DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 1781 X

DO NOT DETACH THIS SLIP

Action on this document is recorded and controlled in Reports and Records Branch. Any movement of this document between divisions or offices of DMA or movement outside DMA must be reported to the Reports and Records Branch. Actions taken that affect status of the case must also be reported.

This document has been recorded as

EXPLORATION

Any action taken to change the type of request for assistance must be promptly reported to the Reports and Records Branch. Use DMA Form 2 for submitting these reports.

Routing Slip

To:	Copper Branch	Date	7-3-52
To:	Mails + Files	Date	3-18-52
To:	Chas Johnson Rm. 3621	Date	8-24-52
To:	~~Hal Helen~~ 4216 G.S.	Date	
To:		Date	
To:	Mails + Files	Date	6-10-52
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	

DO NOT DETACH

CONTROLLED DOCUMENT

IN REPLY REFER TO:

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

June 26, 1952

Memorandum

To: Mr. E. Wm. Ellis

From: N. E. Nelson

Subject: DMA-1781X. Copper Glance Prospect, Pima County, Arizona.

Probably the conclusions of the field team are correct.

However, the descriptive matter and the shaft section do not agree well and I am curious as to where the 6 feet of 3.26% Cu and 1.55 oz. Ag might go. The shaft would seem to be off that particular streak and the crosscut and drift at the 160 level might not be far enough east and north to pick it up. If the sketch map is correct they did not keep the vein in the shaft and may not have looked for the ore in the right place at the bottom level.

N. E. Nelson

N. E. Nelson
Geologist

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

June 26, 1952

Memorandum

To: Mr. E. Wm. Ellis

From: W. E. Nelson

Subject: DMA-1781X. Copper Glance Prospect, Pima County, Arizona.

Probably the conclusions of the field team are correct.

However, the descriptive matter and the shaft section do not agree well and I am curious as to where the 6 feet of 3.26% Cu and 1.55 oz. Ag might go. The shaft would seem to be off that particular streak and the crosscut and drift at the 160 level might not be far enough east and north to pick it up. If the sketch map is correct they did not keep the vein in the shaft and may not have looked for the ore in the right place at the bottom level.

W. E. Nelson

W. E. Nelson
Geologist

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

June 24, 1952

Memorandum

To: E. W. Ellis, DMEA

From: C. H. Johnson

Subject: DMEA-1781X, Copper Glance Prospect, (Copper) George A. Sligh, Pima County, Arizona

I have reviewed the Field Team report (by Kumke and Bromfield) dated May, 1952, on this prospect. It recommends denial of the application because the showing is too poor and the chances of finding better too small to justify Government assistance. The report is concurred in by the supervising engineer and by the members of the Field Team. I am of the opinion that an adequate examination was made and that the evidence supports the negative conclusion.

C. H. Johnson

C. H. Johnson

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 25 1952

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

224 New Customhouse
Denver 2, Colorado

May 28, 1952

Memorandum

To: Acting Administrator, Defense Minerals Exploration Administration
Attention: Code 210

From: Field Team, Region IV

Subject: Final Report, DMA Docket 1781X, (Copper) George N. Sligh, Jr., Copper Glance Prospect, Pima County, Arizona

Enclosed are the original and three copies of the final report on the Copper Glance Prospect, the original and one copy of Form 3b and a copy of the letter of denial to the applicant.

W. H. King
W. H. King

A. H. Koschmann
A. H. Koschmann

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 2 1952

COPY

224 New Customhouse
Denver 2, Colorado

May 28, 1952

Mr. George A. Sligh, Jr.
1050 North Country Club Road
Tucson, Arizona

Dear Mr. Sligh:

Reference is made to your application for Government aid in exploration work on the Copper Glance prospect.

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

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

Very truly yours,

/s/ W. H. King
Field Team, Region IV

/s/ A. H. Koschmann
Field Team, Region IV

cc: Acting Administrator, DMEA

Mining Division
Region IV

May 28, 1952

Memorandum

To: Field Team, Region IV

From: Acting Chief, Mining Division, Region IV

Subject: Final Report, DM Docket 17811, (Copper) George A. Sligh, Jr., Copper Glance Prospect, Pima County, Arizona

Enclosed are nine copies of the engineering report on the Copper Glance prospect.

A very small amount of copper mineralization was noted by the field examiners and they believe the possibilities of finding substantial amounts of copper ore are remote.

We concur with the recommendation of the field examiners that the application for exploration aid be denied.

W. H. King

W. H. King

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 2 1952

Reviewed by
DMEA OPERATING COMMITTEE
6-9-52
(date)

Mining Division
Date Rec'd.

MAY 15 1952

BUREAU OF MINES
Denver, Colorado

May 13, 1952

Memorandum

To : W. H. King, Denver, Colorado

From : Chief, Arizona-New Mexico Branch

Subject : Final Report, MM Docket 17814, Copper Chance Copper-Silver Group, Papago Mining District, Pima County, Ariz.

Enclosed are original and 2 copies of the section on Summary, Conclusions and Recommendations by C. A. Anderson of the Bureau of Mines and G. W. Brassfield of the Geological Survey, and the section on Engineering by Burke for the above report. A separate section on geology will be submitted by the Geological Survey.

As only a very small amount of copper mineralization can be noted on this property and as the possibilities of finding substantial amounts of copper ore seem remote, the examiners recommend that the application for an exploration loan be denied. I concur with their recommendations.

Brochure is enclosed.

Walter R. Storms

Walter R. Storms

CC: W. H. King (3)
C. A. Anderson
MM-17814
WRS

WRStorms:ale

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

Box 4[illegible] Customhouse
Denver 2, Colorado

May 22, 1952

Memorandum

To: DMA Field Team, Region IV

From: A. N. Koschmann

Subject: DMA Docket 17817, Copper Queen Mine (T. A. Pugh, Jr.), Pima County, Arizona (Copper)

Enclosed are the original and 8 copies of the above geologic report by J. S. Brownfield of the U. S. Geological Survey.

It has been recommended that the loan be denied.

A. N. Koschmann
A. N. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (9)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

P.O. Box 1126, University Station
Tucson, Arizona

Mar 20, 1952

Memorandum

To: A. H. Koschmann, Denver, Colorado

From: A. F. Shride, Tucson, Arizona

Subject: Geologic Report, LM 1781X, Copper Glance Mine (G. A. Bligh Jr.), Pima County, Arizona (copper)

Enclosed are the original and 8 copies of the above report by L. [illegible] Warfield of the Geological Survey.

This report and the recommendation that an exploration loan be denied have my approval. The material at present in sight is not of mineable grade and exploration is not likely to expose material of mineable grade.

A. F. Shride
Acting District Supervisor
Arizona-New Mexico

Enclosures 9

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

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT ON EVALUATION BY FIELD TEAM
REGION IV

DMEA-72IK, Copper Glance Copper-Silver Group

Pantano Mining District

Pima County, Arizona

Chas. A. Hunks, Mining Engineer
U. S. Bureau of Mines

C. S. Bromfield, Geologist
U. S. Geological Survey

May 1952

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

By Chas. A. Kuehn[1] and C. S. Brenfield[2]

It was requested in April 1952 by the Operating Committee, Defense Minerals Exploration Administration that the Field Team, Region IV, have the Copper Glance prospect examined in Pima County, Ariz. Applicant George A. Sligh, Jr. of Tucson, Ariz. was asking for assistance in exploring his property, a copper prospect 35 miles southwest of Tucson.

Sligh proposed to deepen the single compartment, inclined shaft from its present depth of 160 feet to 210 feet, then crosscut to the west for 15 feet to cut the vein, and do approximately 100 feet of drifting on the vein.

On April 25, 1952 a Bureau of Mines engineer and a geologist from the Geological Survey visited the property. It consists of a group of 12 full claims, 3 claims in length and 4 claims in width.

The deposit occurs as a quartz vein of varying thickness in a steeply dipping schist. The vein strikes N. 10° W. and is parallel to the schist in which it occurs. Quartz is exposed in several outcrops for a length of 500 feet. The vein, varying in thickness from 6 inches to 6 feet, has been explored by several shallow prospect pits and a 160-foot inclined single-compartment shaft with short crosscuts to the vein at 100 and 160 feet (Figs. 2 & 3). Copper occurs as

---

1/ Mining Engineer, U. S. Bureau of Mines
2/ Geologist, U. S. Geological Survey

chrysocolla on fracture surfaces in the quartz with a very small amount of chalcocite scattered in the green stained quartz. The copper mineralization is weak and spotty. Nowhere on surface nor underground is there any material that could be classed as minable ore under present conditions.

There is no reason to expect a decided improvement with additional depth, either in the strength of the vein or in the grade of the ore.

It is recommended that the application be denied.

COPPER GLANCE MINE
PIMA COUNTY, ARIZONA
IMA 1761X

COPPER

Geology

By
Calvin S. Bromfield
Geologist, U. S. Geological Survey

COPPER GLANCE MINE
PIMA COUNTY, ARIZONA
DMA 1785X

COPPER

CONTENTS

	Page
General Geology	1
Description of Deposit	1
Conclusion	3

ILLUSTRATIONS

Fig. 1	Location Map	See Engineering		Report
Fig. 2	Section through Shaft	"	"	"
Fig. 3	Proposed Work	"	"	"
Fig. 4	Claim Map	"	"	"

GENERAL GEOLOGY

The Copper Glance Mine is on the northwest side of the Sierrita Mountains, Pima County, Arizona. The property lies near the base of the mountains on the pediment surface which slopes gently westward to the Altar Valley. The extremes of altitude on the claims do not exceed 15 to 20 feet. The property consists of 12 full claims located four claims wide and three claims long and oriented in a general north-south direction (Fig. 4).

The main mass of the northern Sierrita Mountains are composed of granitic rocks. These rocks are flanked to the west by steeply dipping regionally metamorphosed rocks of both sedimentary and volcanic origin which underlie a group of low foothills and an adjacent pediment area. The age of these rocks is uncertain. In the immediate area of the Copper Glance claims the country rock is a low-grade metamorphic rock, probably originally an argillaceous sediment. The rock is blue-gray in color and approaches a phyllite in character. Small knots or patches of chlorite are common in the rock. Its foliation strikes northerly and dips at angles from the vertical to 50° east.

DESCRIPTION OF DEPOSIT

Weak copper mineralization is found at the Copper Glance Mine in a quartz vein striking N. 10° W., essentially parallel to the strike and dip of foliated phyllite in which it occurs. The vein dips at generally steep angles to the east and, where exposed at the surface and underground, ranges from 6 inches to 6 feet in width. Quartz is exposed in three scattered outcrops over a length of 450 feet. From the alignment of the outcrops along the same general strike it is

probable they represent the same vein. Where the quartz vein crops out it is 2-5 feet thick and projects above the weaker phyllitic country rock. At intermediate points along the strike where there are no outcrops the assumption seems reasonable that the vein has pinched to narrow width or is absent.

The vein has been explored by several shallow prospect pits and a 160 foot shaft which is inclined approximately 45° to the south in the plane of the vein. There are two levels at 100 and 160 feet respectively. Each has short 30 feet drifts in the vein (Fig. 2).

Chrysocolla occurs on fracture surfaces in the quartz, along with a few grains of chalcocite. Gangue minerals in addition to quartz include small amounts of siderite, ankerite (?), calcite, and dark tourmaline. Throughout the vertical range in which the vein is exposed the character of the mineralization is the same.

A sample was taken across the vein on both the 100 and 160 foot level (Fig. 2). These assayed as follows:

Sample No.	Location	Width	Oz.Ag.	%Cu
1	100 ft. level	6'	1.55	3.26
2	160 " "	3'	0.40	0.40

A grab sample of the better looking sorted material from a small pit at the northern end of the surface exposure assayed 3.41 percent copper and 1.60 ounces of silver per ton. Close sorting of the rock extracted from the workings is reported to have yielded 5 tons of shipping grade ore. The grade of this ore was 4.53 percent copper and 3.92 ounces of silver per ton.

CONCLUSIONS

The vein is variable in thickness, and the copper mineralization is weak and spotty. The vein as exposed at the surface and underground has no material that could be classed as ore under existent conditions. Additional mining from the present workings and hand sorting might yield a few tons of tons of 2-3 percent copper ore from the vein. There is no reason to expect discovery of any large or significant body of copper ore at depth. Therefore, because of the small potential and low grade of the quartz vein in the Copper Glance Mine, it is recommended that the application for exploration assistance be denied.

WPA-17314, COPPER GLANCE COPPER-SILVER GROUP
PAPAGO MINING DISTRICT
PIMA COUNTY, ARIZONA

Engineering Report

By Chas. A. Hunks,
Mining Engineer
U. S. Bureau of Mines

May 1932

DMA-17 1X, COPPER BLANCE COPPER-SILVER GROUP
PAPAGO MINING DISTRICT
PIMA COUNTY, ARIZONA

CONTENTS

Engineering report	Page
Introduction	1
Acknowledgments	1
Location and accessibility	2
Physical features and climate	2
History and production	3
Ownership and extent	4
Description of deposit	4
Ore reserves	5
Present status of exploration and development	5
Proposed exploration and development	6
Conclusions and recommendations	6

ILLUSTRATIONS

Figure		Following page
1	Location map	2
2	Section through shaft	6
3	Proposed work	6
4	Claim map	6

INTRODUCTION

Under date of April 10, 1952, the Operating Committee, Defense Minerals Exploration Administration, requested that the Field Team, Region IV, have an examination made of the Copper Glance group of mining claims in Pima County, Ariz. Applicant George A. Sligh, Jr. of Tucson, Ariz. requested advice and financial assistance through an exploration loan to deepen the present 160-foot shaft another 50 feet, and to crosscut approximately 15 feet westerly to the vein, then execute approximately 100 feet of drifting on the vein. To accomplish this work the loan would have to cover the cost of necessary equipment to prosecute this program in a workmanlike and efficient manner.

On April 25, 1952, Chas A. Funke[1] and Galvin Bromfield[2] visited the property. They examined the 3 or 4 shallow open cuts and workings that were found along the outcrops of the vein.

The underground work on the property consists of a single-compartment 45° inclined shaft, 160 feet deep, with short crosscuts to the vein at the bottom and at the 100-foot level. With the exception of the first 20 feet at the collar of the shaft, no timber support was needed. The rock is hard and stands well. Samples were taken across the vein in the 2 crosscuts mentioned above.

1/ Mining Engineer, U. S. Bureau of Mines
2/ Geologist, U. S. Geological Survey

ACKNOWLEDGMENTS

Acknowledgment is made to Stanley M. Secrest, one of the original owners of these claims. He represented the applicant and acted as guide on the property.

Secrest can be reached at the Arizona Trust Company, 136 E. Stone Ave., Tucson, Ariz., Phone 3-9461.

