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RECONSTRUCTION FINANCE CORPORATION
MINING DIVISION
REPORT OF SUPERVISING ENGINEER

Docket No. ND-6041

Date Application Rec'd: November 4, 1944

Authorization for Examination: Nov. 8, 1944

Date of Examination: November 13-14, 1944

Date of Report: November 18, 1944

1. NAME AND ADDRESS OF APPLICANT:

J. R. Livingston and A. M. Livingston
P. O. Box #28
Quartzsite, Arizona

Correspondent: Applicant

2. CHARACTER OF PROJECT:

To prospect for tungsten by sinking shaft and drifting.

3. LOCATION OF MINE:

In Sec. 34, T. 3 N., R. 18 W. Ellsworth mining district, Yuma County.

Nearest railroad station is Salome, Arizona approximately 55 miles from mine workings.

Road from mine workings to Quartzsite is unimproved and traveled only by applicant. From Quartzsite to Salome the road is paved.

4. APPLICANT:

Applicant, husband and wife, came to the district during the depression as dry placer washers. During the course of many years of placering the shallow washes, the applicant discovered the tungsten mineral scheelite in the material handled through the dry washers and located the claims containing outcrops of scheelite. Applicant is a typical desert inhabitant, preferring the life of isolation except for periodic trips to the cities.

5. LOAN REQUESTED:

\$10,000

None Recommended.

6. DESCRIPTION OF PROJECT:

Applicant holds four claims by right of location in an isolated district approximately 15 miles in a southeast direction from Quartzsite, Arizona. There is no easy way into this district, but it can be reached by traveling south of Quartzsite for 9 miles and then heading east for 12 miles to the homestead of the applicant. There is no habitation intervening nor beyond. The mining claims are 8 miles from the homestead over a makeshift road made by the applicant.

6. DESCRIPTION OF PROJECT: (Cont)

Water must be hauled from the ranch to the mine for domestic and mining purposes. Applicant has a home-made compressor, a jack-hammer, and two tents on the mining claims.

The zone containing the tungsten mineralization is near the base of a mountainous region locally known as the Black Mesa or New Water Mountains. In the vicinity of the Columbia claims, this tungsten belt is about 300 feet wide. It strikes northwest-southeast and is about one mile long. The applicant has taken most of his ore from the northwestern part of the belt, but has prospected almost the entire length. This zone consists of alternating beds of red and grey shales, quartzites and altered limestones. The general strike is N 70° W. The beds dip 47° southwest. On the hanging wall side of a number of shale members there are zones 10 feet or more thick that are coal black and consist of minute needles of tourmaline. Apparently some member or a particular zone in this series of sedimentary beds has been completely tourmalinized. Into this zone of tourmalinization there has been injected vein or pegmatite quartz containing the scheelite. The quartz strings crisscross throughout the tourmaline zone, but the tungsten mineralization appears to concentrate in the footwall next to the shale. Other minerals associated with the scheelite include brown calcite or siderite, limonite pseudomorphs - after pyrite and in places malachite. The scheelite crystals vary in size from peas up to 8 inches in diameter.

The quartz ribs or masses are not continuous along the surface and apparently occur as lenticular masses in the shale. Neither is the scheelite mineralization continuous, judging from the rabbit holes scattered over the surface.

The attached map shows most of the places where the applicant gophered out shipments of scheelite ore. None of the holes is much larger than 3 feet by 3 feet by 2 feet deep. These areas were found by the applicant with the use of a lamp. When he was in need of some ready cash, he would take the lamp out, find a rich-looking spot, mine out a thousand pounds or more, haul it down to Tucson, Arizona and get the money. Applicant has not attempted to trench nor in any other manner attempted to outline the ore deposit. It was impossible for me to trench or attempt to cut samples across areas of rock to outline the ore. However, I do believe that the area is worthwhile and is deserving of money and effort in proving up a new tungsten district, but what the applicant proposes to do is prospecting. There are no faces of ore to sink on except the small rabbit holes from which the applicant extracted high grade ore. These are insufficient evidence to outline a development program. The applicant listed his shipments, but apparently they were sent with the original copy of the application to Washington. There is no copy with the duplicate application.

