IGMA-285

FEB 11 1952

AIR MAIL

Mr. Irven B. Bates, President
Cherokee Copper Company
Box 707
Tonopah, Nevada

Re: DMEA 2317 (Copper)
Cherokee Mine
Viola Mining District
Lincoln County, Nevada

Dear Mr. Bates:

This agency, the Defense Minerals Exploration Administration has taken over the files of the former Supply Division of the Defense Minerals Administration.

After making a thorough examination of all information available to this agency, regarding the subject application, we regret to advise you that we cannot approve an Exploration Project for your property.

We feel that we would do you a disfavor by granting Government aid for this project. In our judgement, both your funds and those of the public would be used on a project which we believe would be unsuccessful in discovering copper ore from which any appreciable production could be made.

We wish to thank you for your cooperation in bringing this property to the attention of the Government.

Sincerely yours,

C. O. Mittendorf

Acting Administrator
Defense Minerals Exploration
Administration

APPROVED:

Member, Bureau of Mines

Member, Geological Survey

HFKeller/FEJohnson/jem/bih
1/29/52
cc to: Admr's Reading File
Docket
Messrs. C.H.Johnson - Room 3621
Ned Nelson - Room 4216, GSA Bldg.
Ellis
Keller
Field Team, Region III (2)

January 10, 1952

J. R. Paxton
700 Aztec Place
Boulder City, Nevada

Dear Mr. Paxton:

Replying to your letter of January 8, addressed to Mr. Glen Gentry, relative to a report that was made on the Cherokee mine, Lincoln County, Nevada:

Mr. Gentry of this office did make a report on the Cherokee mine in the Viola Mining District, Lincoln County, Nev. This report was in connection with an application by Mr. Irven B. Bates for a federal loan to develop the property.

I am sorry but I cannot make this report available to you as it is considered confidential information for use in the defense agencies in determining if a loan is warranted on the property.

Very truly yours,

A. C. Johnson, Chief
Mining Division
Region III

ACJ:gh
cc: H. C. Miller with copy of incoming letter.
Files

Mr. Glen Gentry Boulder City Nev.

Dear Sir:. 1-8-52

I have been advised that you made an examination of the Cherokee Mine in Lincoln County Nevada. I am part owner of this group of claims. I am desirous of obtaining a copy of this report. Would you please advise me as to where I might be able to get a copy of this report. Any information you might offer would be greatly appreciated.

Yours truly.

J. R. Paxton

Boulder City

700- Aztec Pl. Nevada

DEFENSE MATERIALS PROCUREMENT AGENCY
WASHINGTON 25, D. C.

DEC 28 1951

Mr. Irven B. Bates
Cherokee Copper Company
Carp, Nevada

Re: DMA-285X

Dear Mr. Bates:

This is to acknowledge your letter of November 23, 1951 submitting your application for aid for an exploration project.

I wish to inform you that I am no longer in charge of exploration. This type of assistance is now handled by Defense Minerals Exploration Administration, Department of Interior. Therefore, I am transferring your application for exploration, DMA-285X, to that office in care of Mr. C. O. Mittendorf.

Very truly yours,

Tom Lyon, Director
Program Development Division

Copy to Bailey 1/7

RVWaugh:bez
12/19/51

cc: Mr. Mittendorf, DMEA (with enclosure)
Mr. Young
Mr. Feiss
Mr. Douglas
Field Team, Region III
Mr. Lyon
Mr. Gowen
DMPA-Files

CHEROKEE COPPER COMPANY
Carp, Nevada

November 23, 1951
Re: Docket DMA 285X

Mr. Tom Lyon
Director Supply Division
United States Department
of the Interior
Defense Minerals Administration
Washington 25, D. C.

Dear Mr. Lyon:

In answer to yours of September 14, 1951, I regret to report that my darling Mother had been holding it for me, along with a great deal of other and much less important mail. She was expecting me to be in Los Angeles from day to day for a long time. Of course I only just returned from there for the first time since way back in July.

In the future please address me at Box 707 Tonopah, Nev. until further notice,. Thanks

Needless to say I have hurried as fast as possible to fill out the enclosures in your letter as well as in complete accordance with your suggestions.

I sincerely hope that the long delay in answering, has not injured my chances from participation in the Exploration Program.

If this should be the situation you know that I will be greatly in your debt for any effort you make in my behalf to get the Cherokee Project, back on the right track.

Very truly yours

/s/
Irven B. Bates, Owner

COPY

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

Refer to	Noted	Date
	HEW	9/24
Answered		

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION IV
RECEIVED
SEP 2 4 1951
SAN FRANCISCO, CALIFORNIA

SEP 1 4 1951

Mr. Irven B. Bates
914 South Alvarado Street
Los Angeles 6, California

Re: Docket DMA 285X

Dear Mr. Bates:

After reviewing the data submitted with your original application, and later field team reports, it is felt that an alternative project might be more feasible than the shaft-sinking and diamond drilling project proposed in your letter of May 8, 1951.

If you would care to resubmit your application on the basis of the attached outline of an exploration project, with revised cost estimates itemized according to the enclosed Form MF-103, we believe it would be processed with as little delay as possible.

We are also enclosing herewith five copies of Form MF-100 for the serialization of your mine and one copy of MO-5 (Regulations).

Very truly yours,

Tom Lyon

Tom Lyon, Director
Supply Division

copy to Bailey 9/24

Enclosures

JBGoven:pk
9/14/51

Copy to: Adm. Reading File
Executive Officer, Field Team III
Copper Branch
Files-DMA Docket

Re: Docket DMA-285X

Alternative Project:

1. On the 134 level drift both ways along the cross fractures both north and south of the Cherokee shaft at least for enough to cross the walls of the quartz filled "fissure vein" and continue if the cross fractures are mineralized beyond the walls. This drifting will total not more than 120 feet.

2. Should lenses or veins paralleling the main "fissure" be crossed they should be followed. Allow, for purposes of cost estimate only, 500 feet.

3. If no favorable results are obtained by the first step, then either drift along the main fissure about 150 feet further north and south on the Cherokee 134 level and the Viola bottom level.

The total amount of work suggested will be about 700 feet, will cost about $21,000.00 allowing $30.00 per foot, and will indicate conclusively whether or not more consideration should be given to this prospect.

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED
MAY 9 1951
SAN FRANCISCO, CALIFORNIA

Los Angeles, California
May 8, 1951

Refer to	Noted	Date
	NEW	5/9
Answered		

U. S. Bureau of Mines,
Defense Minerals Administration,
Mr. Tom Lyon, Chief,
Copper Branch,
Washington, D.C.

DMA 285

Gentlemen:

I was in San Francisco yesterday to see Mr. Harold C. Miller with reference to Mr. Glen Gentry's report on his field examination of the Cherokee (Viola) Mine at Carp, Lincoln County, Nevada.

Unfortunately, in preparing the report at Reno, only four copies were made, which Mr. Miller of necessity, had to forward to you to be attached to the four copies of my loan application D.M.A. #285. He therefore had no copy in his office.

He of course advised me that Mr. Gentry's report was negative as to a development loan on the grounds of insufficient blocked out ore.

I had previously conceded over the phone in a conversation with you, Mr. Lyon, that there was not enough ore blocked out at the Cherokee to justify a mine development loan and that subsequent to equipping the mine and preparing the camp I discovered that at these prices such ore as has been opened up is not commercial shipping ore.

I was advised by Mr. Miller however, that previous action by your department in other cases where a property has been refused a development loan, many of them have been granted exploratory loans for sinking shafts, drilling cross-cut tunnels, and diamond drilling etc.

With the belief that the geological aspects of the Cherokee are encouraging to the extent of some small amount of exploratory work, I now ask that you grant $20,000 on the maximum allowable percentage basis for exploratory loans using that portion of my report in the file D.M.A. #285 as to my thoughts on how the money shall be spent.

