

# U.S. Geological Survey Circular Volume 956

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## Reviews

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# **U.S. GEOLOGICAL SURVEY CIRCULAR VOLUME 956**



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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. Excerpt: .These results agree with observed properties of the lower crust from geophysical measurements (Jiracek and others, 1979; Seager and Morgan, 1979; Baldridge and others, 1984) and suggest that crustal granulite may have a major influence on observed properties of the crust in reactivated intracontinental rifts. COLORADO PLATEAU Techniques.--Crustal xenolith suites from Moses Rock dike and Mule Ear diatreme were sampled in order to compare observed seismic velocity structure beneath the Colorado Plateau with velocities measured on representative xenoliths. In contrast to the rift samples, most Colorado Plateau xenoliths have suffered extensive hydrothermal alteration during and (or) after emplacement, an effect not recognized by McGetchin and Silver (1972). However, systematic collection from the dikes resulted in specimens that exhibit a spectrum of alteration in the same rock type from pristine to altered. Due to the small size of the pristine samples (8-15 cm maximum diameter), drilling of cores was given highest priority, and unused portions of cores and remnents were reserved for electron microprobe, scanning electron microscope (SEM) and petrographic analyses. Pitfalls.--The major pitfall in the study of this type of xenolith suite is nonrecognition of hydrothermal overprinting of lower crustal amphibolite and granulite. Petrography and SEM observations reveal a direct correlation between progressive alteration and presence of microcracks extending into the xenoliths from the kimberlitic host. In addition, seismic velocities measured in altered samples are too low for such rocks to be characteristic of deep crustal levels. Model.--Seismic velocities measured on or

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