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Richard E. Mieritz
MINING CONSULTANT
307 E. INDIAN SCHOOL RD.
PHOENIX, ARIZONA
AMHERST 5-1607

March 11, 1959

Mr. A. G. Offner
Mr. E. K. DeRyke
650 N. First Ave.
Phoenix, Arizona

Gentlemen:

Enclosed herewith is the original and two copies of my report as a result of my one day examination of your Light group of claims in Yavapai County, Arizona.

The purpose of the examination was to determine the possible potential of the property with respect to the existence of a building or ornamental stone similar to the specimens you gentlemen have had cut and polished.

Having completed the examination in the field, I have the following statements and recommendations to make with reference to the property. I am sure you can realize why I have submitted these comments in letter form rather than in the report itself.

- (1)-As of this date you do not have legal mining claims as defined by law for these reasons, (a)-claim corners have not been established within the 90 day period, (b)- the standard 4'x6'x8' deep discovery shaft has not been sunk, (c) Discovery is not located on any mineralized structure which is a definite requirement for a valid lode mining claim and (d) these claims have not been registered with the Tonto National Forest for determination of surface rights under the multiple use act.
- (2)-One of the materials you have interest in and had polished occurs as a possible sill or dike which does not outcrop and appears to be off the claims as I have shown or indicated on the Surface Map.
- (3)-The rocks of interest are common varieties of volcanic flows which can be found in many localities in Arizona.
- (4)-If you wish to pursue the development of these rocks into a saleable product or to interest a third party in the property, it is suggested you obtain a mineral or building material lease from the U. S. Government under the building material Act. For this lease you will be required to pay a 5% royalty, or possibly only 3% on the gross production value. Such a lease should

cover the W/2 of the NW/4 of Sec. 8 and the E/2 of the NE/4 of Sec. 7 in T. 8. N. and R. 5 E.

(5)-A mineral lease is the only way you can remove material from this area without conflicting with the law since no claims, lode or placer, may be staked after July 23, 1955 for building materials alone.

(6)-The rocks within the bounds of your present claims are not suspected of having sufficient mineral in a structure to warrant or justify location of claims.

Sincerely yours,

R. E. Mieritz, P. E.

INTRODUCTION

At the request of Mr. A. G. Offner, the writer examined the Light group of claims, Yavapai County, Arizona on March 10, 1959 to determine the general geologic conditions of the property as a possible source of a "black" rock material which when properly cut and polished makes a beautiful ornamental piece that could have a variety of uses.

PROPERTY and LOCATION

The property consists of six claims located in December, 1958 by Messrs. A. G. Offner and E. K. DeRyke, both of Phoenix, Arizona. These claims lie 43 miles by road north of Phoenix and are reached by travel over the Cave Creek-Seven Springs paved and good graveled road. Although located in an unsurveyed portion of the Tonto National Forest, these claims can be referred to the NW/4 of Section 8 and the NE/4 of Section 7, both in T. 8 N. and R. 5 E. of the Gila and Salt River Base and Meridian.

A general direction of the six claims, three long and two widths wide, is N. 34° E. These claims are called the Light 1 to 3 and Light 1A to 3A. (See included Surface Map)

Location notices have been recorded in Docket 142, pages 164 to 169 in Yavapai County Recorders Office.

No facilities such as water, gas or electricity are available on or near the property.

GEOLOGY

The claimed property is in an area of extreme complex volcanic make-up which includes formations as flows, sills and dikes that have been intruded into and flowed upon the Pre-Cambrian schist and some of the remnant sedimentary rocks.

Rocks exposed on the property includes a volcanic flow, black basalt-porphry which exhibits moderate size phenocrysts of feldspar. Deep weathering has almost completely removed the feldspars which then gives the rock an appearance of a rock containing gas bubbles. Where weathering has not attacked the feldspars, an oolitic or "speckled" appearance of the rock will be visible. Such textures may change in character dependent on the stratigraphic position in the flow.

Although not exposed anywhere on the property, a very fine grained dense black type basalt was noticed as surface float. The approximate position of a possible dike or sill of this material is shown on the accompanying Surface Map.

Exposed on the property also is a strongly silicified schist which has been distorted in many directions as a result of the old volcanic activity in the area. This schist is broadly

sheeted with good parallel planes of fracture but closely spaced cross fracturing evidenced on surface makes the material crumble easily. In places the schistosity is vertical and in others it is flat dipping, 20° to 25°.

Although the property covers a prominent mountain feature with steep slopes, there is a heavy thick alluvium overburden covering the slopes, thus prohibiting clear observation of all rock formations and structures to determine types, character, etc.

ORNAMENTAL ROCK CHARACTERISTICS

The locators of these claims have had several pieces of the basalt-porphry and the dense fine grained black basalt cut and polished. The respective specimens cut readily and lends itself to a very high polish which brings out the beautiful texture of each.