In the report I suggested sinking the Shamrock shaft to greater depths on the ore. I do not believe that work of this nature would be advisable now. Instead, I am of the opinion that several short, size XA cross-cut diamond drill holes started at the bottom of the Shamrock shaft and going to the East and the West at right angles both to the strike and the 62 degree dip of the Cherokee fissure should reveal any parallel ore bodies or lime replacements at this depth.

It is my further considered opinion that three or possibly four 750 foot size XA diamond drill holes, at 75 foot intervals, started on the surface 400 feet West of the Cherokee fissure at the Shamrock shaft approaching the fissure at right angles and passing through it, should provide enough information upon which to base a final decision for any future work of any kind.

Thanking you in advance for your consideration and asking a prompt answer to the suggestions contained herein, I am

Sincerely yours,

Irven B. Bates

IBB:fe

cc: Mr. Harold C. Miller

Irven B. Bates
914 So. Alvarado Street
Los Angeles 6, Calif.

Mr. Miller:-
I hope that this letter fairly well agrees with your thoughts and suggestions.
Again I wish to express my thanks for your courtesy.
Sincerely

April 30, 1951

Memorandum

To: Tom Lyon, Director, Supply Division,
Defense Minerals Administration, Washington, D. C.

From: Executive Officer, DMA Field Team, Region III

Subject: Cherokee Copper Company, Irven B. Bates, Carp, Nevada—
DMA-285

Reference is to your subject memorandum dated March 16.

At your request, Mr. Glenn G. Gentry, Mining Engineer, U. S. Bureau of Mines, Region III Mining Division, visited the Cherokee Copper Company property. Mr. Gentry has reported on the property and four copies of his report are attached. Mr. Gentry concludes that a DMA development loan is not warranted, which is evident from his findings as they are related in his report. Mr. A. C. Johnson, Chief, Mining Division, Bureau of Mines, Region III, concurs with Mr. Gentry's conclusions. The DMA folder and correspondence relating to this property also are returned herewith.

Mr. Ward Smith, Geological Survey member of Region III DMA Field Team, has reviewed the report and agrees with the findings and conclusions as given by Mr. Gentry.

H. C. Miller
Executive Officer, DMA Field Team,
Region III

Attachment (File)

P.S. Mr. Bates just called me long distance, and I reported to him that our engineer's report on the Cherokee Copper Company property was unfavorable.

H.C.M.

Copy to: Ward Smith, Geological Survey

iller:am
es
no

UNITED STATES
DEPARTMENT OF THE INTERIOR

BUREAU OF MINES
P. O. Box 1551
Reno, Nevada

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED
APR 24 1951
SAN FRANCISCO, CALIFORNIA

April 23, 1951

Refer to	Noted	Date
Answered		

Memorandum

To: H. C. Miller, Regional Director, San Francisco

From: Chief, Mining Division, Region III

Subject: Cherokee Copper Company, Irven B. Bates, Carp, Nevada (Docket DMA-285)

Enclosed herewith is Mr. Gentry's report on the Cherokee Mine, Viola Mining District, Lincoln County, Nev.

Mr. Gentry does not believe that a development loan is warranted on the property and from the data presented in the report, I concur with his recommendations.

The DMA folder and correspondence relating to this property are also returned herewith.

A. C. Johnson

A. C. Johnson

Encls.

Noted 4/30
WCS

April 16, 1951

UNITED STATES
DEPARTMENT OF THE INTERIOR
OSCAR L. CHAPMAN, SECRETARY

BUREAU OF MINES
JAMES BOYD, DIRECTOR

DOCKET DMA-285

CHEROKEE MINE, VIOLA MINING DISTRICT, LINCOLN COUNTY, NEV.

By Glenn G. Gentry
Mining Engineer

April 16, 1951

DOCKET DMA-285

UNITED STATES DEPARTMENT OF THE INTERIOR - BUREAU OF MINES

CHEROKEE MINE, VIOLA MINING DISTRICT, LINCOLN COUNTY, NEV.

By Glenn G. Gentry

SUMMARY

The Cherokee mine, situated in the Viola Mining District, is in the Mormon Range southeast Lincoln County, Nevada. It is accessible by a fair automobile road, a distance of 42 miles southwest of Caliente, Nev.

The property has been intermittently worked since 1880 by various individuals for the silver values in the ore. Two shafts have been sunk; the Cherokee and Viola. The development openings on these claims have been confined to a quartz ledge on the northwest end of the claim. The quartz ledge cuts the limestone formations. This quartz ledge on the surface varies from approximately 10 to 40 feet thick and has a northwest to southeast strike with dips from 60 to 70 degrees west. The ledge can be traced on the surface for a horizontal distance of about two miles. The vein, chiefly quartz, contains copper carbonates and sulphides which occurs as thin coatings on fractured faces. From the mine workings, it is apparent only a small production of ore has been made from the property. No measured ore is presently exposed in the mine.

INTRODUCTION

Pursuant to a loan application from Mr. Irven B. Bates, dated December 30, 1950, an examination of the Company's mining property was made by an engineer[1] of the Mining Division, Region III, from March 27 to 29, 1951, accompanied by Mr. George W. Birnie, one of the owners of the property who acted as Mr. Bates representative.

No work is now being done on the property and Mr. Birnie is the only resident on the property.

LOCATION

The mining claims are located in the Viola Mining District, Mormon Range, in southeast Lincoln County, Nev., which are accessible by 42 miles of fair automobile road via the Meadow Wash route south of Caliente, Nev.

HISTORY AND PRODUCTION

According to Mr. George W. Birnie, one of the owners, the outcrops were first discovered by an Indian in the 1880's. It was worked by various individuals for the high grade silver ores encountered at and near the surface. This work was followed in later years by other mining promoters and eventually the Cherokee and Viola shafts were sunk on the Cherokee vein.

No records of production and values for ore produced are available. Mr. Bates, in his letter of application, estimates the production to have been between 800 to 1,000 tons. From the size of the stopes, it is doubtful if the production exceeded 500 tons. On page 128 in a bulletin entitled, "Mining Districts and Mineral Resources of Nevada",

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1/ Gentry, Glenn G.

by Francis Church Lincoln, one item states: "A small shipment of copper-silver ore was made from the Viola property in 1917". Mr. Bates made a shipment of 14,080 pounds of ore in March 1951 to the Kennecott Copper Corporation at McGill, Nev., which assayed 23.76 oz. Ag. and 4.85 percent Cu. per ton having a gross value of $229.05. After treatment charges and other deductions, the net smelter value amounted to $135.67. This shipment of sorted ore was produced from a small stope on the 134 foot south level of the Cherokee shaft.

PROPERTY AND OWNERSHIP

The mining claims are divided into two different ownerships, as follows;

Patented claims: Viola; Viola No. 1; Columbia; Shamrock; and Millsite claim.

This group of claims are owned by:

Mr. and Mrs. Bradley R. Stuart of Moapa, Nev.

Mr. and Mrs. Joe R. Paxton of Hurricane, Utah.

George W. Birnie of Carp, Nev.

Mr. Irven B. Bates of Carp, Nev., the loan applicant, holds a ten year lease on the above group of claims together with an option to purchase same at a cost of $75,000. The lease was granted on November 6, 1950.

Lode claims held by location: Viola Extension; East Shamrock; West Shamrock; Shamrock Extension; Tunnel Site; Sandy B; Judy B; Zoe B; East Columbia; West Columbia; George B;

Alexander B; East Viola; West Viola; Eureka; and The Portal.

The above mining claims are held by Alexander Birnie of 5903 Arroya Street, Los Angeles, Calif., who has granted a bond and lease to Mr. Irven B. Bates on November 9, 1950 in the amount of $25,000. The details of both leases are fully explained in copies attached to the loan application.

