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Nyf. (321) W-1

Item 6

RENO OFFICE
RECONSTRUCTION FINANCE CORPORATION
MINING SECTION
REPORT OF ENGINEER

Docket No. Reno N-16 - ND-5470
Date of Authorization for Exam. Rec'd — April 17, 1943
Date of Examination — April 19, 1943
Date of Report — April 27, 1943

NAME AND ADDRESS OF APPLICANT

J. Huntington Davis
126 Ridge Street
Reno, Nevada

CHARACTER OF PROJECT

Development of a copper prospect in which there is some evidence of tungsten (scheelite).

LOCATION OF PROPERTY

The property is situated in Township 21 North, Range 20 East, Washoe County, Nevada; the lower working being about one mile easterly of State Highway No. 33 (Sparks-Pyramid Lake Highway), but is reached by about 3.5 miles of desert dirt road that takes off of Highway No. 33 at approximately 14 miles from Sparks. Elevation of tunnel No. 1 is approximately 4870 feet.

APPLICANT

The Applicant has had some mining experience, but judging from his conversation it has been mostly in the promotional line.

LOAN REQUESTED

A loan of $30,000.00 is requested for development work, mining equipment and mining.

DESCRIPTION OF PROJECT

The mining property consists of six lode claims; Copper King No. 1 and Copper King No. 2, leased from S. L. Walker of 233 13th Street, Sparks, Nevada. The lease is a performance lease of undeterminate time. The Copper King Nos. 3, 4, 5 and 6 are held in fee simple by virtue of locations made March 24, 1943 by the Applicant. Practically all prospecting work is confined to the Copper King No. 1 and Copper King No. 2, mostly on the southeast part of the latter. (See sketch 2). Tunnel No. 1 was driven 85 feet in a N. 10° W. direction, to crosscut the fractured zone on its dip from exposed outcrop above. Tunnel No.2 was driven 40 feet in a N. 4° E. direction for the same purpose. A 90 foot, 2 compartment vertical shaft was sunk just west of the common end line between Copper King No. 1 and Copper King No. 2. From the bottom of this 2 compartment shaft (5' x 6.5') a crosscut S. 12° E. has been driven 23 feet. About 60 feet north and above shaft, there is a tunnel driven east 28 feet with a raise to the surface. All of the above work was done prior to present operator taking over. The new shaft on the south side of draw from Tunnel No. 1 is 5 feet wide and 6.5 feet long cribbed for 8 feet, and was 14 feet deep at time of examination. There are, also, a number of trenches and open cuts along the outcrop for a distance of about 1,000 feet.

Mine equipment consists of a V type compressor, driven by Buick motor, mounted on channel steel skids and a hoist driven by a 4 cylinder Ford motor mounted on channel steel skids. The hoist had not been set for use. The compressor and hoist are used equipment and are only rented. There is, also, a jackhammer drill with air and water hose, small amount of steel, and a few hand tools on the property.

GEOLOGY AND ORE OCCURRENCE

The formation consists of a grano-diorite (probably of cretaceous

age)to the south and an older diorite to the north.

Along this east-west contact, but mostly in the diorite there is a zone of fracturing dipping from about 35° to 55° to the south and in this zone there occurs in the seams and as facing on the rock, oxidized copper minerals, mostly chrysocolla and malachite, but the mineralization is not sufficiently intense to constitute ore over the width of the zone which varies from 15 to 30 feet at various exposures.

In Tunnel No. 1 some oxidized copper minerals occur in the fractures in the grano-diorite, as well as in the diorite, and the same is true of some places along the outcrop.

As it was obvious that this fractured zone, showing copper, was too low grade to constitute ore, no cut samples were taken in Tunnel No. 1 or Tunnel No. 2, but chippings were taken from better seams and facings to determine the possibilities of hand sorting, bearing in mind that several tons of rock would have to be mined to produce one ton of ore.

The same procedure was followed in taking sample from open-cut above Tunnel No. 2.

One cut sample (No. 407, 6.5 foot cut) was taken on east side of crosscut from bottom of 90 foot shaft where the copper, seemingly, was more disseminated than seen elsewhere on property.

