work the said mining claims and premises in a miner like fashion in a manner so as to do and perform thereon good and economical mining in order to take out the greatest quantity of said ores possible with due regard to the safety, development and preservation of said premises as workable mines and mill site; and that they will do and perform at least Five Thousand Dollars ($5000.00) worth of work on said property prior to October 15 A. D. 1957.

Second parties further agree that they will work and mine said premises steadily and continuously during the entire life of this lease; and that any failure to do at least $ 5000. worth of work under this lease annually during its life may be considered a violation of this covenant by said party of the second part, and shall subject this lease to forfeiture at the instance of the said party of the first part; all such annual work shall be done in manner and time to meet all legal requirements for the doing of annual labor upon said property and to at least the worth of said $5000.00; and second parties agree to take all steps required by law or by the first party in establishing a public record of proof of such annual labor.

That said parties of the second part agree to set up and commence the operation of a leaching plant operation for the recovery of copper and other minerals and commence such operation within one (1) year from the date hereof.

The said parties of the second part represent such leaching plant operation to be generally as follows:

A leaching plant shall be set up consisting of twin belts approximately 60 inches in width each, ½ inch in thickness each, and 120 feet in length each, and set up in such manner that said belts form atrough, are conveyed slowly for the purpose of carrying crushed copper ore chemically treated and the recovery therefrom of copper in liquid form; such liquid is to be deposited in at least four wooden stave tanks of 12,500 gallons capacity each in which second parties are to place scrap iron; such liquid attacks the iron and replaces it with copper in solidified form; such liquid is used again and again and added toand replaced in the leaching plant operation; every six to eight hours copper from such tanks is harvested, and soon as it is dry the same is ready for processing and sale; scrap iron is cleaned by burning all grease and paint off it, and it is then ready for use in settling vats or tanks; in such leaching plant process two hundred tons of ores or more are handled in a day.

Accompanying equipment used and to be used in such leaching plant operation consists of a crusher, a ball mill, classifier, leaching plant it self, settling tanks, motors bins, bulldozers, loaders, trucks, compressors, wagon hammer;

Six to ten men are required in the work of such operation;

Leaching plant operations and equipment to be set up on the premises hereby leased.

And in further consideration of the said lease, and as rentals and royalties for the use of said premises and the right to mine and extract copper and other minerals under this lease therefrom, the said parties of the second part agree to pay to the said party of the first part, on all copper and other minerals produced from said premises and from said leaching operations, rentals and royalties as follows:

Eight per cent (8%) of the gross value of all copper and other minerals produced from leaching operations and said premises, and from the treatment of scrap iron in leaching operations; or eight per cent (8%) of the gross finished copper and other minerals product from such operations and premises and treatment in metals, at the option of the party of the first part.

The said parties of the second part shall perform all work in mining said premises under this lease and in operation of leaching plant and equipment, and shall furnish all equipment, and bear all expenses in so doing, and shall do all road work necessary and shall bear all expenses of the same. All scrap iron treated in leaching operations shall be furnished by second parties and they shall bear all cost of the same.

Parties of the second part agree they will keep books of account and production records showing the amount of minerals produced from said premises by way of leaching operations and treatment of scrap metals, and the amount of the minerals shipped, sold, or disposed of, and the amount of money received from the sale of the minerals recovered; and the party of the first part or his agent or agents shall have at all reasonable times the right of inspection of said account books and production records.

Party of the first part, his agent or agents, may go upon said premises for the purpose of inspection and may inspect all operations of second parties thereon.

In the event of mining operations below the surface of said premises to the two hundred foot level thereof, second parties agree to well and sufficiently timber mines at all points where proper in accordance with good mining, to repair all old timbering wherever it may become necessary; to allow the said party of the first part, and his agent or agents, to enter upon and into all parts of said premises at all reasonable times for the purpose of inspection, with the use of all means of ingress and engress for such purposes, with the right in the party of the first part, his agent or agents, to take samples of ore from said premises as he desires or may desire, and the said parties of the second part are not to allow any persons except themselves and persons united in interest with them to take or hold possession of said premises under any pretense whatever; and the said parties of the second part agree to keep at all times the drifts, shafts, tunnels and other permanent workings on said premises or used in working the same throroughly drained and clear of loose rock and rubbish of all kinds; and the said parties of the second part agree to turn the said premises back to first part at the end of said term, or renewel term, if any, in workable shape and condition.

It is further agreed between the parties hereto that in the event that the said parties of the second part, or any person under the, shall fail to comply with any of the covenants and agreements herein contained, that the said party of the first part may, at his option, terminate this lease by serving upon any one of the said parties of the second part a notice in writing setting forth the manner in which the said second parties shall have failed to comply with the covenants and agreements herein contained, and that if said covenants and agreements shall not have been complied with within the legal time for such compliance or within a period of sixty (60) days if no legal time or period is prescribed, from and after the date of the service of said notice in writing upon one of said parties of the second part, it is agreed that this lease shall terminate and be fully ended, in which event the second parties agree without further notice or legal process to vacate

the said premises and to surrender up the peaceable and quiet possession of the same unto the said party of the first part. Such notice shall be deamed to have been regularly served if mailed to the last known places of address of one of the parties of the second part as shown by this contract, or if personally served on one of such second parties at any place.

Parties of the second part shall have one year following any termination of this lease or renewal term, if any, within which to remove their property and equipment from said premises.

