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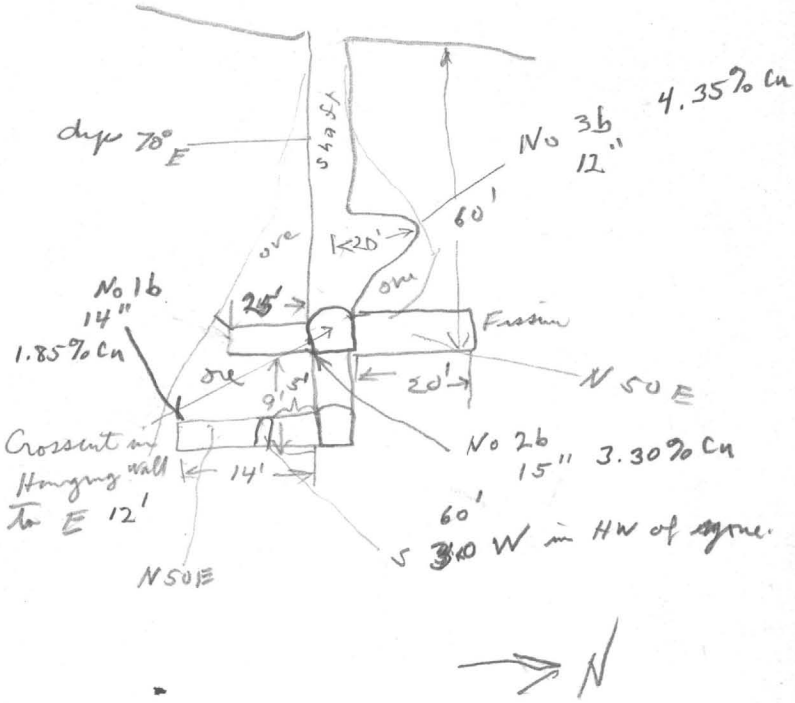
Farley Claim Oct 2, 1942
Guajalote Flats



CLAUDE E. McLEAN
P. O. BOX 1888

TELEPHONE 3-6272

ARIZONA TESTING LABORATORIES

ANALYTICAL AND CONSULTING CHEMISTS
ASSAYERS, MINING ENGINEERS
823 EAST VAN BUREN STREET

ASSAY CERTIFICATE

PHOENIX, ARIZONA October 6, 1942

Mr. Wm. B. Maitland, Supervising Engineer, RFC

325 Heard Building, Phoenix, Arizona

WE HAVE ASSAYED THE SAMPLES RECEIVED FROM YOU AND FIND THE RESULTS AS FOLLOWS:

GOLD FIGURED AT $_____ PER OUNCE.

LAB. FORM 2

SILVER FIGURED AT $_____ PER OUNCE.

LAB. NO.	SAMPLE	GOLD		SILVER		PERCENTAGES			
		OZ. PER TON	VALUE	OZ. PER TON	VALUE	COPPER	LEAD		
44917	#1b E.D. Farley					1.85			
44918	#2b E.D. Farley					3.30			
44919	#3b E.D. Farley					4.35			

REGISTERED ASSAYER
CERTIFICATE EXPIRES
CLAUDE E. McLEAN
DEC. 31, 1947
ARIZONA, U.S.A.

RESPECTFULLY SUBMITTED,

ARIZONA TESTING LABORATORIES

BY Claude E. McLean
ASSAYER

CHARGES $ 3.00

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine HOMESTAKE, Cu.-Pb.-Zn. Date December 18, 1942

District Patagonia Engineer Earl F. Hastings

Subject: Reconstruction Finance Corporation
Preliminary Development Loan

Docket No. C-ND-Phoenix 115
Date Application Received December 16, 1942
Date of Report December 18, 1942

1. Name and address of applicant (correspondent):
E. D. Farley, Patagonia, Arizona.

2. Character of project and estimated cost thereof:
Cu.-Pb.-Zn. To unwater 200 ft. vertical #2 shaft, repair 150 ft. of drifts, and develope ore shoot encountered in No. 1 shaft. $5000.00.