Two samples of scheelite showing in Tunnel No. 1 (See sketch 4) were taken, but these were not assayed because they were of narrow seams (Sample 401, Seam 2" wide by 18" long on east side tunnel 10' from face, and Sample 402, seam 4" wide on roof and upper west side of tunnel 16' from face). There were occasional crystals of scheelite showing under the lamp in both tunnels, but not sufficient to constitute ore at any place.

SAMPLING

The following samples of copper bearing rock were taken. Location of each sample is shown on attached cross-sections of workings:

Sample No.	Description	Au.oz.	Cu.%
404	Selected pieces of better copper rock and chippings of better looking rock in Tunnel No. 1 over 20 foot area.	1.0	1.8
405	Chippings from better looking rock along walls of Tunnel No. 2 over 20 foot width	0.6	2.0
406	Chippings off of better looking rock in open-cut into outcrop above Tunnel No. 2 over 12 foot width.	0.6	3.1
407	6.5 foot cut sample at right angle to dip on east side of cross-cut from 90 ft. vertical shaft.	0.2	0.6

COMMENTS

This prospect is typical of numerous other copper prospects found in the same formations east of the Sierras and north of Reno. None of these properties have developed into a profitable mine, although considerable work has been done at a number of properties.

Generally speaking, there has not been enough fissuring and chemical alteration of formation to encourage hopes for commercial ore deposits. The rock is so hard and compact that frequently primary sulphides can be seen in outcrop rock when freshly broken and these primary sulphides are very lean - a little scattered pyrite, a very little chalcopyrite. These factors discourage expectation of developing commercial secondary ore with depth.

RECOMMENDATION

The property does not warrant a loan as the possibilities of its operation contributing to the National Defense are too remote.

Respectfully submitted,

Joseph E. Gelder

Joseph E. Gelder
Engineer

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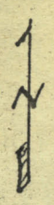
COPPER KING PROPERTY

15 Miles N.E. of Sparks
Washoe County, Nev.



COPPER KING No. 2	COPPER KING No. 1	COPPER KING No. 3
COPPER KING No. 6	COPPER KING No. 5	COPPER KING No. 4

CLAIM MAP

Scale 1" = 1000'

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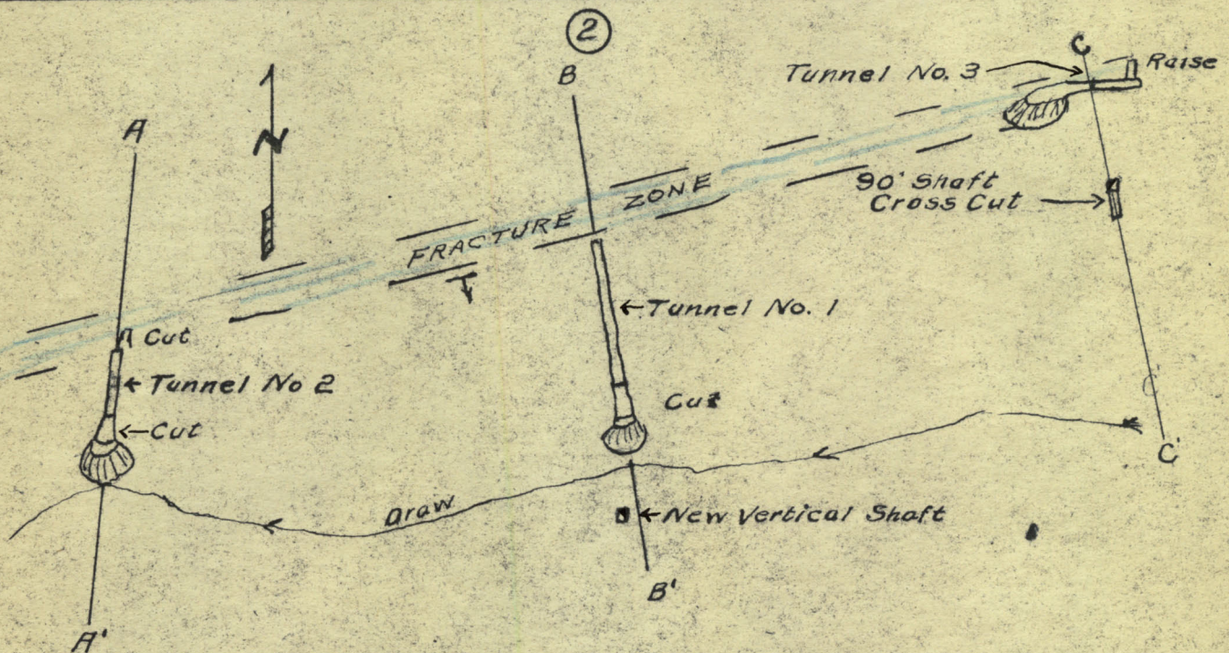