Parties of the second part agree that they will not assign this lease or any interest thereunder, and will not sublet the said premises, or any part thereof, without the written consent of the said party of the first part; provided, however, that the parties of the second part may assign interests to disclosed principals as follows:

Roger Griffeth 5%
Franklin, Idaho
Don Cazier 5%
Tosten, Montana
Boyd Cazier 5%
Tosten, Montana
LaGrand Cazier 5%
Tosten, Montana
Armond Rosenhan, Midville, Utah 10%
Wayne Porter, Ogden, Utah 5%
Wade Christensen, Richmond, Utah 5%
Leonard Hobbs, North Fork Idaho 5%
Earl Blair, North Fork, Idaho 5%
Clyde Porter, Franklin, Idaho 5%; and provided, further, that all said second parties and principals shall, if said assignments are made, and said second parties shall, if said assignments are not made, bear among themselves and to each other the relation of mining partners as defined by the laws of the State of Montana and shall acquire ownership of shares or interests in this lease and work the said leased premises for the purposes of this lease.

Time is of the essence of this lease and of each clause and condition in the same contained.

The party of the first part covenants and agrees with the said parties of the second part that so long as said second parties shall comply with the covenants and agreements herein contained that second parties may peaceably and quietly hold and enjoy the said premises the full term of this lease, and renewal term, if any; provided, however, that any failure of second parties to obtain possession of any of said mining claims or property through any want of right of possession of first party, will, at the option of first party terminate this lease.

Parties of the second part agree to protect livestock against their operations upon said leased premises.

This lease, and each and every clause and covenant of the same shall extend to the heirs, executors and administrators of all the parties hereto, and to the assigns of said parties, whenever assignments have been consented to by first party.

Upon shipment of any metals from said leased premises, second parties shall furnish to any sampling works, or consignee buying or treating same the name, or names and post office addresses of the lessor and lessees interested in such shipment of metals.

Parties of the second part agree to repair and keep in repair the buildings upon said mill site.

In WITNESS WHEREOF, the parties hereto have hereunto subscribed their names and executed this instrument in triplicate the day and year in said instrument first above written.

_____
Party of the first part.

_____

_____
Parties of the second part.

I, the undersigned, hereby consent that Arden F. Griffeth and V.R. Cazier, the lessees named in a certain indenture of lease made by me under date of the 9th day of August, A. D., 1957, and any person or persons to whom said lessees amy assign or may have assigned any interest or interests and who are named on page -5- of said lease, may assign the whole estate in the property comprised in said lease unto a corporation to be formed by said lessees and the persons named on said page -5- of said lease or some thereof, for the remainder of the term of said lease and for the renewal term thereof, if any, subject to the payment of the rentals and royalties reserved by or agreed to be paid under, and the performance and abservance of the covenants, conditions, and agreements contained in, the said indenture of lease.

WITNESS my hand this 18th day of September, A. D. 1957.

Herbert G. Dunbar.

AMENDMENT OF LEASE

OFFICIAL FILE COPY
DMEA
RECEIVED JUN 9 1958
DATE

We, the undersigned, in consideration of one Dollar ($1.00) and other good and valuable consideration, receipt whereof is hereby respectively acknowledged, and of the mutual covenants and agreements herein contained, do hereby specify and agree that the Lease entered into between HERBERT G. DUNBAR, as first party, and V. R. CAZIER and ARDEN F. GRIFFRTH, as second parties, on or about the 9th day of August, A. D. 1957, and thereafter assigned with the written consent of Herbert G. Dunbar, first party in said lease, to CHEMICAL COPPER COMPANY, a corporation, and more particularly the second paragraph of page 2 of said lease and the fourth paragraph of page 4 of said lease shall be amended, stricken from,and added to respectively as follows:

The second paragraph on page 2 of said lease shall be and the same hereby is stricken from said lease: and in lieu thereof the undersigned agree as follows: The parties of the second part shall have the rights to explore said mining premises and the whole thereof, and to mine and extract ores and any and all minerals whatsoever from said mining premises, and process, ship, market, or sell any or all of such ores and minerals, and such rights shall extend to every part and portion of said mining premises and to any level thereof: and rentals and royalties upon the gross returns from all products sold from said premises, or from finished products from processes conducted thereon, shall be paid at the rate herein before in this lease provided.

The second line of the fourth paragraph on page four of said lease shall be and hereby is amended by striking therefrom

the words "to the two hundred foot level thereof".

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DMFA
RECEIVED JUN 9 1958
DATE

Dated this 8th day of May, A. D., 1958.

Herbert G. Dunbar

CHEMICAL COPPER COMPANY

By _____
Its President.

ATTEST:

_____
Secretary.

STATE OF MONTANA)
COUNTY OF GALLATIN) ss:

On this 8th day of May in the year 1958, before,me, Harold L. Allen, a Notary Public for the State of Montana, personally appeared Herbert G. Dunbar, personally known to me to be the person described in and whose name is subscribed to the within and foregoing instrument, and acknowledged to me that he executed the same.

IN WITNESS WHEREOF I have hereunto subscribed my name and affixed my Notarial Seal the day and year in this certificate first above written.

_____
Notary Public for the State of Montana;
Residing at Three Forks, Montana
My Commission Expires May 21, 1959.

STATE OF MONTANA)
COUNTY OF GALLATIN) ss:

On this 8th day of May in the year 1958, before me, Harold L. Allen, a Notary Public for the State of Montana, personally appeared_____, known to me to be the_____of the corporation that executed the within and foregoing instrument, and acknowledged to me that such corporation executed the same.

IN WITNESS WHEREOF I have hereunto subscribed my name and affixed my Notarial Seal the day and year in this certificate first above written.

