Figure 1. Photomicrograph showing the general mineral distribution and alteration of sample 20722. Crossed polarizers, 40x.

Figure 2. Photomicrograph showing the general mineral distribution and texture of sample 20728. Crossed polarizers, 40x.
Figure 1. Photomicrograph showing the general mineral distribution and alteration of sample 20722. Crossed polarizers, 40x.

Figure 2. Photomicrograph showing the general mineral distribution and texture of sample 20728. Crossed polarizers, 40x.
Figure 5. Photomicrograph showing a replaced pyroxene grain in sample 20749. Crossed polarizers, 40x.

Figure 6. Photomicrograph showing the zoned and altered plagioclase grains in sample 20730. Crossed polarizers, 40x.
Figure 7. Photomicrograph showing the zoned and altered plagioclase grains in sample 20731. Crossed polarizers, 40x.

Figure 8. Photomicrograph showing the general mineral distribution in sample 20732. Crossed polarizers, 40x.
Figure 7. Photomicrograph showing the zoned and altered plagioclase grains in sample 20731. Crossed polarizers, 40x.

Figure 8. Photomicrograph showing the general mineral distribution in sample 20732. Crossed polarizers, 40x.
Figure 7. Photomicrograph showing the zoned and altered plagioclase grains in sample 20731. Crossed polarizers, 40x.

Figure 8. Photomicrograph showing the general mineral distribution in sample 20732. Crossed polarizers, 40x.
Figure 7. Photomicrograph showing the zoned and altered plagioclase grains in sample 20731. Crossed polarizers, 40x.

Figure 8. Photomicrograph showing the general mineral distribution in sample 20732. Crossed polarizers, 40x.
A ring or "donut"-shaped carnotite mass occurring in the matrix. Secondary and backscattered electron image. 2,900 x.

The aluminum uranyl phosphate mineral which is coated by metatorbernite. Secondary and backscattered electron image, 472 x.
PHOTOMICROGRAPHS OF SAMPLE 25003

Illustrates the porphyritic nature of the sample. Biotite, zoned plagioclase, microcline (sometimes rimmed by sericite as seen on left) and quartz phenocrysts appear in a fine-grained matrix. 16x, crossed polarizers.

Two grains of calcite appear in this photo on the left. Altered biotite and associated allanite appear on the right. 40x, cross polarizers.
PHOTOMICROGRAPH OF SAMPLE 25004

Poorly developed myrmekite in plagioclase. 254x, crossed polarizers.
PHOTOMICROGRAPHS OF SAMPLE 25005

Closeup of altered muscovite grain showing its replacement by chlorite. 254x, plane light.

Textural overview showing well sericitized plagioclase, muscovite intergrown with chlorite and opaques, and a small prismatic allanite grain in center. 40x, cross polarizers.
PHOTOMICROGRAPHS OF SAMPLE 25006

Textural overview showing zoned plagioclase in center from which secondary muscovite has formed. 40x, crossed polarizers.

Closeup of sample, showing myrmekitic plagioclase grain left and epidotized plagioclase grain right. 203x, cross polarizers.
PHOTOMICROGRAPH OF SAMPLE 25007

Calcite replacing biotite. 160x, crossed polarizers.
Textural overview, showing a zoned plagioclase at the center. Alteration of the zoned plagioclase grains is generally more concentrated in their more calcic centers. Biotite partially altered to chlorite can be seen at the right. 50x, crossed polarizers.

Subhedral sphene and associated opaques. 25x, plane light.
PHOTOMICROGRAPH OF SAMPLE 25010

Plagioclase being replaced by microcline. 203x, crossed polarizers.
PHOTOMICROGRAPHS OF SAMPLE 25011

Microperthitic microcline with partially digested plagioclase inclusions. 50x, cross polarizers.

Biotite (?) replaced by chlorite, quartz and opaques. 64x, plane light.
PHOTOMICROGRAPH OF SAMPLE 25012

Illustrates the porphyroitic nature of the sample. The larger phenocrysts consist of quartz and microcline. 16x, cross polarizers.