



Geological Survey Professional Paper Volume 525, PT. 2

By Geological Survey

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: .PHOSPHATE DEPOSITS By Z. S. ALTSCHULER, Washington, D.C. Abstract.-- Precipitated apatite and layered claylike apatite occur in the weathered and crudely reworked residuum of the Hawthorn Formation and are sources of some pellets and pebbles reworked into the overlying Bone Valley Formation. The occurrence of both types of apatite demonstrates that the phosphate pellets are not principally of fecal origin. The residual zone underlying the Bone Valley is characterized by rapid alternations of quiet-water sedimentation and turbulent reworking. The immaturity of first-cycle elastics derived from this littoral environment suggests that the well-rounded pellets that occur in the Hawthorn and Bone Valley Formations are the products of more extensive reworking. Many marine phosphate deposits are composed of nodular or pelletal apatite which, by virtue of internal structure or texture or the petrography of its setting, can be ascribed to primary or early diagenetic origins. However, the phosphate pellets of...



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