Titles to the above claims and inspection of the Lincoln County, Nev., records were not investigated.

ROADS

From the main Meadow Wash road to the mine camp, the distance is 7.5 miles over a very good desert road. The grades are easy and the load haul would be down hill from the mine. The shipping point at Carp, Nev., a station on the Union Pacific Railroad, is 14 miles southwest.

There would be no difficulty in maintaining good desert roads in the mine area. However, cloudbursts have occurred during the summer months, between Caliente, Nev. and Glendale, Nev., which have completely washed out large sections of both the highway and railroad tracks. This condition may of course be expected to continue and when occurring, would result in delayed transportation between the mine and the usual sources of supply.

Heavy equipment would probably be more economically handled by railroad freight to the Carp station, thence by truck to the mine.

POWER

Power for the small mine hoist at the Cherokee shaft is supplied by a gasoline engine. Future power, if in any sizeable amount, would require either a Diesel plant or the construction of an eleven mile electric transmission line.

WATER

Practically no water is available at the mine and the necessary quantity for the domestic supply is presently being hauled, via truck and tank, from the Union Pacific Railroad well at Carp, Nev.

It will be noted from the loan application, that Mr. Bates proposes to erect a 150- to 200-ton per day milling plant. This size plant would require about 126,000 gallons of water per 24 hours and this quantity could only be obtained from the Meadow Valley Wash which would entail the installation of the necessary pumping plant and 7-1/2 miles of adequate pipe line. The required lift would be approximately 500 feet. The present surface flow in Meadow Wash is approximately 200- to 300-gallons per minute.

LABOR

Experienced miners and millmen are not available in the local area and would have to be recruited from distant points, probably as far as Salt Lake City, Utah and Los Angeles, Calif. Because of the isolation of the mine, good accommodations will have to be provided in order to keep a crew.

GEOLOGY

The mining development has been done in a quartz ledge which on the northwest end of the claims is enclosed in limestone. This quartz

ledge varies on the surface in thickness from 10 feet to 40 feet. It has a general NW to SE strike with dips from 62° to 70° west. The ledge can be traced on the surface for a distance of about two miles.

While the ledge is termed a "fissure vein", the underground workings are confined within a "fracture in the quartz", to a crushed zone with no true footwall or hanging wall exposures being exposed.

The quartz is light gray in color, is highly silicified, hard and glassy, and the many water courses noted underground contain rather large crystals of secondary quartz. On the south side of the Cherokee shaft, calcite appears to become more abundant.

The vein material, chiefly quartz, contains copper carbonates and sulphides which occurs as thin films on fractured planes. The average width of the high grade portion of the vein will vary from 3 to 12 inches, and the mineralized widths from 16 to 30 inches. On the north side of the Cherokee shaft and about 170 feet down from the collar, a small seam of lead sulphide ore, 3 inches in width, was noted in about the center of the vein. This small seam of Galena can be traced for an inclined distance of approximately 20 feet with widths varying from about 1/2 inch to 2 inches. Some spotty lead sulphides were noted in a small raise above the bottom level on the north side of the Cherokee shaft.

The vein, from top to the bottom of the Cherokee shaft and the Viola shaft, appears to be frozen to the quartz, and the formation becoming tighter in the bottom levels.

On the north side of the Cherokee shaft, a large cross fracture zone , from 10 to 15 feet in width, crosses the structure at nearly

right angle to the strike of the vein. This cross fracture zone is highly crushed, shows some mineralization in the faces, and extends from the 108 foot level to the 134 foot level. The two lower levels of the shaft have not been driven far enough north to contact the cross fractured zone.

On the 134 foot level and south of the Cherokee shaft, a similar cross fracture is noted. The width of this fractured zone is about 50 feet, and the general dip is approximately 65° to the south. The horizontal distance between the two fracture zones will average about 100 feet.

Future development work or prospecting should be considered in these cross fracture zones as the quartz has been sufficiently crushed and broken to permit large scale mineralization.

Cherokee Shaft Area: The Cherokee shaft, 6- by 8-feet in size, has been sunk to a depth of 200 feet. The shaft has not been divided but it is large enough to provide skip and ladderway compartments. From this shaft, six short levels have been driven north. These openings approximate 210 feet. From the south side of the shaft, two levels have been driven for a total footage of 202 feet. The stopes are small and probably 90 percent of the production from the mine came from sinking the shaft.

Viola shaft: The Viola shaft is approximately 168 feet deep and the size and width is the same as the Cherokee shaft, however, only a small production was obtained from the three levels that were driven. On the north side of the shaft, three levels have been turned having a total length of 83 feet. On the south side of the shaft, two levels

have been driven which total 30 feet in length.

Physical Condition

Cherokee shaft: In the 134 foot south level, track has been laid for a distance of 130 feet and an ore car has been provided. One small ore chute has been constructed with the idea of continuing mining in the small stope above the level. However, no ore pocket has been provided in the shaft to transfer ore to the skip.

It will be necessary to remove muck and clean out all levels before active mining operations could be resumed. Loose and blocky ground would have to be timbered. It will also be necessary to install ladders through the safety exit from the 134 foot level to the surface.

Viola shaft: No work has been done in this shaft and the various levels for a number of years. A collar set and a headframe will have to be installed and the mine workings rehabilitated prior to actual mining operations. There is no safety exit from the mine.

ORE ESTIMATES

No measured ore is presently exposed on the property.

SAMPLING

A total of 13 samples were taken from the property. Two samples were grab samples and all other samples were channel cut samples taken across the vein.

CONCLUSIONS

The Cherokee mine is still a prospect and sufficient ore has not been developed to warrant a lean under the Defense Minerals Administration.

Analyses

Cherokee Shaft:

Sample No.	Percent Cu	Percent Pb	Ounces Au	Ounces Ag	Description
BM-1	3.13	0.4	Trace	15.60	Grab sample of small pile of high-grade ore at collar of shaft. (The pile contains about 1 ton and has been sorted).
BM-3	0.62	0.1*	"	5.30	24" vein - 50 foot level - face of drift.
BM-4	0.48	0.1*	"	6.50	20" vein - 75 foot level - face of drift.
BM-5	1.49	0.6	"	10.30	20" vein - 110 foot level - face of south drift.
BM-6	5.00	3.7	"	22.50	27" vein - 134 foot level - south side of shaft 110 feet from shaft and 30 feet up in stope mostly in calcite.
BM-7	0.30	0.1	"	1.35	57" vein - north drift at bottom of shaft. Some lead in sight. No walls exposed.
BM-8	1.90	21.9	"	11.20	14" vein on north side of shaft 20 feet up from bottom of shaft. Shows small lens of lead ore.
BM-9	0.13	0.1	"	0.90	77" sample on north wall of x-cut south side of shaft of 110 foot level.
BM-10	1.46	1.6	"	5.25	30" sample - north drift on 134 foot level - 20 foot up in raise - across face of raise.

Viola Shaft:

BM-2	0.59	0.1	"	2.40	Grab sample from sides of Viola dump of about 900 tons.
BM-11	1.48	0.1*	"	13.0	18" vein - 8 feet from shaft on 1st level and north of shaft. Reputed that old timers mined good ore here.
BM-12	1.50	0.1*	"	9.75	20" vein - 100 foot level - north drift off shaft - south end of underhand stope and 4 feet below level.
BM-13	1.18	0.1*	"	4.10	16" of qtz and vein - north side of shaft wall of bottom level.
Average	1.48	2.18		8.32	

*Less than

Only a small tonnage of ore has been produced from old workings. Development work indicates that downward continuation of the mineralization cannot be expected.

RECOMMENDATIONS

A large cross fracture zone, from 10 to 15 feet in width, crosses the structure normal to the strike of the vein on the north side of the Cherokee shaft. This cross fracture zone is highly crushed, shows some mineralization in the faces, and extends from the 108 foot level to the 134 foot level. The two lower levels of the shaft have not been driven far enough in a northerly direction to contact the cross fractured zone.