S.E. PART OF COPPER KING No. 2 CLAIM

Scale 1" = 100'

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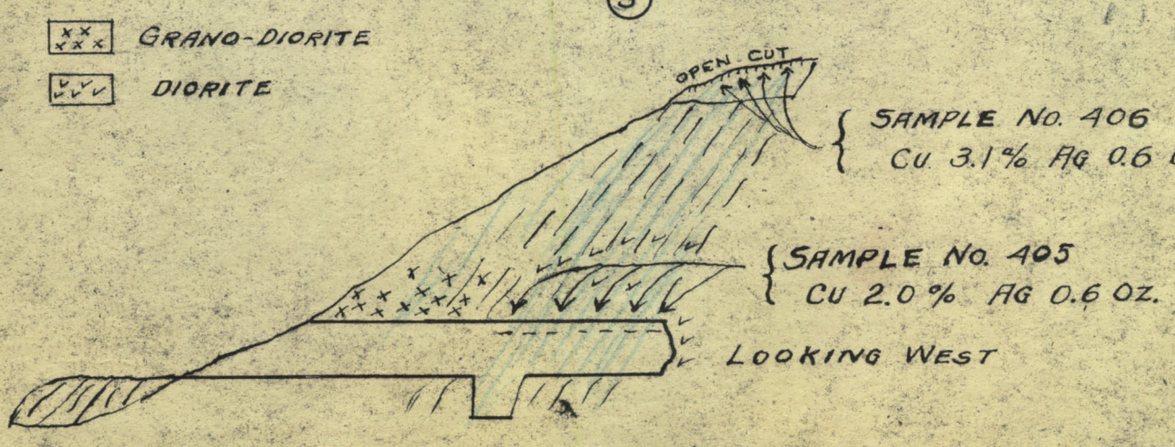

CROSS SECTION A-A'

Scale 1" = 20'