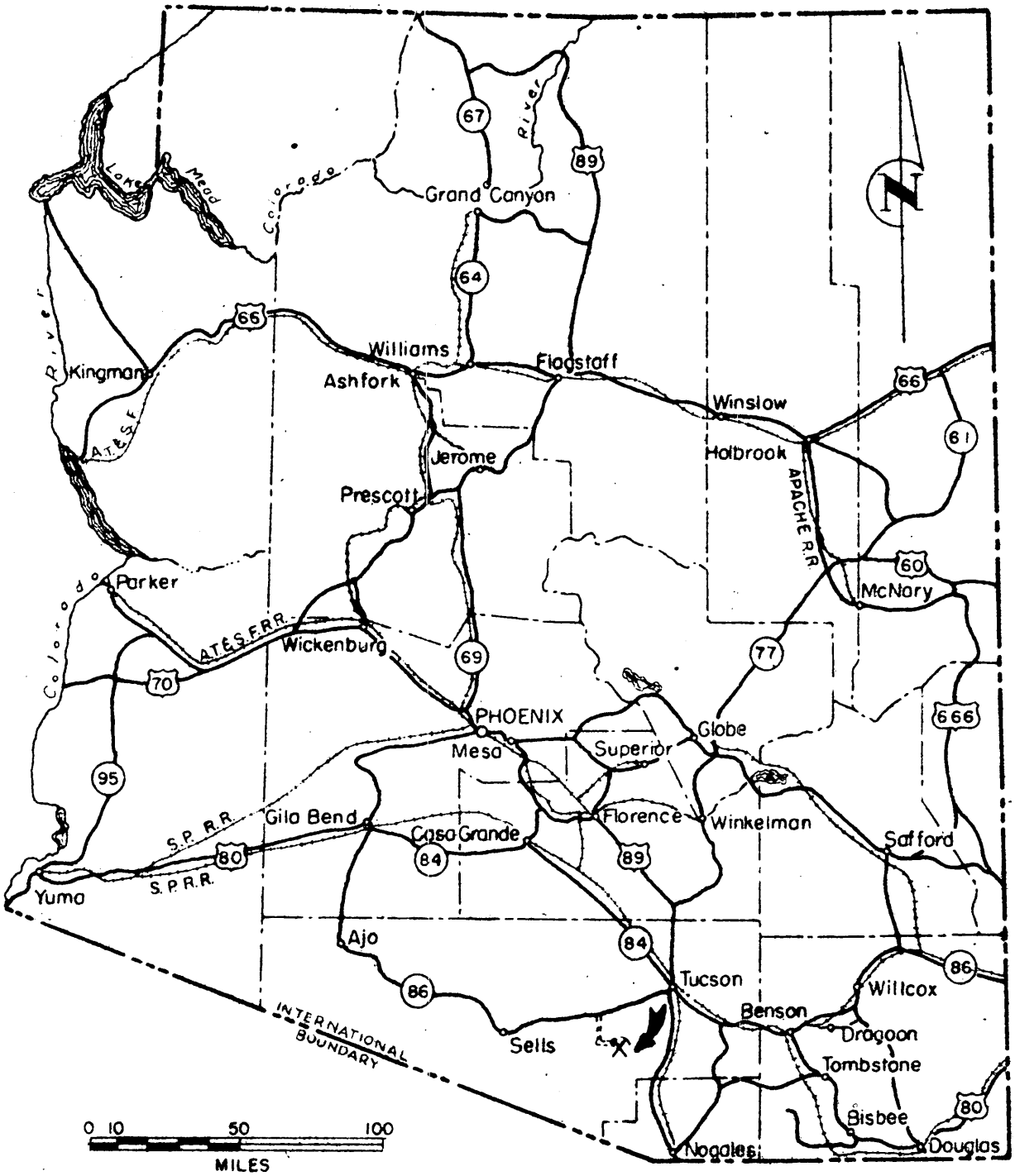
LOCATION AND ACCESSIBILITY

The Copper Glance group of claims is situated about 35 miles southwest of Tucson, Ariz. in the Papago Mining District of Pima County, in sec. 22, T. 17 S., R. 10 E. (fig. 1).

Tucson is the nearest town or city. The property is reached by driving from Tucson for 26 miles on State Highway 86 (Ajo road) to Three Points, the junction of the Sasabe road, thence south on the Sasabe road for 8 miles to the Anvil Ranch. Ranch buildings are visible off to the right. A hundred yards beyond the ranch, turn left (east) on a little-used dirt road and go 6 miles to a gate. A few yards beyond the gate, a dim dirt road leads to the mine shaft 1 mile away.

PHYSICAL FEATURES AND CLIMATE

The Copper Glance property is at the very foot of the northwest slope of the Sierrita Mountains. The altitude is approximately 3,400 feet above sea level.



DMA 1781 X

FIG. 1- Copper Glance Group, Papago Mining District

Pima County, Arizona

Like most of the southwest, the region has a semi-arid climate. The area is covered with the usual semi-desert vegetation. The summers are hot but not excessively so, and the winters are very mild. The temperature ranges from 20° F. to 105° F. Annual rainfall averages about 13 inches, including rare slight snowfalls.

HISTORY AND PRODUCTION

There are no authentic historical records pertaining to the Copper Glance group. According to Secrest the claims were first located during the Depression years. Some surface open cuts were dug where the vein showed the best copper indications. This work was followed by sinking a one-compartment 45° inclined shaft for about 70 feet on the strike of the vein.

The docket, DMA-1751X, shows applicant George A. Sligh, Jr., as the owner as of July 2, 1951. Since that date there have been some changes. George Sligh has withdrawn from an active participation in the venture, and Mrs. Sligh, his wife, has taken over the management of the property. Mrs. Sligh is a prominent real estate operator in Tucson.

In 1949, 5 tons of very carefully sorted ore were sent to the smelter. This shipment assayed 4.53 percent copper and 3.92 ounces in silver. No other ore has been shipped from the property.

OWNERSHIP AND EXTENT

Mrs. George Sligh is purchasing the property under a bond and lease agreement from Miller and Secrest, the owners. Fifteen hundred dollars remain to be paid.

The property consists of 12 full mining claims. The solid group is 3 claims long and 4 claims wide. The 12 claims are recorded as Copper Glance No. 1 to No. 12, inclusive.

DESCRIPTION OF DEPOSIT

The mineral deposit occurs as a quartz vein of variable thickness. This vein strikes N. 10° W. and is parallel to the strike and dip of the schist in which it occurs. The vein dips at 75 to 80 degrees to the east. Its width varies from 6 inches to 6 feet.

On the surface, quartz bleccits are found in several outcrops over a length of 500 feet. The values occur as chrysocolla on the fractured surfaces of the quartz, along with a small amount of chalcocite.

The following are the results of 3 samples taken by the examiners:

No.	Location	Width	Gold, ounces	Silver, ounces	Copper, percent
1	Across vein, 160-ft. level	6 ft.		1.55	3.26
2	Across vein, 160-ft. level	3 ft.		0.40	0.40
3	Grab from sorted ore	—		1.60	3.41

The above samples (1) and (2) were taken at the strongest ore exposures on the property.

There is no indication that the vein will carry through at the same width between outcrops. The schist rock on either side of the narrow quartz vein is void of any mineral values and comes under the heading of waste rock. This limits the possibilities of mineral values to the contents of the quartz vein. There seems to be no reason to look for a substantial body of copper ore in depth.

ORE RESERVES

There are no measurable ore reserves on this property.

PRESENT STATUS OF EXPLORATION AND DEVELOPMENT

There has been no activity on the property for about [illegible] years. During 1948 and 1949, the shaft was deepened from 70 feet to 100 feet, and crosscuts to the vein were driven on the 100 and 100 levels. A small amount of drifting was done on the vein at these levels. All this work was done in a workmanlike manner.

The shaft is in good shape, the rock is very hard and stands well without support. The head-frame is adequate and the ground around the collar is well timbered.

There is a [illegible]-hp. Fairbanks-Morse gasoline hoist with 5/8-inch cable on the property in fair condition. An adequate skip, and a rather worn track car are part of the equipment. No housing of any value remains on the property.

The shaft encountered a small amount of water at 160 feet. This water is fit for human consumption. There probably would be ample for a small mining operation.

PROPOSED EXPLORATION AND DEVELOPMENT

It is proposed by the applicant to sink the present shaft another 50 feet, then crosscut to the vein, and do a moderate amount of drifting on the newly-cut vein. A program of this kind could be executed with the expenditure of not more than $18,000. However, there would have to be a marked improvement in the amount and grade of the ore on the new 210 level to warrant the expenditure of $18,000.00. There is no reason to expect a better showing 50 feet deeper (figures 2 & 3).

CONCLUSIONS AND RECOMMENDATIONS

The amount of copper-stained quartz, with some particles of copper glance, is so small in the few surface cuts and mine workings that the vein cannot be considered an economic deposit. Its average width will not exceed 3 or 4 feet and it would be very difficult, even with careful sorting, to obtain and maintain a 3 percent copper ore if the entire vein were mined at its present exposures. There is no reason to expect more and better ore in depth. The vein is small, and the present showing is inadequate and not attractive.

It is recommended that the application be denied.

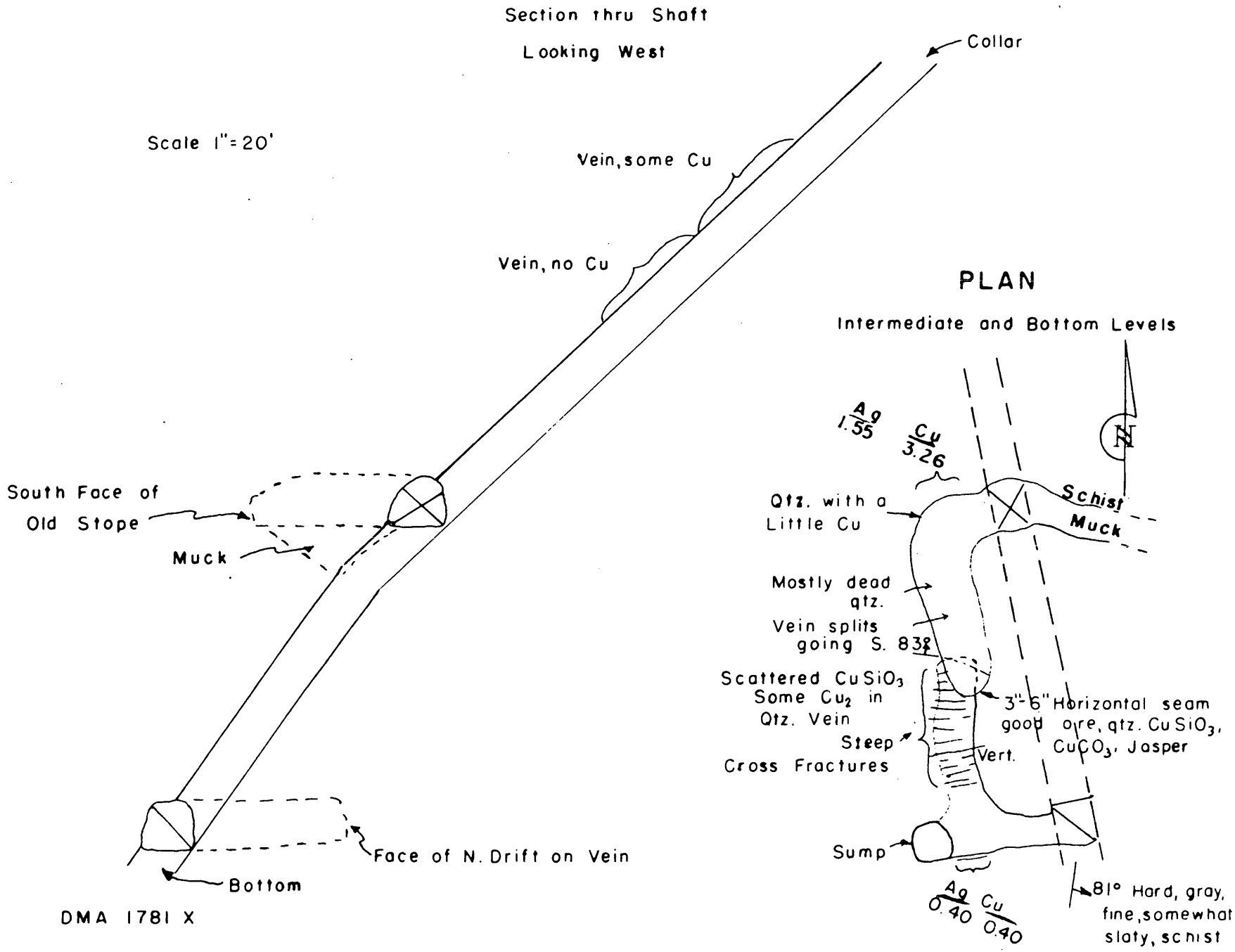
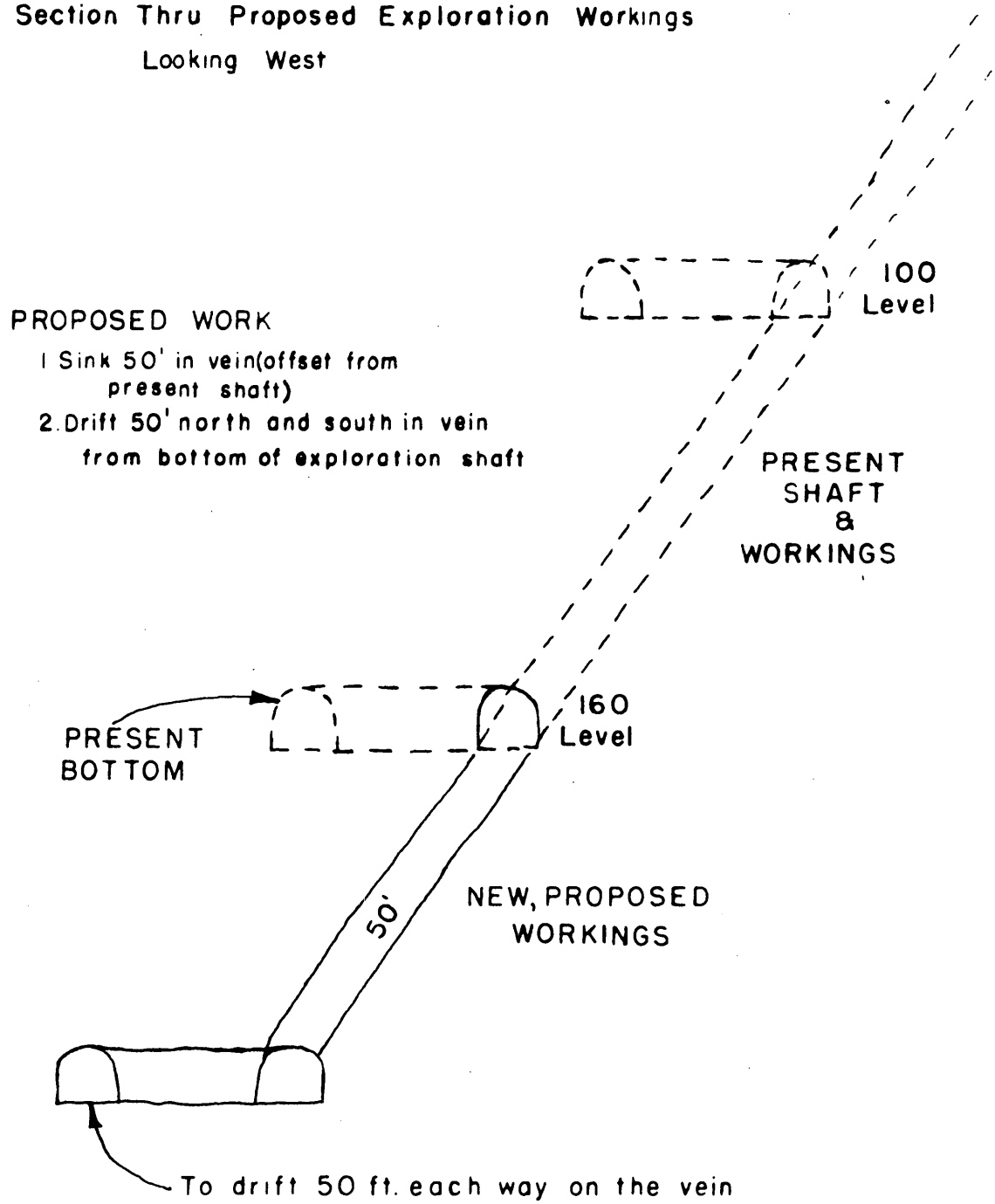


