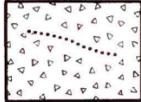
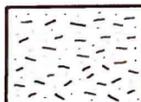
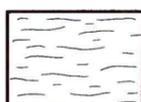
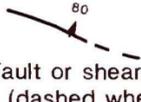
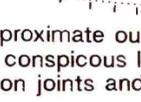
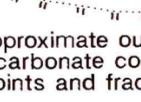
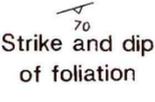
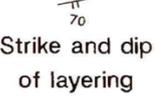
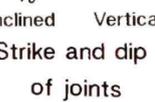
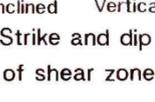
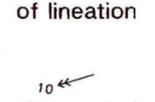
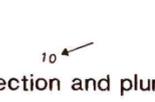
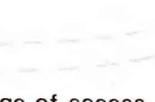
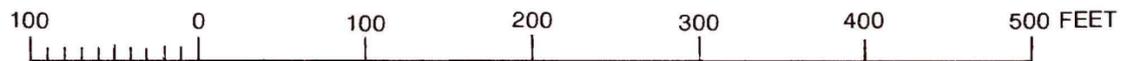


EXPLANATION

-  Breccia and microbreccia (dotted line shows zone of flinty crush rock)
-  Lamprophyre dikes
-  Pegmatite
-  Granitic gneiss
-  Biotite gneiss, schist, and migmatite with minor amphibolite
-  Fault or shear zone (dashed where approximately located)
-  Approximate outer limit of conspicuous limonite stain on joints and fractures
-  Approximate outer limit of carbonate coating on joints and fractures
-  Approximate outline of cave (vertical projection of cave floor to surface)
-  Strike and dip of foliation
-  Strike and dip of layering
-  Strike and dip of joints (Inclined, Vertical)
-  Strike and dip of shear zone (Inclined, Vertical)
-  Direction and plunge of lineation
-  Direction and plunge of striae
-  Direction and plunge of fold axis
-  Edge of access road or quarry bench

Topography of excavation by planetable methods, April 1989.
Other topography from Jefferson County Mapping Department

Geology mapped
May 1989-January 1990



CONTOUR INTERVAL 25 FEET

This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature

Geologic map of the excavation showing location of the cave and its relation to the Junction Ranch Fault Zone
by
John C. Reed Jr. 1991