3. Location of property:
Patagonia Mining District, Santa Cruz County, Arizona.

4. Applicant's interest in or ownership of property:
Applicant is owner by location.

5. Loan requested:
$5000.00.

6. Loan recommended:
No recommendation is made (see 7-A below).

7. Comments:

(A) This property was examined by an R.F.C. engineer in connection with a Development Loan application on September 23, 1942. It is considered that the report of that examination should be a deciding factor in any recommendation relative to this loan. It is also considered that data contained in the "B" loan application must have been, in order to qualify for a field examination, much more complete and conclusive than that which is attached to this docket.

ARIZONA DEPARTMENT OF MINERAL RESOURCES

Earl F. Hastings
Assistant Director and
Projects Engineer

Superior Manifold

EXHIBIT B

Technical Data

A. Reports:

In an 150 foot incline shaft, located 150 feet from the 200 foot vertical shaft, sulphide ore was encountered 60 feet below the surface. This ore averaged from 2' to 5' in width, and assayed copper 2.5%, lead 9.%, zinc 14.%. This ore shoot was sampled by Julius Krutchnich, for the American Smelting & Refining Company. One car of selected ore was shipped running copper 3.5%, lead 17.%, zinc 16.%. Map of workings attached hereto.

B. Geology & Topography:

The main Homestake vein is a fissure vein, from 4' to 6' in width, cutting quartz-monzonite porphyry, with a strike north 35 degrees east, and dip 80 degrees east. The vein traverses the property for a distance of 6300 feet within the boundaries of the claims, and rises from an elevation of 5200 feet to 6400 feet.

C. Existing Development:

1. About 800 feet of development work consists of three shafts, drifts and crosscuts.

Shaft No. 1 is an incline shaft, 150 feet in depth, in which the ore hereinbefore mentioned was encountered. Shaft No. 2 is a vertical shaft, 200 feet in depth, well timbered, from which crosscuts were run at the 100' and 200' levels, and about 300' of drifts - 150' northerly and 150' southerly. Shaft No. 3 is a 60' incline shaft about the center of the property.

3. Owing to the favorable topography of the ground, the mine can be developed by tunnel on the vein to a maximum depth of 1200 feet; but for the purposes of this application, the immediate developmont work will be through the 200' vertical shaft, to open up the ore shoot that was encountered in the 150' incline shaft. When the 200' vertical shaft is unwatered, the drift to the north, 150feet will need timbering.

4. Equipment consists of a small hoist.

D. Proposed Preliminary Development of Existing Mine Workings:

1. The water stands in the 200' vertical shaft at about 50' from the surface. The present work consists of unwatering this shaft and about 300' of drifts, after which timbering will be required on a 150' drift, in order to examine and further develope the ore encountered in the adjacent 150' incline shaft. The total cost of this work will approximate $5000.00.

Mr. Chas. W. Tully, Asst. Chief
Mining Section, R.F.C.
811 Vermont Ave NW
Washington, D.C.

Re: Docket No. B-ND-4339
Edward D. Farley

Dear Mr. Tully:

Enclosed please find my report on the above docket. Also attached is the correspondents original application and supporting data

Yours very truly,

Wm. B. Maitland
Supervising Engineer

Enclosure
Supervising Engineers Report

Reconstruction Finance Corporation
Mining Division
Report of Supervising Engineer

Docket No B-ND-4339
Date authorization for Examination Received Aug 31, 1942
Date of Examination, inclusive Oct 2-3, 1942
Date of Report Oct 13, 1942

1. Name and Address of Applicant

Name - Edward D. Farley
Address - Patagonia, Ariz.
Correspondent - Same

2. Character of Project

The applicant wishes to develope a lode mine containing gold, silver, lead, zinc and chiefly copper.

3. Location of Mine

This mine is located in the Patagonia Mining District, Santa Cruz County, Arizona, 17 miles south of Patagonia by improved county road. The property is located on Guajolote Flats in the Patagonia Mountains. The present road extends to within one mile of the property and the balance of the distance must be traveled by steep mountain trails ~~over~~ over rough terrain. The nearest railroad loading point is at Patagonia, the end of a Southern Pacific Railroad branch line.

