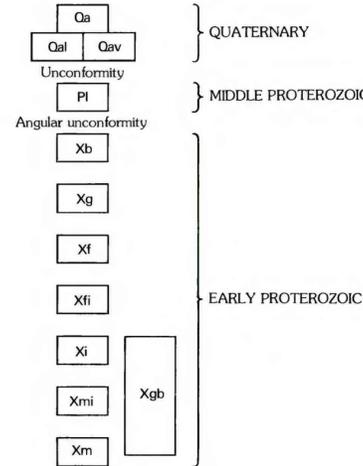


Topographic base from map 7936-II-NE, by Catastro Minero Nacional, Ministerio de Minera e Hidrocarburos, Direccion de Minas, Republica de Venezuela, Transverse Mercator Projection, scale 1:25,000

Geology by W. C. Day, L. F. Martinez, and E. Quintana

CORRELATION OF MAP UNITS



MAP SYMBOLS

- Approximate contact
- <sup>70</sup> Strike and dip of bedding
- H** Location of Heliport
- P(2) Pica- Number of pica in parentheses
- P(1) Pica- Location approximate. Number of pica in parentheses
- E(0) Eje- Number of eje in parentheses
- 1 Sample location- Number refers to the column number in Tables 1 and 2 for a given sample (for example "1" = WDV-41)

DESCRIPTION OF MAP UNITS

- Qa Alluvium (QUATERNARY)-- Alluvial deposits of gravel and clay- to silt-sized sediment deposited along streams
  - Qal Alluvium and Colluvium (QUATERNARY)-- Alluvial and colluvial sediment derived from the underlying ferruginous siltstone (unit Pi). Unit characterized by bright orange to red colored soil with minor float of ferruginous siltstone
  - Qav Alluvium and Colluvium (QUATERNARY)-- Alluvial and colluvial sediment derived from the underlying supracrustal metavolcanic rocks and metagraywacke. Unit characterized by medium to light brown soil with minor float of metavolcanic rocks and metagraywacke
  - Pi Ferruginous siltstone (MIDDLE PROTEROZOIC ?)-- Red to orange, fine-grained massive ferruginous siltstone (limolita); locally sandy siltstone. Commonly contains dark red silica- and iron oxide-rich weathering remnants (canga) in the overlying soil horizon. Basal contact with underlying Early Proterozoic rocks not observed, but considered to be angular unconformity. Unit is unmetamorphosed; age uncertain (Middle Proterozoic?), pre- or syn-Roraima Formation
- Botanamo Group  
Caballape Formation
- Xb Volcanic breccia (EARLY PROTEROZOIC)-- Volcaniclastic breccia and conglomerate. Clasts of intermediate to felsic metavolcanic and metachert rock fragments, 0.5 to 10 cm in diameter, supported in metatuffaceous matrix. Unit poorly sorted; bedding poorly developed. Metamorphosed to greenschist facies
  - Xg Metagraywacke (EARLY PROTEROZOIC)-- Dark gray, immature volcanogenic metagraywacke. Thin horizons (1-5 cm thick) of fine-grained silt- to clay-sized shale interlayered with sandstone; graded bedding poorly developed; cut-and-fill sedimentary structures locally present. Contact with underlying dacite gradational. Metamorphosed to greenschist-facies
  - Xf Felsic metavolcanic rocks (EARLY PROTEROZOIC)-- Weakly foliated light-green to gray metadacite, metarhyolite, and metarhyolite flows, and crystal-lithic metatuffs. Metamorphosed to greenschist facies
  - Xfi Intermediate to felsic metavolcanic rocks (EARLY PROTEROZOIC)-- Light- to medium-greenish gray hornblende meta-andesitic to metadacitic flows and crystal-lithic metatuffs. Weakly foliated. Metamorphosed to greenschist facies
  - Xi Intermediate metavolcanic rocks (EARLY PROTEROZOIC)-- Medium- to dark-green clinopyroxene- and hornblende-bearing meta-andesitic flows and lithic metatuffs. Weakly foliated. Metamorphosed to greenschist facies
  - Xmi Mafic to intermediate metavolcanic rocks (EARLY PROTEROZOIC)-- Dark-grayish green metabasaltic to meta-andesitic flows and tuffs. Phenocrysts include clinopyroxene, hornblende, and plagioclase. Unit is weakly foliated; metamorphosed to greenschist facies
  - Xgb Gabbro (EARLY PROTEROZOIC)-- Dark gray medium-grained metagabbro. Considered to intrude mafic volcanic rocks. Not observed within felsic volcanic rocks. Metamorphosed to greenschist facies
  - Xm Mafic metavolcanic rocks (EARLY PROTEROZOIC)-- Dark-grayish green to black metabasalt flows and pillow lavas with minor meta-andesitic tuff. Phenocrysts include clinopyroxene and plagioclase. Unit is weakly foliated. Metamorphosed to greenschist facies



INDEX MAP SHOWING LOCATION OF THE ANACOCO SUR II STUDY AREA, EASTERN BOLIVAR STATE, VENEZUELA

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