Docket No. ND-6041

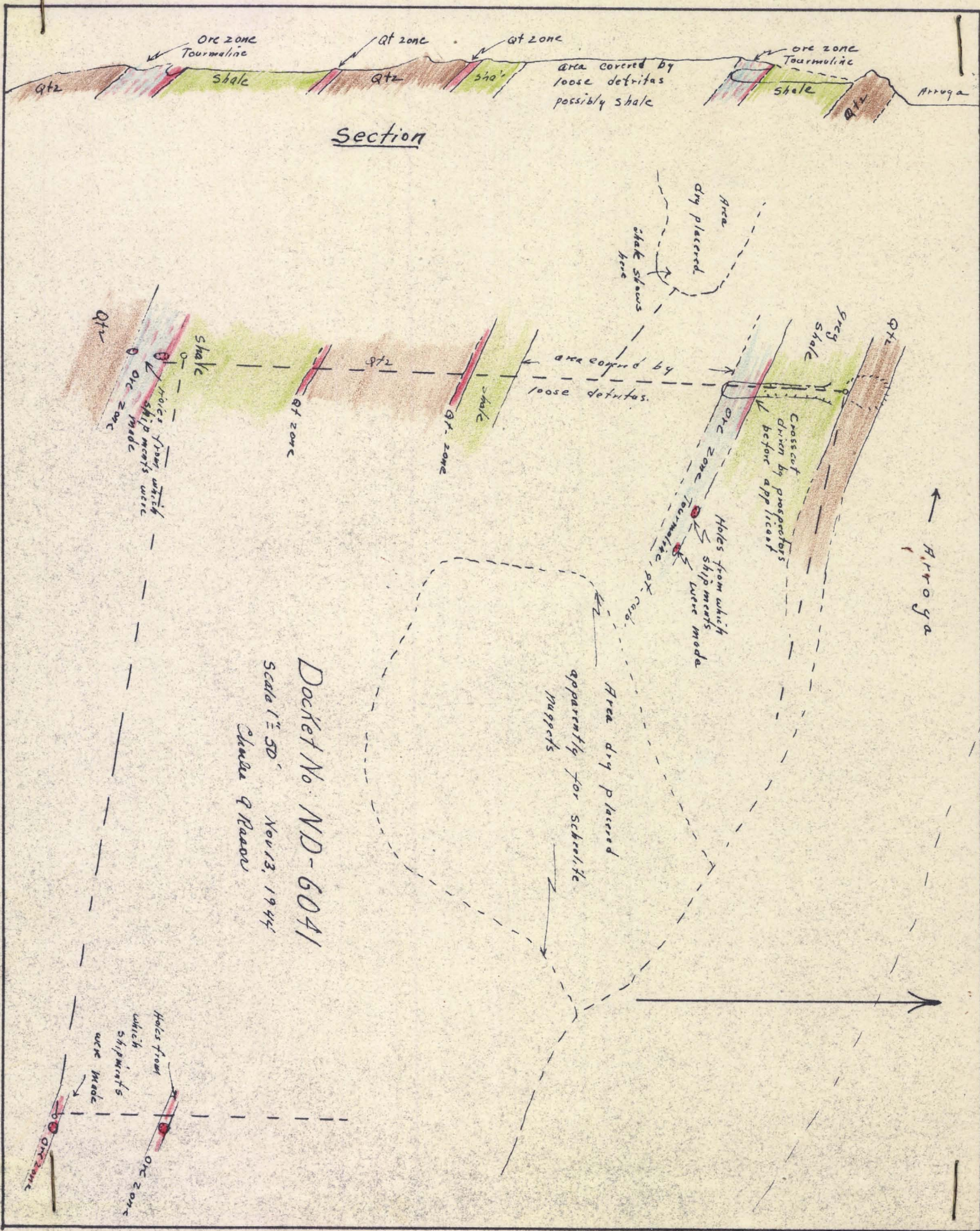
Date of Report: November 18, 1944

Since the work proposed by the applicant is in the nature of prospecting, a loan is not recommended.

Charles A. Rason
CHARLES A. RASON
Supervising Engineer

CAR:slm

Attachment: Map



Went of about 400' ±

on other side of ridge

(now I have a lot of fossils in this)

hole 2' deep 3' into 10' long

has dipyrnites - slightly concave

near base has not been much

weathered - some by property toward

to present antiquity - and

and not enough on for. But

appearing heavy.