Because of the unpredictable behavior of volcanic lavas, flows, etc as to texture, composition etc, a great variety of accessory coloration, other than the black, may be expected as well as a great variation in texture with respect to grain size or possible flow banding.

All type rocks are of sufficient hardness to take a very fine polish and it is likely that the material out of reach of surface weathering influence would exhibit massive characteristics which could permit production of large "blocks" or slabs.

DEVELOPMENT

The property has not been developed. Quarries will be required to obtain the material of desired rock textures, namely, (1) black ground-mass with white to gray oolytic or speckled appearance, (2) dense, completely black, fine grained with no discoloration and (3) black ground-mass with red thread-like weavings.

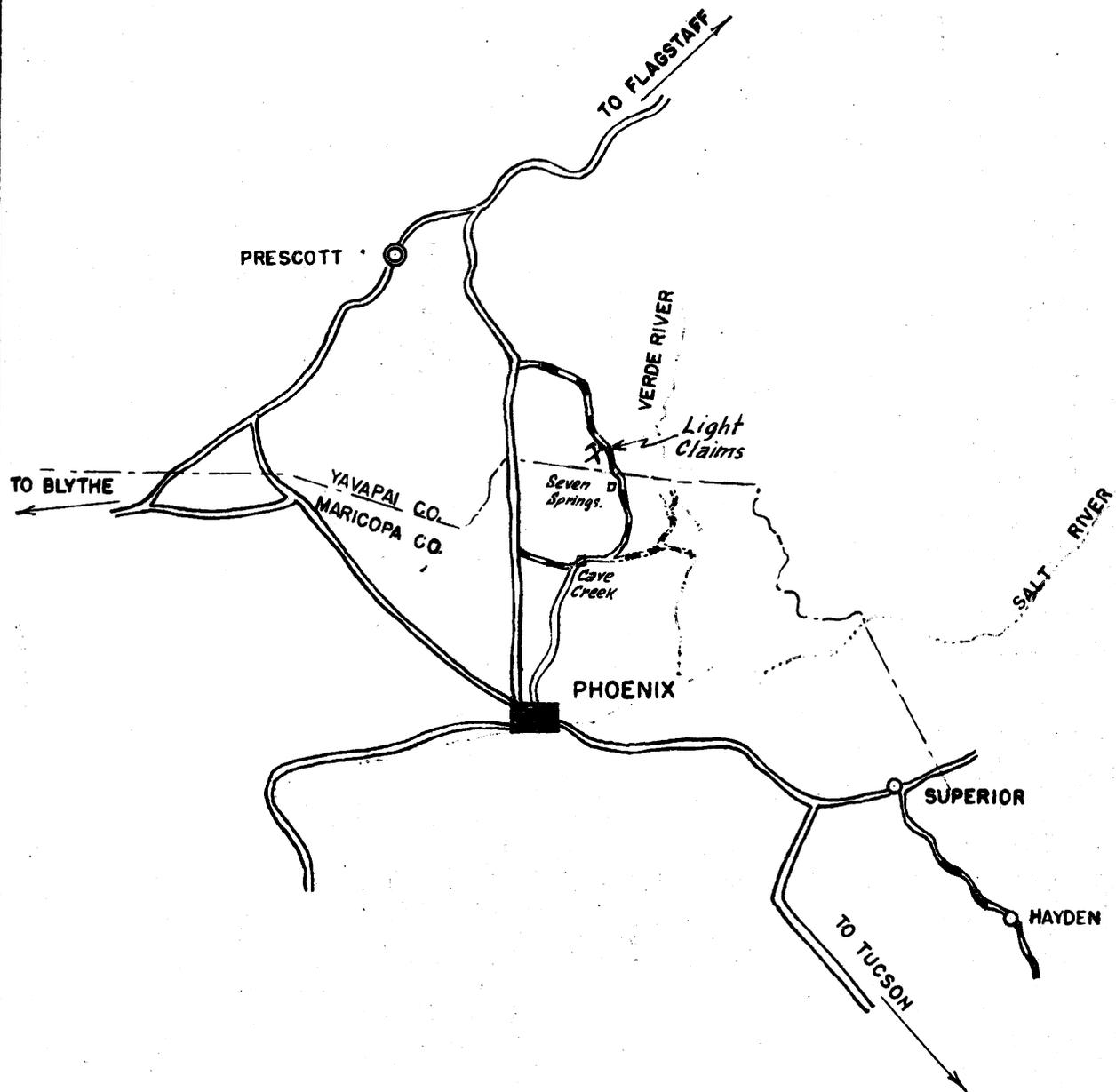
These three products should be of greatest interest.

RESERVES

The writer can not possibly estimate the potential of the property except in terms of a general statement that much material is available which could provide production of ornamental stone for many years .

Respectfully submitted,

R. E. Mieritz, P. E.



INDEX MAP
OF
CENTRAL ARIZONA

SCALE: 1" = 27 MI

Mar. 1959

R.E. Meritz

A-23

