

0434

sphalerite, and no barite. A couple of anastomosing quartz veinlets lacking sulphides have core of anhedral barite.

This rock was probably a glassy felsic lava that devitrified then suffered strong sericite - quartz alteration followed by fracturing and hydrothermal alteration that produced zoned quartz-barite-calcite-sphalerite-pyrite veins. The sphalerite-rich veins appear to post-date the more pyritic veinlets, but they may all be related to a single mineralizing event.

SAMPLE NUMBER: 431572

SUMMARY:

This is a totally quartz-sericite-Kspar(?) altered formerly glassy aphyric felsic lava cut by abundant quartz veinlets containing sparse barite and pyrite.

HAND SPECIMEN:

This is a strongly quartz-sericite altered felsic glassy lava cut by a few diffuse veinlets of vuggy quartz-calcite-barite(?) -pyrite.

THIN SECTION:

This sample was probably a glassy felsic aphyric lava. A few small feldspar microphenocrysts have been replaced by polygonal quartz, and the entire sample has been silica-sericite altered, producing a fairly fine-grained and even-textured matrix peppered by fine-grained Fe oxides. About 30 modal% of the matrix is dirty brown, dusty material intergrown with quartz, that may be incipiently altered Kspar. Sericite forms mainly fine-grained patchy interstitial spots rather than a pervasive mesh.

The sample is cut by abundant narrow quartz veinlets with diffuse margins grading into the silicified matrix; the only other phases in the quartz veinlets are rare pyrite and interstitial anhedral barite.