



CONTACT INFORMATION
Mining Records Curator
Arizona Geological Survey
416 W. Congress St., Suite 100
Tucson, Arizona 85701
520-770-3500
<http://www.azgs.az.gov>
inquiries@azgs.az.gov

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REPORT OF SUPERVISING ENGINEER

Docket No. ND 8241
Date Authorization for Examination
Received Local Application
Date of Examination.April 14, 1943
Date of ReportApril 22, 1943

1. NAME AND ADDRESS OF APPLICANT

Name: A. H. Warner
Address: 75 E. Alameda Street
City & State: Tucson, Arizona
Correspondent: Same

2. CHARACTER OF PROJECT

To make accessible a shaft in a copper mine.

3. LOCATION OF MINE

Mackay Mine, Johnson District
Township Range, Section - Undetermined Section
T-155, R-22 E, G & S.R.B. & M.
County and State: Cochise County, Arizona
Name and distance by road to nearest Railway Station:
Draoon, a town on the Southern Pacific Railroad,
is 8 miles south of the property, by well-graded
dirt road.

Condition and seasonal accessibility of road, mine to
railway:

This is a well graded dirt road that should be accessi-
ble at all times of the year.

4. APPLICANT

The applicant is a middle-aged, energetic newspaper man
who appears sincere in his desire to operate this proper-
ty. He has been dabbling in mines for some years and has
also been engaged in the buying and selling of used mining
machinery as a side line. He informed me that he has al-
ready spent about \$900.00 in rehabilitating the shaft
from the surface to the 80' level. Work, to-date, has
been well and cheaply done. He now employes three
elderly miners who seem to be good workers. I believe
the applicant is capable of operating a small copper
mine. The applicant also informed me he would not
require any salary under a loan, as he is now employed
part time by a newspaper and wanted to spend all his
loan money on underground development.

5. LOAN REQUESTED

The applicant requested a loan of \$5,000.00, but after I
inspected his property and discussed the matter with him,
he has agreed that \$1,000.00 will be sufficient to make
accessible the 200' (bottom) level of the mine. A letter

from the applicant confirming this statement is attached to this Report.

6. DESCRIPTION OF PROJECT

A. General Features

A copy of this applicant's lease accompanies the application. The lease calls for 60 shifts per month, 10% royalty and no cash payments. The lease expires on February 15, 1948, but the property can be bought before this expiration date for \$20,000.00 in cash, not including the royalty payments.

B. Existing Development

The mine is developed by a 200' inclined shaft and the applicant has rehabilitated this shaft to the 80' level. Below this point, the shaft is inaccessible, although it is reported that the 200' level was in good ore.

The 80' level consists of an irregular drift extending about 100' to the Northwest and about 75' to the Southeast. All available ore above this level has been stoped and there are indications that the floor of this drift has been underhand stoped. The 80' level is partly filled with broken waste rock, so the character of the vein in the floor of this drift can not be determined.

The ore occurs as chalcocite and malachite in irregular replacement lenses in a partly silicified limestone. There is no regular vein, but merely erratic and discontinuous bodies of ore along a poorly developed shear zone. There is no ore left to sample on this level, except low-grade patches left on the sides of the stope.

Sample No. 1-B was taken across 1.5' and at the Southeast face of the 80' level. This ore body apparently dipped about 30° to the East. This sample ran 5.9 oz. of silver, a trace of gold and 13.70% copper.

Sample No. 2-B was taken across 1.5' and at the Northwest face of the 80' level. This sample ran a trace of silver, 0.01 oz. of gold (\$0.35) and 4.64% copper.

A copy of the Assay Report accompanies this Report, as well as a sketch map of the underground workings.

This mine bears little or no geological relationship to the Republic or to the Mammoth Mines, as it is in a different series of limestones and the ore occurrences are entirely dissimilar. However, the Mackay Mine covered by this Report is apparently on the same ore horizon as the adjoining Peabody Mine which produced 3,000,000 lbs. of copper from relatively shallow depths from the year 1882 to 1915. In fact, a series of small open cuts and trenches, from which minor amounts of copper ore have been shipped, extend along the outcrop between the Peabody and Mackay Mines. It is chiefly for this reason that I believe this project is worthy of an expenditure of a small amount of money in order to make accessible the 200' level of the mine.

