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Docket No. B-ND-4756
Date Authorization for Exam. Rec'd. Jan 11, 1943
Date of Examination, incl. Jan 18, 1943
Date of Report

Southern Crown

Name and Address of Applicant

Name: C. M. Taylor
Address: Pima County Court House
Tucson, Arizona

Correspondent: Same

2 Character of Project
Development of Zinc-lead-Copper silica deposit.

3 Location of Mine
The mine is located in T 19S R 16E in the Helvetia Mining District in Pima County, Arizona. The nearest rail point at Continental, Arizona, is 18 miles ~~by~~ next by good road from the base of the hill upon which the mine is located. The mine is reached from the end of the road by a fairly steep pack trail approximately 1 mile in length. The nearest supply center is Tucson which is 26 miles north by paved highway from Continental, or 44 miles by road from the home end of the trail to the mine.

4 Applicant
The applicant, ~~is an~~ an elderly man, ~~who holds the~~ is the County Assessor for

A The property is owned by the estate of Adolph Lewisohn and is operated ~~under lease~~ by the applicant under ~~lease~~ 1 year lease and bond dated June 9, 1942.

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Prairie County, Oregon, a position which he has held for many years. He has been connected with mining intermittently during most of his adult life, generally known in small scale exploration and development. ~~on a small scale~~. At present he is undertaking the development of a tungsten property under a recently granted "C" loan in the Twin Buttes Mining District of Arizona (Docket No C-ND-8024). He would be able to ~~need~~ competently direct a mine development. He plans in the present instance to have the proposed development done on a contract basis under the charge of a competent practical mining man.

A)

5. Loan Requested
$5,000

6. Description of Project
A. General Features
1. There are no mine workings, mill etc. which are not confined within the applicant's ownership.
2. The proposed project would comply with state compensation and safety first statutes.
3. There are no apparent legal discrepancies ~~in~~ ~~owned~~ in the application.
4. There are no impeded right-of-way facilities.
5. There is no likelihood of surface or subsurface trespass during the project.

B.

P. 1. Mine is opened by shaft and surface cuts

a. The attached sketch is made from a tape and compass survey of the workings.

b. Samples were ~~cut~~ broken down with pick and mail.

c. The main shaft was ~~is~~ accessible and in good condition. The stope which is served by this shaft was only partially accessible being ~~was~~ entirely filled in its lower portion by discarded material from sorting in the stope and caving of ~~the hanging of~~ the hanging wall. The surface cuts and workings were mostly well cared. ~~with but few exposures of the vein accessible~~.

d The mine is located in the low mountain region of the southern end of the Helvetia mining district. The center of the productive area of that district is ~~some~~ about 2 miles north of the property and no production of note has been made within 3/4 mile of the property. The regional rocks are granitic containing bands of limestone and shales and conglomerates and the ore occurrences are found in veins along the contacts between these formations. On the subject property the development has been performed in a fault fissure ~~along~~ ~~against~~ between ~~a~~ limestone ~~hanging wall underlain~~ and ~~by~~ a zone of shale and conglomerate. The contact zone against a blue-gray limestone ~~hanging wall~~ ~~is~~ mineralized ~~with copper and cobalt~~ in various places, ~~with shows appear~~ principally with ~~copper zinc~~ ~~lead and copper~~ zinc, ~~and~~ lead ~~carbonates~~ and copper carbonates. There is practically

no gold content and the silver content is small. although the earliest work on the property was done in the search for silver and it is said that some of the surface material carried substantial silver values.

The principal workings, which are not extensive, consist of a shaft 130 feet deep around which the vein has been stoped, and a number of surface cuts on the vein south from this shaft.

The contact vein is persistent throughout the length of the claim. It strikes approximately M 10° E and dips 35-40° to the east. It varies in width from a few inches to five or six feet. Following is a description of the workings and the sampling (see accompanying sketch)

The main shaft was sunk on the footwall of the fissure. It is bottomed at 115 ft and flattens somewhat in its lower portion. The average dip is 36°. The opening continues down another 15 feet, possibly more, after stepping 6 or 8 feet over toward the hanging wall. The vein has been stoped on the south side of the shaft from the surface to a depth below the bottom of the shaft, and to a lesser extent on the north side of the shaft in its upper part. The stope has an average length on strike of approximately 40 feet and has been mined for a width of 5 to 8 feet. It is not known what part of this width was one but judging from the

A. Mr R The applicant presents a letter from a party who was associated with the early operations of the mine (during World War I) in which he states that 13 carloads of ore were shipped from this stope, the zinc content of which ranged from 31% to 51%. The ore was all carbonate of zinc. The applicant himself has recently shipped 1 carload containing 36 tons assaying 31% zn from cleaning up of the stope and sorting the dump and fill. The ore was taken off the hill on pack animals.

