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DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

*Granted*

Mine      HERCULES-BADGER, Pb., Zn., Ag.      Date      December 8, 1942  
District      Wallapai      Engineer      Earl F. Hastings  
Subject:      Reconstruction Finance Corporation ✓  
                 Preliminary Development Loan      *e*

Docket No.      C-ND-Phx. 103  
Date Application Received      November 23, 1942  
Date of Field Examination      November 13, 1942  
Date of Report      December 8, 1942

1. Name and address of applicant (correspondent):  
J. E. Layton and Albin Larson, Chloride, Arizona.
2. Character of project and estimated cost thereof:  
Pb., Zn., Ag. Repair Badger Tunnel which is 1,025 feet long to expose vein and sample same, \$5000.00.
3. Location of property:  
Wallapai Mining District near Chloride, Mohave County, Arizona.
4. Applicant's interest in or ownership of property:  
Applicants have 5 year lease at 10% royalty.
5. Loan requested:  
\$5000.00.
6. Loan recommended:  
\$5000.00.
7. Comments:
  - (A) Approximately 300 feet of this tunnel is open, at which point a stope and cave is encountered. Ore remnants in this stope indicate a vein, heavy in sphalerite, 2 to 4 feet wide. The extent of stoping at this point and beyond is unknown. Shipping records are not so segregated as to locate origin of the ore, therefore neither value nor quantity of the production attributable to this area can be determined.
  - (B) Like many properties in the area, the high zinc content limited shipments and by selective mining and hand sorting the zinc was left so far as possible. Ore rejects on the dump, personally examined, were indicative of careful sorting to eliminate zinc. Areas in the mine containing high zinc were undoubtedly left except in cases where the precious metal content was extremely high. In general in that district precious metal values are associated with chalcopyrite, arsenical pyrite and galena so the greater domination of sphalerite over the other minerals the less precious content in the ore. It follows that in the 1,025 foot tunnel, driven entirely on the vein, there will be unmined areas in which the zinc is the predominating value.

December 8, 1942

- (C) In general the shoots are strong and persistent in that area. The Badger vein, on the surface, appears to be one of the major fissures in the immediate vicinity and it is reasonable to assume that the shoot exposed on the tunnel level will have considerable lateral extent and/or, in the 1,025 foot length, one or more shoots will be found to exist.
- (D) Some sampling of Hercules and Badger dumps was done by the writer in connection with the operation of a custom mill in the area. Unfortunately the result of this sampling is not at hand but is recalled that available dump material was too high in zinc and low in other values to be of interest. At that time zinc would hardly pay its treatment and shipping costs. This sampling evidenced the strong mineralization of the Hercules and Badger veins but of the wrong mineral to be profitably treated at that time.
- (E) While specific information as to widths and extent of ore is lacking and stope maps are not available it is considered that commercial areas will be found to exist. Of the shipping record, incomplete to be sure, only a portion can be charged to this tunnel. This fact coupled with the nature of the ore as previously described lend to the belief that comparatively little stoping has been done. There therefore exists a large favorable area with several hundred feet of backs to be made accessible in reopening this tunnel.

## ARIZONA DEPARTMENT OF MINERAL RESOURCES

Earl F. Hastings  
Assistant Director and  
Projects Engineer

Esbeck

Superior Manifold

MADE IN U.S.A.

325 Heard Bldg.  
Phoenix, Arizona  
March 22, 1944

TULLY - Asst. Chief - Mining Section RFC - Washington

Re: Layton & Larson - Docket No. C-ND-7982

Enclosed please find Liquidation  
Report on the above captioned project.

TRAVIS P. LANE  
Supervising Engineer

TPL:MHW  
Encs.

Liquidation Report in duplicate

RECONSTRUCTION FINANCE CORPORATION  
MINING SECTION  
LIQUIDATION REPORT

Borrower - Layton & Larson  
Docket No. - C-ND-7982  
Date of Report - March 22, 1944

1. NAME AND ADDRESS OF APPLICANT

J. E. Layton and Albion Larson  
Chloride, Arizona

2. LOCATION OF PROJECT

The property is located in the Wallapai Mining District, Mohave County, Arizona - approximately three (3) miles northerly from Chloride.

3. AMOUNT OF LOAN AND DATE OF AUTHORIZATION

The property was granted a Preliminary Development Loan in the amount of \$5,000.00 in December, 1942.

4. PURPOSES FOR WHICH LOAN WAS EXPENDED

The loan funds were expended in cleaning out an adit on the vein and a shallow winze in the adit.

5. EQUIPMENT

a. The borrower furnished all equipment for the project and purchased only pipe and rails with loan funds as follows:

1008' - 1-1/2" pipe - - - - \$154.32  
2400 pounds - 8 pound rail - \$ 75.00

b. No salvagable equipment remains on the property (see "C" below)

c. 1000 ft. of 1-1/2" pipe and all the salvagable 8 pound rail (amounting to 1800 pounds) was sold. The purchaser removed the pipe and rail from the mine and paid \$100.00 for the lot on October 19, 1943.

d. See "B" above.

6. PROPERTY

The property was operated under lease from the owners. The borrower has abandoned the project and the lease.

7. COMMENTS

The property was last visited on July 29, 1943 at which time the loan funds had been completely expended. The operators had continued the development at their own expense until October, 1943, when work was terminated and the project abandoned.

8. CONCLUSION

The proposed project failed to develop any material quantity of ore and is believed to be of no value. Consequently the loan should be considered a loss.

9. RECOMMENDATION

It is recommended that this account be closed.

TRAVIS P. LANE  
Supervising Engineer