

# Conversations with a Rhyolite Dike

Dr. John P. Hogan

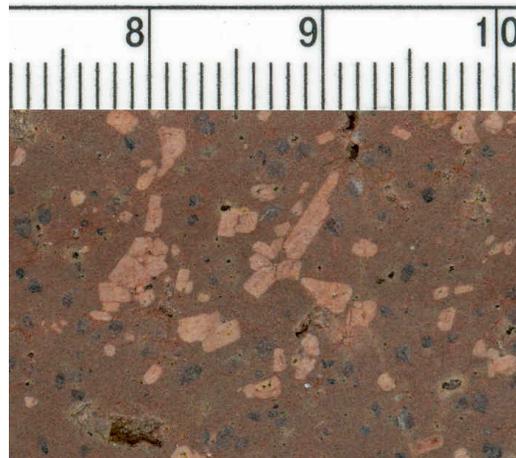
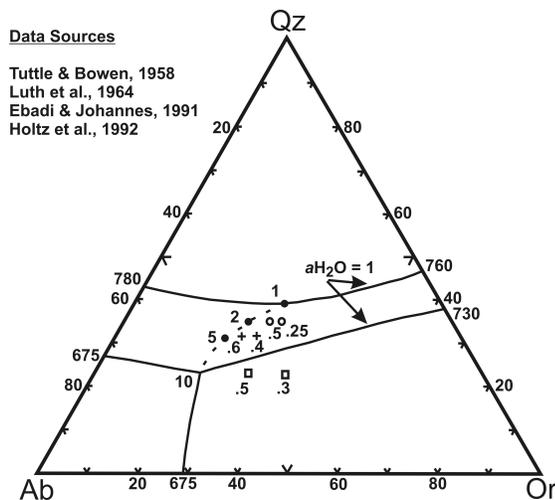
*“Rock Whisper”*

Missouri University of Science and Technology

Geological Sciences and Engineering

Rolla, Missouri 65409

[jhogan@mst.edu](mailto:jhogan@mst.edu)



Cropping out in Medicine Park, Oklahoma, as part of the mighty Wichita Mountains Igneous Province, is a humble rhyolite dike – an igneous rock with the textural appearance of a porphyritic rhyolite but with clear intrusive contacts relationships with alkali feldspar granite. Quantitative petrologic conversations with this plutonic rock that masquerades as a volcanic rock have provided; Constraints on the tectonic history of the Wichita Mountains, Made a case for magma in motion, Clocked its average speed, and revealed origins of the “Granite Look” that everyone wants in their kitchen. Come. Every rock has a story – you only need to know how to make it talk and how to listen.