On the 134 foot level and south of the Cherokee shaft, a similar cross fracture is noted. The width of the fractured zone is about 50 feet and the general dip is approximately 65° south. The horizontal distance between the two fracture zones approximates 100 feet.

Future development work or prospecting should be confined to the cross fracture zones as the quartz has been sufficiently crushed and broken to permit extensive mineralization.

Reserve tonnages of ore are not sufficient to justify the lean. There is no justification for a 150 to 200 ton milling plant.

EXHIBITS

Figure 1 Location map

" 2 Vertical projection of Cherokee Shaft

" 3 Plan of underground levels, Cherokee Shaft

" 4 Vertical projection of Viola Shaft

" 5 Claim map, Cherokee Copper Co.

" 6 Photographs

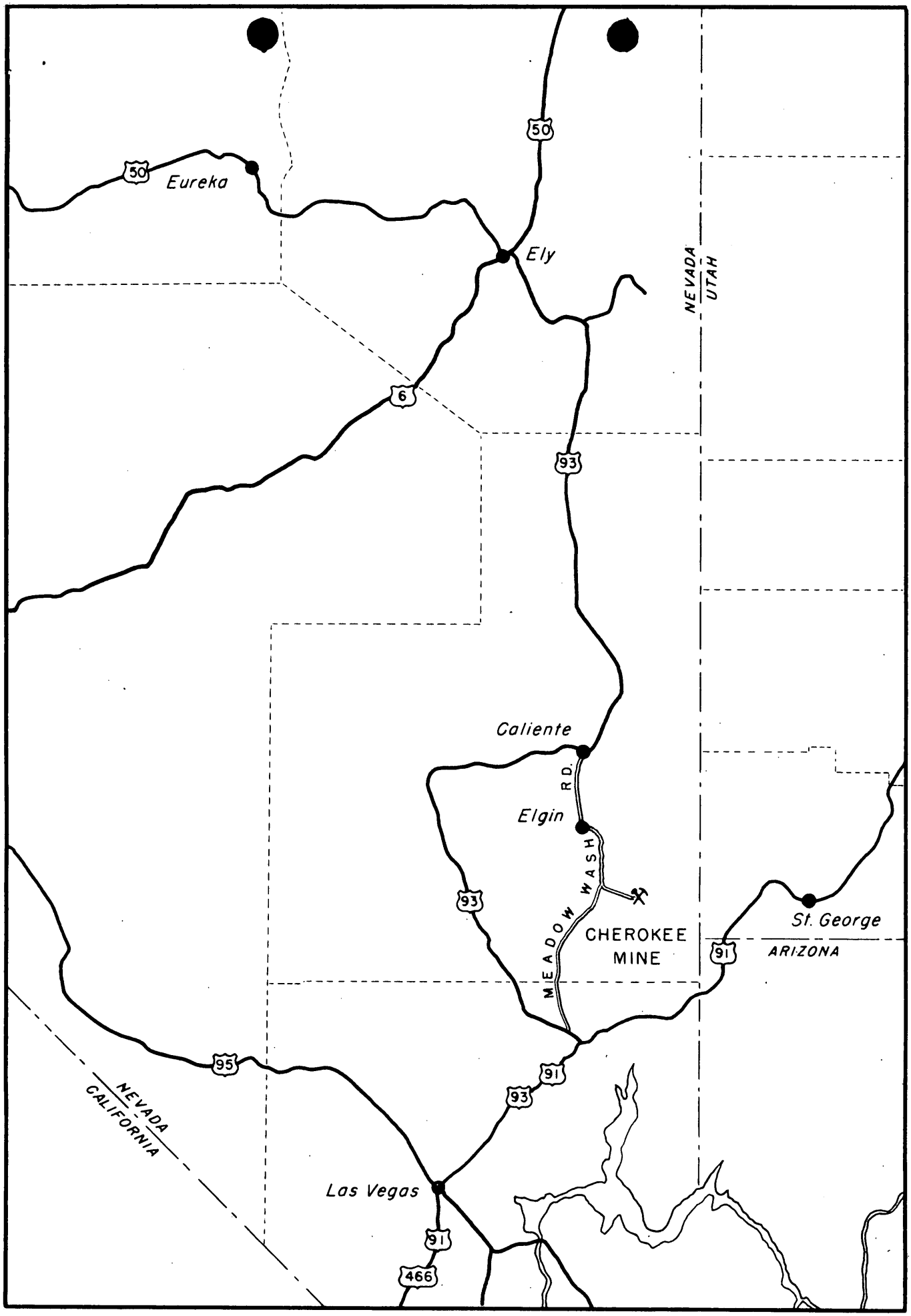


Figure 1 - Location map, Cherokee Mine, Lincoln County, Nevada

P. O. Box 1561
Reno, Nevada

April 17, 1951

Mr. Irvin B. Bates
1907 W. 6th Street
Los Angeles 5, California

Dear Mr. Bates:

This will acknowledge your letter of April 12, relative to the examination that was made by Mr. Gentry on your property near Carp, Nev.

The report is being completed by Mr. Gentry and will soon be forwarded to the Washington office. The Washington office will notify you on what action has been taken on your loan.

Very truly yours,

A. C. Johnson, Chief
Mining Division
Region III

COPPER ★ SILVER ★ LEAD

Cherokee Copper Company

CARP, NEVADA

U. S. Bureau of Mines
Box 1551
Reno, Nev.

attn Mr A. C. Johnson Chief.
Mr Glen Fenty

April 12, 1951

Gentlemen :—

This letter will serve to confirm my telephone conversation with Mr Fenty on April 6, 1951 a.m.

I had talked to Mr Miller in San Francisco the previous day at which time he told me of the order to examine the "Cherokee" Needless to say I was more than pleased at the promptness with which your office acted on said order.

I sincerely regret having missed you at the mine if for no other reason than that I might have been able to help with the hard work and also to have hosted your stay a little better.

In any event I am of course very anxious to learn the final results of

Cherokee Copper Company

CARP, NEVADA

2.

the examination and at least weather you will be able to recommend the development work I have in mind from the doing of which we hope to prove the "Cherokee" is in truth a mine or not.

Do whatever you are able to do to keep me advised and believe me if I can be of any assistance by answering questions or in any other way give me a chance.

Sincerely

[illegible] owner lessee

I shall be here in Los Angeles for about 2 more weeks at 1907 W 6th st. Los Angeles 5, Cal. Telephone Dunkirk 4-1161

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
RARE AND PRECIOUS METALS EXPERIMENT STATION
METALLURGICAL DIVISION Hydrometallurgical and Ore-Dressing Branch RENO, NEVADA
Box D, University Station
Region III

April 6, 1951

Mr. Glenn G. Gentry
Bureau of Mines
P. O. Box 1551
Reno, Nevada

Project No. Gentry
Docket DMA-285

Samples from Cherokee Copper Property
Carp, Nevada

Sample No.	%,Cu	%,Pb	Oz Au/T	Oz Ag/T
B.M. 1	3.13	0.4	Trace	15.60
B.M. 2	0.59	0.1	Trace	2.40
3	0.62	*0.1	Trace	5.30
4	0.48	0.1	Trace	6.50
5	1.49	0.6	Trace	10.30
6	5.00	3.7	Trace	22.50
7	0.30	0.1	Trace	1.35
8	1.90	21.9	Trace	11.20
9	0.13	*0.1	Trace	0.90
10	1.46	1.6	Trace	5.25
11	1.48	*0.1	Trace	13.00
12	1.50	*0.1	Trace	9.75
13	1.18	*0.1	Trace	4.10

J. B. Zadra
Supervising Engineer

cc: A. C. Johnson

Date: April 2, 1951

Name and location of property: Cherokee Copper Co., Carp, Nev.

