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~~Docket No. B-ND-4713~~

Docket B-ND-4713
Date Auth for Exam. Rec'd. Jan 7, 1943
Date of Exam. Rec'd. Jan 19, 1943.
Date of Report

"Mudbank Mine"

Name and Address of Applicant

Name : John & Florence Oliver
Address : Washington Camp,
Arizona

Correspondent : Same

Character of Mine
Development of Zinc-Lead-Silver deposit.

Location of Mine
The mine is located in Township
X 24 S Range 14 E in the Patagonia Mining District
in SANTA CRUZ county, ARIZONA. The mine
less than a quarter of a mile from the small
settlement of Patagonia. Nogales, the nearest
supply center and rail point is 23 miles west
from the mine by good graded dirt road which
is steep only as it passes over Mt. Washington. The
mill of the Duquesne mine ~~owned~~ operated by the

Drift 200 ft. @ $15.00 per foot	$3000	
Xcut 100 ft @ 15.00 " "	1,500	
Raise 100 ft @ 15.00 " "	1500	
		6000
Air Compressor	1200	
800 Ft. Vent Pipe @ 25¢	200	
Pipe, fitting, etc	900	
		2300
Change House		300
Misc; auto exp. int., unforseen		1400
Total		$10,000

~~Comments of Supervising Engineer~~

A Development loan does not appear to be justified.

Sampling of the most favorable showings in the mine does not indicate the probable presence of a body of copper ore ~~[illegible]~~ and ~~the [illegible] probability that that the work will is nothing nothing in no surface exposure which warrants~~ there are no indications of copper elsewhere on the property or, ~~for that matter, in the district~~ which warrant derevelopment.

Callahan ~~Lead and Zinc Co~~ Zinc-Lead ~~Co.~~ and situated ~~is~~ about 2 miles southwest of the ~~[illegible]~~ property is the logical outlet for the ore.

4. Applicant

The loan application is made in the name of John Oliver and his wife, Florence Z. Oliver. They together own by purchase in 1939 2/3 of the property which is unpatented and held by location. The remaining third is owned by the heirs of a Mr. Trickey. These latter have not, since the date of the Oliver purchase, ~~of 2/3~~ contributed to the cost of annual assessment and the Olivers have been advised that they should advertise them out. This to date has not been done.

Mr. & Mrs Oliver live at Washington Camp where they own rental property. ~~Mrs Oliver teaches school at Patagonia is a school teacher at Patagonia~~. They have had no mining experience. Mrs. Oliver is a school teacher at Patagonia. ~~Mr. Oliver was for many years and until recently superintendent of one of the world's largest poultry ranches. He is an elderly man~~ Mr. Oliver is an elderly man who has had to give up active work because of failing health. He was for many years, until recently, the superintendent of one of the world's largest poultry ranches in California.

Mr. Oliver plans to handle the business details and place the ~~counts on employing a Mr. Murray as mine foreman and~~ mining work under the charge of a Mr. ~~Murray~~ Murray. Mr. Murray is an elderly man with

general average however would be practically valueless and ~~the~~ in this engineer's opinion the showing does not hold any promise. It should be noted that the surface exposure on the east bank, upon which ~~the sh~~ the shaft was sunk, ~~did not develop in a which~~ did not develop a shoot of ore. The surface at this point is covered by the shaft dump and the showing ~~at this point~~ could not be seen, but according to reports it could not have been large.

Very little other work has been done upon the property. An open cut in the fracture zone about 1500 feet northeast of the shaft was cored and no record of the findings was available. A little copper coloration was seen in the dumps and occasional pieces containing small sulphide mineralization were noted. The working plant is inadequate.

Proposed Development and Estimated Cost

The Applicant proposes to explore the fracture zone in a southwest direction by drifting, cross cutting and raising on the 240 ft. level, detailed, ~~as follows~~ with estimated cost, as follows:

~~Drift 200 ft. @ $15.00 per foot 3000~~

The sulphide stringer narrows in both direction from Sample No 6, and disappears at 6 ft. northeast from that point. Sample No. 7 was cut across the back at 10 ft southwest from No. 6. Sample No 7 contained the above stringer (narrowed to less than 1") and some scattered sulphide, and assayed:

Sample	Width	Oz Au	Oz Ag	% Cu
No. 7	51"	.01	.2	.83

The mineralization disappears several feet southwest from sample No. 7.

~~The above sampling was done in the most favorable showings on the 240 Ft. level.~~

The work on this level was ~~done~~ begun in the hope that the small showing then in the face (represented by Sample No 6) would develop into something worth while. The showing however did not continue and the applicant's partnership now plans to extend a further ~~an extension~~ extension of the southwest drift expecting to encounter an area of mineralization which shows at the surface on the west bank of the river. At this point on the surface the fracture zone is some 40 feet wide and ~~contains~~ evidences considerable iron staining and ~~some~~ occasional copper staining. An ~~sample~~ assay prescribed by the applicant returned 1.52% copper from picked pieces in a 20 foot width at this point. The

long ~~practical~~ experience as a ~~practical~~ ~~mining~~ miner. Mr. Kraabel, mine engineer for the neighboring Callahan Zinc-Lead Co. has advised Mr. Olin regarding his property and would be available as consultant if needed.