B

Proposed Development

~~The applicant proposes to sink the main shaft 100 feet and develop the~~

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amount of ~~discarded~~ material left in the stope only a part of it, probably less than half, was ore. Apparently the shoot was mined out from the bottom upward leaving a large part of the discarded material underfoot. The stope is ~~completely~~ entirely filled in the bottom and partially filled to within 30 feet of the surface. The ~~is no~~ ore ~~to be seen in the~~ has been completely removed from the accessible part of this area and no ore can be seen extending on strike in either end of the stope. It is believed ~~assumed~~ that ~~an ex~~ the ore shoot extends on the dip below the presently stoped area ~~the~~ but ~~there~~ ~~is~~ no ~~proof of this fact~~ evidence is presented ~~to~~ support ~~of~~ this belief and the ~~workings~~ bottom ~~here~~ is inaccessible. ~~A series of thin steeply dipping cross fractures which strike N65°E are visible in the limestone at the collar of the shaft and top of the stope suggest that the ore shoot~~

MoR

A series of thin steeply-dipping cross fractures striking N65°E, which are visible in the limestone at the collar of the shaft and top of the stope, suggests that the ore body occurs as a pipe or chimney ~~in~~ the contact at the point of intersection with the fracturing.

B

At a point approximately 200 ft south from the main shaft a cut in the ~~bank~~ hill exposes the ledge for a length of about 12 feet. The mineralization is weak here and there was no ore. A parallel stringer is exposed in limestone in an 8' shaft some 30 ft north east ~~wall~~ from this cut. The stringer, which on several inches wide shows some copper staining in the south wall of the shaft. Neither of these showings was worth sampling.

At a point approximately 400 ft south

From the main shaft two open crosscuts ~~were~~ ~~made~~ into the hill ~~[illegible]~~ the vein. These are connected by ~~an~~ a longitudinal cut ~~cut~~ on the ~~from the cut~~ vein, and south from these workings the vein is developed by ~~longitudinal~~ cuts, and in places tunnels ~~[illegible]~~ covered by a surface crust of less than 10 feet, ~~for almost~~ almost continuously for a length ~~[illegible]~~ of some 200 feet. The workings ~~[illegible]~~ nowhere extend down more than 15 to 18' on the dip (20°-40°) and are often mere surface scratchings. Apparently some material was shipped from this work. ~~but the size of the~~ However the size of the openings together with the amount of material on the dumps suggests that production was not large. The workings ~~[illegible]~~ are for the most part caved and sloughed in and the vein where visible does not show much mineralization. The vein is generally from 12" to 18" in width and ~~[illegible]~~ is ~~[illegible]~~ red and yellow stained and contains numerous bands of gouge material. Zinc carbonate and lesser amounts of lead carbonate were frequently noted together with fair amounts of copper carbonate. A sample was cut in the floor of a ~~longitudinal~~ cut at the collar of a 6 foot shaft. This was the most attractive showing visible in these workings. It assayed:

Sample	Width	Oz Au	Oz Ag	% Cu	% Pb	% Zn
1	10"	Tr	.6	1.16	.21	14.15

The vein ~~on the opposite wall of the shaft~~ showed less mineralization in the opposite wall of the shaft and was poor in the bottom.

There ~~[illegible]~~ are no surface openings on the vein south of the ~~above~~ workings until, at ~~[illegible]~~ approximately 700 feet from the shaft, an open crosscut explores ~~an area~~ a heavily iron stained area on the contact. At the end of the crosscut a ~~[illegible]~~ drift

~~[illegible]~~
was run about 20 ft ~~[illegible]~~ north on the vein, ~~and the vein was cut at [illegible] feet in a southerly direction~~. The workings ~~[illegible]~~ contain much brownish ~~red~~ hematite with ~~[illegible]~~ some streaks of copper carbonates and occasional grains of galena. The workings ~~are~~ partially caved. A sample, which was cut at the mouth of the north drift ~~across the back which~~ assayed:

Sample	Width	Oz Au	Oz Ag	% Cu	% Pb	% Zn
No 2	84"	.01	.6	2.06	6.40	2.59

The ~~width of~~ sample represented an actual vein width of approximately 54". It is probable that this material would give a product containing ~~copper content~~ several per cent higher copper than that shown in the above sample and the appearance of the surface of the dump indicates that an attempt was made to do so. ~~The ratio of [illegible]~~

There were no other workings on the property.

~~[illegible]~~

Proposed Development

The applicant proposes to sink the ~~main~~ shaft an additional 100 feet and explore the ~~probable~~ deeper ~~downward~~ extension of the main shaft.

~~Comments of Engineering Engineer~~

Comments of Eng

The proposed project does not promise to ultimately produce substantial amounts of strategic or critical minerals and a loan therefore does not appear to be justified.

Although the vein is persistent it is small and mineralization in it is irregular. A considerable amount of surface exploration of its most attractive showings has disclosed only one area with enough continuity of values to make an ore body and has a short shoot of ore ~~of quite quite carbonate has been~~ was stoped to a depth in the stope of somewhat over 130 feet. The lower part of this stope is inaccessible and there is no available information regarding the total depth or the character of the vein in the bottom. In any event the ore mined was quite carbonate and not high grade. The small ~~of~~ size of the ore body which was mined in the upper workings does not justify the expectation that deeper mining, if the ore were found to extend in depth, would result in a profitable operation. There are no other workings upon the property which indicate the presence of an ore shoot although the south end workings might be considered interesting for further prospecting.

There is no equipment on the property and there is no road closer than one mile from the mine.

T. P.