FIG. 2 - SECTION THRU SHAFT, COPPER GLANCE PROSPECT

Section Thru Proposed Exploration Workings
Looking West



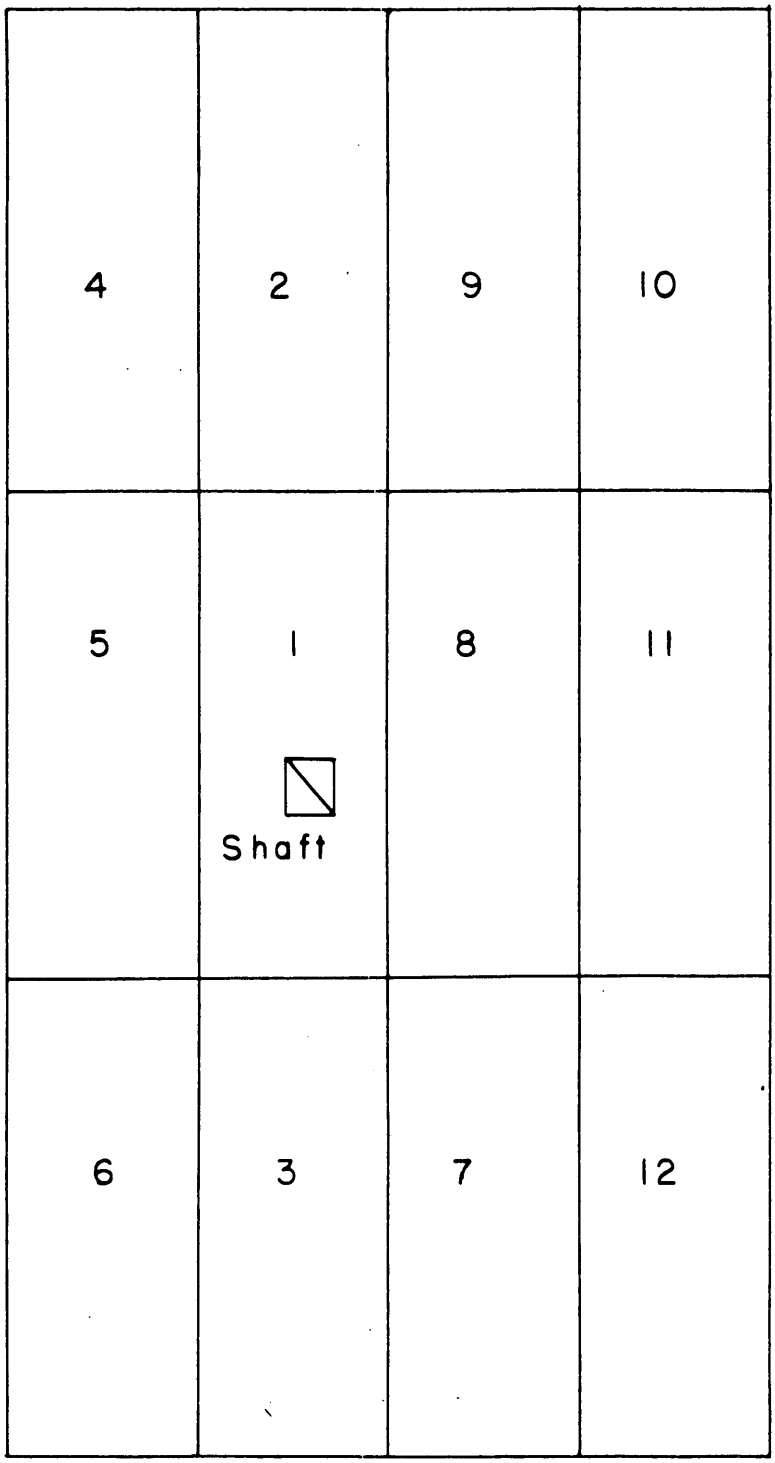
Scale 1"=20'

DMA 1781 X

FIG. 3 - PROPOSED WORKINGS

COPPER GLANCE PROSPECT

CLAIM MAP
Scale 1" = 60'



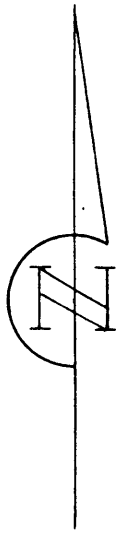


FIG. 4 - CLAIM MAP DMA 1781 X

COPPER GLANCE GROUP

PIMA COUNTY, ARIZONA

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

224 New Customhouse
Denver 2, Colorado

May 28, 1952

Memorandum

To: Acting Administrator, Defense Minerals Exploration Administration
Attention: Code 210

From: Field Team, Region IV

Subject: Final Report, DMA Docket 1781X, (Copper) George A. Sligh, Jr., Copper Glance Prospect, Pima County, Arizona

Enclosed are the original and three copies of the final report on the Copper Glance Prospect, the original and one copy of Form 3b and a copy of the letter of denial to the applicant.

Removed in R & R
6-2-52 sa

W. H. King
W. H. King

A. H. Koschmann
A. H. Koschmann

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 2 1952

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

224 New Customhouse
Denver 2, Colorado

May 28, 1952

Mr. George A. Sligh, Jr.
1050 North Country Club Road
Tucson, Arizona

Dear Mr. Sligh:

Reference is made to your application for Government aid in exploration work on the Copper Glance prospect.

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

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

Very truly yours,

W. H. King

W. H. King
Field Team, Region IV

A. H. Koschmann

A. H. Koschmann
Field Team, Region IV

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
JUN 2 1952

cc: Acting Administrator, DMEA

Mining Division
Region IV

May 28, 1952

Memorandum

To: Field Team, Region IV

From: Acting Chief, Mining Division, Region IV

Subject: Final Report, DMA Docket 1781X, (Copper) George A. Sligh, Jr., Copper Glance Prospect, Pima County, Arizona

Enclosed are nine copies of the engineering report on the Copper Glance prospect.

A very small amount of copper mineralization was noted by the field examiners and they believe the possibilities of finding substantial amounts of copper ore are remote.

We concur with the recommendation of the field examiners that the application for exploration aid be denied.

W. H. King

W. H. King

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 2 1952

Reviewed by
DMEA OPERATING COMMITTEE
6-9-52
(date)

Mining Division
Date Rec'd
MAY 15 1952
BUREAU OF MINES
Denver, Colorado

May 13, 1952

Memorandum

To : W. H. King, Denver, Colorado

From : Chief, Arizona--New Mexico Branch

Subject : Final Report, DMA Docket 1781X, Copper Glance Copper-Silver Group, Papago Mining District, Pima County, Ariz.

Enclosed are original and 8 copies of the section on Summary, Conclusions and Recommendations by C. A. Kunke of the Bureau of Mines and C. S. Bromfield of the Geological Survey, and the section on Engineering by Kunke for the above report. A separate section on geology will be submitted by the Geological Survey.

As only a very small amount of copper mineralization can be noted on this property and as the possibilities of finding substantial amounts of copper ore seem remote, the examiners recommend that the application for an exploration loan be denied. I concur with their recommendations.

Brochure is enclosed.

Walter R. Storms

Walter R. Storms

CC: W. H. King (3)
C. A. Anderson
DMA-1781X
DF

WRStorms:als

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

200 New Customhouse
Denver 2, Colorado

May 22, 1952

Memorandum

To: DMEA Field Team, Region IV

From: A. H. Koschmann

Subject: DMA Docket 1781X, Copper Glance Mine (G. A. Sligh, Jr.), Pima County, Arizona (Copper)

Enclosed are the original and 8 copies of the above geologic report by C. S. Bromfield of the U. S. Geological Survey.

It has been recommended that the loan be denied.

A. H. Koschmann
A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (9)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P.O.Box 4126, University Station
Tucson, Arizona

May 20, 1952

Memorandum

To: A. H. Koschmann, Denver, Colorado

From: A. F. Shride, Tucson, Arizona

Subject: Geologic Report, DMA 1781X, Copper Glance Mine (G. A. Sligh, Jr.), Pima County, Arizona (Copper)

Enclosed are the original and 8 copies of the above report by C. S. Bromfield of the Geological Survey.

This report and the recommendation that an exploration loan be denied have my approval. The material at present in sight is not of minable grade and exploration is not likely to expose material of minable grade.

A. F. Shride
Acting District Supervisor
Arizona-New Mexico

Enclosures 9

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

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

DMA-1781X, Copper Glance Copper-Silver Group

Papago Mining District

Pima County, Arizona

Chas. A. Kumke, Mining Engineer
U. S. Bureau of Mines

C. S. Bromfield, Geologist
U. S. Geological Survey

May 1952

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

By Chas. A. Kumke[1] and C. S. Bromfield[2]

It was requested in April 1952 by the Operating Committee, Defense Minerals Exploration Administration that the Field Team, Region IV, have the Copper Glance prospect examined in Pima County, Ariz. Applicant George A. Sligh, Jr. of Tucson, Ariz. was asking for assistance in exploring his property, a copper prospect 35 miles southwest of Tucson.

Sligh proposed to deepen the single compartment, inclined shaft from its present depth of 160 feet to 210 feet, then crosscut to the west for 15 feet to cut the vein, and do approximately 100 feet of drifting on the vein.

On April 25, 1952 a Bureau of Mines engineer and a geologist from the Geological Survey visited the property. It consists of a group of 12 full claims, 3 claims in length and 4 claims in width.

The deposit occurs as a quartz vein of varying thickness in a steeply dipping schist. The vein strikes N. 10° W. and is parallel to the schist in which it occurs. Quartz is exposed in several outcrops for a length of 500 feet. The vein, varying in thickness from 6 inches to 6 feet, has been explored by several shallow prospect pits and a 160-foot inclined single-compartment shaft with short crosscuts to the vein at 100 and 160 feet (figs. 2 & 3). Copper occurs as

---

1/ Mining Engineer, U. S. Bureau of Mines
2/ Geologist, U. S. Geological Survey

chrysocolla on fracture surfaces in the quartz with a very small amount of chalcocite scattered in the green stained quartz. The copper mineralization is weak and spotty. Nowhere on surface nor underground is there any material that could be classed as minable ore under present conditions.

There is no reason to expect a decided improvement with additional depth, either in the strength of the vein or in the grade of the ore.

It is recommended that the application be denied.

COPPER GLANCE MINE
PIMA COUNTY, ARIZONA
DMA 1781X

COPPER

Geology

By
Calvin S. Bromfield
Geologist, U. S. Geological Survey

COPPER GLANCE MINE
PIMA COUNTY, ARIZONA
DMA 1781X

COPPER

CONTENTS

	Page
General Geology	1
Description of Deposit	1
Conclusion	3

ILLUSTRATIONS

Fig. 1 Location Map	See Engineering Report
Fig. 2 Section through Shaft	" " "
Fig. 3 Proposed Work	" " "
Fig. 4 Claim Map	" " "

GENERAL GEOLOGY

The Copper Glance Mine is on the northwest side of the Sierrita Mountains, Pima County, Arizona. The property lies near the base of the mountains on the pediment surface which slopes gently westward to the Altar Valley. The extremes of altitude on the claims do not exceed 15 to 20 feet. The property consists of 12 full claims located four claims wide and three claims long and oriented in a general north-south direction (Fig. 4).

The main mass of the northern Sierrita Mountains are composed of granitic rocks. These rocks are flanked to the west by steeply dipping regionally metamorphosed rocks of both sedimentary and volcanic origin which underlie a group of low foothills and an adjacent pediment area. The age of these rocks is uncertain. In the immediate area of the Copper Glance claims the country rock is a low-grade metamorphic rock, probably originally an argillaceous sediment. The rock is blue-gray in color and approaches a phyllite in character. Small knots or patches of chlorite are common in the rock. Its foliation strikes northerly and dips at angles from the vertical to 50° east.

DESCRIPTION OF DEPOSIT

Weak copper mineralization is found at the Copper Glance Mine in a quartz vein striking N. 10° W., essentially parallel to the strike and dip of foliated phyllite in which it occurs. The vein dips at generally steep angles to the east and, where exposed at the surface and underground, ranges from 6 inches to 6 feet in width. Quartz is exposed in three scattered outcrops over a length of 450 feet. From the alignment of the outcrops along the same general strike it is

probable they represent the same vein. Where the quartz vein crops out it is 2-5 feet thick and projects above the weaker phyllitic country rock. At intermediate points along the strike where there are no outcrops the assumption seems reasonable that the vein has pinched to narrow width or is absent.

The vein has been explored by several shallow prospect pits and a 160 foot shaft which is inclined approximately 45° to the south in the plane of the vein. There are two levels at 100 and 160 feet respectively. Each has short 30 foot drifts in the vein (Fig. 2).

Chrysocolla occurs on fracture surfaces in the quartz, along with a few grains of chalcocite. Gangue minerals in addition to quartz include small amounts of siderite, ankerite (?), calcite, and dark tourmaline. Throughout the vertical range in which the vein is exposed the character of the mineralization is the same.

A sample was taken across the vein on both the 100 and 160 foot level (Fig. 2). These assayed as follows:

Sample No.	Location	Width	Oz.Ag.	%Cu
1	100 ft. level	6'	1.55	3.26
2	160 " "	3'	0.40	0.40

A grab sample of the better looking sorted material from a small pit at the northern end of the surface exposure assayed 3.41 percent copper and 1.60 ounces of silver per ton. Close sorting of the rock extracted from the workings is reported to have yielded 5 tons of shipping grade ore. The grade of this ore was 4.53 percent copper and 3.92 ounces of silver per ton.

CONCLUSIONS

The vein is variable in thickness, and the copper mineralization is weak and spotty. The vein as exposed at the surface and underground has no material that could be classed as ore under existent conditions. Additional mining from the present workings and hand sorting might yield a few tens of tons of 2-3 percent copper ore from the vein. There is no reason to expect discovery of any large or significant body of copper ore at depth. Therefore, because of the small potential and low grade of the quartz vein in the Copper Glance Mine, it is recommended that the application for exploration assistance be denied.

DMA-1781X, COPPER GLANCE COPPER-SILVER GROUP
PAPAGO MINING DISTRICT
PIMA COUNTY, ARIZONA

Engineering Report

By Chas. A. Kumke,
Mining Engineer
U. S. Bureau of Mines

May 1952

DMA-1781X, COPPER GLANCE COPPER-SILVER GROUP
PAPAGO MINING DISTRICT
PIMA COUNTY, ARIZONA

CONTENTS

Engineering report	Page
Introduction	1
Acknowledgments	2
Location and accessibility	2
Physical features and climate	2
History and production	3
Ownership and extent	4
Description of deposit	4
Ore reserves	5
Present status of exploration and development	5
Proposed exploration and development	6
Conclusions and recommendations	6

ILLUSTRATIONS

Figure		Following page
1	Location map	2
2	Section through shaft	6
3	Proposed work	6
4	Claim map	6

INTRODUCTION

Under date of April 10, 1952, the Operating Committee, Defense Minerals Exploration Administration, requested that the Field Team, Region IV, have an examination made of the Copper Glance group of mining claims in Pima County, Ariz. Applicant George A. Sligh, Jr. of Tucson, Ariz. requested advice and financial assistance through an exploration loan to deepen the present 160-foot shaft another 50 feet, and to crosscut approximately 15 feet westerly to the vein, then execute approximately 100 feet of drifting on the vein. To accomplish this work the loan would have to cover the cost of necessary equipment to prosecute this program in a workmanlike and efficient manner.

On April 25, 1952, Chas A. Kumke[1/] and Calvin Bromfield[2/] visited the property. They examined the 3 or 4 shallow open cuts and workings that were found along the outcrops of the vein.

The underground work on the property consists of a single-compartment 45° inclined shaft, 160 feet deep, with short crosscuts to the vein at the bottom and at the 100-foot level. With the exception of the first 20 feet at the collar of the shaft, no timber support was needed. The rock is hard and stands well. Samples were taken across the vein in the 2 crosscuts mentioned above.

1/ Mining Engineer, U. S. Bureau of Mines
2/ Geologist, U. S. Geological Survey

ACKNOWLEDGMENTS

Acknowledgment is made to Stanley M. Secrest, one of the original owners of these claims. He represented the applicant and acted as guide on the property.

Secrest can be reached at the Arizona Trust Company, 136 N. Stone Ave., Tucson, Ariz., Phone 3-9461.