Any ore produced from this operation would have to be shipped to a custom copper smelter, as it is not amenable to flotation in a custom mill, as suggested by the applicant.

I discussed the program with applicant at the time of my visit to the mine and he agrees with me that \$1,000.00 would be sufficient to install ladders in the shaft from the 80' to the 200' level. No timbering would be necessary except stulls along the footwall of the shaft in order to hold the ladders in place. If any muck is found in the bottom of the shaft it could easily be hoisted in small buckets powered by a small rented hoist. I do not believe that the meager information available on this lower level and the ore showings on the 80' level justify a loan larger than \$1,000.00 and I feel sure the work can be done for that. Until this lower level has been made accessible for sampling, I do not believe an intelligent evaluation of this property can be made.

There is no equipment on the property, nor does the applicant intend to purchase any under this loan.

COMMENTS OF SUPERVISING ENGINEER

I recommend that a \$1,000.00 loan be granted this project in order to make the 200' level of the shaft accessible. The basis for this recommendation is the fact that the upper level of this shaft contained high grade copper shipping ore, the property adjoins a large producer of copper and the geology of the mine is favorable for the occurrence of high grade lenses of copper ore at depth.

WM. B. MAITLAND
Supervising Engineer

Report of Supervising Engineer

22E
155

Docket No ND 8241 ^{enix}

Date Authorization for Exam

Recd. - Local application

Date of Examination April 14, 1943

Date of Report April 22, 1943

1. Name + Address of Applicant

Name - A. H. Warner

Address - 75 E Alameda St.

City + State - Tucson, Ariz.

Correspondent - Same

2. Character of Project

To make accessible a ~~new~~ shaft in a copper mine

3. Location of mine Makay Mine, Johnson District

Township Range, section - Undetermined Section T15S, R22E

G + S. R. B + M.

County and State - Cochise Co., Arizona

Name + distance by Road nearest Railway Station -

Dragoon a town on the Southern

Pacific Railroad is 8 miles south of the property by well graded dirt road.

Conditions and seasonal accessibility of road, mine to railway - This is a well graded dirt road that should be accessible at all times of the year.

(1)

4 Applicant

The applicant a middle aged energetic newspaper man appears sincere in his desire to operate this property. He has been dabbling in mines for some years and has also been ~~be~~ engaged in the buying and selling of used mining machinery as a side line. He informed me that he has already spent about \$900 in rehabilitating the shaft from the surface to the 80 foot level, work to date has been well and cheaply done. He now employs three elderly miners who seem ^{to be good workers} to know their business. I believe the applicant is capable of operating a small copper ~~per~~ mine. The applicant also informed me he would not require any salary under a loan as he ~~had~~ ^{is} now employed part time by a newspaper and wanted to spend all his ^{loan} money on underground development.

5. Loan Requested

(2) The applicant requested a loan of \$5000 but after I inspected his property and discussed the matter with him he has agreed that \$3000 will be sufficient to make accessible the 200 foot (bottom) level of the mine. A letter from the applicant confirming this statement is attached to this report.

6 Description of Project

A General Features

A copy of the applicants lease accompanies the application. The lease calls for 60 shifts per month, 10% royalty, and no cash payments. The lease expires on Feb 15, 1948 but the property can be bought before the expiration date for \$20,000 in cash not including the royalty payments.

B Existing Development

The mine is developed by a 200 foot inclined shaft and the applicant has rehabilitated this shaft to the 80 foot level. Below this point the shaft is inaccessible altho it is reported that the 200 foot level was in good ore.

The 80 foot level consists of an irregular drift extending about 100 feet to the North west and about 75 feet to the South east. All available ore above this level has been stoped and there are indications that the floor of this drift has been underhand stoped. ~~altho~~ The 80 foot level is partly filled with broken waste rock so the character of the vein in the floor of this drift cannot be determined.