Sample identification number: BM-1 to BM-13 inc.

Number of samples in shipment (estimated if necessary): 13

Nature of ore: Copper sulphides and carbonate, some galena.

Analysis or assay required: Cu, Ag, Pb.

Other tests desired: None

Authorized by _____
Chief of Mining Division

Authorized by _____
Chief of Metallurgical Division

Name and address of Mining Engineer

Glenn G. Gentry.
P. O. Box 1551
Reno, Nevada

7253

Cherokee Copper Co.

Mine Samples taken on March 27, 28 and 29th.,1951

By: Glenn G.Gentry , US Bureau of Mines

Sample No.:

BM-1---Grab sample of High grad e Dump at Cherokee Shaft
Assay for: Cu-- Ag

BM-2---Grab sample from Viola dump
Assay for Cu--Ag

BM-3--Cherokee shaft--50 ft.level--24 inch vein - Face of drift
Assay for Cu--Ag

BM-4--Cherokee shaft-- 75 ft.level-20 inch vein- Face of drift
Assay for Cu--Ag

BM-5--Cherokee shaft-110 ft.level- 20 inch vein- Face of south drift
Assay for Cu-Ag

BM-6--Cherokee shaft-134 ft.level-South of shaft,110 ft.from shaft-
30 ft.up in stope-27 inch vein,mostly in calcite
Assay for Cu-Ag

BM-7--Cherokee shaft- Bottom of shaft- North drift- 57 inch vein-
Some lead in sight- No walls exposed
Assay for Cu-Ag-Pb

~~BM8--Cherokee shaft-North side- 20 ft.up from bottom~~
~~14 inch vein- Assay for Cu-Ag- Pb~~

~~BM-9-- Cherokee shaft- 110 ft.level- X-cut on south side of shaft-~~
~~77 inch sample on north wall of X-cut~~
~~Assay for Cu-Ag~~

BM-10-- Cherokee shaft- North drift on 134 ft.level
~~20 ft.up in raise- 30 inch vein in facee of raise~~

BM-11-~~XXXXXXXXXXXX~~
Viola shaft - 18 inch vein- 1st.level- North side of shaft
8 ft.from shaft - (old timers mined good ore from here)
Assay for Cu-Ag

BM-12--Viola shaft-100 ft.level-North drift off shaft
20 inch vein at south end of underhand stope
Assay for Cu-Ag

BM-13-- Viola shaft-Bottom level taken at North side of shaft
16 inches of Qtz. and vein
Assay for Cu-Ag

REGIONAL DIRECTOR

UNITED STATES
DEPARTMENT OF THE INTERIOR

BUREAU OF MINES
1415 U. S. APPRAISERS BLDG.,
630 SANSOME STREET,
SAN FRANCISCO 11, CALIF.

March 22, 1951

Memorandum

To: A. C. Johnson - Reno, Nevada

From: Regional Director, Region III

Subject: Cherokee Copper Company, Irven B. Bates, Carp, Nevada--DMA-285

Subject loan application is attached for your action. Region III DMA Field Team discussed the action to be taken regarding this request and concluded that an engineer's report was all that was needed. However, if the examining engineer thinks that a geological examination is necessary, you should let me know and Ward Smith will arrange to send a geologist to the property.

The complete Cherokee Copper Company application is attached, together with our file of correspondence with Senator McCarran. Kindly return the complete file with your engineer's report.

H. C. Miller
Regional Director, Region III

Attachment (File)

Copy to: Ward Smith, Geological Survey

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

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED
MAR 22 1951
SAN FRANCISCO, CALIFORNIA

March 16, 1951

Air Mail

Refer to	Noted	Date
	NEW	3/22
A E Johnson		
Answered		

Memorandum

To: Executive Officer, DMA Field Team, Region III,
1415 U. S. Appraisers Building
San Francisco 11, California

From: Director, Supply Division

Subject: Cherokee Copper Company, Irven B. Bates, Carp, Nevada
(DMA-285)

You have received copies of actions regarding this application and of correspondence with Senator McCarran about it. I had a telephone call from Mr. Bates March 12th or 13th urgently requesting that we have a field man visit the property.

We are not disposed as yet to reopen the case formally but believe that in view of Mr. Bate's apparent sincerity and present efforts to produce, some indication of interest on our part is justified. No Bureau of Mines or Geological Survey man has seen the property, so far as is known here. Could you have one of your staff visit the mine to see what he is doing and to report back to you and to us?

A copy of the Cherokee Copper Company application is enclosed. Kindly return it when it has served your purpose.

Tom Lyon

Tom Lyon
Director
Supply Division

Enclosure

Approved:

Tom Lyon
Acting Chairman

Lowell B. Moon
for Bureau of Mines

T. P. Thayer
for Geological Survey

Copy to: Coordinating Committee
Copper Commodity Committee
Files

Refer to	Noted	Date
	Well	3/19
Answered		

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED
MAR 12 1951
SAN FRANCISCO, CALIFORNIA

March 6, 1951

Hon. Pat McCarran
United States Senate
Washington 25, D. C.

My dear Senator McCarran:

This is in reply to your letter of February 22, 1951, concerning the loan application of Mr. Irvin W. Bates of Carp, Nevada, owner of the Cherokee Copper Company.

The application was for a loan of $250,000 starting with $25,000 to expand current production, the balance to be made available in two stages to explore the property for reserves and to build a mill.

Mr. Bates stated that no extensive sampling of the ore showings had been done. He did not present mine maps or any sample maps to support an ore reserve estimate, and made no ore reserve estimate as justification for the loan. The only recorded production of the mine was a seven ton shipment of 5 percent ore containing 2½ oz of silver to the ton, made last March. This shipment returned about $6.45 a ton after paying trucking costs and royalties. Even if this grade of ore could be maintained, the net returns would be insufficient to repay the loan and leave any profit in the proposed small-scale operation.

Mr. Bates evidently has had no prior mining experience, as his only stated experience was given as the operator of a large heavy cleaning company.

After considering all the information submitted by Mr. Bates it was our opinion that a field examination of the project was not justified and the application was denied. We were informed by Mr. Bates subsequently, but before he had received the letter of denial, that he expected to ship his first car of ore about the end of February and that he would advise us as to the results. We acknowledged this letter and expressed interest in the returns. If they are satisfactory to Mr. Bates he may, of course, take steps to reopen the application.

999.522.1

We have not sufficient staff to assist all interested parties in preparing applications for loans and other forms of assistance under the Defense Production Act. It would, in fact, seem improper to do so to any great extent as this is the field of private consultants. I assure you, however, that we are most sympathetic toward the production efforts of small operators and wherever the chances of production seem good, however small the output may be, we are requesting that field studies be made. On the other hand, it would be wrong to encourage loans for copper projects that appear almost certain to be unprofitable and not reasonably likely to clear off the indebtedness. We have felt it necessary at this time to deny applications for copper projects, both large and small, that require premium prices or substantial subsidies in any form.

With kindest personal regards,

Sincerely,

JAMES BOYD

Administrator

CHJohnson:pf

Copy to: Executive Officer, DMA Field Team, Region III,
1415 U. S. Appraisers Building, San Francisco 11, Cal.
Executive Secretary
Copper Commodity Committee
Files

Refer to	Noted	Date
	WCU	3/5
Answered		

DEPARTMENT OF COMMERCE
RECEIVED
MAR 5 1951
SAN FRANCISCO, CALIFORNIA

February 28, 1951

Re: Docket No. DMA-285

Mr. Irven B. Bates
Cherokee Copper Company
Carp, Nevada

Dear Mr. Bates:

This acknowledges your letter of recent date, which was received here February 17, informing us of progress in your operation at the Cherokee mine and transmitting assay reports on samples. You state that you expect to ship a car of ore presently, and will inform us of the results. We shall be interested in having such information, and hope that you will realize a satisfactory return.

