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RECONSTRUCTION FINANCE CORPORATION
MINING SECTION
REPORT OF SUPERVISING ENGINEER

*Good Enough Mine
Pima Co.
Las Guayas
Rust*

Docket No: ND-8429
Date of Examination: November 12, 1946
Date of Report: December 4, 1946

NAME AND ADDRESS OF APPLICANT:

Frank Stevens Zappia
1321 South Seventh Avenue
Tucson, Arizona

CHARACTER OF PROJECT:

Development of tungsten deposit.

The above Applicant requested a loan in the amount of \$4,000.00 in July, 1943, and, following an examination and report by Supervising Engineer Cazier of the Phoenix Office of RFC, the application was declined (September 3, 1943). The Applicant now requests reconsideration of his application for loan basing justification for his request upon work he has recently performed upon the property. Accordingly this engineer visited the property in company with the applicant and discussed his present work and the proposed new loan program, and sampled some dumps and certain places in the mine in which he claimed to have significant values. Reference is made to Cazier's report and the attached print of his map. The approximate locations and WO_3 contents of the new samples are indicated on this print with red crayon underlinings to differentiate the samples from those taken during the Cazier examination.

Subsequent to the decline of his application the applicant served in the Army for a time and was discharged last summer. He then interested himself again in the subject property. He claims that he now has no partners, his former associates having dropped out either because of death or because of non co-operation in maintaining title to the claims.

The applicant obtained through a bank in Tucson a "G I" loan in the amount of \$2,000.00 for the purpose of financing the mining, transportation and milling of 100 tons of pillar and dump material and thus put the property into production upon a self-sustaining basis. The loan is secured by a mortgage on the property and the due date of the loan is the end of this year (1946). The applicant claimed a grade of 2 to 3% WO_3 for his material and stated that a mill in Tucson (locally known as the Jacob's mill) which had been financed during the war by D.P.C. funds would treat his ore at a charge of \$5.00 per ton.

At the time of this visit some 30 tons of selected dump and stope fill material had been collected into several piles on the hillside at the property and about 20 tons had been trucked into the stockpiling yard of the above mentioned mill in Tucson. When the applicant appeared in this office to request reconsideration of his original RFC loan application he stated that the Jacob's mill was not in operation and would not resume for a small tonnage, but that they would undertake to mill a lot of 500 tons provided the full lot was first delivered to the mill and all mill charges prepaid. The applicant further stated that there was remaining unexpended some \$700.00 of his G I loan and that he needed additional money to finance the larger tonnage delivery required by the Jacob's mill.

Sampling during the recent examination by this engineer is described as follows (refer to map):

Samples Nos. Z-1, Z-3, Z-4, Z-6 and Z-7 were cut across the vein at places where the applicant proposed to mine. The quartz in these vein samples was grey to milk white in color and very hard, and such rare WO_3 mineralization as was visible occurred usually as isolated small to coarse black crystals and occasionally as sparse sprinklings of crystals in small areas of quartz.

Sample Z-1A represents a 2 inch streak upon the foot wall of (and contained in) sample Z-1. The sample contained abundant coarse crystals of black WO_3 (probably principally ferbrite). These samples were cut in a small pillar in the open cut above the upper tunnel. The pillar contains only about 10 tons of material.

Sample Z-5 was cut across a seam which angled across the middle tunnel some fifteen feet beyond the stoped chimney which passes through this level. The seam is a mineralized joint plane in the granite wall rock and the extent of the mineralization is only several feet and the showing is unimportant.

The above samples with their locations, widths and WO_3 contents are tabulated below:

<u>Sample No.</u>	<u>Location</u>	<u>Width</u>	<u>% WO_3</u>
Z-1	Pillar in cut	58 in.	0.32
Z-1A	" " " (stringer)	2 in.	11.11
Z-3	Upper tunnel	46 in.	0.13
Z-4	Middle tunnel	52 in.	0.14
Z-5	" " (stringer)	4 in.	1.81
Z-6	Shaft near bottom	62 in.	0.28
Z-7	End of stope near bottom	21 in.	0.04

Dump Samples Nos. Z-2, Z-8 and Z-9 represented selected piled material which the applicant had recently gathered from stope fills and resorting of the older dumps. The material was practically all coarse hard quartz chunks generally larger than fist size. Sample Z-9 contained more fine material than the other dump samples. Visible WO_3 mineralization was very sparse in all the samples. The dump samples and their WO_3 contents are tabulated below:

<u>Sample No.</u>	<u>Location</u>	<u>% WO_3</u>
Z-2	Upper tunnel	0.19
Z-8	Middle tunnel	0.10
Z-9	Piled at Tucson Mill	0.26

The applicant referred to the piled material represented by samples Z-2 and Z-8 as 2 to 3% WO_3 ore, and he counted upon the pile at the mill (sample Z-9) to run between 3 and 4% WO_3 .

The applicant has unbounded faith in his property. During the examination he made insistent positive assertions regarding the grade and quantity of ore which did not seem justified by the appearance of the material. Also, he implied that the original sampling did not do justice to his mine. For this reason his very close attention was insisted upon and an attempt was made to obtain his agreement so far as possible in each step of the sampling. He appeared satisfied with the dump sampling except for the pile at the mill where he said

Frank Zappia
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Report of Sup. Engr.
December 4, 1946

he had covered up inside of the pile all the high grade pieces to avoid loss by theft. It was not possible to satisfy him completely with the vein sampling, and he would ruefully call attention to occasional crystals and mineralized patches which did not happen to fall into the line of the channel being cut for any particular sample. He insisted that material carrying appreciable amounts of WO_3 would be sorted out and the balance discarded as waste. His ability to do this in the past is best judged by noting the value of his "select" piles of material and the wide variance between his optimistic estimate of their value and the actual value shown by analysis. Admittedly a tungsten deposit with its usually erratic dissemination of tungsten minerals is difficult to sample. In this instance however the writer's sampling checks in general the previous sampling by Mr. Cazier and it is believed therefore that the samples are reasonably representative and that the property has been treated fairly.

Upon return to Tucson the local milling and marketing situation was investigated. The Jacob's mill which the applicant had counted upon had been sold several days previously and was partially dismantled for shipment to a location in California. The only other possible milling outlet would be a crude mill near the mine. The capacity of this plant is some $1/2$ to $3/4$ tons per hour and the owner had no respect whatever for the quality or type of material which the applicant would offer. He said he did not want that "hard honey stuff" in his mill even if all the charges were prepaid. Mr. Fernstrom, who conducts a small lot tungsten buying business in Tucson, would be willing to pay \$18.00 per unit of WO_3 in a 60% concentrate which was free of penalty impurities.

CONCLUSION:

The main ore shoot of the mine was not large and was not highly productive in the past, and except for several hundred tons of fringe material and possibly some material contained in a small triangle in the bottom of the shaft (not visible because of muck) it has been completely worked out. The remaining fringe material is indicated by sampling to be well below economic grade. Possibly an energetic individual sniping about could cob out several tons of fair grade ore but the operation would not be important economically. No other sections of the mine nor surface workings appear to hold promise of developing into anything worthwhile.

It is recommended that the application for loan be again declined.

T. P. LANE
Supervising Engineer

TPL:gmk

Attachment:
Map