The ore occurs as chalcocite and malachite in irregular replacement lenses in a partly silicified limestone. There is no regular vein but merely ~~are~~ erratic and discontinuous bodies of ore along a poorly developed shear zone. There is no ore left to sample on this level except low grade patches left on the sides of

(3)

The slope

Sample No 1B was taken across 1.5 feet and at the South east face of ~~the~~ the 80 foot level. This ore body apparently dipped about 60° to the east. This sample ran 5.9 oz of silver, a trace of gold, and 13.70 % Copper

Sample No 2B was taken across 1.5 feet and at the Northwest face of the 80 foot level. This sample ran a trace of silver, 0.01 oz of gold (\$0.35) and 4.64 % copper.

A copy of the assay report accompanies this report as well as a sketch map of the underground workings.

This mine bears little or no ~~set~~ geological relationship to the Republic or to the Mammoth mines as it is in a different series of limestones and the ore occurrences are entirely dissimilar.

However the Mackay mine covered by this report is apparently on the same ore horizon as the adjoining Peabody mine which produced 3,000,000 pounds of copper from relatively shallow depths from the year 1882 to 1915. In fact a series of small open cuts and trenches from which minor amounts of copper ore have been shipped extend along the outcrop between the Peabody and Mackay mines. It is ^{highly} for this reason that I believe this project is worthy of an expenditure of a small amount of money in order to make access to the 200 foot level of the mine. Any ore produced from this operation would have to be shipped to a custom copper smelter as it is

not amenable to flotation in a custom mill ^{as suggested by the applicant}
I discussed the program with applicant at the time of my visit to the mine and she agrees with me that \$1,000 would be sufficient to install ladders in the shaft from the 80 foot to the 200 foot level. No timbering would be necessary except stulls along the footwall of the shaft in order to hold the ladders in place. If any rock is found in the bottom of the shaft it could easily be hoisted by in small buckets powered by a small rented hoist. I do not believe that the ^{meager} information available on this lower level and the ~~poor~~ ore showings on the 80 foot level justify a loan larger than \$1,000 and I feel sure the work can be done for that. ~~after~~ Until this lower level has been made accessible for sampling I do not believe an intelligent evaluation of this property can be made.

There is no equipment on the property nor does the applicant intend to purchase any under this loan

Comments of Supervising Engineer

(5) I recommend that a \$1,000 loan be granted this project in order to make the 200 foot level of the shaft accessible. The basis for this recommendation is the fact that the upper levels of this shaft contained high grade copper shipping ore, the property adjoins a large producer of copper and the geology of the mine is favorable for the occurrence of high grade

Uses of copper ore at depth

Wm B Mather

(6)

Mackay Mine, Little Dragons, Cochise Co., Arizona

Mine is developed by a 200 foot inclined shaft with levels turned on the 65' and 177' shaft drifts were found on the 115 and 135' levels

The 65 or 80' level consists of an irregular drift extending about 100' to the northwest and about 75 feet to the south east.

All available ore above this level has been stopped and there are indications that the floor of this drift has been underlain & stopped. The ore occurs as chalcocite and malachite in irregular replacement lenses in a partly siliceous limestone. There is no regular vein, but merely erratic and discontinuous bodies of ore along a poorly developed shear zone.

There are approximately 100' of workings on the 177' level. The workings now accessible are in white limestone which strikes northwesterly and dips approximately 20° to the north. The ore occurs as an irregular siliceous or replacement of certain probably narrow limestone beds. This replacement in the east end of the 65 level in particular was localized near a northwesterly trending rather definite shear which dips 80° to the north.

This shaft is only 450 feet from the end of a long slope to the surface in the Peabody mine and apparently in the same beds and on the strike of the same shear zone. This fact, together with the presence of numerous commercial mineralization surface pits

Warner On Mine

Apr 14, 1943

Sample No 1B - 1.5' SE face, 80' level
neg lenses in lms. dip to E 60°
High grade shipping ore Replacement
in lms.