_____
Notary Public for the State of Montana;
Residing at Three Forks Montana.
My Commission Expires May 21, 1959.

Box 1880

Phone 2-8131

LEWIS & WALKER

JOHN S. ROACH

ASSAYERS AND CHEMISTS

SHIPPERS' REPRESENTATIVES

108 North Wyoming Street

BUTTE, MONTANA

Chemical Copper Company

Date May 27, 1958

Your Sample Assayed as Follows:

	Ozs. Per Ton Silver	Ozs. Per Ton Gold	Value Per Ton at $35 Per Oz. Gold $ Cts.	% Copper	% Lead	% Zinc	% Silica	% Iron	% Manganese	%
1-West				1.12						
2 HP				0.38						
3-KK				0.32						
4-NC				Trace						
5-SEn				1.77						
6-MS				1.94						
7-NS				2.12						
8-IN				2.28						

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RECEIVED JUN 9 1958
DATE

Charges $

Respectfully Submitted

Lewis & Walker

JSR

COPY OF ORIGINAL

LEWIS & WALKER
JOHN S. ROACH

ASSAYERS AND CHEMISTS

Butte, Montana. 108 North Wyoming St.

Chemical Copper Co. May 27, 1958.

Sample assayed as follows.

	COPPER
1-West	1.12
2-HP	0.38
3-KK	0.32
4-NC	TRACE
5-SRN	1.77
6-MS	1.94
7-NS	2.12
8-IN	2.28

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RECEIVED 9 1958

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[redacted] Arlington, Virginia c/o Miss Betty Gratz Geological Reports	RUN / STOP	Mr. Ellis Room 4443 Interior Bldg.	RUN / STOP
[redacted] GSA [redacted]	RUN / STOP		RUN / STOP
A. W. Pastis 3244 GSA	RUN / STOP		RUN / STOP
Mr Gatlitt	RUN / STOP		RUN / STOP
Jane Titcomb Forest Hill Factory	RUN / STOP		RUN / STOP
Mr. Ingerson 1243 GSA	RUN / STOP		RUN / STOP
Mr. Ramisch NGF	RUN / STOP		RUN / STOP
Mr. Matthews 1244 - G.A.O. Bldg.	RUN / STOP		RUN / STOP
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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

November 4, 1958

Memorandum

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

From: Commodity Specialist, Branch of Base Metals

Subject: Review of Examination Report, Docket No. DMEA 5047 (copper) Chemical Copper Company, Copper City Mine, Broadwater County, Montana, $175,680

The Examiners report that although some secondary copper minerals are found locally, the mineralization is weak and there would be little chance of making a significant discovery by the proposed exploration. Accordingly, they recommend that the application be denied.

I concur in this recommendation.

A. D. McMahon

A. D. McMahon

Copy to: Division of Minerals
Branch of Base Metals (2)
Thor Kiilsgaard, U.S.G.S.
F. D. Lamb
F i l e s

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O. M. E.
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UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
So. 157 Howard Street
Spokane 4, Washington
October 23, 1958

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DATE	INITIALS	CODE
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10/31	C	130
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		500
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Mr. George C. Selfridge, Chairman
Operating Committee, OME
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-5047 (Copper)
Chemical Copper Company
Copper City Mine
Broadwater County, Montana

Field Team Rpt.

Dear Mr. Selfridge:

Enclosed are three copies of a memorandum examination report on this application by William C. Prinz, Geologist, U. S. Geological Survey.

The Copper City mine is underlain by Paleozoic or early Tertiary limestone that has been intruded by irregular blebs and dikes of Tertiary diorite. Thin zones of copper-bearing tactite have been formed along the contact in many places. Inasmuch as the distribution of the tactites and copper mineralization is spotty and discontinuous, Prinz concludes that the chances of making a significant discovery are poor and recommends that the application be denied.

We concur with this conclusion and recommendation.

By Field Team, Region I

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

Wing G. Agnew
Wing G. Agnew, Member
U. S. Bureau of Mines

Enclosures
cc: USBM(2)
USGS(SRO)
Prinz

Reviewed by
OME OPERATING COMMITTEE
10-31-58
(date)

OMEA
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UNITED STATES
DEPARTMENT OF THE INTERIOR
Office of Minerals Exploration
So. 157 Howard Street
Spokane 4, Washington
October 22, 1958

MEMORANDUM

To: OME Field Team, Region I

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

Subject: Application Examination Report, Docket No. DMEA-5047 (Copper) Chemical Copper Company, Copper City Mine, Broadwater County, Montana

INTRODUCTION

An application for DMEA assistance to explore the Copper City property, Broadwater County, Montana, for copper was received June 2, 1958, from the Chemical Copper Company. The applicant proposes an 18-month exploration program including bulldozing, diamond drilling, shaft rehabilitation, drifting, and crosscutting. Except for the shaft rehabilitation, the location of the proposed work is not given. The applicant estimates that this program will cost about $175,680; Government participation at 50 percent would be $87,840.

The property was examined on June 12, 1958, accompanied by Arden F. Griffeth, Manager.

SUMMARY AND RECOMMENDATIONS

The Copper City mine is underlain primarily by white limestone considered by some to be Paleozoic and by others to be early Tertiary, which has been intruded by dikes and irregular blobs of Tertiary diorite. Numerous zones of tactite or tactite-type material have been formed along the diorite-limestone contacts. The tactite consists predominantly of magnetite, garnet, epidote, and calcite, but locally may contain some secondary copper minerals. The maximum grade of the material seen at the property is about 2.3 percent copper; the average grade would be much lower. Inasmuch as the copper mineralization is weak and is sporadically distributed in discontinuous tactite zones, it is concluded that the chances of making a significant discovery are poor. Therefore, it is recommended that this application be denied.

