



EXPLANATION

- 250 Structure contour of base of Cretaceous Potomac Formation in Coastal Plain. Contour interval 50ft; datum is mean sea level. (after Larson and Froelich, 1977)
- Generalized dip azimuth of crossbeds in Potomac Formation sands. (after Weir, 1976)
- Structural form line in Triassic Lowland areas underlain by sedimentary rocks; arrow shows generalized dip direction.
- Mineral Occurrences (after Froelich, 1976)
 - x F - Feldspar vein
 - x Fe - Hematite
 - x Cu - Malachite, chrysocolla, etc.
 - x Cl - Clay-illite, kaolinite, etc.
 - Q - Quarry, active (d, diabase, gr, granite)
 - Q - Quarry, abandoned (d, diabase, ss, sandstone, sl, siltstone)
- Fossil Localities
 - x outcrop
 - x C-14 Pleistocene outcrop with radiometric age date in years before present, based on Carbon 14 determination
 - 14,130 ± BP
 - Albian } Brenner Pollen Zones
 - Barremian-Aptian } Lower Cretaceous
 - Plant localities P1, Lower Cretaceous ferns and gymnosperms
 - P2, Miocene petrified logs, *Taxodium* sp.
 - Triassic fauna
- Drill holes from which subsurface data were obtained
 - (16) Shows elevation in feet of base of Cretaceous Potomac Formation (after Larson and Froelich, 1977)
 - 149 (16) figure in parenthesis indicates thickness of saprolite below base of Potomac Formation and above hard crystalline bedrock.
 - OC-14 Shows depth to Pleistocene peat bed with Carbon 14 age determination in years before present
 - 34,800 ± 500BP @ 28'
 - (10) Shows elevation in feet of base of Triassic sedimentary rocks
 - 270 (10) figure in parenthesis indicates thickness of saprolite below base of Triassic strata and above hard crystalline bedrock.
- Metamorphic zone marker
 - ch-chlorite
 - b-biotite
 - b± g-biotite ± garnet
 - s± a-staurolite ± andalusite
 - k-kyanite
 - si-sillimanite, this zone marker also essentially delineates a migmatite front
 - phy-severely retrograded phyllonite and other pervasively sheared rocks in greenschist facies
 - um-unmetamorphosed transported ultramafic and related mafic rocks in greenschist facies
- gr
gr-metamorphosed granitoid rocks

References Cited

1. Froelich, A.J., 1976, Map showing mineral resources of Fairfax County, Virginia- availability and planning for future needs: U.S. Geol. Survey open-file report no. 76-660.
2. Larson, J.D., and Froelich, A.J., 1977, Map showing extent, altitude of base, and thickness of the Potomac Group in Fairfax County, Virginia: U.S. Geol. Survey open-file report no. 77-286.
3. Weir, G.W., 1976, Cross bedding of the Potomac Formation in Fairfax County, Virginia: U.S. Geol. Survey open-file report no. 76-193.