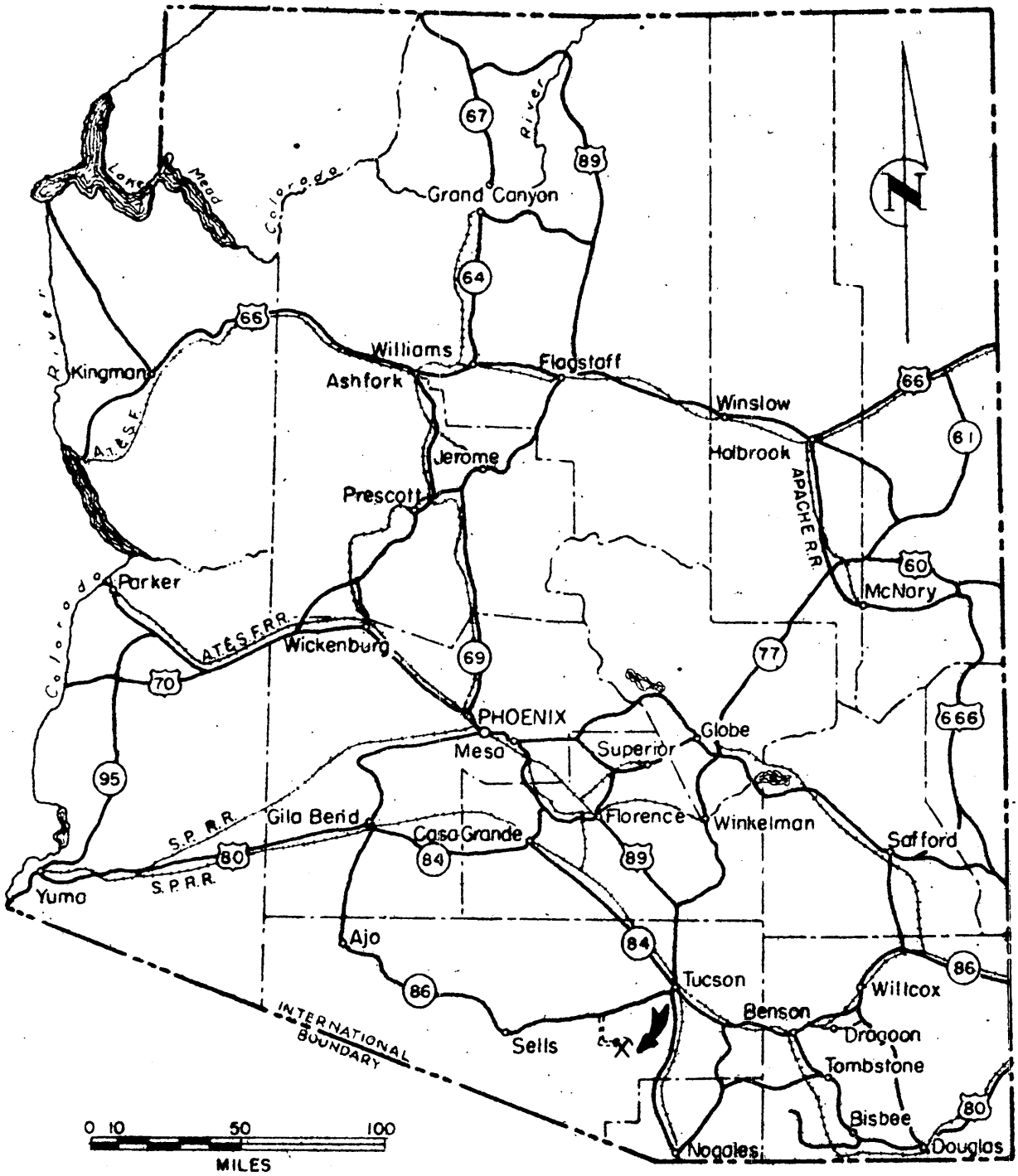
LOCATION AND ACCESSIBILITY

The Copper Glance group of claims is situated about 35 miles southwest of Tucson, Ariz. in the Papago Mining District of Pima County, in sec. 22, T. 17 S., R. 10 E. (fig. 1).

Tucson is the nearest town or city. The property is reached by driving from Tucson for 26 miles on State Highway 86 (Ajo road) to Three Points, the junction of the Sasabe road, thence south on the Sasabe road for 8 miles to the Anvil Ranch. Ranch buildings are visible off to the right. A hundred yards beyond the ranch, turn left (east) on a little-used dirt road and go 6 miles to a gate. A few yards beyond the gate, a dim dirt road leads to the mine shaft 1 mile away.

PHYSICAL FEATURES AND CLIMATE

The Copper Glance property is at the very foot of the northwest slope of the Sierrita Mountains. The altitude is approximately 3,400 feet above sea level.



DMA 1781 X

FIG. 1- Copper Glance Group, Papago Mining District

Pima County, Arizona

Like most of the southwest, the region has a semi-arid climate. The area is covered with the usual semi-desert vegetation. The summers are hot but not excessively so, and the winters are very mild. The temperature ranges from 20° F. to 105° F. Annual rainfall averages about 13 inches, including rare slight snowfalls.

HISTORY AND PRODUCTION

There are no authentic historical records pertaining to the Copper Glance group. According to Secrest the claims were first located during the depression years. Some surface open cuts were dug where the vein showed the best copper indications. This work was followed by sinking a one-compartment 45° inclined shaft for about 70 feet on the strike of the vein.

The docket, DMA-1781X, shows applicant George A. Sligh, Jr., as the owner as of July 2, 1951. Since that date there have been some changes. George Sligh has withdrawn from an active participation in the venture, and Mrs. Sligh, his wife, has taken over the management of the property. Mrs. Sligh is a prominent real estate operator in Tucson.

In 1949, 5 tons of very carefully sorted ore were sent to the smelter. This shipment assayed 4.53 percent copper and 3.92 ounces in silver. No other ore has been shipped from the property.

OWNERSHIP AND EXTENT

Mrs. George Sligh is purchasing the property under a bond and lease agreement from Miller and Secrest, the owners. Fifteen hundred dollars remain to be paid.

The property consists of 12 full mining claims. The solid group is 3 claims long and 4 claims wide. The 12 claims are recorded as Copper Glance No. 1 to No. 12, inclusive.

DESCRIPTION OF DEPOSIT

The mineral deposit occurs as a quartz vein of variable thickness. This vein strikes N. 10° W. and is parallel to the strike and dip of the schist in which it occurs. The vein dips at 75 to 80 degrees to the east. Its width varies from 6 inches to 6 feet.

On the surface, quartz blowouts are found in several outcrops over a length of 500 feet. The values occur as chrysocolla on the fractured surfaces of the quartz, along with a small amount of chalcocite.

The following are the results of 3 samples taken by the examiners:

No.	Location	Width	Gold, ounces	Silver, ounces	Copper, percent
1	Across vein, 100-ft. level	6 ft.		1.55	3.26
2	Across vein, 160-ft. level	3 ft.		0.40	0.40
3	Grab from sorted ore	--		1.60	3.41

The above samples (1) and (2) were taken at the strongest ore exposures on the property.

There is no indication that the vein will carry through at the same width between outcrops. The schist rock on either side of the narrow quartz vein is void of any mineral values and comes under the heading of waste rock. This limits the possibilities of mineral values to the contents of the quartz vein. There seems to be no reason to look for a substantial body of copper ore in depth.

ORE RESERVES

There are no measurable ore reserves on this property.

PRESENT STATUS OF EXPLORATION AND DEVELOPMENT

There has been no activity on the property for about 3 years. During 1948 and 1949, the shaft was deepened from 70 feet to 160 feet, and crosscuts to the vein were driven on the 100 and 160 levels. A small amount of drifting was done on the vein at these levels. All this work was done in a workmanlike manner.

The shaft is in good shape, the rock is very hard and stands well without support. The head-frame is adequate and the ground around the collar is well timbered.

There is a 22-hp. Fairbanks-Morse gasoline hoist with 5/8-inch cable on the property in fair condition. An adequate skip, and a rather worn tram car are part of the equipment. No housing of any value remains on the property.

The shaft encountered a small amount of water at 160 feet. This water is fit for human consumption. There probably would be ample for a small mining operation.

PROPOSED EXPLORATION AND DEVELOPMENT

It is proposed by the applicant to sink the present shaft another 50 feet, then crosscut to the vein, and do a moderate amount of drifting on the newly-cut vein. A program of this kind could be executed with the expenditure of not more than $18,000. However, there would have to be a marked improvement in the amount and grade of the ore on the new 210 level to warrant the expenditure of $18,000.00. There is no reason to expect a better showing 50 feet deeper (figures 2 & 3).

CONCLUSIONS AND RECOMMENDATIONS

The amount of copper-stained quartz, with some particles of copper glance, is so small in the few surface cuts and mine workings that the vein cannot be considered an economic deposit. Its average width will not exceed 3 or 4 feet and it would be very difficult, even with careful sorting, to obtain and maintain a 3 percent copper ore if the entire vein were mined at its present exposures. There is no reason to expect more and better ore in depth. The vein is small, and the present showing is inadequate and not attractive.

It is recommended that the application be denied.

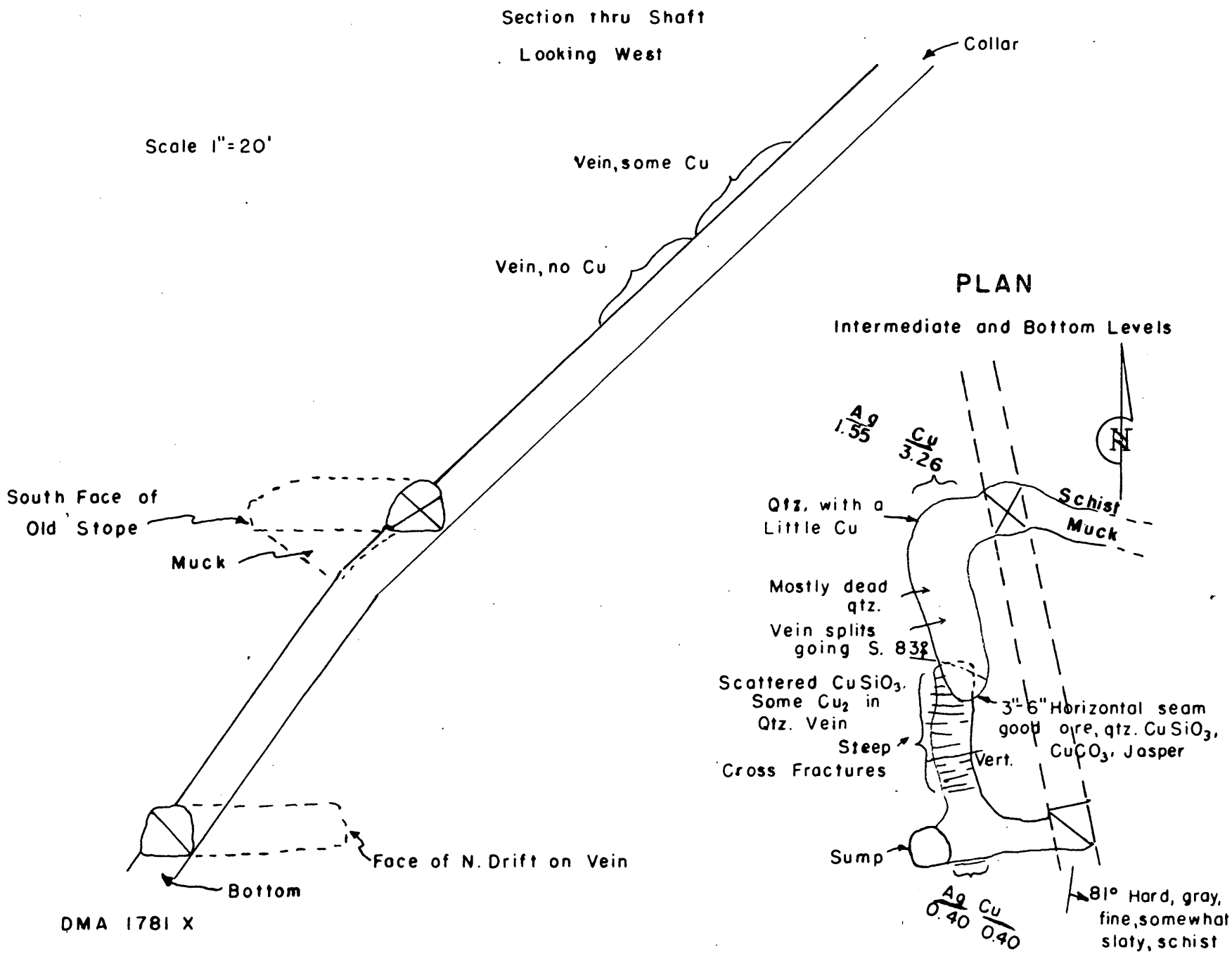
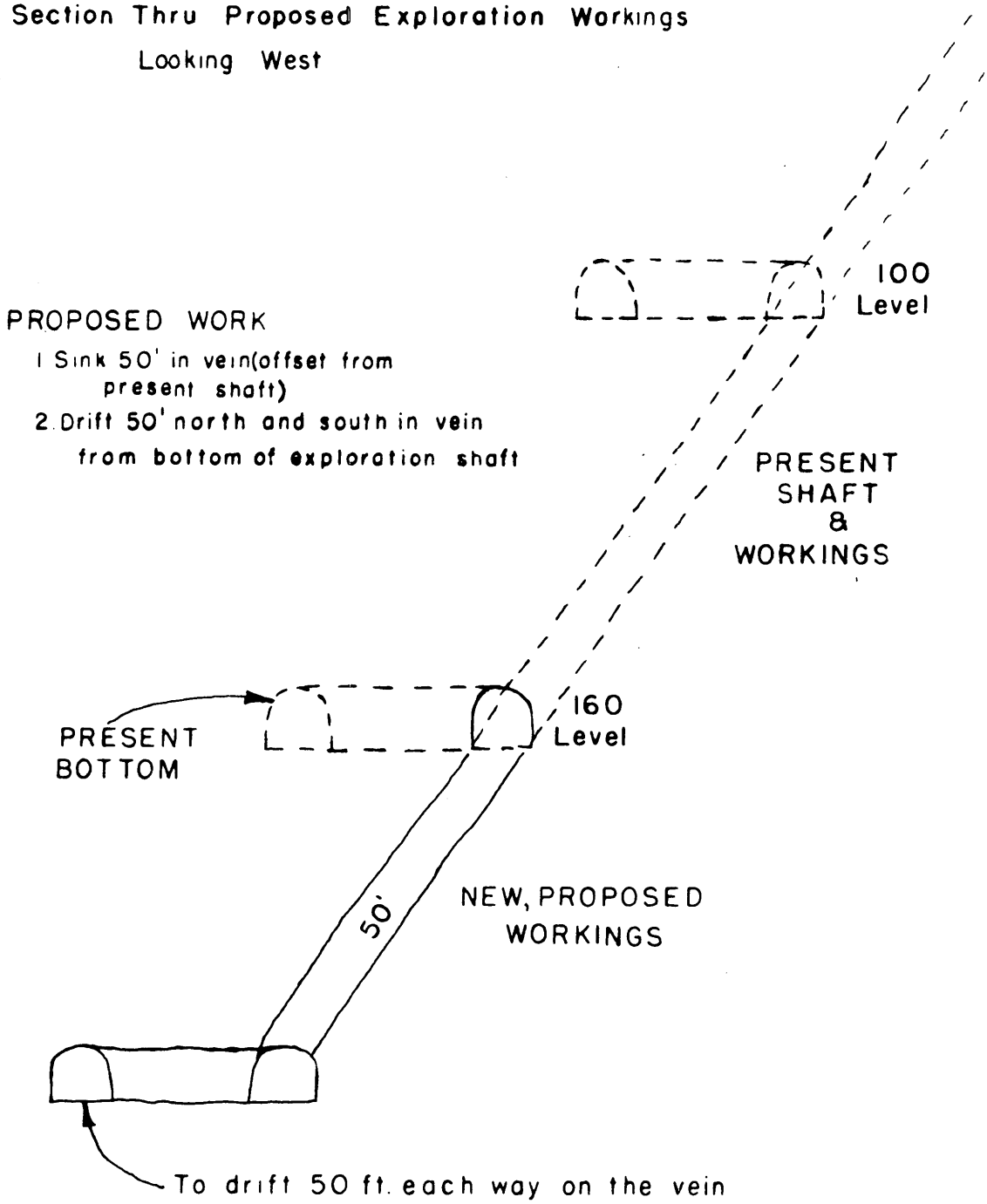


FIG. 2 - SECTION THRU SHAFT, COPPER GLANCE PROSPECT

Section Thru Proposed Exploration Workings

Looking West



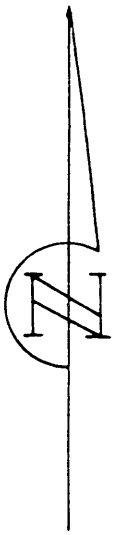
Scale 1"=20'

DMA 1781 X

FIG. 3 - PROPOSED WORKINGS

COPPER GLANCE PROSPECT

CLAIM MAP
Scale 1" = 60'