4. Applicant

The applicant is a typical elderly prospector ~~at~~ ~~[illegible]~~ with considerable experience in mining. He seems qualified to superintend the proposed work.

5 Loan Requested

$20,000 is requested

6. Description of Project

A. General Features

1. The mine workings inspected consist of a small, 70° incline, one compartment shaft 60 feet deep and a 9 foot winze sunk from the 45' long drift at the bottom of this shaft. Then from the bottom of this winze there are 74 feet of drifts and crosscuts. This shaft is equipped with a crude headframe, windlass and 250 lb buckets. The other two shafts were not visited as they are not accessible. On the property there is also a nine room house.

The shaft makes about 200 gals of water per day

2. The shaft visited was in poor condition and all underground tunnels are about 3 ft by 4 ft in size and not on any particular ~~trending~~ grade as the broken rock was dragged to the shaft station in buckets. All workings in this shaft are accessible

3. No legal discrepancies were found

4. Construction of one mile of road would be necessary to connect the shaft with the end of the present road and no difficulty in obtaining a right-of-way for the road is expected

5. The vein examined is entirely within the applicants claim boundaries

12
6)73

B. Existing development.

1. The enclosed longitudinal section along the plane of the vein shows locations of samples taken ~~and the relationship of the massive~~ and extent of ore exposed

(* Insert supplemental sheet following)

The country rock surrounding this shaft is a coarse to fine grained grey granitic rock much altered and in part schistose. The ore occurs as scattered and irregular quartz lenses following the schist structure. Post mineral faulting has

The following samples were taken ~~at~~ in the mine:-

No 1b	Copper	1.85%	14" wide	face of North drift
No 2b	"	3.30%	15" "	Bottom of shaft.
No 3b	"	4.35%	12" "	Stope in shaft.

It can be seen from the above assays that there is no comercial ore in the mine as the above samples were cut at points where the vein was widest and best mineralized.

Supplement

further complicated the structure so that no continuous vein could be traced in the underground workings. There has also been considerable mineralization of the wall rock chiefly by pyrite. The ore consists of banded quartz containing pyrite, with minor amounts of chalcopyrite, bornite, chalcocite, hematite, and limonite. The ore has not been greatly altered by surface oxidation and only a few traces of malachite and azurite could be found. No indications of lead or zinc could be found by inspection of the vein. The outcrop of the vein was indistinct and no gossan was found.

C. Proposed Development

The applicant proposes to ~~to~~ sink the present shaft an additional 100 feet and then crosscut ~~the~~ 100 feet and drift along the vein for 50 ft. If this rock proved the existance of ore at depth the applicant proposes to drop down the hill side a vertical distance of 1000 ft and drive a 1500 foot drift along the vein under the shaft.

Since the vein now exposed in the shaft workings is very irregular, badly faulted, and has no distinctive outcrop it does not seem feasible to drop down the hill side 1000 feet and drive a 1500 foot tunnel along the vein and under the present shaft. ~~Furthermore little~~

The vein as exposed in the present shaft workings does not warrant sinking the shaft deeper as there is no ore exposed that could be stoped but merely small bunches of ore along a crushed zone.

D. Equipment

It is not recommended that further supplies or equipment be furnished

~~Comments of Supervising Engineer~~

E Cost Estimations

No estimation of costs can be made as past work has been done by one man and is very crude

F Ore Reserves

aside from about 15 tons of ore piled on the dump there is no ore developed as the vein exposed in the mine is not large or continuous enough to be mined.

~~* See Supplemental Sheet following~~

7. Employment

One man has been working on the property and it is not recommended that further men be employed

8. Objections to Project

The mine is one mile from the nearest road and the construction of a connecting road would be an expensive undertaking due to the rugged topography

The present ore showings do not warrant any extensive development of the mine.

9 Comments of Supervising Engineer

It is the opinion of the examining engineer that this mine does not warrant a loan of $20,000. This district has been thoroughly prospected by small trenches and shafts but no large producer has been developed. While the assays ~~taken~~ show the presence of small amounts of low grade ore the vein is so spotty and irregular that no more development work is recommended on this project.

Wm. B Martland

Supervising Engineer

Enclosures
assay sheet
Sketch map