Reviewed by
OME OPERATING COMMITTEE
10-31-58
(date)

LOCATION AND ACCESSIBILITY

The Copper City mine, sometimes called the Pennsylvania mine, is 9 miles by road north of Three Forks, Montana, in sec. 25 and the W½ sec. 26, T. 3 N., R. 1 E., Broadwater County (fig. 1). The property is easily accessible by passenger car from Three Forks by the following route: Follow U. S. Highway 10 west from Three Forks for 3 miles. At the junction of U. S. Highways 10S and 10N, turn right (north) on U. S. Highway 10N. Continue on Highway 10N for 5½ miles, then turn east on the dirt road following the northern edge of secs. 25 and 26. The northwest corner of the applicant's property is half a mile east of the highway.

The Copper City mine is at an altitude of approximately 4,800 feet in the relatively flat rolling country near the valley of the Jefferson River. A passenger car can be driven to almost any point within the property even though roads are absent. Except for 3 months during the winter, exploration work could be easily carried on throughout the year.

THE APPLICANT

The Chemical Copper Company, P. O. Box 912, Three Forks, Montana, is a Montana corporation made up of numerous small stockholders who, for the most part, reside in southwestern Montana and adjacent Idaho. Current work at the property, consisting of preparing a small open pit and of constructing a leaching plant, is being done by the stockholders. They are an energetic group and are doing considerable work at the property, but it is questionable whether they could finance a $175,000 program as they propose.

PROPERTY

History and production

The property was extensively explored by numerous shallow shafts and pits, most of which were dug before 1900. In 1948 the deep shaft on the Pennsylvania claim was cleaned out and retimbered and it is reported that work was being carried on there during 1949. No work is being done there now.

The only known production from the property is a small shipment of copper-silver ore reported to have been made in 1880 from the shallow shaft in the southern part of the Incline claim. The applicant is currently working the property by a small open pit in the southern part of the Copper Queen claim and is attempting to concentrate this ore at a leaching plant located on the Chemical Copper Company mill site. As yet, no concentrates have been produced.

Ownership

The Copper City property consists of 23 unpatented quartz lode claims and 2 mill sites as shown on plate 1. According to the applicant, 15 of these claims are recorded in the Broadwater County Courthouse, Townsend, Montana, as follows:

Name	Book	Page
Pennsylvania	20	474
Copper King	20	477
New York	20	476
Incline	20	478
Stella No. 2	20	479
Lorna	20	480
Green Giant	20	481
Silver King	20	317
Lorna No. 2	20	593
North Star	16	57
Cheryl	21	15
Thelma	21	16
Elizabeth	21	17
Kay Kayser	21	18
Star of the West	21	26

The applicant does not want the Copper Queen and Stella claims included in the exploration program. The six remaining claims, Cheryl No. 2, Kay, Thelma, Elizabeth No. 2, Ohio, and Inchwu, are being relocated and book and page numbers were not available at the time of the examination.

The property is owned by Herbert G. Dunbar who leased it to Arden F. Griffeth and V. R. Cazier for a period of 10 years beginning August 9, 1937. The lease was subsequently assigned to the applicant. The original lease included only the ground between the surface and the 200-foot level. However, by an amendment dated May 8, 1958, all ground was included.

Development

The property has been explored by numerous shafts and test pits (pl. 1). The deepest shaft is found near the center of the Pennsylvania claim. It is reported to be 600 feet deep and to have 1,400 feet of drifting and crosscutting at three levels. The shaft is now inaccessible because the hoisting equipment needs repair, the skip is jammed crossways in the shaft about two sets below the collar,

and the uppermost ladders in the raise are loose. Otherwise, the shaft and headframe appear to be in good condition. To date the applicant has made no attempt to go down in this shaft. Another relatively deep shaft is found in the northeastern part of the Green Giant claim. This shaft is bald, 5 by 3 feet in rock section, and is reported to be 160 feet deep. There are no surface facilities at this shaft except the remains of an old horse-driven hoist. Numerous other shallow shafts are found on the property; none have any surface facilities or are accessible. Numerous test pits have been dug throughout the property, but most are now badly sloughed. The operator has started an open pit in the southern part of the Copper Queen claim, from which he has mined a few tons of rock.

Except for the equipment at the Copper Queen open pit and at the leaching plant, there are no usable mine facilities at the property.

GEOLOGY

The geology of the area including the Copper City mine has been described by the following:

Haynes, W. P., 1916, The Lombard overthrust and related geological features: Jour. of Geology, v. 24, p. 269-290, and

Reed, G. C., 1931, Mines and mineral deposits (except fuels) Broadwater County, Montana: U. S. Bureau of Mines Information Circ. 7392.

In the first publication, the Copper City mine is referred to as Dunbar's mine; and in the second publication it is called the Pennsylvania mine. The Copper City mine is underlain by limestone that has been intruded by dikes or irregular masses of diorite. The limestone is fine-grained, white to gray, and massive. Reed believes that it is part of the late Paleozoic Madison formation, whereas Haynes considers it to be lower Oligocene. The diorite forms small dikes or irregular intrusive masses which are distributed sporadically throughout the property. The diorite is commonly medium-grained, locally porphyritic, and consists mainly of black hornblende and gray labradorite. Apatite, olivine, and magnetite are minor accessory minerals, and in one place, orthoclase is somewhat abundant. The dikes and the contact between limestone and diorite strike east-west in the northwestern part, north-south in the Copper Queen pit, northwest at the shafts on the Pennsylvania and Incline claims, and northeast at the pit on the North Star claim.