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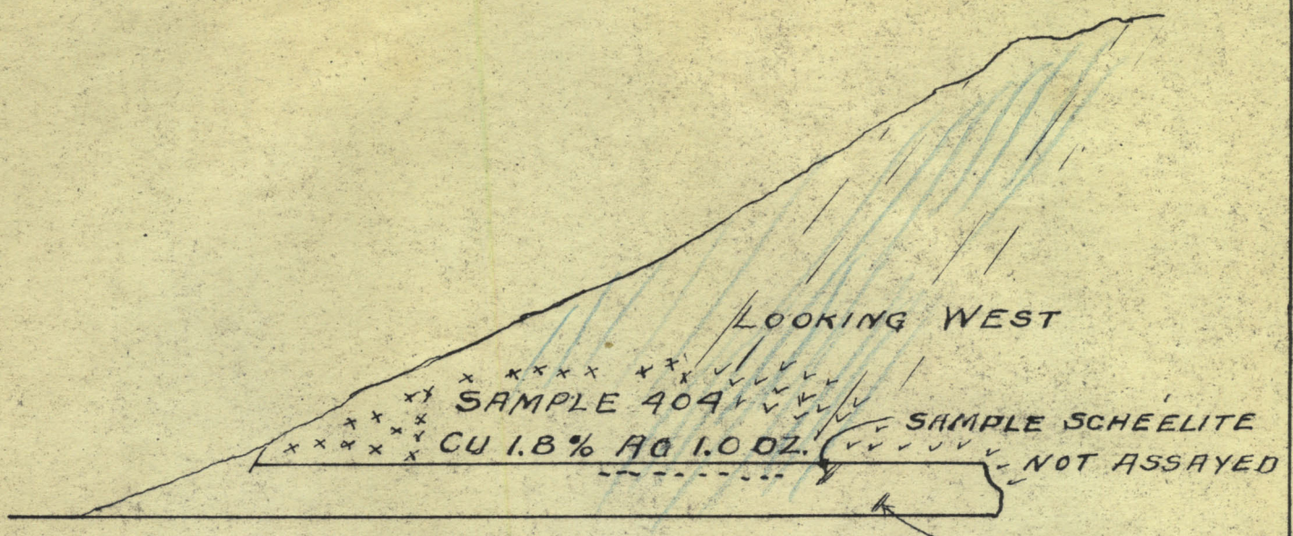
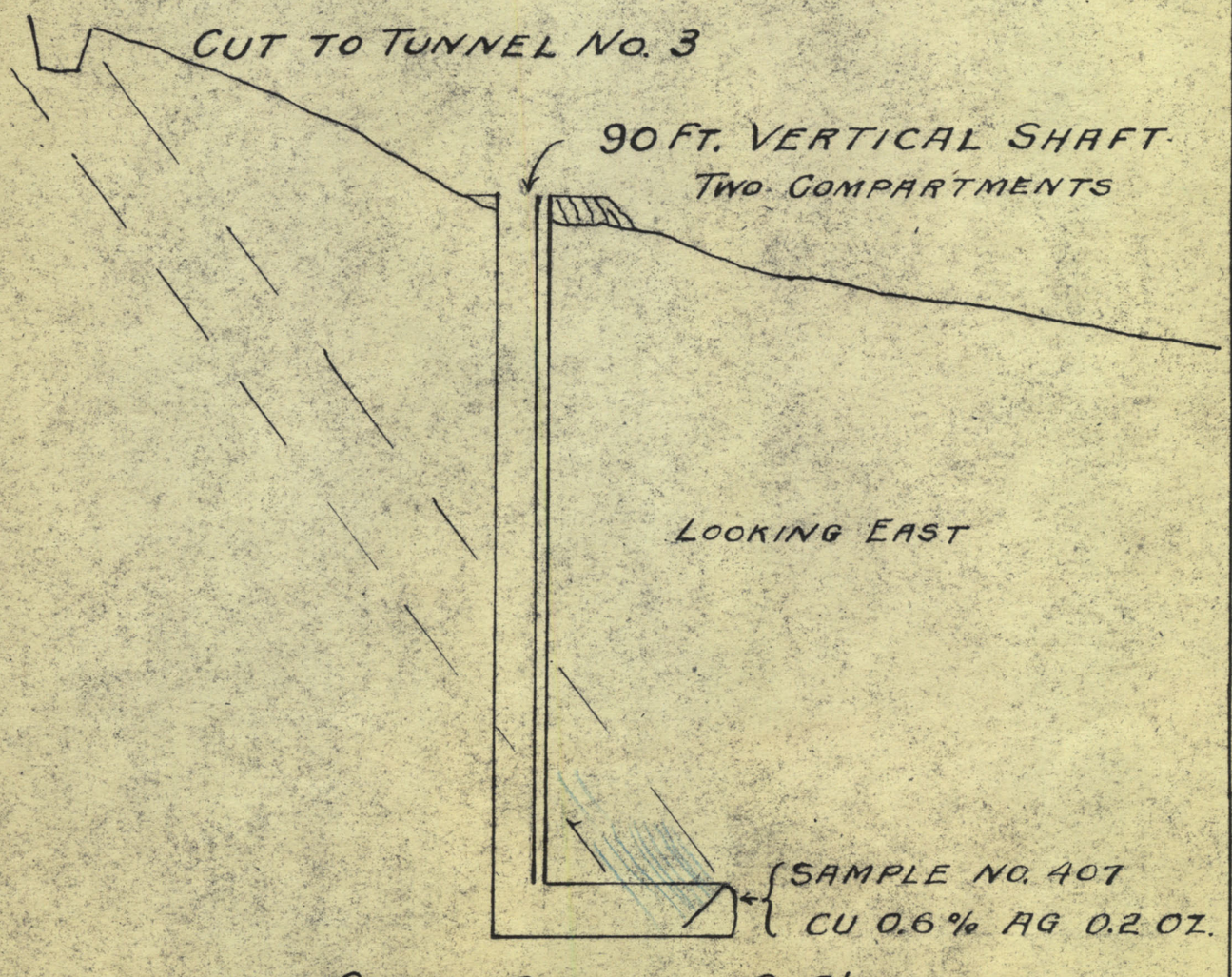
(4)



CROSS SECTION B-B'
Scale 1" = 20'

(5)



CROSS SECTION C-C'
Scale 1" = 20"

MAR. 1943

(32) Item