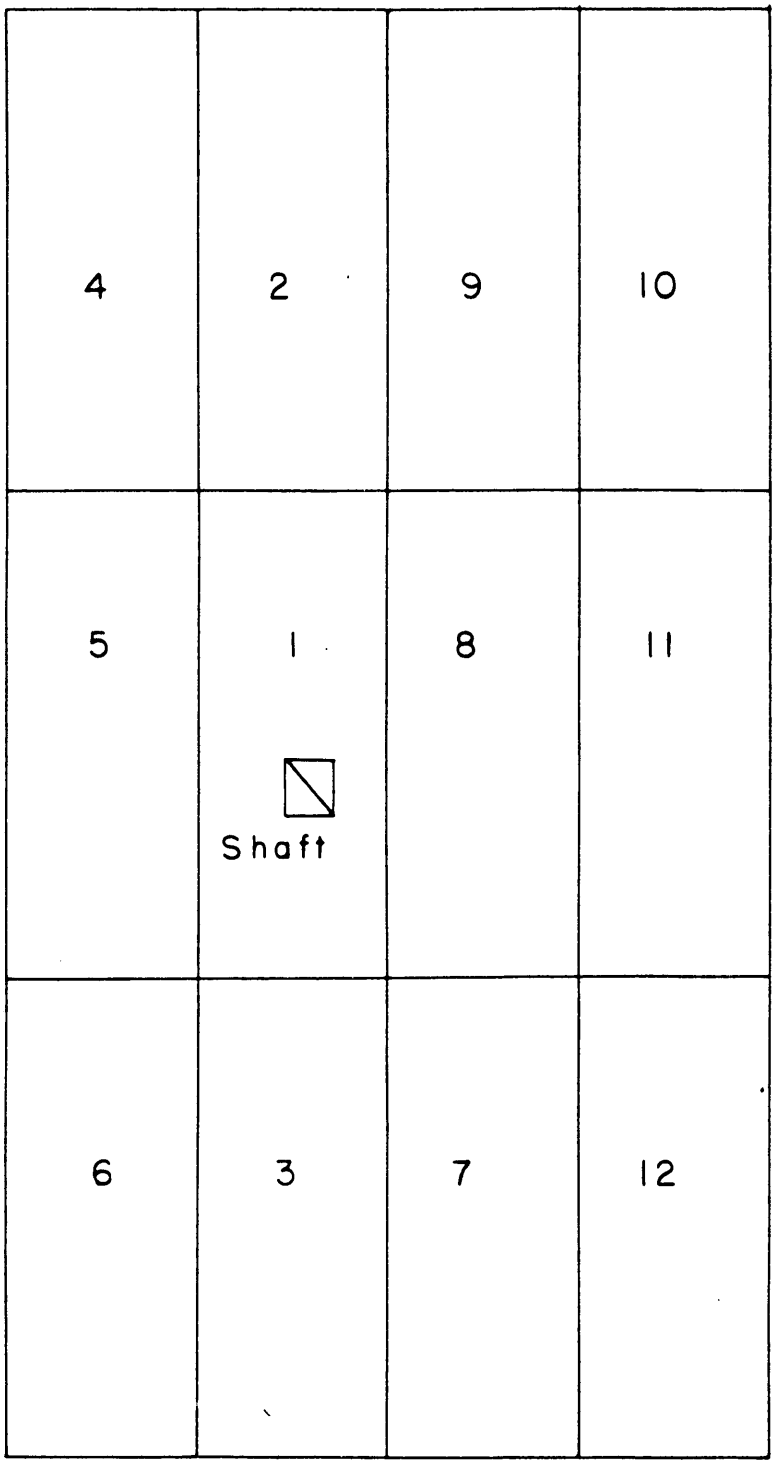


FIG. 4 - CLAIM MAP DMA 1781 X

COPPER GLANCE GROUP

PIMA COUNTY, ARIZONA

Denial

~~MxxxWxNxKxxx~~ng

Mr. W.H.King
Executive Officer
DMEA Field Team Region IV
224 Customhouse Building
Denver 2, colorado

Docket No DMA 1781 X
Copper
Copper Glance Prospect Pima County Ariz.

Mr. Geroge A. Sligh Jr.
1050 North Country Club Road
Tucson Ariz.

Draft sent 5/28
See letter to Sligh from King + Carlson

Dear Mr. Sligh;

Your application for aid in an exploration project docketed as per the above captioned number has been throoughly reviewed by this Agency.

Projects approved by the Defense Minerals Exploration Administration must in its judgment show definite promise of yielding material of acceptable grade and in quantities tha will improve the minerql supply position for National Defense.

A careful study of your proposal with an examination of the property by our engineers ~~and~~ reveals~~s~~ that the probability of disclosing mineable reserves is not considered sufficiently promising to justify Government participation.

We regret that undet these circumstances your application for exploration aid to the extent of 50% of $20,000 must be denied.

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

I concur with the Field Team

Sincerely

Schmidt

700 FILE COPY
SURNAME:

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

APR 1 0 1952

Mr. George A. Bligh, Jr.
1150 N. Country Club Road
Tucson, Arizona

Re: Docket No. [illegible]-1751X (Copper)
Copper Glance Prospect

Dear Mr. Bligh:

Your application for assistance in exploring your property in Pima County, Arizona, under the above captioned docket number, has been reviewed by the Rare and Miscellaneous Metals Division of the Defense Minerals Exploration Administration and has been referred to Mr. J. H. Wast, Jr., Executive Officer, Region IV, DMEA Field Team, 224 New Customhouse Building, Denver 2, Colorado, for a field examination.

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

Sincerely yours,

C. O. Mittendorf (fw)

Acting Administrator
Defense Minerals Exploration
Administration

HFKeller/jem
4/7/52
cc to: Adm. Reading File
Docket
Messrs. C.H.Johnson, Rm. 3621
Ned Nelson, Rm. 4216 GS
Ellis
Keller
Field Team, Region IV (2)

700
FILE COPY
SURNAME:

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

APR 1 0 1952

Mr. J. H. East, Jr.
Executive Officer, Region IV
DMEA Field Team
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. [illegible]-17613 (Copper)
George [illegible]. Sligh, Jr.
Copper Glance Prospect
Pima County, Arizona

Dear Mr. East:

This is your authority to make a field team examination of the captioned Applicant's property in the Sapago Mining District, Pima County, Arizona. We are enclosing one copy of the application and supporting evidence.

It is the general consensus of opinion of the engineers who have reviewed the subject application, that even though the information furnished by the applicant is lacking in many essential details and the prospect gives very little promise of making a mine, that a short field examination is justified.

If on examination, the prospect proves to warrant further consideration, the field engineers should aid the applicant in revising the application so as to present a definite exploration project with the corresponding cost estimates and supporting evidence.

Sincerely yours,

(signed) FRANK E. JOHNSON

Chairman, Operating Committee
Defense Minerals Exploration
Administration

Enclosures
Attest:
J. H. Hedges

Member, Bureau of Mines
T. P. Thayer

Member, Geological Survey

HFKeller/jem
4/7/52
cc to: Adm. Reading File
Docket
Messrs. C.H.Johnson, Rm. 3621
Ned Nelson, Rm. 4216 GS
Ellis
Keller
Field Team, Region IV

S.N. 4-10-52

4/2/52 gla

IN REPLY REFER TO:

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

March 31, 1952

Memorandum

To: Mr. E. Wm. Ellis

From: Ned E. Nelson

Subject: DMEA-1781, Copper Glance Mine, Pima County, Arizona

Comment

This prospect gives small promise of making a mine, but may be worth the short trip by a field team.

Ned E. Nelson

Ned E. Nelson
Geologist

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

March 31, 1952

Memorandum

To: Mr. E. Wm. Ellis

From: Ned E. Nelson

Subject: DMEA-1781, Copper Glence Mine, Pima County, Arizona

Comment

This prospect gives small promise of making a mine, but may be worth the short trip by a field team.

Ned E. Nelson
Geologist

3/28/52 gla

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

March 27, 1952

Memorandum

To: E. W. Ellis, DMEA

From: C. H. Johnson, Bureau of Mines

Subject: DMEA-1781, George A. Slye, Jr., Copper Glance Copper Prospect, Pima County, Arizona

I have reviewed the subject application and although it seems rather unpromising, I recommend that the field team be asked to examine and report on the property. It is close to Tucson and the examination apparently would be an easy one to make. The prospect has yielded at least one shipment of 5 tons of 4 percent copper ore. Applicant submits a map showing an oreshoot exposed on two levels.

I should like to note that this is not the Copper Glance Mine that is in the Twin Buttes District, also in Pima County, Arizona. We have no record here of any prior examination.

The docket is being sent on to Mr. Nelson.

C. H. Johnson

C. H. Johnson

Copy to - Mr. Nelson, USGS (with docket)
Minerals Division
C. H. Johnson
Base Metals Branch
Files

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

March 27, 1952

Memorandum

To: F. W. Ellis, DMEA

From: C. H. Johnson, Bureau of Mines

Subject: DMEA-1781, George A. Slye, Jr., Copper Glance Copper Prospect, Pima County, Arizona

I have reviewed the subject application and although it seems rather unpromising, I recommend that the field team be asked to examine and report on the property. It is close to Tucson and the examination apparently would be an easy one to make. The prospect has yielded at least one shipment of 5 tons of 4 percent copper ore. Applicant submits a map showing an oreshoot exposed on two levels.

I should like to note that this is not the Copper Glance Mine that is in the Twin Buttes District, also in Pima County, Arizona. We have no record here of any prior examination.

The docket is being sent on to Mr. Nelson.

C. H. Johnson

Copy to - Mr. Nelson, USGS (with docket)
Minerals Division
C. H. Johnson
Base Metals Branch
Files

AIR MAIL

Mr. George A. Sligh, Jr.
1050 N. Country Club Road
Tucson, Arizona

Re: Docket No. DMA 1781X (Copper)
Copper Glance Mine
Pima County, Arizona

Dear Mr. Sligh:

A review of your application of June 1, 1951, reveals that a letter was written to you in August of 1951 by Mr. J. B. Cowen of the former Supply Division of DMA requesting additional information necessary to process your application. No reply to this communication has been received from you and we assume that you no longer desire to proceed with the application. We wish to cooperate with you in the matter of allowing ample time, but if the needed data has not been received by March 18, 1952, we will then consider the docket closed.

Sincerely yours,

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

GLAult/EWEllis/gla
2-18-52
cc to: Adm. Reading File
Docket
Messrs. Johnson, C.H. Rm. 3621
Nelson, Ned Rm. 4216 GS
Ellis
Field Team, Reg. IV (2)

AIR MAIL

FEB 19 1952

Mr. George A. Sligh, Jr.
1050 N. Country Club Road
Tucson, Arizona

Re: Docket No. DMA 1781X (Copper)
Copper Glance Mine
Pima County, Arizona

Dear Mr. Sligh:

A review of your application of June 1, 1951, reveals that a letter was written to you in August of 1951 by Mr. J. B. Cowen of the former Supply Division of DMA requesting additional information necessary to process your application. No reply to this communication has been received from you and we assume that you no longer desire to proceed with the application. We wish to cooperate with you in the matter of allowing ample time, but if the needed data has not been received by March 18, 1952, we will then consider the docket closed.

Sincerely yours,

Signed

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

GLAult/EWEllis/gla
2-18-52
cc to: Adm. Reading File
Docket
Messrs. Johnson, C.H. Rm. 3621
Nelson, Ned Rm. 4216 GS
Ellis
Field Team, Reg. IV (2)

Mr. George A. Sligh, Jr.
1050 N. Country Club Road
Tucson, Arizona

Re: DMA Docket No. 17311

Dear Mr. Sligh:

Your application has been reviewed by the Copper Branch of the Defense Minerals Administration. Before we can take any action on your application we would need more information such as: a definite proposal as to the exploration work you plan on doing with any geological or other maps of present work and proposed work. We would also need to know the estimated cost of the project and the amount of money you are prepared to invest. The answers to all questions on Form MP-103 are very pertinent to the processing of your application. No contract for Government assistance can be signed before the necessary information has been supplied. It is therefore essential that you supply us with all the information available.

Very truly yours,

J. B. Cowen

J. B. Cowen, Chief
Copper Branch

Copy to: Administrator's Reading File
Reports and Records Branch
Executive Officer, DMA Field Team IV
Copper Branch
Files - DMA Docket

JWAlt:rw
8-8-51

July 5, 1951

Mr. George A. Sligh, Jr.
1050 N. Country Club Road
Tucson, Arizona

Subject: DMA-1781X
Re: Exploration Loan
Copper Glance

My dear Mr. Sligh:

Receipt is acknowledged of your application and attachments of July 2, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-1781X and was referred to Mr. J. B. Cowen, Chief, Copper Branch on July 3, 1951.

In any future correspondence relating to your application, kindly refer to DMA-1781X.

Sincerely yours,

LANDON F. STROBEL
Landon F. Strobel
Executive Secretary

LFSTROBEL:js
cc: Strobel-2
Files
Cowen
Lyon

FILE COPY
SURNAME:

Ellis
Mitt

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

AIR MAIL

FEB 19 1952

Mr. George A. Sligh, Jr.
1050 N. Country Club Road
Tucson, Arizona

Re: Docket No. DMA 1781X (Copper)
Copper Glance Mine
Pima County, Arizona

Dear Mr. Sligh:

A review of your application of June 1, 1951, reveals that a letter was written to you in August of 1951 by Mr. J. B. Gowen of the former Supply Division of DMA requesting additional information necessary to process your application. No reply to this communication has been received from you and we assume that you no longer desire to proceed with the application. We wish to cooperate with you in the matter of allowing ample time, but if the needed data has not been received by March 18, 1952, we will then consider the docket closed.

Sincerely yours,

Signed E.W. 2-19-52

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

GLAult/EWEllis/gla
2-18-52
cc to: Adm. Reading File
Docket
Messrs. Johnson, C.H. Rm. 3621
Nelson, Ned Rm. 4216 GS
Ellis
Field Team, Reg. IV (2)

FILE COPY
SURNAME:

310

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

a. z. e.

Mr. George A. Sligh, Jr.
1050 N. Country Club Road
Tucson, Arizona

Re: DMA Docket No. 1781X

Dear Mr. Sligh:

Your application has been reviewed by the Copper Branch of the Defense Minerals Administration. Before we can take any action on your application we would need more information such as: a definite proposal as to the exploration work you plan on doing with any geological or other maps of present work and proposed work. We would also need to know the estimated cost of the project and the amount of money you are prepared to invest. The answers to all questions on Form MF-103 are very pertinent to the processing of your application. No contract for Government assistance can be signed before the necessary information has been supplied. It is therefore essential that you supply us with all the information available.

Very truly yours,

J. B. Gowen

J. B. Gowen, Chief
Copper Branch

Copy to: Administrator's Reading File
Reports and Records Branch
Executive Officer, DMA Field Team IV
Copper Branch
Files - DMA Docket

JWAlt:rw
8-8-51

Mr. George A. Sligh, Jr.
1030 N. Country Club Road
Tucson, Arizona

Re: DMA Docket No. 1781X

Dear Mr. Sligh:

Your application has been reviewed by the Copper Branch of the Defense Minerals Administration. Before we can take any action on your application we would need more information such as: a definite proposal as to the exploration work you plan on doing with any geological or other maps of present work and proposed work. We would also need to know the estimated cost of the project and the amount of money you are prepared to invest. The answers to all questions on Form MF-185 are very pertinent to the processing of your application. No contract for Government assistance can be signed before the necessary information has been supplied. It is therefore essential that you supply us with all the information available.

Very truly yours,

J. B. Gowen

J. B. Gowen, Chief
Copper Branch

Copy to: Administrator's Reading File
Reports and Records Branch
Executive Officer, DMA Field Team IV
Copper Branch
Files - DMA Docket

JWAlt:rw
8-8-51

FILE COPY
SURNAME:

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

July 5, 1951

Mr. George A. Sligh, Jr.
1050 N. Country Club Road
Tucson, Arizona

Subject: DMA-1781X
Re: Exploration Loan
Copper Glance

My dear Mr. Sligh:

Receipt is acknowledged of your application and attachments of July 2, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-1781X and was referred to Mr. J. B. Gowen, Chief, Copper Branch on July 3, 1951.

In any future correspondence relating to your application, kindly refer to DMA-1781X.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

LFSTROBEL:js
cc: Strobel-2
>Files
Gowen
Lyon

DMA 1781

856

Form MF-103
(April 1951)

U. DEPARTMENT OF THE INTERI

DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

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

DO NOT FILL IN THIS BLOCK

Docket No. DMA 1781X

Date received 7-2-51

Participation

Mr. Geo. A. Eliga, Jr.
1050 N. Country Club Rd
Tucson, Arizona

Name and address of applicant

Date

FILL IN THIS BLOCK

Date of application June 1, 1951

Estimated cost

Mineral or metal Copper and Silver

Percentage of Government participation

Location of mine Sierrita Mountains

Date of filing MF-100

DMA Docket Number, if available 1781X

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 2 1951
LANDON F. STROBEL
Executive Secretary

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation? Individual

*2. If a partnership, state names and addresses of partners.

*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.

*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project. 15 yrs work in mines, mills and smelter.

*5. Are you the owner or the lessee of the property? Lessee

6. If owner, state what claims, liens, or encumbrances, if any, are against the property.

7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.

9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

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

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

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

*11. State the present and former names of the property, if any.