A variety of rocks has been developed along the contact zone which has a maximum width of about 4 feet and an average width of about 1½ feet. The only exception is at the Copper Queen open pit where an irregular zone 30 feet wide is exposed. The contact rocks consist of magnetite, red-brown garnet, pistachio-green epidote, coarse-grained calcite, and some secondary copper minerals. Except for calcite and locally garnet, these minerals are everywhere fine to medium-grained. The relative amounts of these minerals vary considerably from place to place; some rocks are composed almost wholly of magnetite and epidote, others are epidote and coarse-grained calcite with only a trace of garnet, whereas still others are all garnet and calcite with practically no epidote. The secondary copper minerals may be disseminated throughout the contact rocks, they may be entirely absent, or they may coat joint planes in either the normal limestone or diorite. Primary bornite was found only on the dumps of the deeper shafts on the Pennsylvania and Green Giant claims.

Visual estimates in the field indicated that these rocks would contain less than 2½ percent copper, a fact that has been verified by assay data, which are posted on plate 1. The results of the assays of two DMEA samples are repeated in the following table:

Sample No.	Width	Gold (oz./ton)	Silver (oz./ton)	% Copper
891	34"	0.16	0.4	2.23
892	Grab	0.08	0.15	1.41

Sample No. 891 was cut across a magnetite-rich contact zone on the Cheryl claim, and No. 892 is a grab across a 4-foot wide zone at the collar of the old shaft on the Incline claim. In addition, the applicant submitted assays of samples of the dump material from all of the sites visited during my examination. These assays ranged from a trace to 2.28 percent copper and averaged 1.24 percent copper.

Visible mineralization at the property is weak; however, according to Reed (1951) a private examination report indicates that ore-grade material was found in the 600-foot Pennsylvania shaft. According to this report, ore containing 9.3 percent copper was intersected at a depth of 200 feet, ore containing 3 percent copper was reported in the shaft from a depth of 225 feet to 310 feet, and a 5-foot vein containing 24.6 percent copper is reported at the 450 level. The applicant has made no attempt to open the shaft and verify this information. A sample of the dump material around the shaft, taken by the applicant, is reported to assay only 1.94 percent copper.

Copper mineralization, in places as much as 2.28 percent copper, is found in numerous discontinuous limestone-diorite contact zones distributed sporadically throughout the property. The most highly mineralized portion of the property is in the 600-foot Pennsylvania shaft and it is now inaccessible. Until this shaft is made accessible for inspection, it must be concluded that the chances of discovering significant amounts of copper ore are poor. A possible alternate target area would be in the vicinity of the Copper Queen open pit, but the applicant wishes this area excluded from DMEA work.

Samples of tactite were checked for scheelite with a Mineralight, but none was found.

APPLICANT'S PROPOSAL

The applicant proposes to explore the property by an 18-month program of bulldozing, diamond drilling, shaft rehabilitation, drifting, and crosscutting. Location, direction, extent, etc., of the work is not specified except for the shaft rehabilitation. It is proposed to rehabilitate both the 600-foot shaft on the Pennsylvania claim and the 160-foot shaft on the Green Giant claim. The applicant estimates that the proposed program would cost $173,680. Detailed cost analyses are not given.

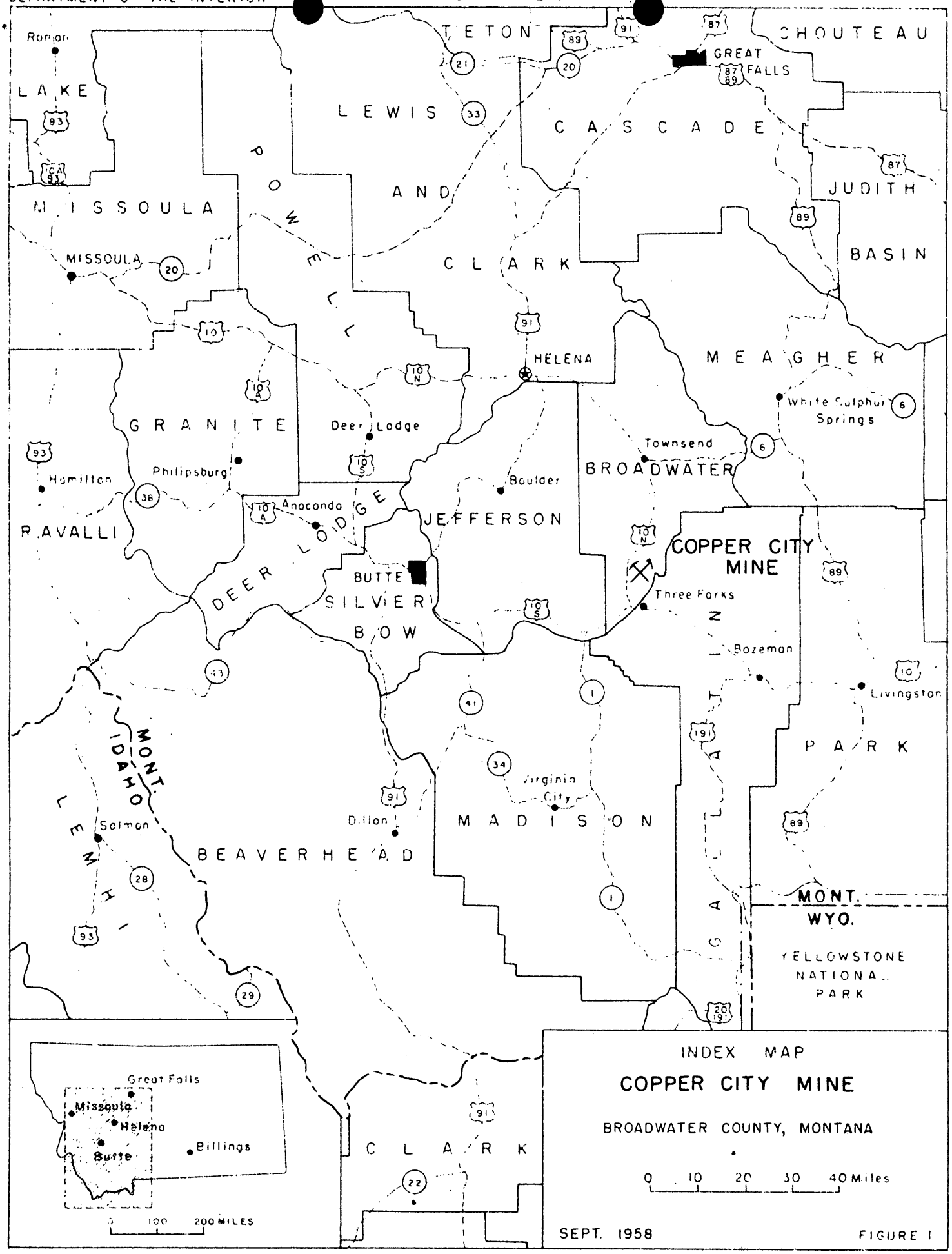
Since the applicant is so vague in the proposed program, it is impossible to evaluate it. It is suggested, however, that before any other work is done at the property, the 600-foot shaft on the Pennsylvania claim should be opened and made accessible.