Very truly yours,

/s/ Tom Lyon
Tom Lyon, Chief
Copper Branch

CHJohnson:pf

Copy to: Executive Officer, DMA Field Team, Region III,
1415 U. S. Appraisers Building, San Francisco 11, Cal. w.c.i.
Executive Secretary w.c.i.
Copper Commodity Committee w.c.i.
Files

999.530.02

CHEROKEE COPPER CO.
CARP, NEVADA

MAR 5 1951
SAN FRANCISCO, CALIFORNIA

United States Department of the Interior
Defense Minerals Administration
Washington 25, D. C.

Re: DMA-285

Mr. Tom Lyon Chief
Copper Branch

Dear Sirs:-

Since answering yours of the 12th January I have learned that you were to relieve Mr. J. K. Richardson.

Also since that date we have completed a lot of Burdonsome but necessary dead work and have about a week of work underground before we will actually be breaking ore.

The work we are doing is at 132' at a drift which was run for air and prospecting one hundred twenty feet in a southernly direction from the Shaft there is a nice plus 3' face of ore Honestly sampled and represented as #2 on the enclosed Assay and Spectro Sheets. { 0.01 oz Au, 23.79 oz Ag, 4.70 % Cu, 1.84 % Pb

Assay #1 is a face at the same level but approximately 75' North North West on the vein, from the shaft. This face is over a foot wide now. { 0.02 oz Au, 25.44 oz Ag, 1.90 % Cu, 0.32 % Pb

The #3 Assay occours commonly in the mine and an inspection under a good glass lead me to believe it contained values so I sampled it and of course it is not ore now but I believe is well worth future consideration, because it is plentifull and when mixed with better grades, should be well worth taking out for mill ore. { tr. Au, 2.5 Ag, 0.10 Cu, 1.08 Pb

To continue with the work underground. We have to scale the tunnel at the shaft because it was started on the footwall and it is impossible to dump muck into the skip as we found the situation. We have the ore chute built in the Shaft and are making an ore pocket which when finished in the next couple of days, will hold about 30 tons of ore. We are laying 120' ft. of track, Air Line, Water line, etc, Building a manway and ore chute with a small lagged in 16"x16" section in which to handle the ore at such times as it might thin out.

With any luck at all and lots of hard work, we will ship our first car at or near the end of this month.

At that time I will instruct the cognizant Smelter to forward you four copies of the return sheets. I will forward four samples about twenty pounds each to four Salt Lake Smelters this week, asking them for Schedules, and of course will ship to the one, offering the best contract. Looking forwar to an early reply and expression of your opinion.

I am,

Signed Irven B. Bates

COPY

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

DEPARTMENT OF INTERIOR
BUREAU OF MINES
RECEIVED
FEB 6 1951
SAN FRANCISCO, CALIFORNIA

January 24, 1951

Re: Docket No. DMA-285

Refer to	Noted	Date
	Wells	2-7
Answered		

Mr. Irven B. Bates
Cherokee Copper Company
Carp, Nevada

Dear Mr. Bates:

I regret to inform you that the Defense Minerals Administration cannot recommend approval of your application of a loan for $255,000 to develop ore and increase production at the Cherokee mine in Lincoln County, Nevada.

The application was reviewed in the Copper Branch, which has reported that it does not present satisfactory evidence of adequate ore reserves to justify the project.

Very truly yours,

S. H. Williston, Director
Supply Division

CHJohnson:ba

Copy to H. C. Miller, 1415 U. S. Appraisers Building,
San Francisco 11, California
Mr. Strobel
Copper Commodity Committee
F i l e s

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

DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
DISTRICT
RECEIVED
FEB 6 1951
SAN FRANCISCO, CALIFORNIA

January 24, 1951

Refer to	Noted	Date
Answered		

Memorandum

To: Executive Secretary

From: Chairman, Copper Commodity Committee

Through: Operating Committee

Subject: Cherokee Copper Co., Loan Application, DMA-285

The subject application has been reviewed, and denial is recommended.

Denial is recommended because applicant furnishes no information as to ore reserves such as would support his expressed opinion that there is sufficient ore to justify the project, and the mine has no production record.

Actually, the application is unsatisfactory for other reasons, as well:

(1) Applicant has no previous mining experience, so far as is told.

(2) No description or maps whatever of the mine or orebodies.

(3) Application includes a substantial amount of outright exploration work in project.

(4) No mining cost estimates are given, and no estimate of operating profit.

(5) Application includes $200,000 for a mill, contingent upon successful-completion of initial mining and development program, but offers no information whatever regarding the proposed mill.

(6) The one shipment made, of 7 tons of 4.9 percent copper ore to McGill, returned less than $9 a ton after trucking and royalties. This may not be indicative, but the applicant offers nothing better in the way of an estimate of net return.

On the proposed small scale of operation, $9 would not be enough.

(7) As to efforts to obtain private credit, applicant simply states that "banks will not make mining loans to small operators."

J. K. RICHARDSON
J. K. Richardson, Chairman
Copper Commodity Committee

CHJohnson:ba

For Approval:

C. O. MITTENDORF
S. K. Williston, Chairman
Operating Committee

J. H. Hedges, [illegible]

J. H. Hedges

O. K. Rove

Copy to: H. C. Miller, 1415 U. S. Appraisers Building
San Francisco 11, California
Copper Commodity Committee
F i l e s

OFFICE OF THE DIRECTOR

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

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED
DEC 13 1950
SAN FRANCISCO, CALIFORNIA

December 13, 1950

Refer to	Noted	Date
Answered		

Mr. Irvin Bates
Cherokee Mining Company
Cart, Nevada

Dear Mr. Bates:

Referring our telephone conversation regarding mining loans under the Defense Production Act:

I am attaching five copies of MSRB Form 146 and a copy of the regulations pertaining to this form. Four completed forms should be returned to James Boyd, Administrator, Defense Minerals Administration, Department of the Interior, Washington 25, D. C. You may retain one copy for your own file.

I am also attaching a copy of a press release dated December 5 which describes the type of assistance that can be given to mining enterprises. The last paragraph of this release outlines the type of information we need in addition to that given in the form.

Sincerely yours,

LOWELL B. MOON

Lowell B. Moon
Assistant to the Administrator
Defense Minerals Administration

Enclosures 7

Copy to: H. C. Miller, San Francisco, California

Looking south toward Cherokee Shaft.

Mine camp.