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads. (see attached letter Form MF 103)

*13. State source and quantity of water available for operations and its sufficiency at all seasons. Ample for all purposes at mine. (1000 gallons per day) State amount of power to be used, rate per hour or other cost, and source.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work. Refer to #10 above

15. State in detail how the ore could be shipped and how and where milled. Mill to be installed at property, concentrate trucked to Ajo smelter.

*16. History:

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

(*b*) State briefly the known history and production of adjoining and neighboring properties. (see Arizona Bureau of Mines) Bull 725 1921 pp 407

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations. Mills reports

*17. Production:

(*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.) Mills report

(*a*) Describe the ore or mineral deposits briefly.

(*b*) Submit available maps and assay data.

(*c*) Give estimated tonnage and grade of each class of ore reserves.

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

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted? copper occuring in strong qtz. vein

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it. sink 50' and drift 100'

NOTE.—The Government will not participate in a project that will require more than 2 years to complete. Less than 6 mos.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data. Refer to Mills report

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:

(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each. Miner, mucker, topmen, cook.

(*b*) Supervisors, by numbers and positions, with salaries of each.

(*c*) Cost of necessary repairs to existing facilities, structures, and buildings.

(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.

(*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each. compressor

(*f*) Cost of rental for equipment which the operator proposes to rent.

(*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work. $20.00 per day

(*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.

(*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent. See #21 above

CERTIFICATION

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

(Name of company)	By George A Sligh Jr (Signature of authorized official)
June 1 1951 (Date)	owner (Title)

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

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

Forn MF 103

10. (a) One $22\frac{1}{2}$ HP Hoist; One mine car; One Skip;
150 ft. ($1\frac{1}{4}$") pipe; 100 ft. (6") air pipe; 350 Ft track;
One Jack Hammer; Four Drills; One (25ft) hose
Cook house; Sleeping house;

COPPER CLANCE MINE

(Letter in lieu of form MP-100)

A. Kind of material produced:
Copper, carrying minor amount of silver.

B. Location:
Section , Twp. 17 S., Range E, G & S R B M
Papago Mining District, Pima County, Arizona,
about 35 miles by road Southwest of Tucson, Ariz.

C. Number and Types of labor employed:
Tenatively 9 men, 4 miners, 1 cook, 2 top men
2 mill men.

D. Quality and kind of product mined or processed and sold during 1948:
None in 1948
1949 (copy enclosed)(attached)

Copy of letter in my file:

Tucson, Ariz.
May 8, 1949

Mr. Geo. Sligh
Tucson, Ariz.

COPPER GLANCE MINE

Dear Sir:

This letter will briefly review our conversation during yesterdays inspection of your mine.

The mineralization occurs in a Quartz filling of openings in a shist country rock. The main Quartz filling follows the shistosity or shist beds, which run north and south and are very nearly vertical. The quartz has been cross-fractured and this fracturing has been mineralized with copper glance, which has been partially oxidized thru out the vertical range that is now exposed.

Two separate near vertical ore chutes are indicated in the work that you have done so far. Each chute has a width of from 3 to 6 feet and from 20 to 30 feet of strike length. In a deposite of this type, I believe you would find the best chance for ore would be with the downward extention of either of these two ore chutes. I refer you to Brunton sketch that accompanies this letter. From the shipments that you have made, the samples that you reported to me and my observation, the indicated grade of ore the ore chutes as a whole would be around 2 or 3% copper. However since the glance occurs in the small cross-fractures within the main quartz body, the mineral could be hand sorted to a considerable better grade.

You have a working shaft (in excellent condition) which is well located to develop either of the 2 indicated mineralized chutes. Either of these developed at depth may contain small pockets of glance that might be commercial ore.

Very truly yours,

(Signed) M. B. Mills,
Reg. Mining Engineer

As a summarization I would say that your mine is about the average gamble that one would find today in mining. This in my estimation means that you might follow either of the two plans:

1st. (as you have already suggested) Find someone that would be willing to risk their time and money on the venture for a major share in possible profits.

2nd. Be in a position to spend 10 to $50,000 on a long chance of finding sizable bodies ore.

M. B. Mills,
1045 N. 9th Ave.
Tucson, Ariz.

Form MF-103
(April 1951)

U. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

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

DO NOT FILL IN THIS BLOCK

Docket No. DMA 1781X

Date received 7-2-51

Participation

Mr. Geo. A. Sligh, Jr.
1050 N. Country Club Rd
Tucson, Arizona

Name and address of applicant

Date

FILL IN THIS BLOCK

Date of application June 1, 1951

Estimated cost

Mineral or metal Copper and Silver

Percentage of Government participation

Location of mine Sierrita Mountains

Date of filing MF-100

DMA Docket Number, if available 1781X

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 2 1951
LANDON F. STROBEL
Executive Secretary

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation? Individual
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project. 15 yrs work in mines, mills and smelters.
*5. Are you the owner or the lessee of the property? Lessee
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

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

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

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

*11. State the present and former names of the property, if any.

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads. (see attached letter Form MF 103)

*13. State source and quantity of water available for operations and its sufficiency at all seasons. Ample for all purposes at mine (1000 gals. pr. day) State amount of power to be used, rate per hour or other cost, and source.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work. See #10 above

15. State in detail how the ore could be shipped and how and where milled. Mill to be installed at property, concentrate trucked to Ajo smelter

*16. History:

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

(*b*) State briefly the known history and production of adjoining and neighboring properties. (see Ariz. Bureau of Mines Bull. 725 1921 pp 407

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations. Mills report

*17. Production:

(*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.) See Mills

(*a*) Describe the ore or mineral deposits briefly.

(*b*) Submit available maps and assay data.

(*c*) Give estimated tonnage and grade of each class of ore reserves.

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

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted? Copper, occuring in strong qtz. vein

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it. Sink 50' and drift 100'

NOTE.—The Government will not participate in a project that will require more than 2 years to complete. (less than 6 mos)

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data. refer to Mills report

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:

(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each. Miner, mucker, topman, cook

(*b*) Supervisors, by numbers and positions, with salaries of each.

(*c*) Cost of necessary repairs to existing facilities, structures, and buildings.

(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.

(*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.

(*f*) Cost of rental for equipment which the operator proposes to rent.

(*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work. $20.00 per day

(*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.

(*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent. Refer to #21 above

CERTIFICATION

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

(Name of company)

By George A Sligh Jr
(Signature of authorized official)

(Date)

Owner
(Title)

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

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

COPPER GLANCE MINE

(Letter in lieu of form MF-100)

A. Kind of material produced:
Copper, carrying minor amount of silver.

B. Location:
Section , Twp. 17 S., Range E, G & S R B M
Papago Mining District, Pima County, Arizona,
about 35 miles by road Southwest of Tucson, Ariz.

C. Number and Types of labor employed:
Tenatively 9 men, 4 miners, 1 cook, 2 top men
2 mill men.

D. Quality and kind of product mined or processed and sold during 1948:
None in 1948
1949 (copy enclosed)(attached)

Form MF 103

10. (a) One 22½ HP Hoist; One mine car; One Skip;
150 ft. (1¼") pipe; 100 ft. (6") air pipe; 350 Ft track;
One Jack Hammer; Four Drills; One (25ft) hose
Cook house; Sleeping house;

Copy of letter in my file:

Tucson, Ariz.
May 8, 1949

Mr. Geo. Sligh
Tucson, Ariz.

COPPER GLANCE MINE

Dear Sir:

This letter will briefly review our conversation during yesterdays inspection of your mine.

The mineralization occurs in a Quartz filling of openings in a shist country rock. The main quartz filling follows the shistosity or shist beds, which run north and south and are very nearly vertical. The quartz has been cross-fractured and this fracturing has been mineralized with copper glance, which has been partially ozidized thru out the vertical range that is now exposed.

Two separate near vertical ore chutes are indicated in the work that you have done so far. Each chute has a width of from 3 to 6 feet and from 20 to 30 feet of strike length. In a deposite of this type, I believe you would find the best chance for ore would be with the downward extention of either of these two ore chutes. I refer you to Brunton sketch that accompanies this letter. From the shipments that you have made, the samples that you reported to me and my observation, the indicated grade of ~~ore~~ the ore chutes as a whole would be around 2 or 3% copper. However since the glance occurs in the small cross-fractures within the main quartz body, the mineral could be hand sorted to a considerable better grade.

You have a working shaft (in excellent condition) which is well located to develop either of the 2 indicated mineralized chutes. Either of these developed at depth may contain small pockets of glance that might be commercial ore.

Very truly yours,

(Signed) M. B. Mills,
Reg. Mining Engineer

As a summarization I would say that your mine is about the average gamble that one would find today in mining. This in my estimation means that you might follow either of the two plans:

1st. (as you have already suggested) Find someone that would be willing to risk their time and money on the venture for a major share in possible profits.

2nd. Be in a position to spend 10 to $50,000 on a long chance of finding sizable bodies ore.

M. B. Mills,
1045 N. 9th Ave.
Tucson, Ariz.

FORM 2A—2674—10-10-41—R & G

AMERICAN SMELTING AND REFINING COMPANY
HAYDEN PLANT

Shipper COPPER GLANCE MINING CORP. **Hayden, Arizona,** April 21, **19** 49

Address 3100 East Speedway, Tucson, Arizona **Smelter Lot** 181

Shipping Point Tucson, Arizona **Class** **Shipper's Lot** 1

CAR Copper Glance Mine **WEIGHT IN POUNDS**

Number	Initial	Gross	Tare	Net	H_2O	Dry Weight
Trucked 1074	NC	53020	43180	9840	1.	9742
			Tons	4.9200		4.8710

N. Y. QUOTATIONS

Settlement Date 4-18-49
Bill Lading Date

Silver .9000
Less .015
Net .8850
Copper .22125
Less .03
Net .19125

PAYMENT FOR METALS — **VALUE**

Elements	Assay Per Ton of 2000 Lbs.		Deducted	Net Assay	Equiv. in Lbs.	% Paid For	Net Paid For		Rate	Amount per Ton	Total Amount
Gold	.007	Oz.		No pay				Oz.			
Silver	3.92	Oz.	.5	3.42		100	3.42	Oz.	.88500	3.03	
Copper	4.53	%	.4	4.13	82.60	95	78.47	Lbs.	.19125	15.01	
		%						Lbs.			
							Total Payment of Metals				18.0

CHARGES AND CREDITS

	Debits	Credits
BASE CHARGE: F.O.B. Hayden for Metal Payments, not exceeding $ 15.00 per ton	4.50	
10 % of $ 3.04 excess over $ 15.00 per ton - - - - -	.30	
Bul Trans. Tax on 78.47 lbs @ .00032	.03	
Silica Credit		1.00

Analysis			Deduction	Net			
Insoluble	86.5	%			%	@	cts.
Silica	83.5	%			%	@	cts.
Alumina	2.6	%			%	@	cts.
Zinc		%			%	@	cts.
Sulphur		%			%	@	cts.
Iron	1.6	%			%	@	cts.
Lime	1.5	%			%	@	cts.
		%			%		

Total Deductions		3.8
Net Value Per Ton		14.2

			Debits	Credits
Total Value on 4.8710	Dry Tons @ 14.21	Per Ton		69.2
Less Freight on 4.9200	Wet Tons @ Trucked	Per Ton		
" Sampling charge			6.00	
		Balance Due Shipper	63.22	

Made by Checked Correct Approved

AMERICAN SMELTING AND REFINING COMPANY
HAYDEN PLANT

Shipper [illegible] Hayden, Arizona, April [illegible] 19[illegible]

Address [illegible] Smelter Lot [illegible]

Shipping Point [illegible] Class [illegible] Shipper's Lot [illegible]

CAR		WEIGHT IN POUNDS					N. Y. QUOTATIONS
Number	Initial	Gross	Tare	Net	H_2O	Dry Weight	
TUCKER [illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Settlement Date [illegible]
							Bill Lading Date
							Silver [illegible]
							Less [illegible]
							Net [illegible]
							Copper [illegible]
							Less [illegible]
							Net [illegible]
					Tons	[illegible]	

PAYMENT FOR METALS

Elements	Assay Per Ton of 2000 Lbs.		Deducted	Net Assay	Equiv. in Lbs.	% Paid For	Net Paid For		Rate	Amount per Ton	Total Amount
Gold	[illegible]	Oz.		[illegible]				Oz.			
Silver	[illegible]	Oz.	[illegible]	[illegible]		[illegible]	[illegible]	Oz.	[illegible]	[illegible]	[illegible]
Copper	[illegible]	%	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Lbs.	[illegible]	[illegible]	[illegible]
		%						Lbs.			
Total Payment of Metals											[illegible]

CHARGES AND CREDITS

	Debits	Credits
BASE CHARGE: F.O.B. Hayden for Metal Payments, not exceeding $ [illegible] per ton	[illegible]	
[illegible] % of $ [illegible] excess over $ [illegible] per ton	[illegible]	
[illegible]		
[illegible]		[illegible]

Analysis			Deduction	Net			
Insoluble	[illegible]	%				% @	cts.
Silica	[illegible]	%				% @	cts.
Alumina	[illegible]	%				% @	cts.
Zinc		%				% @	cts.
Sulphur		%				% @	cts.
Iron	[illegible]	%				% @	cts.
Lime	[illegible]	%				% @	cts.
		%				%	

	Debits	Credits
Total Deductions	[illegible]	
Net Value Per Ton	[illegible]	

Total Value on [illegible]	Dry Tons @ [illegible]	Per Ton	[illegible]
Less Freight on [illegible]	Wet Tons @ [illegible]	Per Ton	[illegible]
" Sampling [illegible]			[illegible]
Balance Due Shipper			[illegible]

Made by Checked Correct Approved

Copy of letter in my file:

Tucson, Ariz.
May 8, 1949

Mr. Geo. Sligh
Tucson, Ariz.

COPPER GLANCE MINE

Dear Sir:

This letter will briefly review our conversation during yesterdays inspection of your mine.

The mineralization occurs in a Quartz filling of openings in a shist country rock. The main quartz filling follows the shistosity or shist beds, which run north and south and are very nearly vertical. The quartz has been cross-fractured and this fracturing has been mineralized with copper glance, which has been partially ozidized thru out the vertical range that is now exposed.

Two separate near vertical ore chutes are indicated in the work that you have done so far. Each chute has a width of from 3 to 6 feet and from 20 to 30 feet of strike length. In a deposite of this type, I believe you would find the best chance for ore would be with the downward extention of either of these two ore chutes. I refer you to Brunton sketch that accompanies this letter. From the shipments that you have made, the samples that you reported to me and my observation, the indicated grade of ~~ore~~ the ore chutes as a whole would be around 2 or 3% copper. However since the glance occurs in the small cross-fractures within the main quartz body, the mineral could be hand sorted to a considerable better grade.

You have a working shaft (in excellent condition) which is well located to develop either of the 2 indicated mineralized chutes. Either of these developed at depth may contain small pockets of glance that might be commercial ore.

Very truly yours,

(Signed) M. B. Mills,
Reg. Mining Engineer

As a summarization I would say that your mine is about the average gamble that one would find today in mining. This in my estimation means that you might follow either of the two plans:

1st. (as you have already suggested) Find someone that would be willing to risk their time and money on the venture for a major share in possible profits.

2nd. Be in a position to spend 10 to $50,000 on a long chance of finding sizable bodies ore.

M. B. Mills,
1045 N. 9th Ave.
Tucson, Ariz.

-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 3-20-52

REFERRED TO:

1. Code 700 - Rm. 4640
2.
3.
4.

FOR:

---------- Action	---------- Recommendation
---------- Approval	---------- Record of ----------
---------- Comment	---------- Referring to ----------
---------- Conference	---------- Reply for signature of ----------
---------- Consideration	---------- Rewriting
---------- Filing	---------- Signature
---------- Instructions	---------- Suggestions
---------- Investigation	---------- Your information
---------- Initials	
---------- Mailing	
---------- Previous correspondence	

REMARKS: Note to Engineer — Just one copy of this 0103 was used; consequently, the information has not been sent to USGS + USBM

Check (X) before the items needing attention. Mrs. Curtis

Adams (AW)
Initials of sender.

GPO 16—63815-1

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

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

DO NOT FILL IN THIS BLOCK

Docket No. dmea 1781

Date received 3-20-52

Participation

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 20 1952

George A. Sligh, Jr.
1050 N. Country Club Road
Tucson Ariz.