Enclosures
Distribution:
DMEA (3)
USBM (2)
USGS (SRO)
Prinz
Docket

UNITED STATES
DEPARTMENT OF THE INTERIOR

PREPARED FOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
APPLICATION REPORT

DOCKET NO. DMEA 5047



DMEA Form 7
(12-56)

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8/22	Selledge	130
8/22	Jones	130
8/22	Nelson	130
"	Johnson	110
"	Rutherford	100
		220
		500

AUG 22 1958

Mr. Arden F. Griffith
Chemical Copper Company
Three Forks, Montana

Re: Docket No. DMEA 5047 (Copper)
Chemical Copper Company
Copper City Property
Broadwater County, Montana

Dear Mr. Griffith:

We regret that we were unable to completely process your application for exploration aid prior to June 30, 1958, the termination date for approving new contracts, as announced by the enclosed copy of a news release of June 6, 1958.

However, had the processing been completed, we would have been unable to approve a project based upon the information available to us in Washington concerning your property.

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

Sincerely yours,

C. O. Mittendorf (for)

Administrator

Enclosure

WRG/dl 8-22-58
cc to: Docket
Admr. R. File
Oper. Comm.
FT. REG. I
Mr. McMahon, USBM
Mr. Kiilsgaard, USGS
Chron.

8623

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SPOKANE WASH 8-15-58 1515U

MR. GEORGE C. SELFRIDGE, CHAIRMAN OPERATING COMMITTEE

DMEA

DEPT OF INTERIOR WASHN 25 DC

FIELD TEAM WILL RECOMMEND DENIAL OF ALL APPLICATIONS LISTED IN YOUR TELETYPE AUGUST 15 HOWEVER DENIAL OF HOWARD BANKS APPLICATION (DMEA 5030) IS RECOMMENDED WITHOUT PREJUDICE SHOULD PROGRAM BE EXTENDED PENDING EXAMINATION OF OLD WORKINGS NOT ACCESSIBLE BY JULY 1 BUT SINCE OPENED.

A. E. WEISSENBORN, EXECUTIVE OFFICER

DMEA FIELD TEAM REGION L

15 5030 1

VA 1517U

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

Department of Interior

DMEA - Base Metals Division
14[illegible](61)
Revolving Fund, Defense
Production Act, Interior,
(Transfer to Office of Secy.)

T E L E T Y P E

TO: [illegible], [illegible] OFFICER
DMEA FIELD TEAM, REGION 1
SOUTH 157 [illegible] STREET
SPOKANE 4, WASHINGTON

IT IS OUR UNDERSTANDING THAT YOUR OFFICE IS PREPARING REPORTS COVERING THE FOLLOWING BASE METAL APPLICATIONS:

DMEA 4987 TIDAL WAVE MINING, INC.

DMEA 5001 [illegible] ALBERT HALL

~~DMEA 5016 [illegible] Co.~~ Reports rec'd.

DMEA 5030 HOWARD C. [illegible]

DMEA 5045 [illegible] H. [illegible]

DMEA 5047 [illegible] CO.

DMEA 5049 [illegible] JACK [illegible]

PLEASE ADVISE US BY TELETYPE AS TO WHICH OF THE ABOVE YOU WILL HAVE REPORTS DUE.

George C. Selfridge
CHAIRMAN, OPERATING COMMITTEE

WRG/dl 8-15-58
cc to: Dockets (7) Chron.
Admr. R. File Conf. to Mag 1
Oper. Comm.

DMEA
RECEIVED JUN 16 1958

IN REPLY REFER TO:

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

Re: DMEA 5047
Chemical Copper Co.
Copper City Mine
Broadwater Co., Mont.
$175,680 - Copper

June 13, 1958

Memorandum

To: W. R. Griswold, Defense Minerals Exploration Administration

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

Subject: Review of application

The applicant requests assistance in exploring by trenching, underground work and diamond drilling a tactite zone on the surface of which, according to the application, there are numerous showings of 'carbonate' copper ore. Numerous cuts and shallow shafts and 2 shafts over 100 feet deep have been put down, but the results of such work are not given.