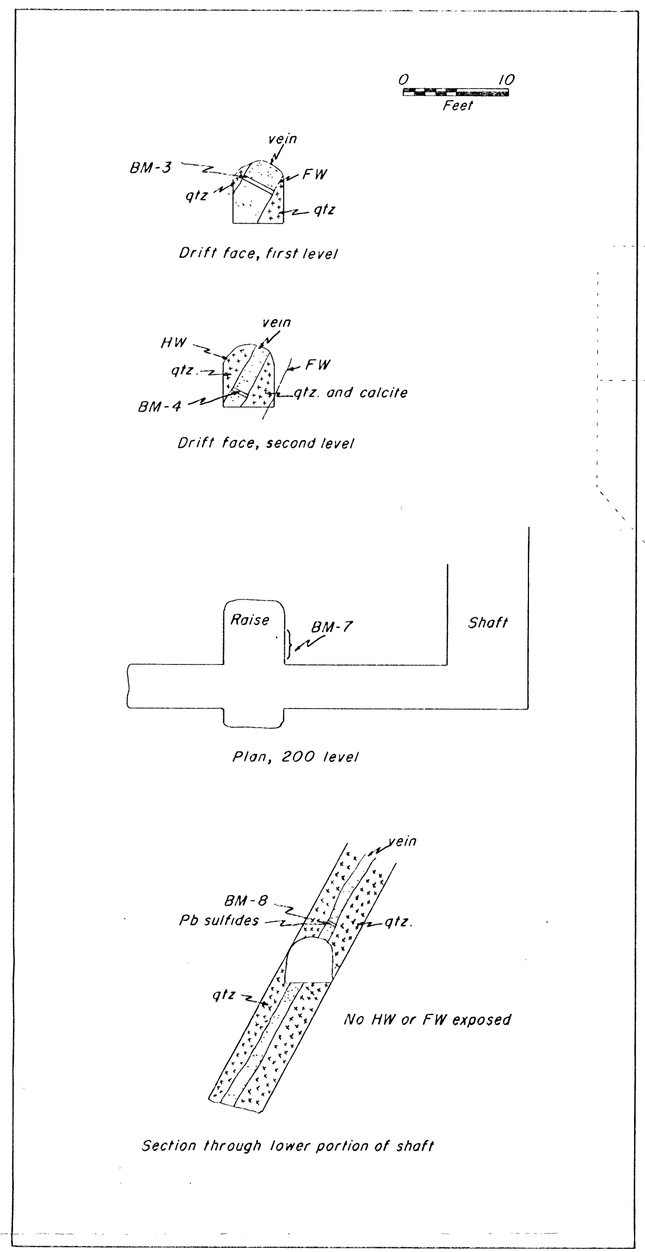
Mine camp mess hall
and living quarters.

George W. Birnie
outside the mine camp.

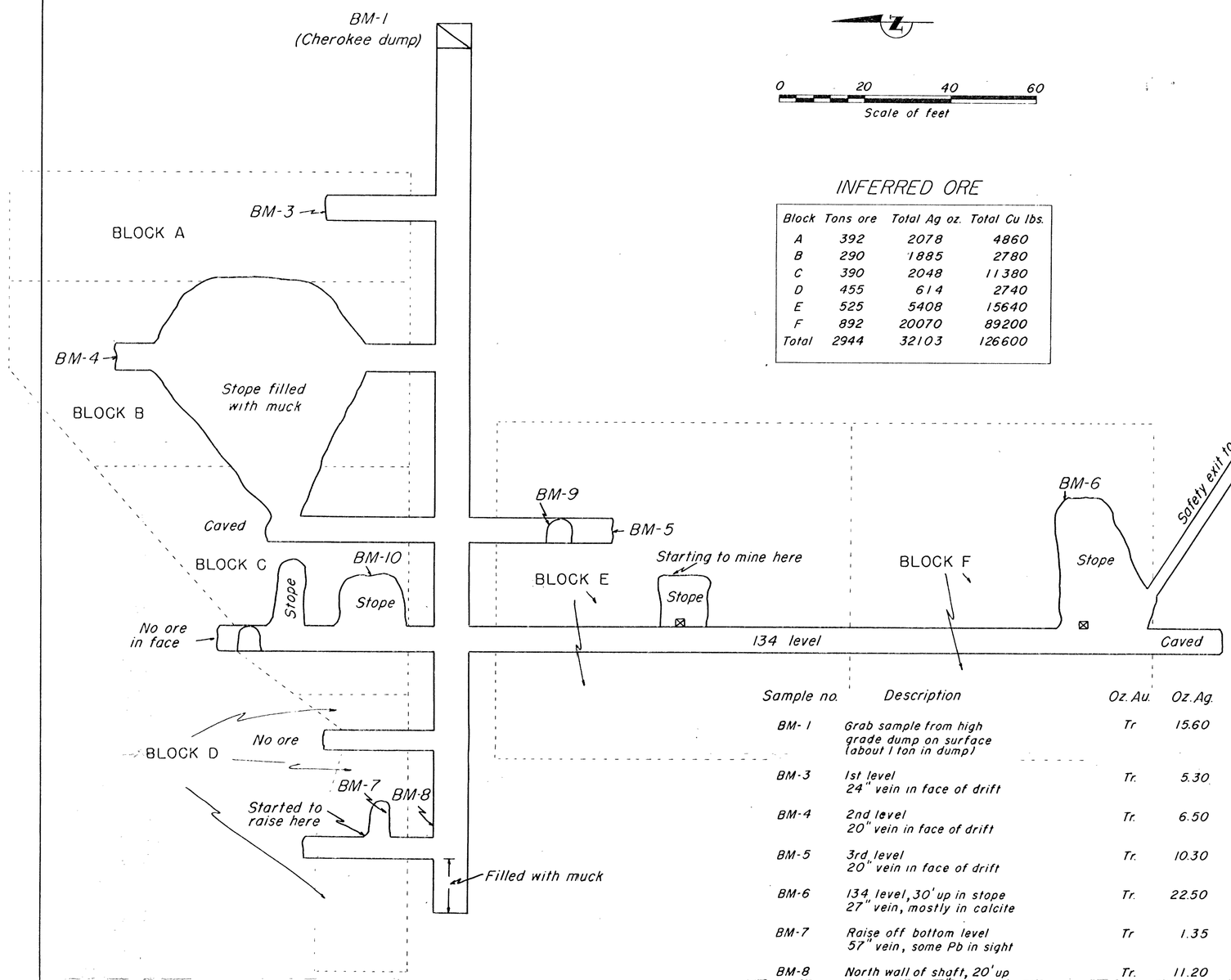
Collar of the Viola Shaft.

Headframe of the Cherokee Shaft
and George W. Birnie.

Headframe and Hoisthouse
Cherokee Shaft



Detail of sampling



Preliminary Brunton survey

INFERRED ORE

Block	Tons ore	Total Ag oz.	Total Cu lbs.
A	392	2078	4860
B	290	1885	2780
C	390	2048	11380
D	455	614	2740
E	525	5408	15640
F	892	20070	89200
Total	2944	32103	126600

Sample no.	Description	Oz. Au.	Oz. Ag.	% Cu.	% Pb
BM-1	Grab sample from high grade dump on surface (about 1 ton in dump)	Tr	15.60	3.13	0.4
BM-3	1st level 24" vein in face of drift	Tr.	5.30	0.62	*0.1
BM-4	2nd level 20" vein in face of drift	Tr.	6.50	0.48	0.1
BM-5	3rd level 20" vein in face of drift	Tr.	10.30	1.49	0.6
BM-6	134 level, 30' up in stope 27" vein, mostly in calcite	Tr.	22.50	5.00	3.7
BM-7	Raise off bottom level 57" vein, some Pb in sight	Tr	1.35	0.30	0.1
BM-8	North wall of shaft, 20' up from bottom 14" vein shows Pb	Tr.	11.20	1.90	21.9
BM-9	North wall of X-cut, 3rd level, south of shaft, taken across 77" qtz.	Tr.	0.90	0.13	*0.1
BM-10	4th level, north of shaft, 20' up in raise. 30" vein in face of raise.	Tr.	5.25	1.46	1.6