Name and address of applicant

Date

FILL IN THIS BLOCK

Date of application June 1 1951

Estimated cost

Mineral or metal

Percentage of Government participation

Location of mine Sec. ~~12x~~ Twp 17 S. Rge. 10 E G & S. R. B. M.
Papago Mining Dist. Pima County, Ariz.
about 35 miles by road SW of Tucson, Ariz.

Date of filing MF-100 June 1, 1951

DMA Docket Number, if available 1781X(copper)

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation? Individual
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project. 15 yrs work in mines, mills and smelters
*5. Are you the owner or the lessee of the property? owner
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.
    (*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

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

*11. State the present and former names of the property, if any.

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads. (see attached letter, form MF-100

*13. State source and quantity of water available for operations and its sufficiency at all seasons. Ample for all purposes at mine (1000 gal per day) State amount of power to be used, rate per hour or other cost, and source.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work. refer to 10 above

15. State in detail how the ore could be shipped and how and where milled. mill to be installed at property, concentra trucker to Ajo smelter

*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations. Bull 725-1921 page 407
    (*b*) State briefly the known history and production of adjoining and neighboring properties. (See Arizona Bureau of Mines
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations. T. A. Dodge and Mills reports

*17. Production:
    (*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*		*Cost per ton*		*Net value per ton*
(1) Mining						
(2) Milling	~~4.53~~	~~3.92~~	.007	83.5	2.3	
(3) Shipped or sold						

*18. Ore or mineral reserves: (If property is or has been operating.) see T. A. Dodge or Mills repr.
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.

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

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted? copper, occuring in strong qtz, vein

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it. sink 50' and drift 100' (less than 6 mos.)

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data. Refer to Mills report

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:
    (*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each. Miner, mucker, topman, cook
    (*b*) Supervisors, by numbers and positions, with salaries of each.
    (*c*) Cost of necessary repairs to existing facilities, structures, and buildings.
    (*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.
    (*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each. compressor
    (*f*) Cost of rental for equipment which the operator proposes to rent.
    (*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work. 20.00 per day
    (*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.
    (*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent. refer to 21 above

CERTIFICATION

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

Copper Glance Mining Co. (Name of company)

By Mildred J. Leigh (Signature of authorized official)

2-21-52 (Date)

Owner (Title)

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

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

HOMES • BUSINESS • RANCHES • ACREAGE • INSURANCE • FINANCING • PROPERTY MANAGEMENT

SLIGH REALTY

1050 N. COUNTRY CLUB AT SPEEDWAY • TUCSON, ARIZONA

Mildred J. Sligh BROKER

TELEPHONE 8-2646

February 22, 1952

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

Re: Docket No DMA 1781x
Copper Glance Mine
Pima County, Arizona

Dear Mr. Ellis:

The stumbling block was to get a map drawn of the property and the proposed development. We contacted Mr. Setton Williams, Registered Geogolist, and asked him to prepare the things that would meet with your approval, but to date due to earlier committments, Mr. Williams has not supplied us with that information.

With this letter I am enclosing the form filled in to the best of my ability. Pursuant to the question in the letter of August 1951, we need a loan in the amount of $10,000.00, which we are prepared to match.

In June 1951, we filled out MF-103 with the assistance of Mr. T. A. Dodge and Mr. Setton Williams, since that time we have purchased the said property, which is the only change in that status, we attached a letter in lieu of form MF-100. Beyond supplying you with maps, we are at a loss as to what more is expected of us. We do not wish to have the docket closed under any circumstances before it is completed.

I wish to take this opportunity to thank you for your letter of February 19th and trust that I shall hear from you in the very near future. I am enclosing a letter written to Mr. Setton Williams, relative to this matter.

Very truly yours,

Mildred Sligh

C.C. encl.

COPPER GLANCE MINE

(letter in lieu of form MF-100

A. Kind of material produced:
Copper, carrying minor amount of silver

B. Location:
Section 17 Twp 17 S. Rge. 10 E G & S R B M.
Papago Mining Dist. Pima County, Arizona
about 35 miles by road southwest of Tucson, Ariz.

C. Number and Types of labor employed:
Tenatively 9 men, 4 miners, 1 cook 2 topmen, 2 millmen.

D. Quality and kind of product mined or processed and sold during 1948.
None in 1948
1949 (Copy enclosed, attached.)

Form MF 103

10. 1 $22\frac{1}{2}$ H.P. Hoist; 1 mine car; 1 Skip; 350' track; 150' ($1\frac{1}{4}$) pipe

100' airpipe (6"); 1 Jack Hammer; 4 Drills; 1 (25') hose; Cook house
Sleeping house.

February 22, 1952

Mr. Seton S. Williams
635 N. 3rd Ave.
Tucson, Ariz.

Dear Mr. Williams:

We have a letter under date of February 19th, from the Department of Interior (Defense Minerals Administration) requesting the information that was asked for under their letter of August 1951.

In order to comply with their request, we must submit the geological or other maps of present work and proposed work which we have talked to you about on the Copper Glance.

May I ask that you at your earliest convenience follow through and prepare said maps etc. in order that we might comply with Mr. Ellis' request.

Yours very truly,

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

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

DO NOT FILL IN THIS BLOCK

Docket No. DMA 1781X

Date received 7-2-51

Participation

Mr. Geo. A. Sligh, Jr.
1050 N. Country Club Rd
Tucson, Arizona

Name and address of applicant

Date

FILL IN THIS BLOCK

Date of application June 1, 1951

Estimated cost

Mineral or metal Copper and Silver

Percentage of Government participation

Location of mine Sierrita Mountains

Date of filing MF-100

DMA Docket Number, if any 1781X

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 2 1951
LANDON F. STROBEL
Executive Secretary

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation? Individual

*2. If a partnership, state names and addresses of partners.

*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.

*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project. 15 yrs work in mines, mills and smelter.

*5. Are you the owner or the lessee of the property? Lessee

6. If owner, state what claims, liens, or encumbrances, if any, are against the property.

7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.

9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

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

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

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

*11. State the present and former names of the property, if any.

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads. (see attached letter form MF 102)

*13. State source and quantity of water available for operations and its sufficiency at all seasons. Ample for all purposes at mine. (1000 gallons per day) State amount of power to be used, rate per hour or other cost, and source.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work. Refer to #10 above

15. State in detail how the ore could be shipped and how and where milled. Mill to be installed at property, concentrate trucked to Ajo smelter.

*16. History:

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

(*b*) State briefly the known history and production of adjoining and neighboring properties. (see Arizona Bureau of Mines) Bull 725 1921 p 407

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations. Mills reports

*17. Production:

(*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.) Mills report

(*a*) Describe the ore or mineral deposits briefly.

(*b*) Submit available maps and assay data.

(*c*) Give estimated tonnage and grade of each class of ore reserves.

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

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted? copper occuring in strong qtz. vein

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it. sink 50' and drift 100'

NOTE.—The Government will not participate in a project that will require more than 2 years to complete. Less than 6 mos.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data. Refer to Mills report

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:

(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each. Miner, mucker, topmen, cook.

(*b*) Supervisors, by numbers and positions, with salaries of each.

(*c*) Cost of necessary repairs to existing facilities, structures, and buildings.

(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.

(*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each. compressor

(*f*) Cost of rental for equipment which the operator proposes to rent.

(*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work. $20.00 per day

(*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.

(*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent. See #21 above

CERTIFICATION

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

(Name of company)

By George A Sligh Jr
(Signature of authorized official)

June 1, 1951
(Date)

Owner
(Title)

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

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

COPPER GLANCE MINE

(Letter in lieu of form MP-100)

A. Kind of material produced:
Copper, carrying minor amount of silver.

B. Location:
Section , Twp. 17 S., Range R, G & S R B M
Papago Mining District, Pima County, Arizona,
about 35 miles by road Southwest of Tucson, Ariz.

C. Number and Types of labor employed:
Tenatively 9 men, 4 miners, 1 cook, 2 top men
2 mill men.

D. Quality and kind of product mined or processed and sold during 1948:
None in 1948
1949 (copy enclosed)(attached)

Form MF 103

10. (a) One $22\frac{1}{2}$ HP Hoist; One mine car; One Skip;
150 ft. ($1\frac{1}{4}$") pipe; 100 ft. (6") air pipe; 350 Ft track;
One Jack Hammer; Four Drills; One (25ft) hose
Cook house; Sleeping house;

Copy of letter in my file:

Tucson, Ariz.
May 8, 1949

Mr. Geo. Sligh
Tucson, Ariz.

COPPER GLANCE MINE

Dear Sir:

This letter will briefly review our conversation during yesterdays inspection of your mine.

The mineralization occurs in a Quartz filling of openings in a shist country rock. The main Quartz filling follows the shistosity or shist beds, which run north and south and are very nearly vertical. The quartz has been cross-fractured and this fracturing has been mineralized with copper glance, which has been partially oxidized thru out the vertical range that is now exposed.

Two separate near vertical ore chutes are indicated in the work that you have done so far. Each chute has a width of from 5 to 6 feet and from 20 to 30 feet of strike length. In a deposite of this type, I believe you would find the best chance for ore would be with the downward extention of either of these two ore chutes. I refer you to Brunton sketch that accompanies this letter. From the shipments that you have made, the samples that you reported to me and my observation, the indicated grade of one the ore chutes as a whole would be around 2 or 3% copper. However since the glance occurs in the small cross-fractures within the main quartz body, the mineral could be hand sorted to a considerable better grade.

You have a working shaft (in excellent condition) which is well located to develop either of the 2 indicated mineralized chutes. Either of these developed at depth may contain small pockets of glance that might be commercial ore.

Very truly yours,

(Signed) M. B. Mills,
Reg. Mining Engineer

As a summarization I would say that your mine is about the average gamble that one would find today in mining. This in my estimation means that you might follow either of the two plans:

1st. (as you have already suggested) Find someone that would be willing to risk their time and money on the venture for a major share in possible profits.

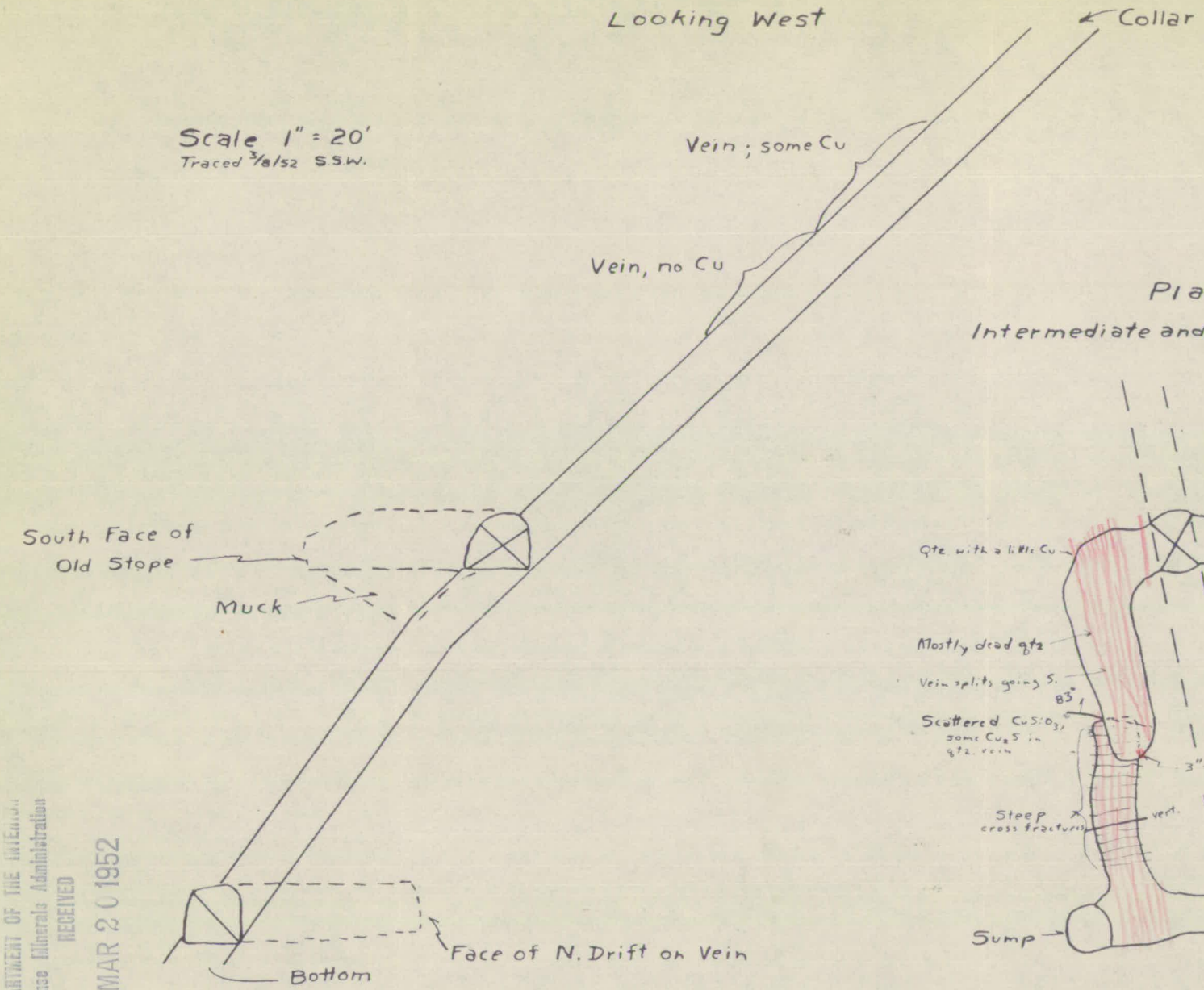
2nd. Be in a position to spend 10 to $50,000 on a long chance of finding sizable bodies ore.

M. B. Mills,
1045 N. 9th Ave.
Tucson, Ariz.

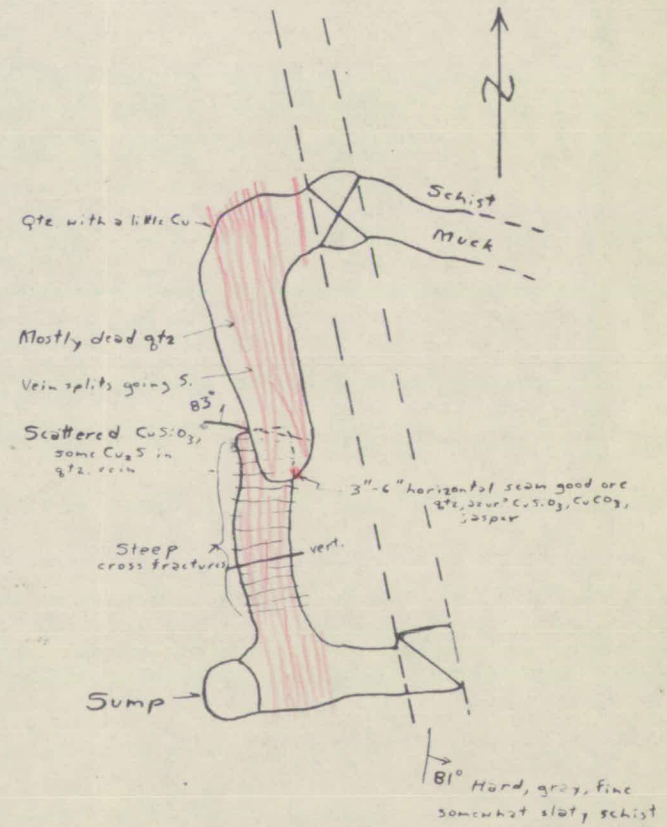
COPPER GLANCE PROSPECT

Section Thru Shaft
Looking West

Scale 1" = 20'
Traced 3/8/52 S.S.W.