Assays of eight samples said to have been taken at different dumps show values of from 0.32% to 2.28% copper.

The diamond drill holes are planned to be up to 1,000 feet deep at which depth, according to the applicant, it looks likely good ore will be found.

An examination is planned, but as a matter of record, referral is hereby recommended.

N. E. Nelson

N. E. Nelson

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RECEIVED JUN 12 1958

DATE	INITIALS	CODE
6/12	H.G.	225
6/12	WRG	500

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

June 12, 1958

Memorandum

To: W. R. Griswold, Defense Minerals Exploration Administration

From: Commodity Specialist, Branch of Base Metals

Subject: Review of application, Docket No. DMEA 5047 (copper) Chemical Copper Co., Copper City Mine, Broadwater County, Montana. $175,680.

The exploration program proposed by the applicant consists of 2,880 hours of bulldozing, 10,880 feet of diamond drilling and 1,440 feet of crosscutting and drifting at a total estimated cost of $175,680.

Inasmuch as a field examination of the property was scheduled for about June 9, 1958 we shall await the examiners' report before evaluating the application. However, 18 months of bulldozing at a cost of $54,720.00 with a reconditioned D-8 bulldozer costing about $15,000 will be difficult to justify.

A. D. McMahon

A. D. McMahon

Attachment

Copy to: Division of Minerals
Branch of Base Metals (2)
Thor Kiilsgaard, U.S.G.S.
F. D. Lamb
Files

OFFICIAL FILE COPY
DMEA
RECEIVED JUL 9 1958
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500

So. 157 Howard Street
Spokane 4, Washington

June 4, 1958

Mr. Arden F. Griffeth
Chemical Copper Co.
Park Hotel - Room No. 1
Three Forks, Montana

5047

Re: New Application (Copper)
Chemical Copper Co.
Copper City Mine
Broadwater County, Montana

Dear Mr. Griffeth:

Your corporation's application for DMEA assistance to explore the Copper City property has been turned over to me for field examination. I expect to be in the Three Forks area the middle of next week (June 11, 12, or 13) and would like to examine the property at that time. I cannot give you a definite date at this time but will telephone you early next week to make the final arrangements.

If possible, I would like to have you, or a representative from your corporation, accompany me during the examination.

Sincerely yours,

William C. Prinz
Geologist

cc: DMEA (2)
USBM (2)
Prinz

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

June 10, 1958

Chemical Copper Company
Three Forks, Montana

Subject: DMEA-5047

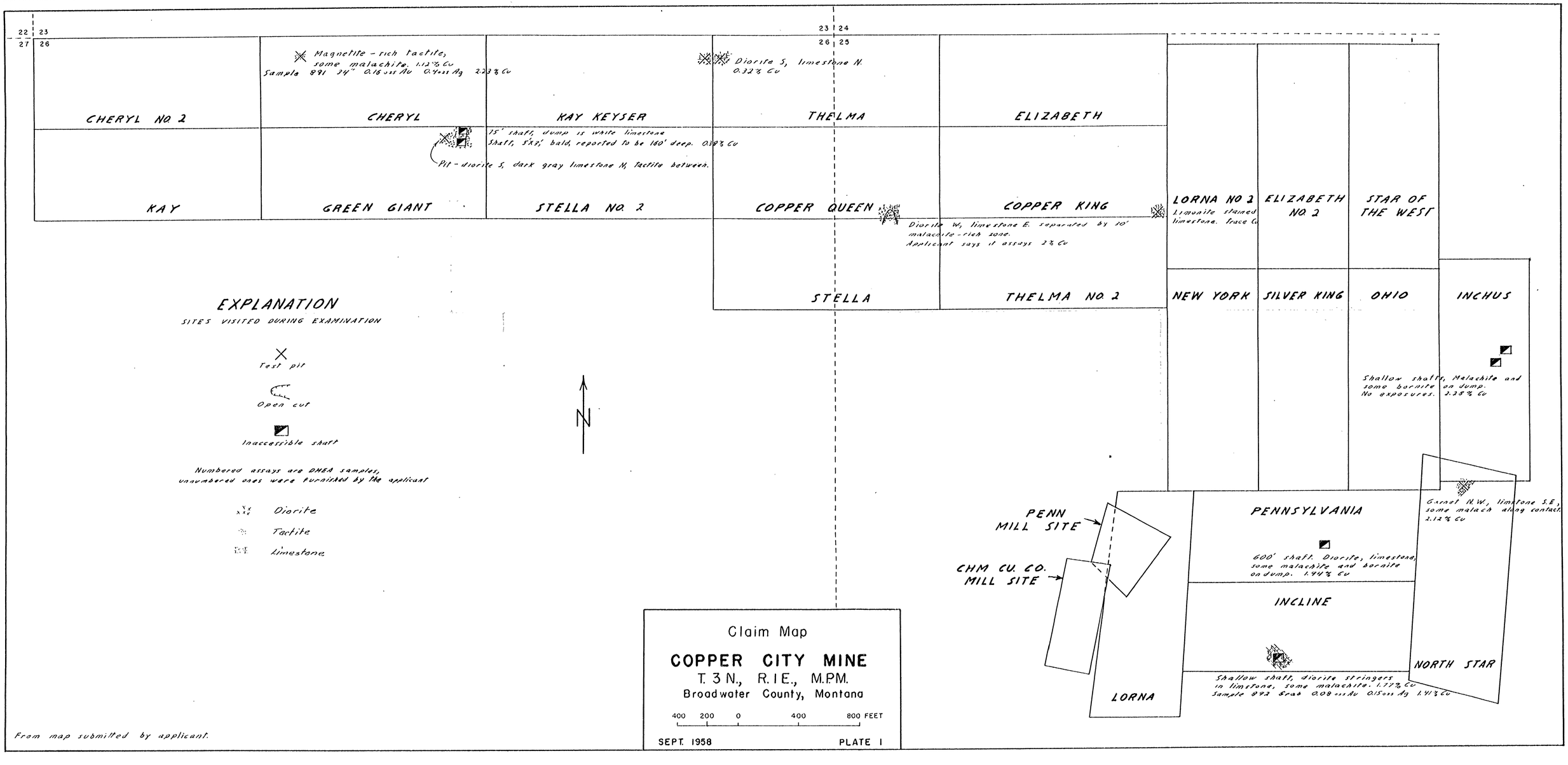
Gentlemen:

