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DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

*Granted*

Mine FLOURINE CaF<sub>2</sub>

Date June 8, 1943

District Sierrita

Engineer Earl F. Hastings

Subject: Reconstruction Finance Corporation ✓  
Mine Loan

Docket No.

Phoenix C-204

Date Application Received

May 28, 1943

Date of Field Examination (G. A. Ballam)

August 26, 1942

Date of Report

June 8, 1943

1. Name and address of applicant (correspondent):

William C. Yell, Box 1946, Tucson, Arizona.

2. Character of project and estimated cost thereof:

CaF<sub>2</sub>. Minor rehabilitation of shallow workings and mining of blocked ore. \$5000.00.

3. Location of property:

Sierrita Mining District, Pima County, Arizona.

4. Applicant's interest in or ownership of property:

Applicant holds ten year lease at ten percent royalty.

5. Loan requested:

\$5000.00.

6. Loan recommended:

\$5000.00.

7. Comments:

(A) 1-Added to the docket is a memorandum from George A. Ballam, Field Engineer, Department of Mineral Resources dated August 26, 1942.

A subsequent informal treatment of specified subjects was received from G. A. Ballam on June 6, 1943 from which quotation will be made.

2-Letter to Chamberlain Company, May 29, 1943.

3-Letter from Chamberlain Company, June 3, 1943.

(B) There is very little development accomplished on the property, all work having been performed on the vein at shallow depth and the greater portion immediately stopped.

(C) Only two samples have been cut as representative of mineable ore:

#1 - 87% CaF<sub>2</sub>. Ballam states this represents 30" of ore above the tunnel.

#2 - 75.6% CaF<sub>2</sub>. Ballam states this represents 14" of ore in the face of the 300 foot tunnel.

(D) Ballam estimates 8 to 10 tons of dump ore, and 2 or 3 cars of ore in the stope in the tunnel, available from the present workings and already broken. There are, according to him, about 1000 tons of ore fairly well assured from the present workings. Eleven additional veins of greater width than that upon which current development has been accomplished offer further production possibilities.

(E) The grade of ore is not consistently high, particularly since the vein is narrow and some waste material dilutes ore. By careful mining, and some sorting, it is believed that a small consistent quantity of metallurgical  $\text{CaF}_2$  can be shipped.

Arizona Department of Mineral Resources

Earl F. Hastings, Projects Engineer

RECONSTRUCTION FINANCE CORPORATION  
MINING DIVISION

PROGRESS REPORT

Docket No. ND-8336  
William C. Yell

TULLY, ASST. CHIEF, MINING DIVISION, RFC \* WASHINGTON, D.C. OCT. 13, 1943

On October 10th, I visited this project in order to inspect the work being done. The applicant informed me that of the original \$5,000 loan granted he had approximately \$2,000 left, and he had accomplished the following work:

Cleaned out an old shaft on the east end of the property to an approximate depth of 35 feet; but he still had not as yet reached solid rock in the bottom of the shaft, so I recommended that he stop work at this point, temporarily at least.

Applicant had also cleaned out the old drift just east of the above mentioned shaft, but since the fluorspar ore looked very low grade, I suggested that he likewise do no more work at this point.

Mr. Yell had sunk a new shaft 35 ft. deep on the west end of this same vein and some 300 ft. from the shaft already mentioned. This new shaft encountered a narrow vein of fluorspar ore some six feet below the surface, and the vein widened continuously until it reached a width of about three feet of good ore in the bottom of the 35-foot shaft. Part of this ore consists of solid fluorite accompanied by a six-inch band of gouge and a number of small horses of the schist country rock.

On the west side of the shaft the vein is apparently pinching, but on the east side it seems to be getting wider, so, since the applicant does not have a large amount of funds left, I suggested that he start drifting along the vein, as such drifting should show a profit.

The Continental Ore Company has offered the applicant \$20 per short ton f.o.b. Tucson for ore running at least 85% Ca F<sub>2</sub> and a maximum of 6% silica. On this basis, a three-foot vein of fluorspar after being picked at the mine bin, should pay at least the cost of drifting and undoubtedly show a profit in stoping.

The applicant now has nearly 50 tons of ore in the bin ready to ship. The surface improvements completed at the mine consist of a 50-ton wooden ore bin, with grizzly; a small gasoline hoist; and a partially constructed head-frame for the shaft. A camp consisting of a number of frame shacks and tents houses the four workmen now employed on the project.

Before the ore can be properly shipped, the applicant must improve about six miles of road leading to the highway, and I have suggested that he obtain the aid of the State or County to do this work.

Mr. Yell seems sincere in attempting to make a success of this project but is unfortunate in that he has had little mining experience as is shown by the type of construction he has done on the surface improvements, although if the ore continues as now indicated in the shaft, I see no reason why this project should not be successful and produce a considerable tonnage of fluorspar ore.

WM. B. MAITLAND  
Supervising Engineer

b