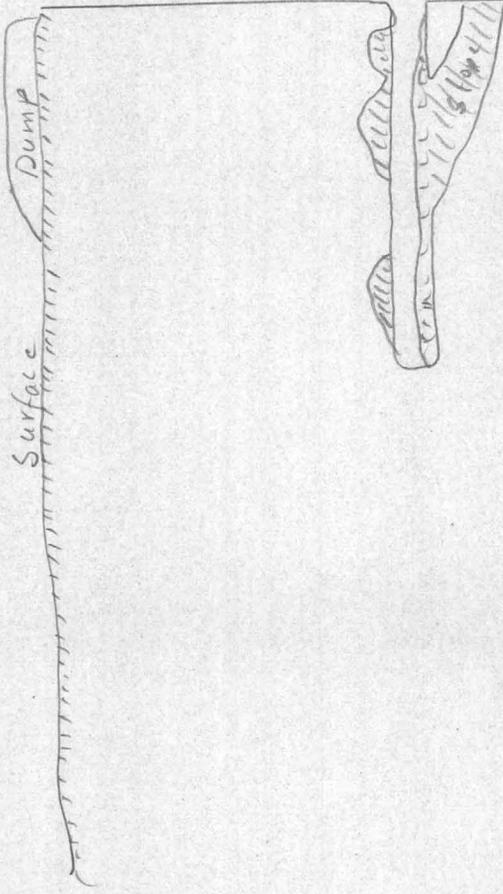
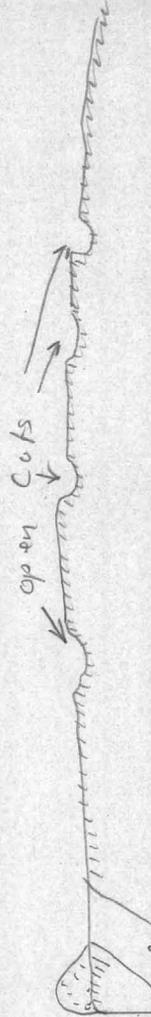
Sample No 2B - 1.5' NW face 80' level
neg lense

Bill Martin,
m. Colwell of Phoenix Highway Dept
A.B. Street Wickburg
Copper Basin Army Molyb Corp

tended to indicate the presence of
commercial mineralization. However, no
signs of continuous mineralization
could be found and the size of the
openings indicates only small slopes.
History