Loan Requested
$5000

Description of Project

There are no mine workings, mill etc which are not confined within applicant's ownership.

The proposed project would comply with state compensation and safety-first statutes.

There are no apparent legal discrepancies not covered in the application

There are no impeded right of way facilities

There is no likelihood of surface or sub-surface trespass.

Existing development

The mine is opened by tunnels and shafts

The accompanying sketch is made from a compass and tape ~~survey~~ survey, part of which was supplied by Mr. ~~Fables~~ Kraabel's report ~~supporting~~ which accompanies the application.

Samples were cut by pick and mind and gathered on canvas

The workings were generally accessible and in good condition.

The topography of the region is ~~is~~ one of low mountains and moderately rough relief.

~~The ore occurs in a granite porphyry limestone contact. The limestone is massive~~

The mine was originally opened in 1884 and some small production was made. There is no reliable record available. Judging from old reports known ~~what is~~ and the size of the openings in the mine the production was small, probably not exceeding a carload of ore. It occurred irregularly in small bunches and was not high grade.

The ore occurs in a contact between granite-porphyry and a massive silicious limestone at and near its juncture with a broad brecciated fault zone.

The mine is developed by a tunnel driven 120 ft SE into the hill ~~some 120 feet in length with~~ with drifts east and west at approximately 90 ft and a raise 60 feet to the surface at 100 ft. ~~Most of this work is in the granite porphyry~~. No ore has been produced on this tunnel level and there was nothing of interest to be seen there.

Near the end of the east drift a vertical 2-compartment shaft has been sunk to open a level 60 ft lower, or 120 feet from the ~~outc~~ surface. On this 120 ft level a crosscut was driven some 80 feet in limestone to the contact with granite-porphyry. This crosscut breaks into ~~the~~ partially caved old workings and a level at 105' which was ~~formerly~~ opened from an old incline winze

from the face. The material in the back of the drift at this point showed several stringers of quartz up to 3" in thickness. Mineralization was sparse however and the assays showed practically no values.

Sample No. 6 was cut across a band of quartz and sulphide 135 back from the face. This is the point at which the applicant-partnership began work last April early this year. A band of massive chalcopyite with some tennantite having a maximum thickness of 2" occurs at this place and is accompanied by several parallel seams of similar material across a total width of 19". The sample assayed:

Sample	Width	Oz Au	Oz Ag	% Cu
No 6	19"	.02	.1	4.42

The sulphide stringer narrows and disappears at 6 ft southeast of sample No. 6, and stringers narrows also toward the south at 12-15 ft from No 6. Sample No 7 was cut across the back at 10 ft southwest of No 6. It showed a 1/2" stringer of sulphide and some scattered sulphide and assayed:

Sample	Width	Oz Au	Oz Ag	% Cu
No 7	51"	.01	.2	.83

~~was collared at~~ sunk from the same point on the 60 ft level as ~~a~~ the present vertical shaft. The old 105 foot level explored a brecciated fault zone some 15-20 ft. wide which strikes NW-SE across the granite-lime ~~lead~~ contact. The fault zone dips about 70° NE ~~at~~ and is not ~~opened~~ exposed on the 120 ft level which lies in its foot-wall. A small amount of stoping was done in the area of the junction ~~area~~ of the ~~the~~ contact and the fault zone. There is no ore ~~at~~ presently exposed in the 105 ft level except ~~was in the stope against the~~ in its western end on the contact east of its juncture with the fault. Sample Nos. 1 and 2 were cut from this place. and sample No. 3 was cut below here against the contact.

Proposed Development

The applicant proposes driving in both directions ~~against~~ in the contact on the 120 ft. level.

Comment.

~~A development from does~~

The ~~past~~ record of the property is not impressive. ~~The considerable amount of~~ development which has been done has not disclosed ~~any~~ any important body of ore. While the small showing in the east end on the contact might ~~the area is notorious for short~~ develop something with while the any work done there would be

be ~~prospecting~~ exploratory development and in the absence of favorable

in the nature of ~~exploration~~ prospecting. ~~There is nothing no~~ There is no ~~factual~~ evidence ~~upon~~ which ~~[illegible]~~ justifies the expectation that the project would ultimately produce substantial amounts of ~~strat~~ strategic metals.

T. P. Ha

in the nature of prospecting. There is no evidence ~~upon~~ which ~~would~~ justifies the belief that the project would ultimately produce substantial amounts of strategic metals and a loan therefore is not recommended.

T. P. Ha.