Plan
Intermediate and Bottom Levels



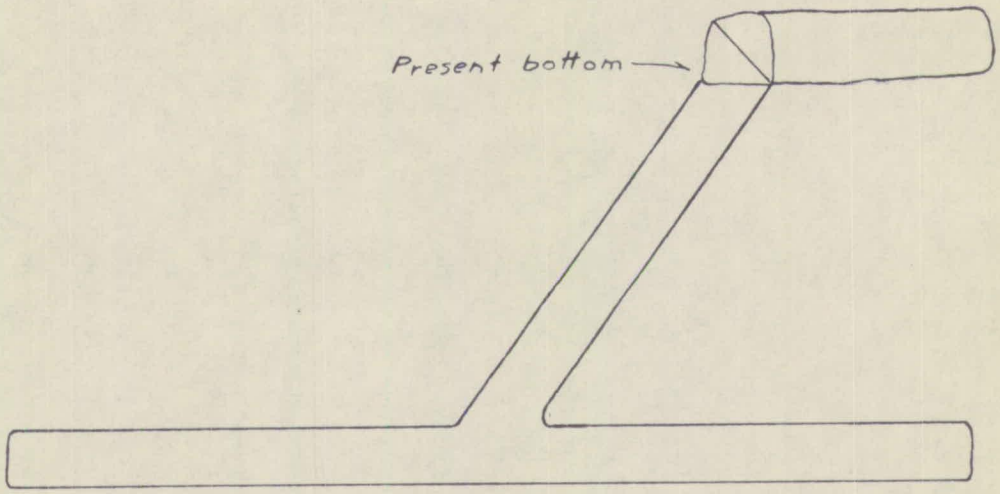
DMA Docket No. 1781 X
DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 20 1952

COPPER GLANCE PROSPECT

Proposed work:

1. Sink 50 ft. in vein (offset from present shaft)
2. Drift 50 ft. north and south in vein from bottom of exploration shaft

Section thru Proposed Exploration Workings
Looking West
Scale 1" = 20'



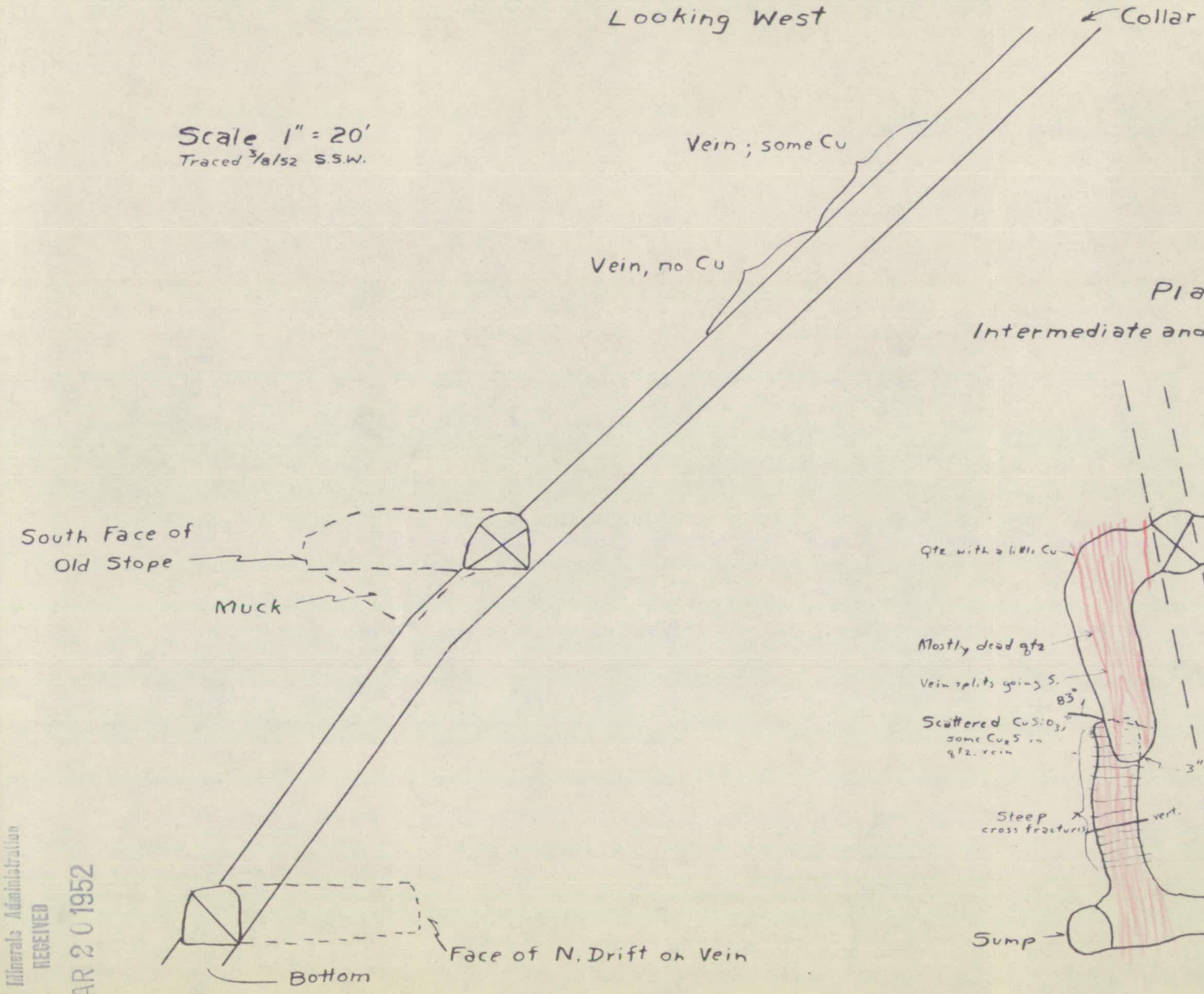
DMA Docket No. 1781 X

3-8-52
S.S.W.

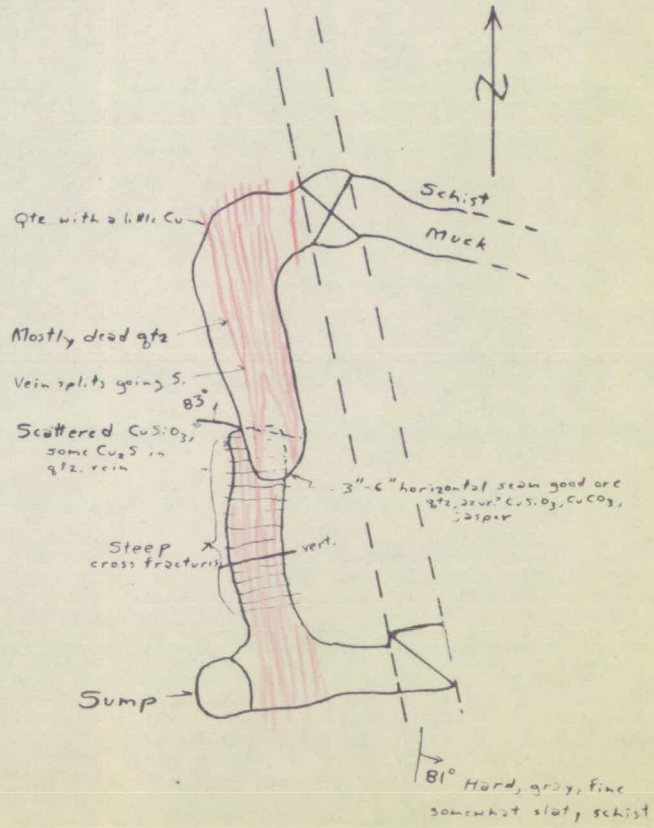
COPPER GLANCE PROSPECT

Section Thru Shaft
Looking West

Scale 1" = 20'
Traced 3/8/52 S.S.W.



Plan
Intermediate and Bottom Levels



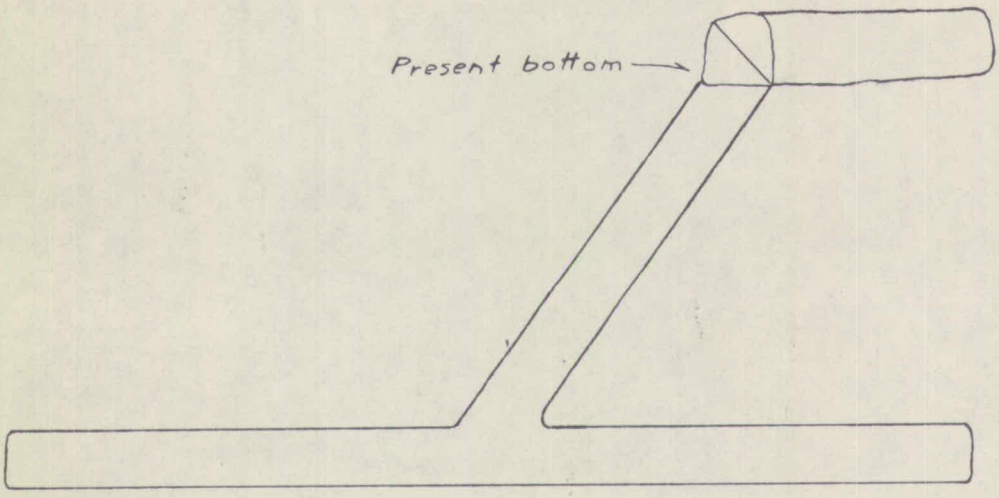
DMA Docket No. 1781 X
DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 20 1952

COPPER GLANCE PROSPECT

Proposed work:

1. Sink 50 ft. in vein (offset from present shaft)
2. Drift 50 ft. north and south in vein from bottom of exploration shaft

Section thru Proposed Exploration Workings
Looking West
Scale 1" = 20'

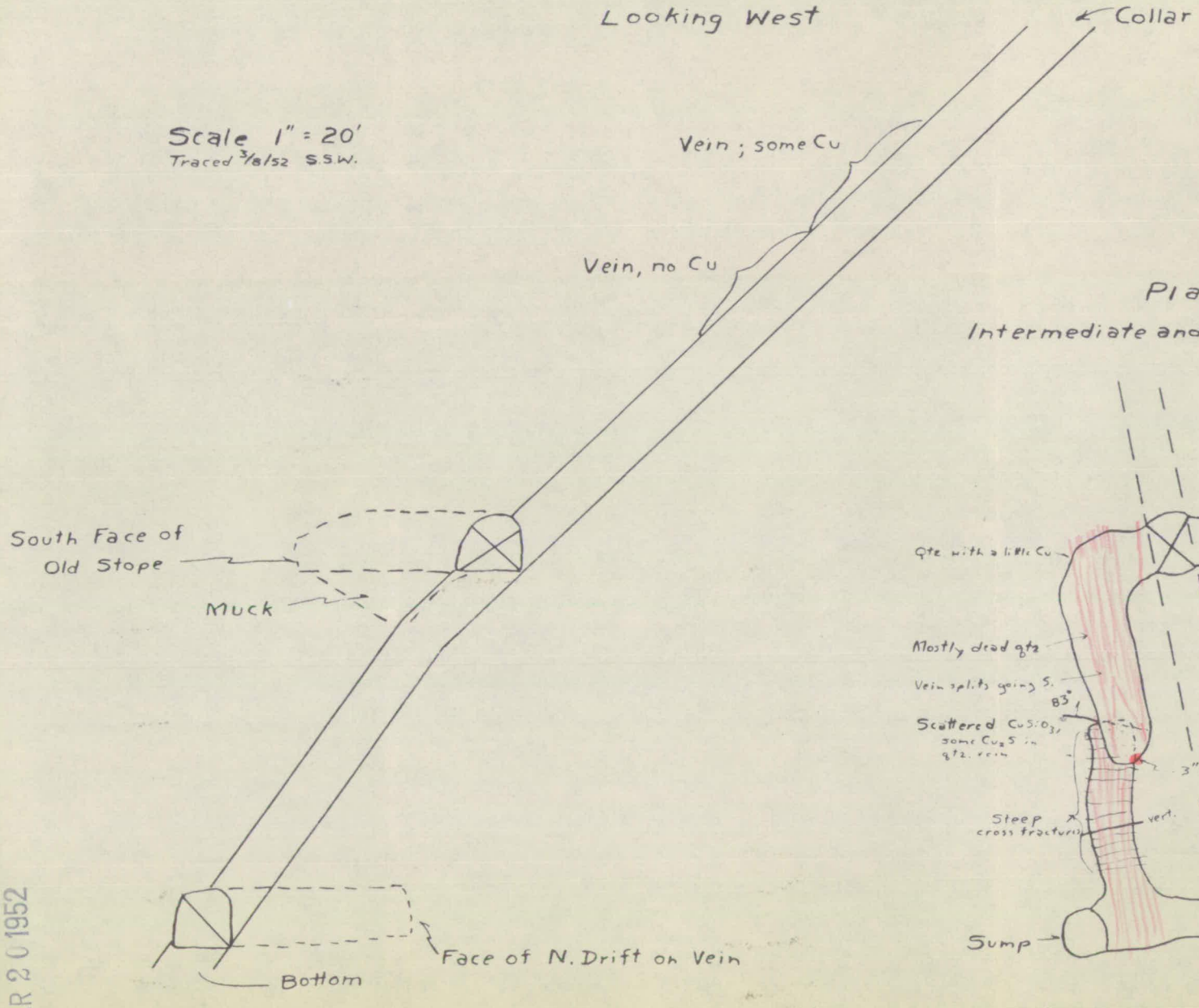


3-8-52
S.S.W.

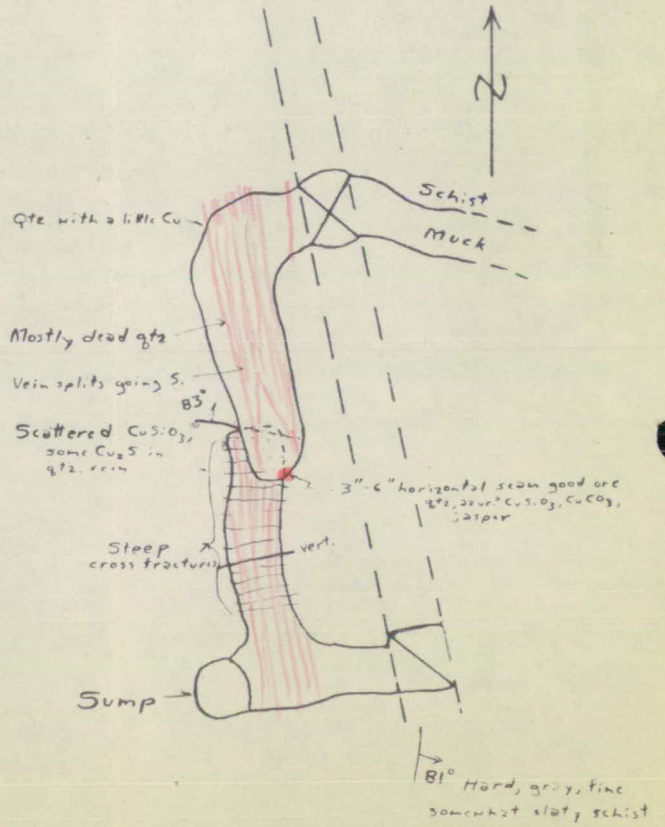
COPPER GLANCE PROSPECT

Section Thru Shaft
Looking West

Scale 1" = 20'
Traced 3/8/52 S.S.W.



Plan
Intermediate and Bottom Levels



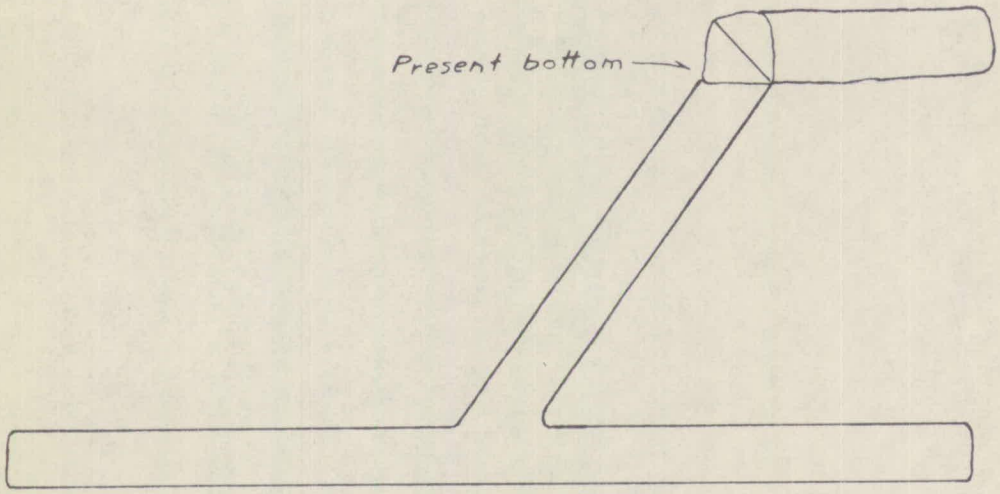
DMA Docket No. 1781 X
DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 20 1952

COPPER GLANCE PROSPECT

Proposed work:

1. Sink 50 ft. in vein (offset from present shaft)
2. Drift 50 ft. north and south in vein from bottom of exploration shaft

Section thru Proposed Exploration Workings
Looking West
Scale 1" = 20'



3-8-52
S.S.W.