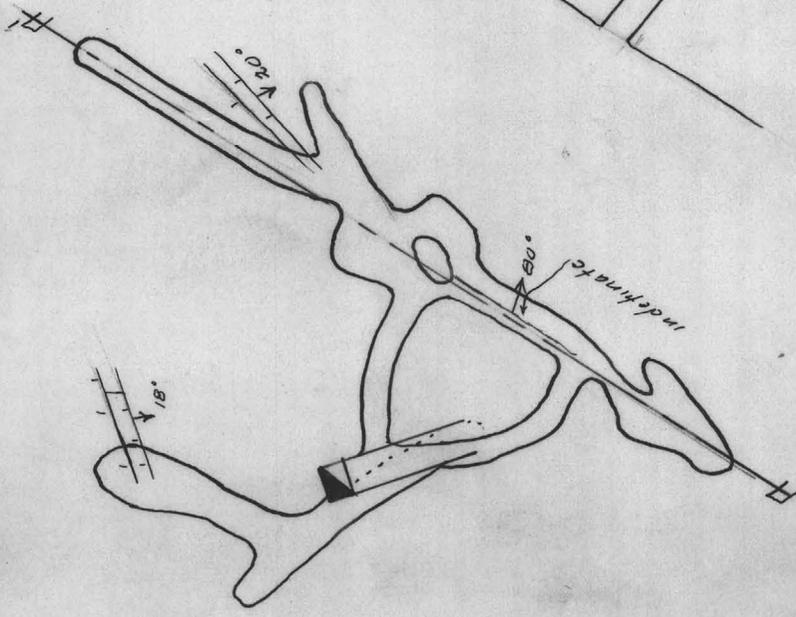
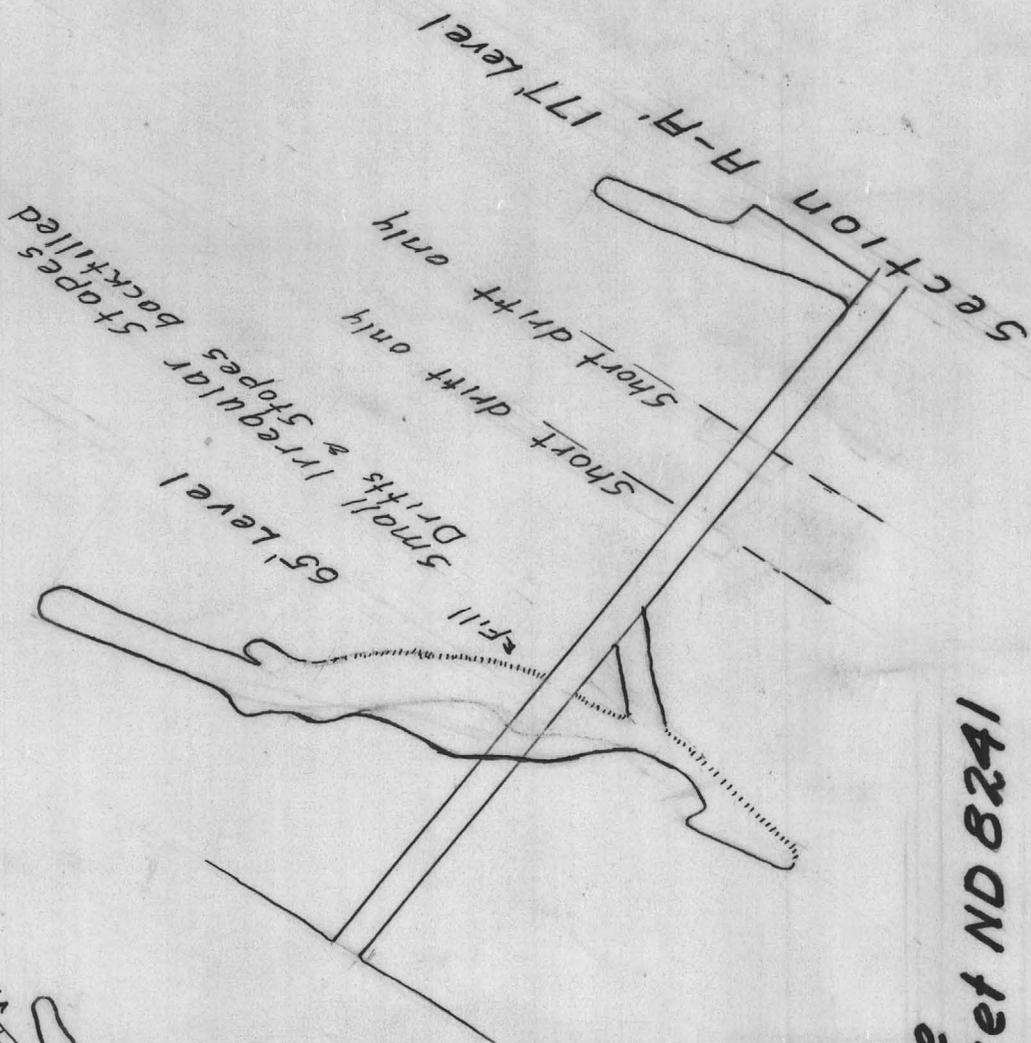
The mine was last operated by Robert
Mackay in 1920. He made numerous shipments
of copper ore that averaged better than 6% Cu
to the A-S-R Co at El Paso Texas.

N 60 W



Longitudinal section Along Plane of vein
Mackay Mine
Cochise Co Arizona
Scale 1" = 40'

177' level



Mackay Mine
A. H. Warner Docket ND 8241
1" = 40

June 1943

Cazier