*Less than

Figure 2 - Vertical projection of Cherokee shaft, Cherokee Copper Company

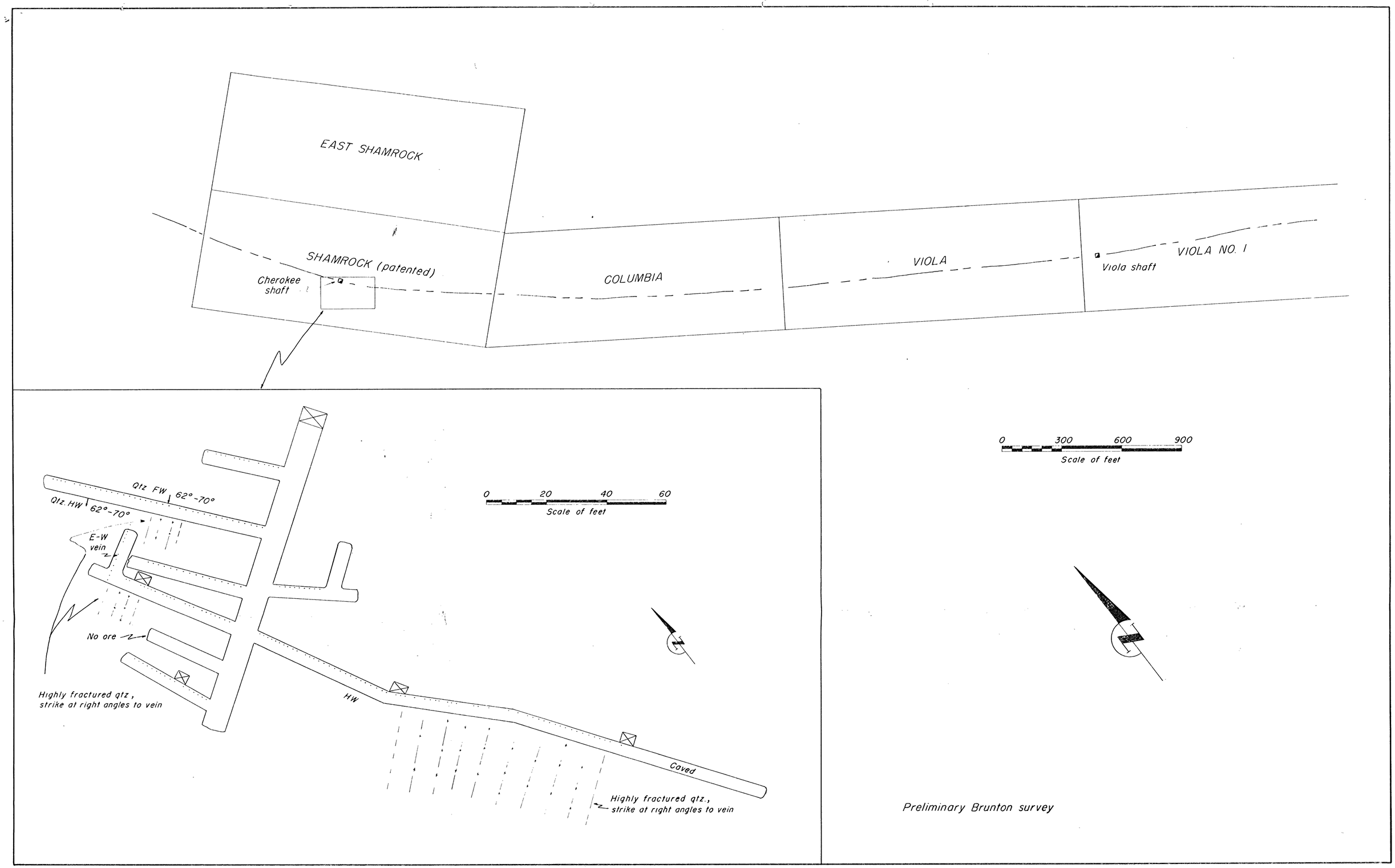
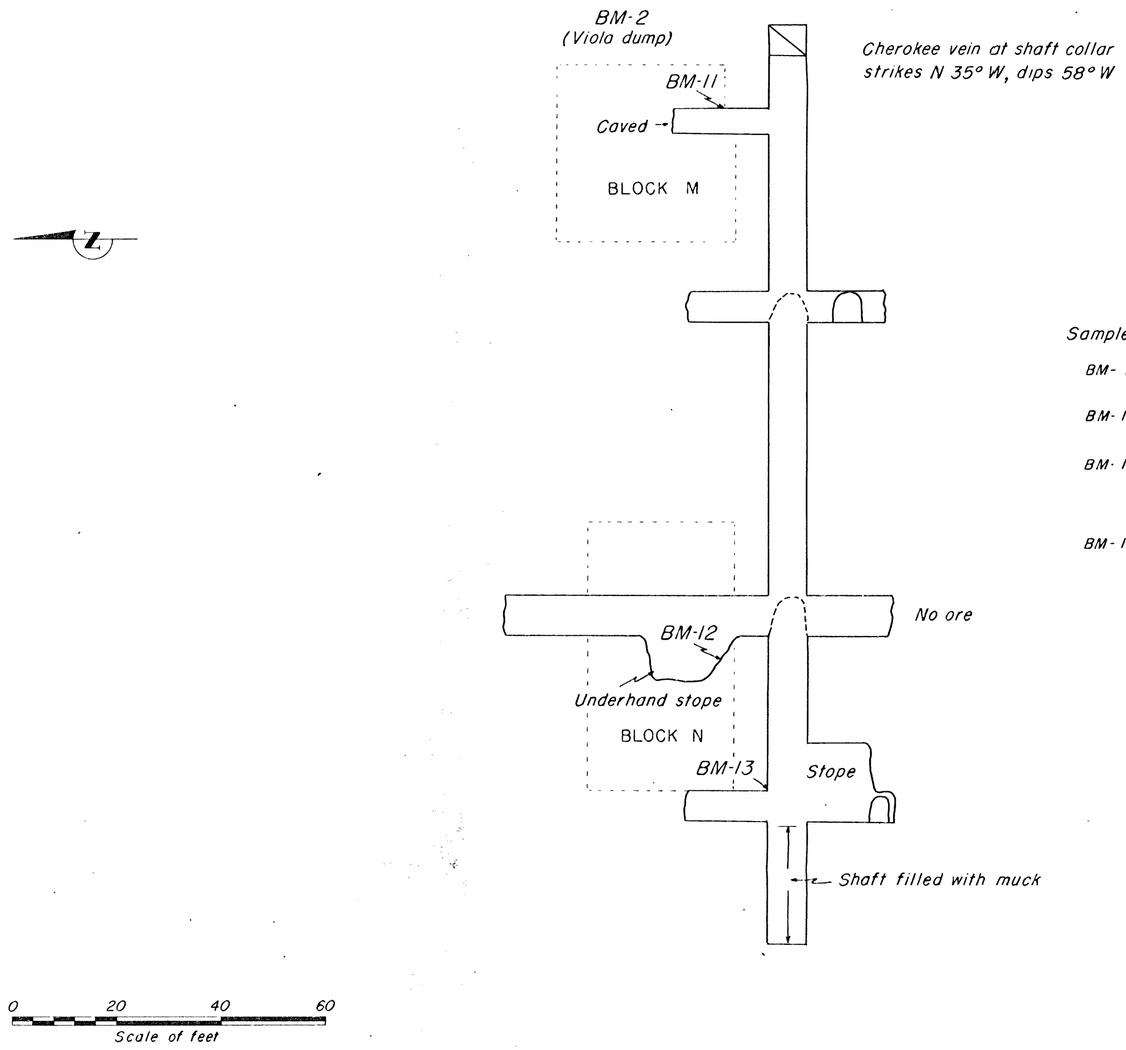


Figure 3-Plan map of underground levels, Cherokee shaft, Cherokee Copper Company



Sample no.	Description	Oz Au.	Oz. Ag.	% Cu	% Pb
BM- 2	Grab sample from Viola dump, about 500 tons in dump	Tr	2.40	0.59	0.1
BM- 11	1st level, north side of shaft, 18" vein 8' from shaft	Tr	13.00	1.48	*0.1
BM- 12	3rd level, north of shaft, 4' below level and at south end of underhand stope across 20" vein	Tr.	9.75	1.50	*0.1
BM- 13	North wall of shaft at bottom level across 16" qtz. and vein	Tr.	4.10	1.18	*0.1

* Less than

INFERRED ORE

Block	Tons ore	Total Ag oz.	Total Cu lbs.
M	138	1794	4080
N	157	1531	4720
Total	295	3325	8800

Preliminary Brunton survey

Figure 4 - Vertical projection of Viola shaft, Cherokee Copper Company