Your application for exploration assistance, dated May 28, 1958 submitted to our office at Spokane, Washington has been assigned Docket Number DMEA-5047 and referred to the Base Metals Division in the Washington office. Kindly identify all future correspondence relating to your application by this Docket Number.

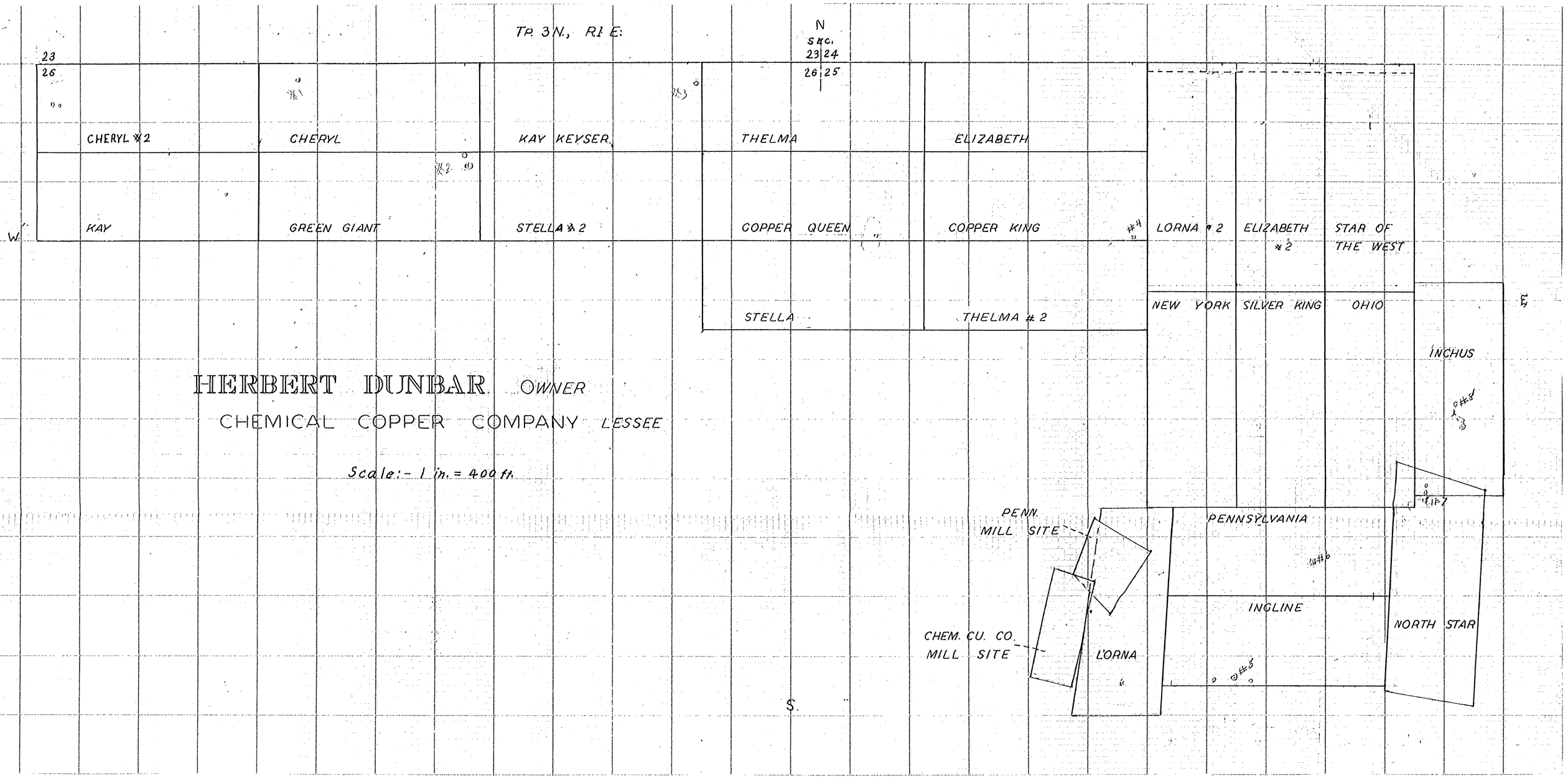
Sincerely yours,

Allen S. Dakan, Director
Operations Control and
Statistics Division

Copy to: Region I.



From map submitted by applicant.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STAR OF THE WEST
STELLA
THELMA #2
NEW YORK
SILVER KING
OHIO
INCHUS
W.
E.
HERBERT DUNBAR OWNER
CHEMICAL COPPER COMPANY LESSEE
Scale:- 1 in. = 400 ft.
PENN. MILL SITE
PENNSYLVANIA
INCLINE
NORTH STAR
CHEM. CU. CO. MILL SITE
LORNA
S.